

Your knowledgeable and trusted partner for the best in water management solutions

Product Catalog



Residential Stormwater Management Commercial Stormwater Management Professional Irrigation Flow Management

2021

ndspro.com







Since 1972, NDS has been producing plastic drainage and landscape products. From the beginning, our commitment to leading the industry has been unwavering, leading to remarkable innovations and state-of-the-art products that fit every environment, every schedule, every need.

Today, our commitment to providing one-source solutions has led to the development of superior quality drainage products, landscape products, fittings, valve and meter boxes, and drip and micro irrigation products. No product is added to our line without meeting exhaustive testing and extensive research requirements. Plus, NDS is uniquely able to offer our complete inventory of products from regional warehouses in the US and Puerto Rico. Our goal: one-business-day delivery. Our track record: outstanding.

Take a moment to look through this catalog, noting the depth of our product offering. If you have any questions or to place an order, just call 1-800-726-1994 from 5 a.m. to 5 p.m. PST and let us offer the best solution to you.

THE NDS BRAND PROMISE

NDS is your knowledgeable and trusted partner for the best in water management solutions.

Our products are engineered and produced for performance, durability, ease of installation and the efficient use of resources.

We provide the service and support to ensure that you are successful.

We put water in its place

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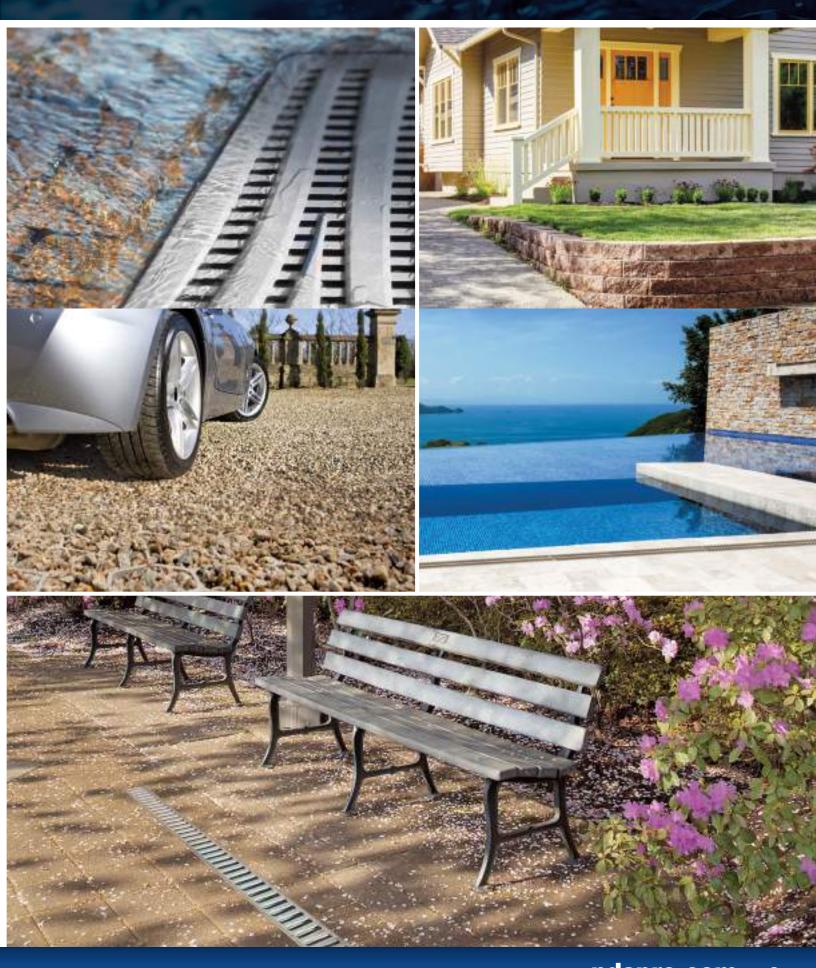




NDS products have been a reliable and trusted choice for use on over 500 projects. Never a problem, never a failure.

David Silver AAA Landscape Specialists, Inc. President and CEO

We put water in its place





RESIDENTIAL SOLUTIONS

Water Management at Any Scale

Water on Patio/Pool Deck

Channel Drains prevent water pooling on patio or pool deck, potentially causing moss or mildew growth, concrete staining, and dangerous slip hazards. (*pp. 52-87*)

Flow Management

Ball Valves and Check Valves are integral components of aquatic pump and filter assemblies. (*pp. 148-157*)

Downspout Runoff

Catch Basin and Grates remove water from downspouts and away from foundations. (*pp. 26-35*)

Landscape Irrigation

Drip and Micro Irrigation conserve water by delivering it efficiently to plants and turf. See Professional Irrigation (pp. 102-139)

Water on Driveway

Channel Drain and Grates collect sheets of water moving across driveways and sidewalks. (*pp. 52-87*)

Stormwater Detention & Infiltration

NDS[®] StormChambers[®] and Flo-Well[®] provide high-volume detention and infiltration capacity for managing stormwater runoff close to the source. (*pp. 14-25*)

Neighbor Runoff

EZflow® and Flo-Well® remove water draining from adjacent property and pooling in a planter area, or near the home's foundation, potentially causing a variety of drainage problems. (*pp. 14-25*)

Water against Foundation

EZflow[®] relieves hydrostatic pressure from elevated groundwater, preserving building integrity. (pp. 19-21)

Safe Sidewalks

Root Barriers prevent roots from intruding under and ultimately lifting pavement. (*pp. 96-99*)

Drain Fittings

Secure pipe connections are critical to any drainage system. See Fittings (pp. 170-189)

Excess Water in Planting Areas

Atrium Grates protect plants by removing excess water. (p.47)

Water on Walkway

Channel Drains and Grates remove water pooling on walkway, potentially causing moss or mildew growth, concrete staining, and slip hazards. (*pp. 52-87*)



NEIGHBORHOOD SOLUTIONS

Water Management at Any Scale

Reinforced Turf & Gravel

Permeable Paver Systems used in firelanes, service vehicle access ways and overflow parking produce significantly less stormwater runoff than hard surfaces. (*pp. 90-95*)

Permeable Pavers

EZ Roll™ gravel patios and walkways maintain permeability and reduce runoff. (*p. 94*)

Stormwater Detention & Infiltration

Using **Dry Wells** and **Infiltration Trenches** is a best management practice for treating stormwater runoff close to its source. (*pp. 18-25*)

Stormwater Detention & Infiltration

NDS[®] StormChambers[®] offer a lower cost alternative to drainage pipes. (pp. 15, 19, 22-23)

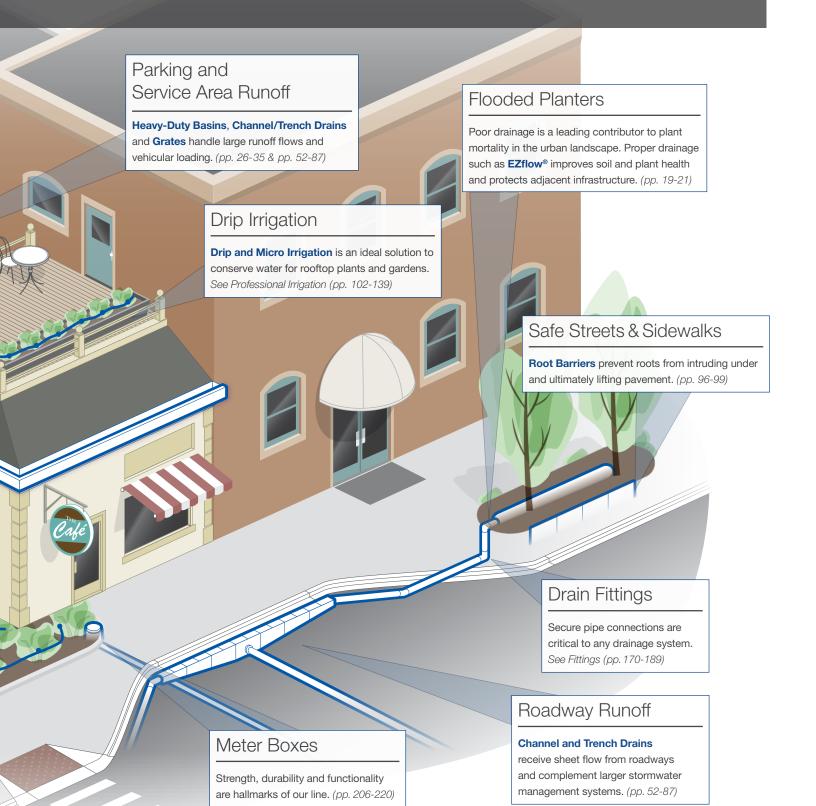
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Downspout Runoff

Catch Basins and Grates remove stormwater from downspouts and away from foundations and landscaped areas. (*pp. 26-35*)

Landscape Irrigation

Drip and Micro Irrigation conserve water by delivering it efficiently to plants and turf. See Professional Irrigation (pp. 102-139)



for videos, specs, detail drawings and case studies, visit **ndspro.com**

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COMMUNITY SOLUTIONS

Water Management at Any Scale

Large Roof Runoff

High-Capacity Subsurface Detention and Infiltration Systems including NDS[®] StormChambers[®] manage large roof runoff volumes in adjacent green areas or under parking lots. (pp. 18-25)

Athletic Field Drainage

Playability after rain events is critical in maintaining field integrity. **EZflow**[®] is an ideal drainage system for many field types. (*pp. 19-21*)

Reinforced Turf

Permeable Paver Systems used

in grassed access ways produce significantly less stormwater runoff than hard surfaces. (pp. 90-95)

Subsurface Irrigation

Dura Flo™ CV Check Valve Drip Line is the efficient choice for healthy turf. (*p.* 108-109)

400M Track Runoff

Dura Slope™ EZ-Track™ System uses radius couplings to easily make the turn on running tracks, eliminating difficult miter cuts. (*p.* 77)

Landscape Irrigation

Drip and Micro Irrigation conserves water by delivering it efficiently to plants and turf. *See Professional Irrigation (pp. 102-139)*

Courtyard Runoff

Catch Basins (pp. 26-35) and Channel Drains (pp. 52-87) keep pedestrian areas well-drained.

Pool Deck Drainage

Channel and **Trench Drains** keep the pool deck dry and safe with many decorative and heel-proof grate options. (*pp. 52-87*)

Safe Pool Deck

Root Barriers preserve the integrity of adjacent paved areas by preventing root intrusion. (*pp.* 96-99)

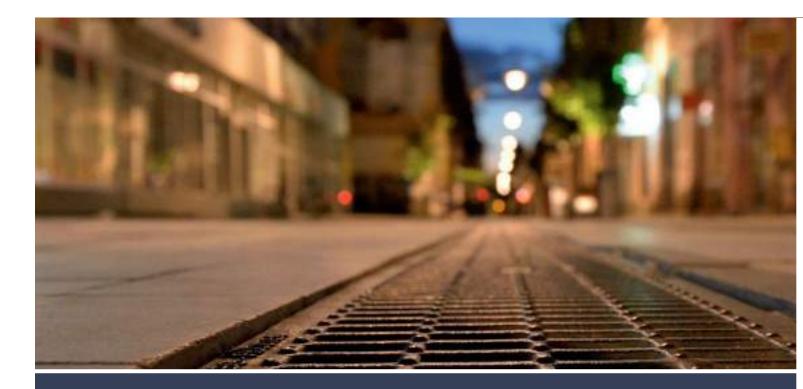
Reinforced Gravel with Delineators

EZ Roll™ gravel parking areas maintain permeability and reduce runoff, while **EZ Marker™** clearly delineates parking stalls. (*pp. 94-95*)

Flow Management

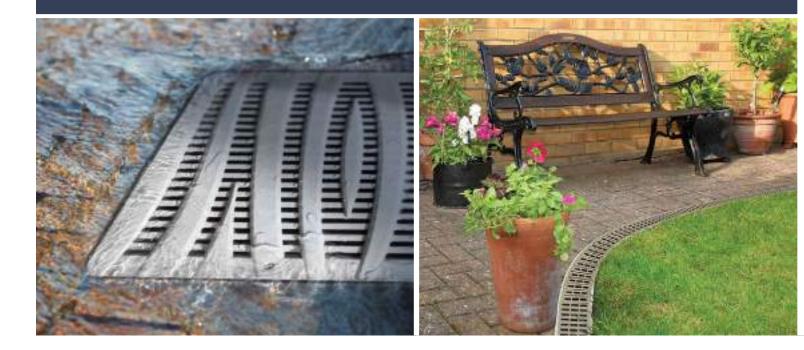
Ball and Check Valves are integral components of aquatic pump and filter assemblies. (*pp. 148-157*)





DRAINAGE

From your backyard patio to the neighborhood aquatic center, from the factory floor to a professional sports facility, NDS offers the right drainage solutions.









COMMERCIAL STORMWATER SOLUTIONS

NDS[®] offers comprehensive commercial stormwater solutions in line with Low Impact Development policies by managing stormwater as close to its source as possible through runoff reduction and quality enhancement at the site scale. Our solution is built around known and trusted components, providing solutions that offer 5 key benefits:

- Conservation of water resources to improve our well-being
- Management of stormwater at the source to reduce downstream impact
- Flexibility of system footprint allows for adaptive implementation
- Mitigation of pollution and erosion to protect water systems
- Replenishment of groundwater to help ensure future supply

A single-source solution, NDS is easy to specify, qualifies for LEED credits and offers up to 250% more detention volume than traditional gravel systems.

Grate

Channel

Flboy

Elbow

Design Your System

An effective onsite stormwater system can be designed in 5 easy steps:



Identify Sources - Stormwater runoff may come from point sources like downspouts, as sheet flow from parking lots, irregularly through drainage ways in the landscape, or even as elevated groundwater.

2 Select Method of Capture - Each runoff source has a practical method of capture for conveyance to the detention and infiltration area.

- 3 Determine Peak Flow and Detention Volume -The quantity of runoff for a given rainfall event over a defined area is easily calculated when surface type and rainfall intensity are known by using the Rational Method formula Q = CiA. Applicable regulations generally provide guidance on the rainfall intensity to use for a given set of circumstances.
- 4 Size the System Detention and infiltration devices have measured holding capacities. Select the appropriate quantity and arrangement of devices to handle the predetermined runoff volume calculated above. Also consider the capacity of conveyance and overflow piping.
- 5 Determine Field Layout Site constraints including setbacks, landform, soil types, fixed objects and open space, among others, will inform the location and arrangement of system components. Each element of runoff capture, filtration, conveyance, detention, infiltration and overflow must be considered.

CAPTURE

Catch basins receive runoff from downspouts and landscaped areas. **Channel drains** accept sheet flows from paved walks and parking.

FILTRATION

Basins and channel grates provide a front line of debris filtration; adding fabric filters contributes further removal of fines from stormwater, extending system life. Chamber systems have advanced filtration options.

CONVEYANCE

Smooth-wall and corrugated pipe with compatible fittings and adapters convey stormwater from the point of capture to the detention and infiltration area. Select pipe type and set pipe slope to handle the anticipated runoff volumes based on established pipe-flow characteristics. Using EZflow for conveyance may reduce the footprint of downstream detention and infiltration areas.

Filte

Adap

End C

DETENTION & INFILTRATION

Flo-Well® manufactured dry wells provide 50 gallons of detention volume. Each unit has multiple connection points including sidewall and top-cover knock outs to receive 3" to 8" pipe. Flo-Wells are stackable and can be arranged in multiple configurations.

EZflow® engineered French drains are 10' bundles of Poly-Rock aggregate with or without corrugated drain pipe. Bundles are available in 7", 10" and 15" diameters, with or without 3", 4" or 6" pipe, respectively. A standard infiltration trench consists of a 10" bundle with 4" pipe atop two 15" aggregate-only bundles, providing over 100 gallons of detention volume.

NDS® StormChamber® provides a lower cost alternative to drainage pipes for conveyance, with added benefits of groundwater recharge and water quality enhancement. Chambers eliminate the need for restrictive holding ponds and can be stacked in many applications to reduce footprint and save valuable land space.

OVERFLOW

Pop-up emitters allow excess runoff beyond system capacity to discharge in a safe location.





Pipe

() NDS

SUSTAINABLE STORMWATER SOLUTIONS

NDS components can be configured to meet a wide variety of residential and commercial applications.

CAPTURE

NDS offers several options to collect stormwater from various sources.

- Catch basins function effectively as area drains and for downspouts from roofs
- · Channel drains intercept sheet flow from paved surfaces
- Permeable grass and gravel paver systems with underdrains collect stormwater from walkways and parking areas when used as alternatives to traditional impermeable solutions

FILTER

Prevent debris and other suspended solids in stormwater from impairing system function.

- · Basin and channel grates provide a front line of mechanical filtration
- Fabric filters contribute further removal of fines from stormwater, extending system life
- Grass and gravel paver systems naturally filter and clean stormwater while flowing through the permeable paver solutions

CONVEY

Move stormwater from its sources to downstream detention, infiltration and overflow components.

- Smooth-wall and corrugated pipe with appropriate fittings and adapters have known flow characteristics to get the job done
- Using EZflow[®] for conveyance will also increase system detention and infiltration, effectively reducing the footprint of the downstream detention area

DETAIN

NDS detention components provide efficient volume to minimize runoff and maximize infiltration.

 Flo-Well[®] dry wells, NDS[®] StormChamber[®] and EZflow[®] infiltration-trench arrangements have defined volumes for this purpose.

INFILTRATE

Arrange Flo-Well[®] dry wells, NDS[®] StormChamber[®] and EZflow[®] infiltration trenches in customizable configurations and at depths suitable to existing site conditions, soil types and groundwater elevations.

 Flo-Well[®] has an open bottom and side knockouts to allow direct infiltration, and EZflow[®] maximizes soil-contact area for effective infiltration

OVERFLOW

Allow for excess stormwater beyond the design storm to overflow from the system in a safe, suitable downstream location.

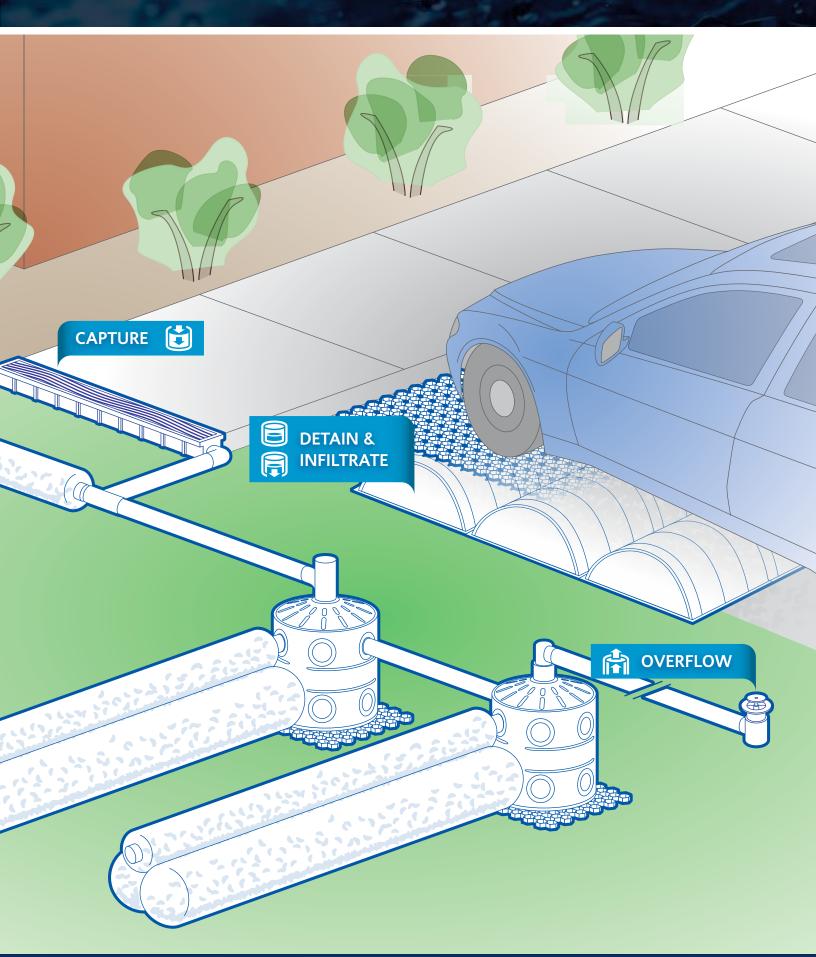
CONVEY &

CAPTURE

FILTER



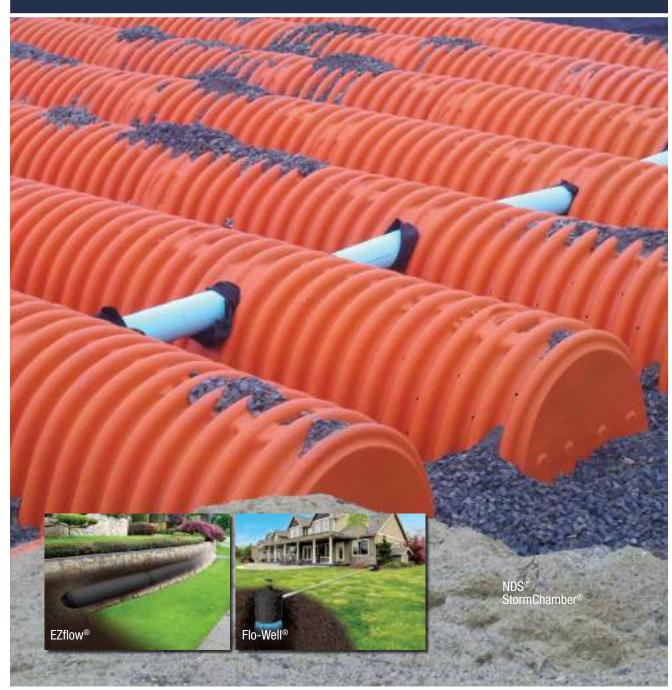
We put water in its place







SUBSURFACE DRAINAGE & INFILTRATION



THE NDS SOLUTION

Whether you need a dry well, French drain or infiltration trench, NDS has you covered with innovative and proven subsurface drainage and stormwater infiltration products. EZflow® French drain system, NDS® StormChamber® and Flo-Well[®] dry well provide trusted performance for multiple applications and are lightweight and easy to install. These engineered solutions are proven time-and-labor savers that outperform traditional systems in flow through and storage capacity. When performance and sustainability matter, NDS solutions are the preferred choice of contractors, engineers and landscape architects. EZflow®, NDS® StormChamber® and Flo-Well® are made in the USA and each contribute to and landscape architects. EZflow^o, NDS^o Stormonamber^o and Flo-weil are made in the corr and cach contributing to the proportion of recycled materials.



EZflow[®]

EZflow® offers an engineered and gravel-free alternative to a traditional French Drain system. EZflow® can be used to lower subsurface groundwater elevations; protecting property and improving the health of playing fields and planted areas. It can also be used as an infiltration trench for managing stormwater runoff. Available in multiple diameters with or without pipe, this versatile product is an effective component of subsurface drainage and infiltration systems.

- · Installs in half the time of traditional gravel systems
- Better flow capacity than traditional stone-and-pipe systems
- Up to H-10 load rating with 12" of compacted soil cover
- Over 100 million linear feet installed



NDS[®] StormChamber[®]

Stormwater chambers provide a lower cost alternative to drainage pipes for conveyance, with added benefits of groundwater recharge and water quality enhancement. Stronger and easier to maintain, NDS® StormChamber® is the ideal solution for stormwater detention and/or infiltration, providing easy installation and design flexibility to meet target stormwater runoff rates, volume control and water quality requirements.

- Thermo-formed high density weight polyethylene HMWPE material won't crack
- 100-year life expectancy Longest on the market
- Saves time and money offers the lowest installed cost
- Proprietary SedimenTrap[™] offers centralized sediment control, gathering sediment and pollutants in one place for quick removal by vacuum truck.



Flo-Well[®]

Flo-Well® engineered dry well presents an easy to install and sustainable solution for managing stormwater runoff. Flo-Well® is a gravel-free alternative to a traditional dry well with up to 250% more detention volume. Used independently or as part of a larger system, Flo-Well[®] units collect and detain stormwater allowing for groundwater recharge. Units are modular and can be connected in series or stacked to meet a variety of project needs.

- Up to 50 gallons of detention volume per unit
- · Connect units in series for larger volumes or stack for reduced footprint
- Fast and easy installation with no heavy equipment or gravel needed
- Manufactured from 100% recycled materials



EZFLOW®: A BETTER FRENCH DRAIN



Gravel-free installation provides up to 50% labor savings over traditional systems Better flow through and detention volume than traditional systems Durable with a 100-year materials lifespan when installed Projects qualify for LEED credits

EZflow[®] Drainage Bundles

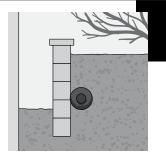
EZflow[®] drainage bundles are 10 feet in length with a slotted pipe surrounded by expanded polystyrene aggregate and enclosed in geotextile mesh. Configurations are available in 7-inch bundles with or without a 3-inch pipe, 10-inch bundles with or without a 4-inch pipe, and 15-inch bundles with or without a 6-inch pipe. Accessories include 3-inch, 4-inch, and 6-inch internal couplers and end caps. EZflow[®] bundles can also be used with internal tee and internal wyes. The 15-inch bundles are available with the pipe located in the center or bottom of the bundle for varying application Unless specifically required by code or other requirement, the pipe can be either centered or at the bottom of the bundle. GEOTEXTILE MESH FABRIC

GEOSYNTHETIC POLY-ROCK __ AGGREGATE LOTTED ORRUGATED DRAIN PIPE

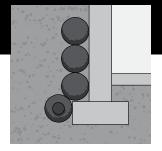
Applications



French/Interceptor Drains



Planter/Retaining Walls



Foundation Drains

Basement/Crawlspace

EZflow[®] drainage systems are appropriate for a wide range of applications and are a convenient alternative to traditional stone and pipe drainage, storage and infiltration systems. EZflow[®] drainage systems can be used as a substitute for stone in most applications where the stone is not utilized for structural support. A professional engineer, landscape architect or other qualified design professional should be consulted for complex applications.

Product selection is relative to the desired application and benefits from establishing anticipated flow into, through and out of a proposed drainage system configuration. Selection considerations include: bundle sizing and storage volume, the presence or absence of pipe, pipe size and location within the bundle, and arrangement of bundles. Design factors may include: length of system, watershed area, soil type and permeability, groundwater levels and system discharge opportunities. EZflow[®] drainage storage volumes and pipe discharge rates are listed on the next page.

EZFLOW® ENGINEERED FRENCH DRAIN

EZflow[®] Gravel-Free French Drain

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Part No.	Description	Color	Bundle size/ Linear Feet	Wt. per Bundle (lbs.)	Product Class	Specifications
EZ-0701F	7" mesh with 3" slotted pipe (center)	Black	90	32.4	11RP	10 ft. polyethylene slotted drain pipe surrounded by
EZ-1001F	10" mesh with 4" slotted pipe (center)	Black	50	29.5	11RP	100% recycled polystyrene aggregate and enclosed
EZ-1501F	15" mesh with 6" slotted pipe (center)	Black	20	26.0	11RP	in 30-sieve polyethylene geotextile mesh.
EZ-0701A	7" mesh without pipe – aggregate only	Black	90	18.0	11RP	10 ft. segment of 100% recycled polystyrene
EZ-1001A	10" mesh without pipe – aggregate only	Black	50	13.5	11RP	aggregate only, enclosed in 30-sieve polyethylene
EZ-1501A	15" mesh without pipe – aggregate only	Black	20	12.4	11RP	geotextile mesh.

EZflow[®] Internal Couplings & End Caps

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
3C05	3" Corrugated Internal Coupling	Black	60/box	0.30	11RP
4C07	4" Corrugated Internal Coupling	Black	36/box	0.30	11RP
6C07	6" Corrugated Internal Coupling	Black	12/box	0.80	11RP
3C06	3" Corrugated End Cap	Black	33/box	0.30	11RP
4C06	4" Corrugated End Cap	Black	21/box	0.50	11RP
6C06	6" Corrugated End Cap	Black	15/box	0.50	11RP

Storage & Flow for EZflow[®] Drainage Bundles (45% void space among consolidated EPS aggregate)

Pipe Bundles			E7 0704 E	EZ-1001F	EZ-1501
Product	Storage Volume (gallons/10 ft. bundle)	Flow Capacity (gpm @ 1% slope)	EZ-0701F		† 15"
EZ-0701F	11.4	80.8			
EZ-1001F	21.5	130.9	3" PIPE (CENTERED)	4" PIPE (CENTERED)	6" PIPE (CENTERED)
EZ-1501F	45.8	345.0			
Aggregate-Only Bundle	es			EZ-1001A	EZ-1501A
Product	Storage Volume (gallons/10 ft. bundle)	Flow Capacity (gpm @ 1% slope)	EZ-0701A	+	
EZ-0701A	8.8	37.1	<u>/*</u>	10"	15"
EZ-1001A	17.2	75.7	NO PIPE	Î NO PIPE	NO PIPE
EZ-1501A	36.5	170.3			



NDS® STORMCHAMBER®: THE MOST COST-EFFECTIVE CHAMBER SOLUTION



NDS[®] StormChambers[®] are subsurface structures that are used to collect, retain and discharge stormwater on commercial and residential sites. They provide a lower cost alternative to drainage pipes for conveyance, with the added benefits of groundwater recharge and water quality enhancement.

Stronger & Easier to Maintain – High Volume Stormwater Retention

NDS[®] StormChamber[®] is the most cost-effective chamber solution on the market. Thermo-formed from high density weight polyethylene HMWPE material, it offers superior strength that won't crack even under the most extreme environments. Designed for fast installation and simple maintenance, NDS[®] StormChamber[®] is ideal for roadways, parking lots and fields and can stack, allowing for deeper installation and a smaller footprint.

Key Benefits:



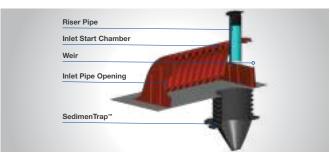
Strong, Flexible & Durable

- Meets H-20 standards
- Up to 16' cover when deep installs are required for the 34". Up to 12' for the 44"
- 100-Year Life Expectancy
- · Withstands the most extreme environments
- Material bends instead of breaks, giving it a brittleness temperature of -107° F vs. industry average of -2° F



Fast Installation

- Built-in end walls
- · No header pipe manifold system required
- Flexible design
- Lowest installed cost



Simple Maintenance

- Differentiated and centralized sediment control
- SedimenTrap[™] gathers sediments and other pollutants in one place for quick, easy and inexpensive removal by vacuum truck



Stacks

- 34" Chambers: Capable of 3-layer stacking
- 44" Chambers: Contact NDS DesignWorx for any projects that may need stacking
- We offer expert site-specific design guidance based on 20 years of successful completion of projects

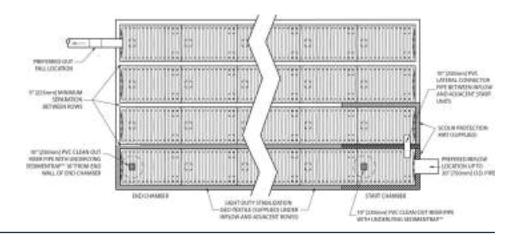
DRAINAGE

NDS® STORMCHAMBER®

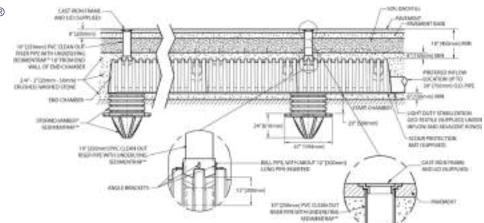
NDS® StormChamber®



Deal No	Desetation	0.1	1 11	140.001		Weight	Desident	Product
Part No.	Description	Color	Length	Width	Height	(lbs.)	Per Pallet	Class
SC-3475W-S-0	75CUFT START CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-E-0	75CUFT END CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-M-0	75CUFT MIDDLE CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-C-0	75CUFT CLOSED CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475-S-0	75CUFT START CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-E-0	75CUFT END CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-M-0	75CUFT MIDDLE CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-C-0	75CUFT CLOSE CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-44105-S-0	105CUFT START CHAMBER90X78X44	Orange	90"	78"	44"	120	20	10SC
SC-44105-E-0	105CUFT END CHAMBER90X78X44	Orange	90"	78"	44"	120	20	10SC
SC-44105-M-0	105CUFT MID CHAMBER90X78X44	Orange	90"	78"	44"	120	20	10SC
SC-44105-C-0	105CUFT CLOSE CHAMBER90X78X44	Orange	90"	78"	44"	120	20	10SC
SC-1820-S-0	20CUFT START CHAMBER 18"	Orange	100"	37"	18"	53	45	10SC
SC-1820-E-0	20CUFT END CHAMBER 18"	Orange	100"	37"	18"	53	45	10SC
SC-1820-M-0	20CUFT MIDDLE CHAMBER 18"	Orange	100"	37"	18"	53	45	10SC
SC-1820-C-0	20CUFT CLOSED CHAMBER 18"	Orange	100"	37"	18"	53	45	10SC
SC-ST	SEDIMENT TRAP	Orange	47" OD	-	2'	3	4	10SC
SC-2412P	24" x 12" HDPE Pipe	Orange	24"	-	12"	9.25	20	10SC
SC-NWFF-500	FILTER FABRIC NON-WOVEN LIGHT	Orange	360'	12.5'	1.5' OD roll	220	3	10SC
SC-WFF-75	STABILIZATION FABRIC WOVEN MEDIUM	Orange	75'	7.5'	0.75' OD roll	75	16	10SC
SC-FL-10	10" FRAME AND LID	Orange	20" OD	-	3"	24	_	10SC
SC-3020P	30" X 20" HDPE PIPE	Orange	36" OD	-	20"	45	4	10SC



NDS[®] StormChamber[®] Elevated View





FLO-WELL®: A BETTER DRY WELL



With the Flo-Well[®], water can now be infiltrated into the subsoil rapidly and easily. Unlike competitive systems, there is no need for piping systems to transport stormwater to a far-off discharge point, large heavy equipment, considerable excavation of current landscaped areas, nor large labor costs that those systems incur. With Flo-Well, water infiltration is now easier than ever.

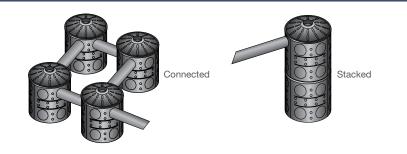
Options

DRAINAGE

Larger 9" or 12" grates can be added to Flo-Well to manage surface water.	ldeal as a stand-alone drain:	ldeal as a stand-alone reservoir:
This option is ideal for draining: Golf course areas prone to puddling Playground areas under slides and swings Outdoor drinking fountain runoff Outdoor showers at beaches Wash-down areas	Disturbs only 4 square feet of turf to install Requires less than 10 cubic feet of soil removed to bury Measures only 24" in diameter by 28.75" high Weighs only 22 pounds Holds over 48 gallons. Or, connect to existing system for increased drainage capabilities	Collect and hold rainwater for lawn and garden irrigation (used with a pump connected to a garden hose) Connect Flo-Well to rain gutters using a catch basin & grate below each downspout (see drawing) Ideal solution for arid areas impacted by drought Reservoir for pond and waterfall recirculation pumps

Stackable & Expandable

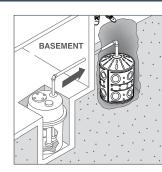
Flo-Well[®] can be used individually, connected in series or in any array, and can be stacked up to 4 units high (with center support pipe).



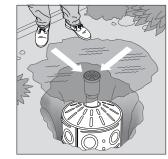
Applications



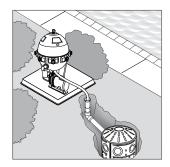
For gutters and downspouts



Install with sump pumps



Eliminates puddles



Backwash tank

FLO-WELL® ENGINEERED DRY WELL

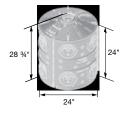
Part FWA

Pa

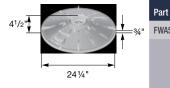
Par FW

Part FWSD

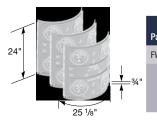
Par FW



rt No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
AS24WH	24" diam. x 28.75"H Flo-Well® Stormwater Leaching System	Black	1	18.96	10FW	NDS #FWAS24WH structural foam polyolefin round drywell system
	Includes 3 side panels, 1 top component	with UV inhibitors. 50 gal. storage capacity.				
	Fits 4" Sch. 40 Pipe and 4" DWV Pipe.					oupuony.



t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
AS24CWH	24" diam. Flo-Well® Cover	Black	2	5.92	10FW	Structural foam polyolefin round
	Use with #FWAS24.					drywell system cover with UV inhibitors. 24-1/4" dia., 4-1/2" height, 3/4" outer lip, 4.5" center knockout fits NDS #FWSD69, std pipe and 4" Sch. 40 pipe.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
WSPS3WH	Flo-Well® Side Panels/Extension Only	Black	1	4.35	10FW	Structural foam polyolefin side panels
	Includes 3 side panels; makes 1 round d (May also be used as a durable compost bin)	rywell.				with UV inhibitors with 22 1-1/2" knockout leaching ports and 4 4.5" knockout inlet/outlet ports per panel. 0.75" lip for firm stacking.



art No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
VBP24	24" diam. Flo-Well® Bottom	Black	5	3.41	10FW	Structural foam polyolefin round
	Fits #FWAS24. (Not included in #FWAS24 kit)					Flo-Well [®] bottom with UV inhibitors. 24" diameter with six 1-1/2" leaching ports. Collects debris for easy cleanout.



t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
D69	4" Sch. 40 Surface Drain Inlet with Grate	Black	8	1.85	10FW	Structural foam polyolefin 6" grate with 4" inlet with UV inhibitors. 6"
	Fits #FWAS24 and #FWAS24C. ADA Compliant.					diameter at inlet. 9" high. 4.5" OD fits Sch. 40 PVC fittings. Open surface area 8.22 square inches. 25.15 GPM.



art No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
VFF67	Porous Filter Fabric Wrap for Flo-Well®	Black	1	0.35	10FW	7' long x 2' wide to surround Flo-Well®		
	Use with #FWAS24.					Drywell System. Non-woven fabric. Weight 1 oz. Mullen burst 175 psi. 200 GPM flow-through.		





NDS catch basins and grates collect surface water while minimizing the amount of debris entering the system

Available in a range of sizes from 6" round to 24" square, and with various grating and filter options for commercial and residential systems.

NDS Drainage Solutions

NDS offers a complete line of catch basins and grates for residential and commercial stormwater management solutions. NDS catch basins have sump areas that collect debris and prevent clogging of the pipeline, and grates are available in a variety of patterns and colors to blend in with surrounding surfaces. Depending on the size of the round, square, or atrium grates, they may fit directly into a riser of pipe, sewer and drain fitting, or our catch basins.

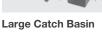






Small Grates

Spee-D[®] Basin



Adapter

Spee-D[®] Basins

Use our compact 6" round Spee-D Basins with grates to collect runoff water while its sump area collects debris and prevents clogging. Also use Spee-D Basins with 6" Pop-Up Emitters to provide a point of discharge or overflow in a drainage system.

6 ½" →	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
	101	1 - 3" and 4" Locking Outlet	Black	10	1.60	10ND	6" styrene catch basin	
	101ATBLKIT	Spee-D Basin with 6" Black Atrium Grate	Black Grate	8	n/a	10ND	with locking outlet. 68 GPM per outlet capacity.	
	101GRKIT	Spee-D Basin with 6" Green Round Grate	Green Grate	6	n/a	10ND		
	101SQGRKIT	Spee-D Basin with 9" x 9" Green Square Grate	Green Grate	8	n/a	10ND		
	201	3" and 4" Locking Outlets*	Black	10	1.83	10ND	101 201	
6.305" (INSIDE) ►		Pipe. Use new Spee-D Riser or 6" Sewer and Drain Pipe	pee-D Basins and kits fit 3" or 4" Sewer & Drain Pipe, 3" or 4" Corrugated Pipe, 4" Sch. 40 and 3" & 4" Triple Wall tipe. Use new Spee-D Riser or 6" Sewer and Drain Pipe as a riser for all 6" round catch basins. Use waterproof ilicone to make water-tight connections. Locking Outlet snaps on to most 3" and 4" corrugated pipe.					
7.745"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
ger fra y myst Pringel yww. Twitt	101R	Spee-D Basin Riser	Black	12	1.07	10ND	6" Riser for Spee-D Basin.	
6.237" (OUTSIDE)		Use with any Spee-D Basin to add from 2" to 6" to top of basin. Can be cut to size and has guidelines in 1" increments. Compatible with all grates that fit Spee-D Basin.					Styrene.	
<u>6 ½</u> "	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
	250	2 - 4" 90° Outlets	Black	12	1.64	10ND	6" styrene catch basin	
7 ⁷ / ₈ " 2 ⁹ / ₁₆ " 4 ⁹ / ₁₆ "	300	3 - 4" Outlets	Black	12	1.82	10ND	with pipe outlets. 83 GPM per outlet capacity.	
	350	4 - 4" Outlets	Black	12	2.00	10ND		
		Fit 4" Sewer & Drain pipe and fittings, 4" SCH40 and Co or 6" Sewer & Drain pipe as riser extension.	rrugated Pipes. Use	Spee-D Basir	n Riser 101R		250 300 350	

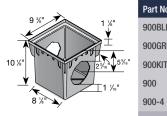
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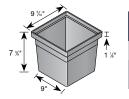
CATCH BASINS

9" Catch Basin Series

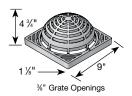
999S

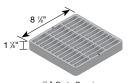












Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
900FF	9" Catch Basin Filter	Blue Frame/	8	0.06	10ND	Polypropylene Frame	
_		Black Bag				Fabric is non-woven geotextile 956 PM/SF.	
	Compatible with these basins: 900, 900-4 and 916	NDS Catch Basins, Ris	ers and Kits				
			Pkg.	Wt. Ea.	Product		
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications	
900BLKIT	9" x 9" Catch Basin Kit	Black Grate	4	4.90	10ND	9" x 9" tapered Catch Basin. Polypropylene.	
900GRKIT	9" x 9" Catch Basin Kit	Green Grate	4	4.90	10ND	Kits include 2-opening	
900KITDISP	9" x 9" Catch Basin Kits in Display Box	Blk/Grn Grates	8	39.2	10ND	Catch Basin, Grate,	
900	9" x 9" Catch Basin 2-opening	Black	4	2.18	10ND	Screws, 2 Outlets and 1 Plug.	
900-4	9" x 9" Catch Basin 4-opening	Black	4	2.00	10ND	DISP includes 4 kits with	
	Requires either #1206, #1242, #1243, #1245 or #1	266 Universal Outlet to	connect pipe	to basin. (see	e page 35)	black grates and 4 green	
			Pkg.	Wt. Ea.	Product		
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications	
916	9" x 9" Catch Basin Riser	Black	4	1.75	10ND	6" Riser for 9" x 9 Catch Basin. Styrene.	
	Use with 9" x 9" Catch Basin Series. Stacks on top Can be cut to size.	Dasin. Styrene.					
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
900DSG	9" x 9" Downspout Defender Grate	Black	4	0.8	10ND	9" x 9" Downspout Grate,	
	Receives downspouts from 2" to 4" round or squar Fits all NDS 9" square Catch Basins, Risers and Lov					Structural Foam Polyolefin with UV inhibitors. 146 GPM.	
900DSGKIT	9" x 9" Low-Profile Downspout Kit	Black	4	2.25	10ND	Kit includes 9" Downspout	
	Receives downspouts from 2" to 4" round or squar Pipe, 4" Sewer and Drain Fittings, 4" Schedule 40 F			4" Sewer and	d Drain	Defender Grate, 930 low- profile adapter and 1243 outlet adapter. 146 GPM.	
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
981	9" x 9" Atrium Grate	Black	6	0.87	10ND	9" Structural Foam	
991	9" x 9" Atrium Grate	Black	6	0.87	10ND	Polyolefin Dome Atrium Grate with UV inhibitor.	
	Use with 9" x 9" Catch Basin Series.	Open surface area 31.50 square inches. 96.36 GPM.					
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
980	9" Square Grate	Black	8	1.50	10ND	9" Square Structural Foam	
990	9" Square Grate	Green	8	1.50	10ND	Polyolefin Grate with UV inhibitor. Open surface	
999	9" Square Grate	Gray	8	1.50	10ND	area 37.49 square inches.	
0000		Cond	0	1 50	10ND	114.69 GPM.	

3/16" Grate Openings

Use with 9" x 9" Catch Basin Series. NDS #980, 990, 999, 999S: Class A Load Rated. ADA Compliant. NDS #930B: Class B Load Rated.

Sand

(see page 79). ADA Compliant.

9" Square Grate

8

1.50

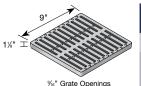
10ND



9" Catch Basin Series (continued)

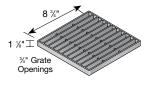
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8 [%] "	Part No.
	930B
7/16" Grate Openings	
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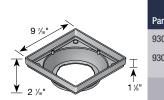
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications			
930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00 square inches. 104.01 GPM.			
	(see page 79). ADA Compliant.								



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
913	9" Square Ductile Iron Grate	Black*	4	7.89	10ND	9" Square Heavy-Duty			
•••••	Use with 9" x 9" Catch Basin Series. *Painted for shipping & display only; grate will form (see page 79)	Ductile Iron Grate. Open surface area 21.70 square inches. 66.38 GPM.							

%6" Grate Openings





10 %

4"

-2 %"

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
915	9" Square Galvanized Steel Grate	Galvanized Steel	4	3.80	10ND	9" Square Heavy-Duty			
	Use with 9" x 9" Catch Basin Series. (see page 79)					Galvanized Steel Bar Grate. Open surface area 61.94 square inches. 189.48 GPM.			

art No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
30	9" x 9" Low-Profile Adapter	Black	8	0.75	10ND	9" x 9 Low-Profile Adapter.			
30GRKIT	9" x 9" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Green Grate	8	n/a	10ND	Styrene. Kits contain Low-Profile			
	Adapter alone requires #1242, #1243, #1245, #126 Sewer and Drain or Corrugated Pipes (see page 35).	Adapter, 3" & 4" Universal Locking Outlet and Grate as described.							

1 ½" ↓	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	931	9" x 9" Deep Housing Spigot Adapter Black 10 2.40 10ND					9" x 9" Square Deep Housing Spigot Adapter. Styrene.
		Fits 4" Corrugated Pipe.					
2"		Use #933 to adapt to 4" Sewer and Drain Pipe.					

\mathbf{x}	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
3 ½" 4 ½"	933	Adapter Bushing	Black	20	0.30	10ND	Styrene.
′ <u>↓</u> <u>↓</u>		Bushing adapts #931 to fit 3" and 4" Sewer and Dra					

9 ½"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	932	9" x 9" Low-Profile Housing Adapter	Black	8	1.13	10ND	NDS #932, 9" x 9" Square
$ \begin{array}{c} \downarrow^{4} \\ \downarrow^{4} \\ \downarrow^{5} \\ \downarrow^{\mu} \\ \downarrow^{\mu} \end{matrix} $		Fits 6" Spee-D $^{\otimes}$ Basin and 6" Sewer and Drain Pipe	Fite 6" Snee-D® Rasin and 6" Sower and Drain Pine & Fittings			Low-Profile Housing Adapter with 6" Outlet. Styrene.	

12" Catch Basin Series

Par 120

Part N 1200E

> 1203 1204

Part

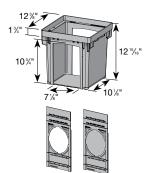
1216

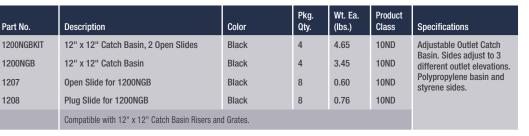
Part N

1%

12"

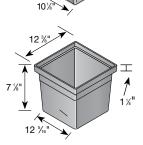
urt No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
200FF	12" Catch Basin Filter	10ND	Polypropylene Frame Fabric is non-woven			
	Compatible with all NDS 12"x12" grates except pla	geotextile 956 PM/SF.				





No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
BLKIT	12" x 12" Catch Basin Kit	Black Grate	4	7.59	10ND	12" x 12" Tapered Catch			
GRKIT	12" x 12" Catch Basin Kit	Green Grate	4	7.59	10ND	Basin. Polypropylene.			
KITDISP	12" x 12" Catch Basin Kits in Display Box	Blk/Grn Grates	8	7.59	10ND	Kits include 2-opening Catch Basin, Grate,			
)	12" x 12" Catch Basin, 2 Openings	Black	4	4.25	10ND	Screws, 2 Outlets and 1 Plug.			
3	12" x 12" Catch Basin, 3 Openings	Black	4	3.75	10ND	DISP includes 4 kits with			
Ļ	12" x 12" Catch Basin, 4 Openings	Black	4	3.75	10ND	black grates and 4 green			
	Requires either #1206 #1242 #1243 #1245 #12								

Requires either #1206, #1242, #1243, #1245, (see page 35). Bottom cutout can be removed.

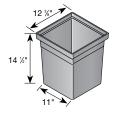


12¹⁵/10

t No.	Description	Color	Pkg. Qty.	· · · · ·	Product Class	Specifications			
6	12" x 12" Catch Basin Riser	Black	8	2.75	10ND	6" Riser for 12" Catch			
	Use with 12" x 12" Catch Basin Series. Stacks on top of 12" catch basins to add up to 6" t	Basin. Styrene.							

12 %" 🔨 1 %"	
	Part I
11"	1217
	-
<u>→</u> <u>2½</u> " <u>→</u> 2"	

No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	12" x 12" Riser with 2 Openings	Black	4	4.00	10ND	12" Riser with Two
	Nests on top of 12" Catch Basin Series for shallow outlets and 12" Sump Box for more sump area. Requires either #1206, #1242, #1243, #1245, #1266 or #1889 Universal Outlet to connect pipe to riser.					Openings. Styrene.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications	
1225	12" x 12" Sump Box	Black	4	6.75	10ND	One-piece 12" Sump Box. Styrene.	
	Use with 12" x 12" Grate or #1220 Sump/Valve Box Cover.						



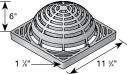
12" Catch Basin Series (continued)

Part No.

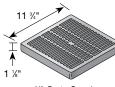
9"

Description

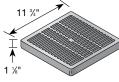
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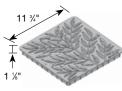
%" Grate Openings







%" Grate Openings



%" Grate Openings

1200DSG	12" x 12" Downspout Defender Grate	Black	8	n/a	10ND	12" x 12" Downspout Grate.		
	Receives downspouts from 2" to 6" round or squa		Structural Foam Polyolefin with UV inhibitor. 247 GPM.					
	Fits all NDS 12" square Catch Basins, Risers and L	.ow-Profile adapters.						
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1280	12" x 12" Atrium Grate	Green	8	1.74	10ND	12" Structural Foam		
1290	12" x 12" Atrium Grate	Black	8	1.74	10ND	Polyolefin Dome Atrium Grate with UV inhibitor.		
	Use with 12" x 12" Catch Basin Series.					Open surface area 50.60 square inches. 154.79 GPM.		
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		

Color

Pkg. Qty.

Product Class

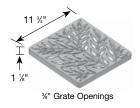
Specifications

Wt. Ea. (lbs.)

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
1210	12" x 12" Square Grate	Gray	8	2.33	10ND	12" Square Structural
1211	12" x 12" Square Grate	Black	8	2.33	10ND	Foam Polyolefin Grate with UV inhibitor. Open
1212	12" x 12" Square Grate	Green	8	2.33	10ND	surface area 50.76 square inches. 155.28 GPM.
1212S	12" x 12" Square Grate	Sand	8	2.33	10ND	
	Use with 12" x 12" Catch Basin Series.					
	(see page 79). ADA Compliant.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87		
	(see page 79). ADA Compliant.					square inches. 131.14 GPM. Includes SS Screws.		

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	Foam Polyolefin Botanical Grate with UV inhibitor.
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	Open surface area 24.44 square inches. 74.77 GPM.
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	Class B load rated.
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	
	(see page 79). ADA Compliant. Not compatible with 1200FF					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218Cl	12" x 12" Square Botanical Cast Iron Grate	Black*	1	12.67	10ND	12" Square Cast Iron Botanical Grate. Open surface area 24.44 square
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	inches. 74.77 GPM. Class B
	*Painted for shipping & display only; grate will form iron-oxic (see page 79). ADA Compliant.	le patina				load rated.

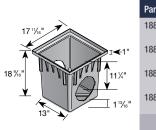
CATCH BASINS

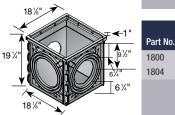
12" Catch Basin Series (continued)

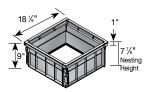
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
11 ¾"	1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural
	1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	Foam Polyolefin Wave Grate with UV inhibitor.
	1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	Open surface area 25.67
1 ½"	1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	square inches. 78.53 GPM. Class B load rated.
Sec.	839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	
%" Grate Openings		(see page 79). ADA Compliant.					
11 %"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
I and a substantial and a state	1224CI	12" x 12" Square Wave Cast Iron Grate	Black*	1	13.90	10ND	12" Square Cast Iron
	629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	Wave Grate. Open surface area 25.60 square inches.
1 %" %" Grate Openings		*Painted for shipping & display only; grate will form iron-oxide patina (see page 79). ADA Compliant/Heel-proof.					78.31 GPM. Class B load rated.
11 %"				Pkg.	Wt. Ea.	Product	
	Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
	1213	12" x 12" Square Ductile Iron Grate	Black*	1	15.30	10ND	12" Square Heavy-Duty Ductile Iron Grate. Open
1" 2 Open Slides %" Grate Openings	•••••	Use with 12" x 12" Catch Basin Series. *Painted for shipping & display only; grate will form iron-oxide patina (see page 79). ADA Compliant.					surface area 37.20 square inches. 113.80 GPM.
				Pkg.	Wt. Ea.	Product	
11 %"	Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
+/////////////////////////////////////	1215	12" x 12" Square Galvanized Steel Grate	Galvanized Steel	1	5.85	10ND	12" Square Heavy-Duty Galvanized Steel Bar Grate.
1 //" %" Grate Openings		Use with 12" x 12" Catch Basin Series. (see page 79)	Open surface area 113.78 square inches. 348.07 GPM.				
				Pkg.	Wt. Ea.	Product	
11 %"	Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
T	1220	12" x 12" Sump/Valve Box Cover	Black	8	2.23	10ND	NDS #1220, 12" Square Structural Foam Polyolefin
[★] χ ^μ		Use with NDS 12" x 12" Catch Basin Series, #1225 Sump Box and #1219 Backwater Valve Box.					Solid Cover.
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
~	1230	12" x 12" Low-Profile Adapter	Black	8 8	1.25	10ND	12" x 12" Low-Profile
12 ¼"	1230ATBLKIT	12" x 12" Low Profile Adapter with Black Atrium Grate	Black	8	n/a	10ND	Adapter. Styrene.
T		and 3" & 4" Universal Locking Outlet	Grate	-			Kits contain Low-Profile
<u>→</u> 3 ½ ⁿ → 1 ½ ⁿ	1230GRKIT	12" x 12" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Green Grate	8	n/a	10ND	Adapter, 3" & 4" Universal Locking Outlet and Grate as described.
		Adapter alone requires #1242, #1243, #1245, #1266 or #188 Sewer and Drain or Corrugated Pipes (see page 35). Kits cont			ect to 3", 4", 6	5" or 8"	
12 ½" 1 ½"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
Ť ↓	1221	12" x 12" Square, Low-Profile Adapter – Fits 8" Sewer & Drain Pipe	Black	12	1.92	10ND	12" x 12" Low-Profile Adapter. Styrene.
	1222	12" x 12" Square, Low-Profile Spigot Adapter – Fits 8" single-wall corrugated pipe, sewer and drain pipe and Schedule 40 pipe	Black	12	1.92	10ND	
		Use with NDS 12" x 12" Grates					



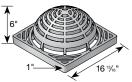
18" Catch Basin Series



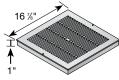




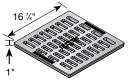
Par 181



½" Grate Openings



7/16" Grate Openings



1" Grate Openi	ngs
----------------	-----



Par 189

ırt No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
90	Universal Outlet Reducer Ring	Black	8	0.33	10ND	Styrene.
	Required on #1821 basin side when using 3", 4" or 6" p #1206, #1243, #1245, #1266 or #1889 Universal Outlet		1821 basin si	ide when coni	necting to	

art No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
382	18" One-Piece Catch Basin 2 Openings	Black	1	10.00	10ND	18"x18" One-Piece Tapered Catch Basin.
382BLKIT	18" Catch Basin Kit with Black Plastic Grate	Black Grate		21.00	10ND	Structural Foam Polyolefin.
882GRKIT	18" Catch Basin Kit with Green Plastic Grate	Green Grate	1	21.00	10ND	Kits include 2-opening Catch Basin, Grate.
384	18" One-Piece Catch Basin 4 Openings	Black	1	9.65	10ND	Screws, 6" Outlet, 8" Outlet, Reducer Rings
	Requires either #1206, #1242, #1243, #1245, #1266, #18	88 or #1889 Unive	ersal Outlet to	connect pipe	to basin.	and Plug

Includes 2 or 4 #1890 Reducer Rings

Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
18" x 18" Expandable Catch Basin 2 Openings*	Black	1	16.00	10ND	18" x 18" Modular Catch
18" x 18" Expandable Catch Basin 4 Openings*	Black	1	16.00	10ND	Basin with Locking Tabs. Stvrene.
					Styrene.

Assembly Required. #1800 includes: 2 #1822, 2 #1820, 1 #1828. #1804 includes: 4 #1822, 1 #1828. Use #1800 and #1804 with #1206, #1243, #1245, #1266 or #1888 Universal Outlets to connect pipes to basin. Includes 2 or 4 #1890 Reducer Rings. (Note: Use Silicone to seal joints.)

rt No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
16	8" Riser for 18" Catch Basin	Black	1	6.00	10ND	8" Riser for 18" x 18"
	Riser package includes 4 sides. Use with #1800, #1804, #1882 or #1884.					Catch Basin. Styrene.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1881	18" x 18" Atrium Grate	Black	2	6.51	10ND	18" Structural Foam		
1891	18" x 18" Atrium Grate	Green	2	6.51	10ND	Polyolefin Dome Atrium		
	Use with 18" x 18" Catch Basin Series.					Grate with UV inhibitor. Open surface area 89.40 square inches. 273.49 GPM.		

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1810	18" x 18" Square Grate	Gray	4	7.72	10ND	18" Square Structural		
1811	18" x 18" Square Grate	Black	4	7.72	10ND	Foam Polyolefin Grate		
1812	18" x 18" Square Grate	Green	4	7.72	10ND	with UV inhibitor. Open		
	Use with 18" x 18" Catch Basin Series. (see page 79). ADA Compliant.					surface area 86.31 square inches. 264.03 GPM.		

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications		
1813	18" x 18" Cast Iron Square Grate	Black*	1	46.00	10ND	18" Square Heavy-Duty Cast Iron Grate. Open		
	Use with 18" x 18" Catch Basin Series. *Painted for shipping & display only; grate will form iron-oxide patina							

DRAINAGE

18" Catch Basin Series (continued)

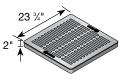
16¾" 1" Grate Openings	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
1"-	1815	18" Square Galvanized Steel Grate	Galvanized Steel	1	10.78	10ND	18" Square Heavy-Duty Galvanized Steel Bar Grate.
		Use with 18" x 18" Catch Basin Series. (see page 79)	Open surface area 239.00 square inches. 731.13 GPM.				
17%"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	1840	Frame to adapt 18" x 18" grate to concrete catch basin	Black	4	2.00	10ND	18" x 18" Frame. Styrene.
1 ¼"		Use with 18" x 18" Grates.					
17%"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
	1830	18" x 18" Low-Profile Adapter	Black	4	4.75	10ND	18" x 18" Low-Profile Adapter. Styrene.
		Includes NDS #1890 Reducer Ring. Requires either an NDS #1243, #1245, #1266 or #1888 Universal Outlet to connect to pipe.					Autor orgitalla.



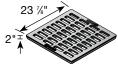
24" Catch Basin Series

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24¾	24
	24
24" 4 ³ / ₈ " 14 ¹ / ₂ "	24
✓ 1%"	24

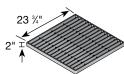




%" Grate Openings



1" Grate Openings



1 ¼" Grate Openings



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
2400	24" x 24" Catch Basin, 2 Openings	Black	1	18.00	10ND	24" x 24" One-Piece Tapered Catch Basin.			
2400BLKIT	24" Catch Basin Kit with Black Plastic Grate	Black Grate		50.00	10ND	HDPE with Structural Foam			
400GRKIT	24" Catch Basin Kit with Green Plastic Grate	Green Grate	1	50.00	10ND	Kits include 2-opening Catch Basin, Grate, 12"/10"			
2404	24" x 24" Catch Basin, 4 Openings	Black	1	15.00	10ND	Outlets, 8" Outlet, Reducer Rings and Plug			
	#2400 & #2404 Require 2 or 4 #2410 Universal Outlets								
			Pkg.	Wt. Ea.	Product				
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications			
418	24" x 24" Catch Basin Extension (No Bottom)	Black	1	14.60	10ND	8" Extension for 24" x 24" Catch Basin. HDPE with Structural Foam.			
	Use with 24" x 24" Catch Basin Series.					Structural Foam.			
			Pkg.	Wt. Ea.	Product				
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications			
2411	24" x 24" Square Grate	Black	1	19.75	10ND	24" Square HDPE with Structural Foam Grate with			
2412	24" x 24" Square Grate	Green	1	19.75	10ND	UV inhibitor. Open surface area 231.69 square inches.			
	Use with 24" x 24" Catch Basin Series. (see page 79)					708.77 GPM.			
_	(000 page 7 0)		_		_				
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
2413	24" x 24" Square Cast Iron Grate	Black*	1	147.00	10ND	24" Square Heavy-Duty			
	Use with 24" x 24" Catch Basin Series. *Painted for shipping & display only; grate will form iron-oxide (see page 79)	patina				Cast Iron Grate. Open surface area 197.00 square inches. 602.65 GPM. Structural Foam.			
	Decembertory	O other	Pkg.	Wt. Ea.	Product	0			
Part No. 2415	Description 24" x 24" Square Galvanized Steel Grate	Color Galvanized	Qty.	(lbs.) 62.88	Class 10ND	Specifications 24" Square Heavy-Duty			
.415	24 X 24 Square Galvanized Steel Grate	Steel		02.00	TOND	Galvanized Steel Bar Grate.			
	Use with 24" x 24" Catch Basin Series.					Open surface area 422.45 square inches. 1292.33 GPM. Structural Foam.			
	(see page 79)								
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
2410	10" & 12" Universal Adapter	Black	1	4.20	10ND	10"/12" Universal Adapter.			
	HDPE.								

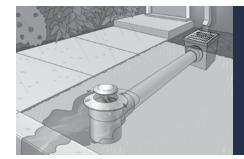
Catch Basin Universal Outlets

Universal Outlets and Adapters allow you to quickly connect to 3"-12" drain pipes to accommodate the needs of any job. They offer greater flexibility during install saving time and money.

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications		
	1242	3" & 4" Universal Outlet w/4" Internal Spigot	Black	20	0.74	10ND	3" & 4" Universal Outlet.		
3 ¾"		Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain adjusting internal basin invert heights with Sewer and Series. Internal spigot fits 4" Sewer and Drain Fittings.	Drain fitting. Use with	h 9", 12", 18"	and 24" Cato	ch Basin	Styrene.		
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications		
	1243	3" & 4" Universal Locking Outlet*	Black	20	0.60	10ND	3" & 4" Patented Universal		
2 1/4"		Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Use with 9", 12", 18" and 24" Catch Basin Series and Use with 24" Catch Basin also requires #2410 Adapter	#930, #1230, #1830			pe.	Locking Outlet. Styrene.		
		*Locking Outlet snaps on to most 3" and 4" corrugate	cking Outlet snaps on to most 3" and 4" corrugated pipe.						
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
	1245	3" & 4" Offset Universal Outlet	Black	20	0.50	10ND	3" & 4" Offset Universal		
		Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Allows for adjusting inlet height. Use with 9", 12", 18" Use with 24" Catch Basin also requires #2410 Adapter	and 24" Catch Basin		all Pipe.		Outlet. Styrene.		
A A A A A A A A A A A A A A A A A A A	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
	1266	6" Universal Locking Outlet*	Black	20	0.55	10ND	6" Universal Locking Outlet.		
		Fits 6" Sewer and Drain Pipe, 6" Corrugated Pipe. Use				nd #930,	Styrene.		
		#1230 and #1830 Low-Profile Adapters. Use with 24" *Locking Outlet snaps on to most 6" corrugated pipe.	Catch Basin also req	uires #2410 A	dapter.				
	_	Looking outer shaps on to most of confugated pipe.							
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
3"	1888	8" Universal Outlet	Black	8	1.05	10ND	8" Universal Outlet. Styrene.		
		Fits 8" Sewer and Drain Pipe, 8" Corrugated Pipe. Use Use with 24" Catch Basin also requires #2410 Adapter		tch Basin Ser	ies.				
the store	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
	1889	8" Offset Universal Adapter	Black	10	0.74	10ND	8" Offset Universal Adapter. Styrene.		
3"		Fits 8" Sewer and Drain Pipe, 8" Corrugated Pipe. Use (except 1800 and 1804).	with 12" and most 1	8" Catch Basi	n Series		Styrene.		
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications		
	2410	10" & 12" Universal Adapter	Black	1	4.20	10ND	10"/12" Universal Adapter.		
HDPE. HD							HUPE.		
00	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications		
5/8"	1206	6" Universal Adapter Plug	Black	20	0.35	10ND	Universal Plug. Styrene.		



POP-UP DRAINAGE EMITTERS

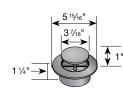


The Pop-up Drainage Emitter is an easy, safe and efficient solution that allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

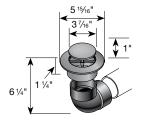
Pop-up Drainage Emitters allow water captured by grates, catch basins, channel drains, Flo-Well, EZflow, downspouts and roof gutter systems to flow through drainage pipe and away from structural foundations to safe or useful areas. For example, water can be routed from a low area next to a foundation to a water-safe area in the landscape, or a curbside drainage system where allowed. The emitter opens under minimal hydrostatic pressure from water through upstream drainage pipes; the emitter closes as flow diminishes. The special patented design allows the Emitter to open with even the smallest flows. Since the Emitter is closed during dry weather, debris and rodents cannot enter the drain pipes. Spring automatically retracts - closes and prevents damage from lawn mowers. It's flat profile blends discreetly into the surrounding landscapes.

3" & 4" Pop-up Drainage Emitter

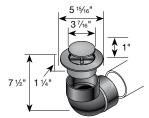
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Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
420	3" & 4" Pop-up Drainage Emitter	Green	20	0.28	10ND	3" and 4" polyolefin spring-loaded			
	Fits 3" and 4" Sewer and Drain Fittings. Ideal for discharging excess water from stormwa Spring automatically retracts.	Pop-up Drainage Emitter with UV inhibitor. 40 GPM capacity. 0.04 psi or 1" of head to raise top.							



art No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
21	Emitter with 3" Elbow	Green	25	0.60	10ND	NDS #420 polyolefin spring-loaded
	Fits 3" Sewer and Drain Pipe.		Pop-up Drainage Emitter with UV inhibitor, 3" styrene 90 degree			
	Ideal for discharging excess water from stormwar Spring automatically retracts.	elbow with 1/4" drain hole. 40 GPM. 0.04 psi or 1" of head to raise top.				



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
421	Emitter with 4" Elbow	Green	20	0.85	10ND	NDS #420 polyolefin spring-loaded
	Fits 4" Sewer and Drain Pipe. Ideal for discharging excess water from stormwar Spring automatically retracts.	Pop-up Drainage Emitter with UV inhibitor, 4" styrene 90 degree elbow with 1/4" drain hole. 40 GPM. 0.04 psi or 1" of head to raise top.				

POP-UP DRAINAGE EMITTERS

3" & 4" Pop-up Drainage Emitter (continued)

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	430	Pop-up Drainage Emitter with 3" Elbow and Universal Adapter	Green	20	1.00	10ND	NDS #420 polyolefin spring-loaded Pop-up Drainage Emitter with UV
11/4" 51/4"		Universal Adapter fits 3" and 4" corrugated pipe, 4" Sch. 40 pipe, and 3" and 4" triple wall pipe. Ideal for discharging excess water from stormwate	inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole and universal pipe adapter. 40 GPM. 0.04 psi or 1" of head to raise top.				
	1241	3" & 4" Universal Adapter w/4" Spigot	Black	20	0.70	10ND	3" & 4" Patented Universal Adapter. Styrene.
		Connects 3" & 4" Sewer and Drain Fittings with 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe a			ŀ.		Styrene.
41/2"							

6" Pop-up Drainage Emitter

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
13/4"	620	6" Pop-up Drainage Emitter	Green	15	0.61	10ND	6" polyolefin spring-loaded Pop-up
21/8"		Can be used with Flo-Well to relieve overflow.					Drainage Emitter with UV inhibitor. 88 GPM capacity. 0.04 psi or 1" of head to raise top.

⁷¹⁵ / ₁₆ " ⁵⁷ / ₁₆ " ⁵⁷ / ₁₆ " ¹ ¹	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2½" 81%16"	624	6" Pop-up Emitter with Elbow and Corrugated Pipe Adapter	Green	10	3.45	10ND	NDS #620 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor, 6" styrene 90 degree elbow with 1/4" drain hole and corrugated pipe adapter. 88 GPM. 0.04 psi or 1" of head to raise top.

Adapter fits 6" corrugated pipe.

21/8"

83/8

1

≺ 6"

Pa 62

art No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
25	6" Pop-up Emitter wih Spee-D® Basin	Green	8	2.21	10ND	NDS #620 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor and Spee-D basin. 88 GPM. 0.04 psi or 1" of head to raise top.



COMMOM DRAINAGE FITTINGS

90 Degree PVC Elbow

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P02	3" PVC 90 Degree Elbow (HUB x HUB)	White	40	0.40	30PV
4P02	4" PVC 90 Degree Elbow (HUB x HUB)	White	25	0.68	30PV
6P02	6" PVC 90 Degree Elbow (HUB x HUB)	White	12	3.00	30PV

Corrugated Adapter

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
351	3" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	50	0.10	30ST
451	4" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	25	0.20	30ST
651	6" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	12	0.25	30ST

Corrugated Internal Couplings

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	3C05	3" Corrugated Coupling	Black	60	0.07	30PE
	4C07	4" Corrugated Coupling	Black	36	0.08	30PE
Contraction of the second seco	6C07	6" Corrugated Coupling	Black	12	0.08	30PE

Corrugated End Caps

\frown	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	3C06	3" Corrugated Endcap	Black	33	0.05	30PE
	4C06	4" Corrugated Endcap	Black	30	0.06	30PE
	6C06	6" Corrugated Endcap	Black	15	0.50	30PE

Note: See Fittings section (pages 170-189) for additional fitting options.



NDS offers a variety of grates in sizes, patterns, colors and design options to fit all products and enhance any landscape.

Brass & Chrome Grates





Strong - Practical - Functional

Our solid cast brass grates are secured to a PVC collar with solid brass screws for aesthetics and reliability. The PVC collar can be solvent welded into sewer and drain fittings or pipe where permanent, anti-theft installation is desired. The grate can still be removed for easy cleanout.

- A unique mix of beauty and function
- Recommended for highly-visible entry areas in hotels, malls, office buildings, country clubs and estates
- Exceptional construction and fine finish also make these grates ideal for deck areas, walkways, swimming pools and spas

Materials & Standards

- Made with the highest-quality solid brass
- Brushed Satin and Polished Chrome finishes are protected by a clear plastic film that prevents damage to the finish during shipping and installation



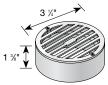
Brass & Chrome Grates

Ра 55

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12"		–
	7/ 1/4" x 7/8" Grate Opening	8
2 ^{13/16}		

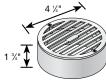
3/16" Grate Opening



3/16" Grate Opening



1/4" Grate Opening



1/4" Grate Opening



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
552B	1 ft. Brass Channel Grate	Satin Brass	12	1.21	25PF	1 foot Mini Channel Solid Brass Grate with brass
553PB	1 ft. Brass Channel Grate	Polished Brass	12	1.21	25PF	screws. Open surface area
1 A	Fits #500 and #550 Mini Channels. (see pages 50).					9.20 square inches per foot. 28.14 GPM per foot.
Λ	(see page 79). ADA Compliant/Heel-proof.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
909B 905PB	3" Round Brass Grate w/PVC Collar 3" Round Brass Grate w/PVC Collar	Satin Brass Polished Brass	20 20	0.40 0.40	15BR 15BR	3" Round Solid Brass Grate and brass screws with PVC collar. Open
Ŕ	Fits 2" SCH-40 Pipe and 3" Sewer and Drain Fitting (see page 79). ADA Compliant/Heel-proof.	S.				surface area 2.68 square inches. 8.20 GPM.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
915SC	3" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.40	15BR	3" Round Solid Chrome Grate and screws with
907PC	3" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.40	15BR	PVC collar. Open surface
Ŕ	Fits 3" Sewer and Drain Fittings and 2" SCH-40 Pipe	9.				area 2.68 square inches. 8.20 GPM.
Λ	(see page 79). ADA Compliant/Heel-proof.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
910B	4" Round Brass Grate w/PVC Collar	Satin Brass	20	0.64	15BR	4" Round Solid Brass
906PB	4" Round Brass Grate w/PVC Collar	Polished Brass	20	0.64	15BR	Grate and brass screws with PVC collar. Open
1	Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fitting	IS.				surface area 5.25 square inches. 16.06 GPM.
Λ	(see page 79). ADA Compliant/Heel-proof.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
917SC	4" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.66	15BR	4" Round Chrome Grate and screws with PVC
908PC	4" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.66	15BR	collar. Open surface area
1 in	Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fitting	JS.				5.25 square inches. 16.06 GPM.
Λ	(see page 79). ADA Compliant/Heel-proof.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
918B	6" Round Brass Grate w/Styrene Collar	Satin Brass	8	1.38	15BR	6" Round Solid Brass Grate and brass screws
919PB	6" Round Brass Grate w/Styrene Collar	Polished Brass	8	1.38	15BR	with styrene collar. Open
1	Fits Spee-D [®] Basin, 6" Sewer & Drain Fittings.					surface area 13.10 square inches. 40.07 GPM.
Λ	(see page 79). ADA Compliant.					

Brass & Chrome Grates (continued)

A 3/11				Pkg.	Wt. Ea.	Product	
	Part No.	Description	Color	Qty.	lbs.	Class	Specifications
	913B	5" Square Brass Grate w/PVC Collar	Satin Brass	10	1.21	15BR	5" Square Solid Brass Grate with brass screws
	914PB	5" Square Brass Grate w/PVC Collar	Polished Brass	10	1.21	15BR	and PVC collar. Open surface area 2.5 square
4 ½"	Ŕ	Fits 4" Sewer and Drain Fittings, 3" Sewer and Drai	in Pipe, and 3" Triple V	Vall Pipe.			inches. 7.65 GPM.
%" Grate Opening		(see page 79). ADA Compliant.					
~				Dise	Wt. Ea.	Dueduet	
	Part No.	Description	Color	Pkg. Qty.	lbs.	Product Class	Specifications
T CONTRACT	920B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.65	15BR	6" Square Solid Brass
	923PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.65	15BR	Grate with brass-colored styrene low-profile adapter
3 ^{15/6} "	ri.	Fits 3" or 4" Sewer and Drain Pipe or Fittings, 3" or	r 4" Corrugated Pipe, a	ind 3" or 4" Tr	ple Wall Pipe.		and brass screws. Open surface area 11.60 square
%" Grate Opening	Λ	(see page 79). ADA Compliant.					inches. 35.49 GPM.
o 1/⊪ →							
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
	921B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8 8	1.71	15BR	6" Square Solid Brass
	922PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.70	15BR	Grate with brass-colored styrene low-profile adapter
< <u>6</u> ¹⁵ ∕ ₁₆ [#] ►		Fits Spee-D [®] Basin, 6" Sewer and Drain Pipe & Fitti		0		TODIT	and brass screws. Open
3/8" Grate Opening	X	(see page 79). ADA Compliant.					surface area 11.60 square inches. 35.49 GPM.
2 ³ / ₄ "							
1/4" Grate Openings				Pkg.	Wt. Ea.	Product	
4 ⁷ / ₁₆ "	Part No.	Description	Color	Qty.	lbs.	Class	Specifications
	78B	4" Atrium Brass Grate	Brass	1	2.00	15BR	Open surface area 10.20 square inches. 31.20 GPM.
4 ³ / ₁₆ "		Fits 4" Sewer and Drain Pipe & Fittings.					
3 7/8"					1	1	
1/4" Grate Openings	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
5 ³ / ₄ "	90B	6" Atrium Brass Grate	Brass	1	5.30	15BR	Open surface area 22.50
		Fits 6" Sewer and Drain Pipe & Fittings.					square inches. 68.83 GPM.
7/16" Grate				Pkg.	Wt. Ea.	Product	
1 1/6" Grate Openings	Part No.	Description	Color	Qty.	lbs.	Class	Specifications
	930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00 square inches. 104.01 GPM.
		(see page 79). ADA Compliant.					Includes SS Screws.
				1	1		
11 ³ / ⁴ Grate Openings	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
1 ½"I	1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87
		(see page 79). ADA Compliant.					square inches. 131.14 GPM. Includes SS Screws.



Decorative Grates

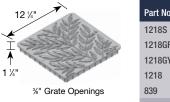
Designed to meet today's demand for products that are as beautiful as they are functional. NDS decorative grates feature consumer-tested designs and offer a range of colors and materials ideal for any application or setting.



Catch Basin Plastic & Metal Decorative Grates

Fits 12" Catch Basins. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.

Description



%" Grate Openings

%" Grate Openings

%" Grate Openings

11 ¹³/₁₆

12 1/4

11 ¹³/₁₆

< ⊥ ↑

1 1⁄8"

⊥ ↑ 1¼"

⊥ ↑ 1 %"

	Description	00101	ury.	(103.)	01033	opeomoations
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	Foam Polyolefin Botanical Grate with UV inhibitor.
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	Open surface area 24.44
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	square inches. 74.77 GPM. Class B load rated.
839	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	olass b load lated.
	Use Screw # 839, FH#6 x 1-3/4".					
•••	(see page 79). ADA Compliant.					
			Pkg.	Wt. Ea.	Product	
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
1218Cl	12" x 12" Square Botanical Cast Iron Grate	Black*	1	12.67	10ND	12" Square Cast Iron
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	Botanical Grate. Open surface area 24.44 square
	Use Screw # 629, FH#20 x 1-1/2". *Painted for shipping & display only; grate will form iron-oxid (see page 79). ADA Compliant.	de patina				inches. 74.77 GPM. Class B load rated.
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural
224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	Foam Polyolefin Wave Grate with UV inhibitor.
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	Open surface area 25.67
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	square inches. 78.53 GPM. Class B load rated.
839	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	Glass B loau rateu.
	Use Screw # 839, FH#6 x 1-3/4".					

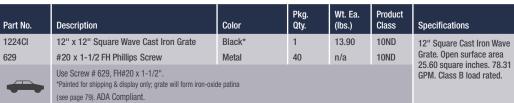
Pkg.

Otv

Wt. Ea.

Product

Specification



42

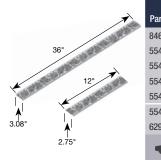
Slim Channel Plastic Decorative Grates

Excellent for light duty applications, including residential pools, concrete and paver patios, spas, walkways and paver landscapes.

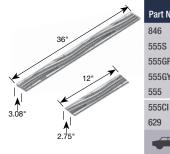
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
3'	9251	3 ft. Slim Channel Grate Square	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Square
	9252	3 ft. Slim Channel Grate Square	Sand	30 EA (90 LF)	0.36	25PF	Channel Grate with UV inhibitor. Open Surface
21/4"	9253	3 ft. Slim Channel Grate Square	Gray	30 EA (90 LF)	0.36	25PF	Area 5.73 square inches per foot. 21.44 GPM per foot.
2¼"1	9261	3 ft. Slim Channel Grate Chain	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Chain
ALC STREET	9262	3 ft. Slim Channel Grate Chain	Sand	30 EA (90 LF)	0.36	25PF	Channel Grate with UV inhibitor. Open Surface
	9263	3 ft. Slim Channel Grate Chain	Gray	30 EA (90 LF)	0.36	25PF	Area 5.73 square inches per foot. 21.44 GPM
	Ŕ	(see page 79). ADA Compliant/Heel-proof					per foot.

Mini Channel Plastic & Metal Decorative Grates

Fits 500 Series Mini Channel. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



art No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
16	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
i4S	3' Botanical Channel Grate	Sand	16	0.89		botanical pattern Channel Grate with UV inhibitor. Open surface
i4GR	3' Botanical Channel Grate	Green	16	0.89		area 5.44 square inches per
64GY	3' Botanical Channel Grate	Gray	16	0.89		foot. 16.64 GPM per foot.
54	3' Botanical Channel Grate	Black	16	0.89		1 ft. Mini Channel botanical
54CI	1' Botanical Cast Iron Channel Grate	Black*	1	1.82		Cast Iron Channel Grate. Open
9	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 5.39 square inches per foot. 16.49 GPM per foot.
	*Painted for shipping & display only; grate will form iron-oxid (see page 79). ADA Compliant.	le patina				Class B load rated.



No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
	3' Wave Channel Grate	Sand	16	0.88	25PF	wave pattern Channel Grate with UV inhibitor. Open surface
R	3' Wave Channel Grate	Green	16	0.88		area 5.73 square inches per
Y	3' Wave Channel Grate	Gray	16	0.88		foot. 17.54 GPM per foot.
	3' Wave Channel Grate	Black	16	0.88		1 ft. Mini Channel Wave Cast
I	1' Wave Cast Iron Channel Grate	Black*	1	1.30		Iron Channel Grate. Open
	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 4.11 square inches per foot. 12.56 GPM per foot.
	*Painted for shipping & display only; grate will form iron-oxid (see page 79). ADA Compliant.	e patina				Class B load rated.



Spee-D® Channel Plastic & Metal Decorative Grates

Fits Spee-D[®] Channel. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.

24"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
	829	Stainless Steel Screws, FH #8 x 1"	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin
Metal	252S	2' Channel Botanical Grate	Sand	24 ft.	1.74	25PF	decorative botanincal Channel Grate with UV inhibitor. Open
	252GR	2' Channel Botanical Grate	Green	24 ft.	1.74	25PF	surface area 7.78 square inches
4.12" 24"	252GY	2' Channel Botanical Grate	Gray	24 ft.	1.74	25PF	per foot. 23.80 GPM per foot.
	252	2' Channel Botanical Grate	Black	24 ft.	1.74	25PF	2 ft. Cast Iron decorative
	252CI	2' Cast Iron Channel Botanical Grate	Black*	1 ft.	7.06	25PF	botanincal Channel Grate. Open
Plastic	629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 8.99 square inches per foot. 27.50 GPM per foot.
4.42"		*Painted for shipping & display only; grate will form iron-oxi (see page 79). ADA Compliant.	de patina				Class B load rated.
24"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
24"	Part No. 829	Description Stainless Steel Screws, FH #8 x 1"	Color Steel				2 ft. Structural Foam Polyolefin
24" Metal		· ·		Qty.	(lbs.)	Class	2 ft. Structural Foam Polyolefin decorative wave Channel Grate
	829	Stainless Steel Screws, FH #8 x 1"	Steel	Qty. 48	(lbs.) 0.06	Class 25PF	2 ft. Structural Foam Polyolefin
	829 253S	Stainless Steel Screws, FH #8 x 1" 2' Channel Wave Grate	Steel Sand	Qty. 48 24 ft.	(lbs.) 0.06 1.84	Class 25PF 25PF	2 ft. Structural Foam Polyolefin decorative wave Channel Grate with UV inhibitor. Open surface
Metal 4.12* 24*	829 253S 253GR	Stainless Steel Screws, FH #8 x 1" 2' Channel Wave Grate 2' Channel Wave Grate	Steel Sand Green	Qty. 48 24 ft. 24 ft.	(lbs.) 0.06 1.84 1.84	Class 25PF 25PF 25PF	2 ft. Structural Foam Polyolefin decorative wave Channel Grate with UV inhibitor. Open surface area 7.78 square inches per
Metal	829 253S 253GR 253GY	Stainless Steel Screws, FH #8 x 1" 2' Channel Wave Grate 2' Channel Wave Grate 2' Channel Wave Grate	Steel Sand Green Gray	Qty. 48 24 ft. 24 ft. 24 ft. 24 ft.	(lbs.) 0.06 1.84 1.84 1.84	Class 25PF 25PF 25PF 25PF	 2 ft. Structural Foam Polyolefin decorative wave Channel Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot. 2 ft. Cast Iron decorative wave Channel Grate. Open surface
Metal 4.12* 24*	829 253S 253GR 253GY 253	Stainless Steel Screws, FH #8 x 1" 2' Channel Wave Grate 2' Channel Wave Grate 2' Channel Wave Grate 2' Channel Wave Grate	Steel Sand Green Gray Black	Qty. 48 24 ft. 24 ft. 24 ft. 24 ft. 24 ft.	(lbs.) 0.06 1.84 1.84 1.84 1.84	Class 25PF 25PF 25PF 25PF 25PF 25PF	2 ft. Structural Foam Polyolefin decorative wave Channel Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot. 2 ft. Cast Iron decorative wave

Dura Slope Metal Decorative Grates

Fits all Dura Slope channels. Available in 8 designs: Weave, Tile, Brick, Diamond, Slot, Kiaro, Via and Ville. Ductile iron material, rated Class D and ADA compliant.

24"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
3/4"	DS-601	Weave Pattern	Raw Iron	1	14.50	25DS	Decorative grates are made of ductile iron.
6"	DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	Weave: open area 6.75 square inches per foot;
	DS-603	Tile Pattern	Raw Iron	1	14.70	25DS	20.65 GPM. Diamond: open area 9.55 square inches per foot; 29.21
	DS-604	Brick Pattern	Raw Iron	1	14.30	25DS	GPM. Tile: open area 7.95 square inches per
	DS-609	Deco Slot	Raw Iron	1	14.50	25DS	foot; 24.32 GPM. Brick: open area 11.35 square
	DS-610-KIARO	Kiaro Slot	Ductile Iron	120	14.99	25DS	inches per foot; 34.725 GPM. Deco slot : open area
AH AH AH	DS-611-VIA	Via Slot	Ductile Iron	120	10.36	25DS	16.75 square inches per foot; 51.24 GPM.
the m	DS-612-VILLE	Ville Pattern	Ductile Iron	120	11.68	25DS	
		Use with Dura Slope Drains (page 72), Dura Slope O					
(ÊD)		Decorative grates are made of ductile iron. Uncoate Additional powder-coat colors available: Black (K), V Orange (O), Gray (Y), Brown (N)					
ar Ohners		MTO 6-7 week lead time.		achaire Class	D Lood Datin	~	
A CONTRACTOR		(see page 79). ADA Compliant/Heelproof. Must be use	a with DS-200H to	acheive class	D Load Ratin	iy.	

Round Grates

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
3%/16	14	3" Round Grate	Black	40	0.13	10ND	3" Round Structural Foam
	15	3" Round Grate	Gray	40	0.13	10ND	Polyolefin Grate with UV inhibitor. Open surface
	16	3" Round Grate	Green	40	0.13	10ND	area 2.60 square inches.
	16P	3" Round Grate	Purple	40	0.13	10ND	7.95 GPM.
	16S	3" Round Grate	Sand	40	0.13	10ND	
ع %₀" Grate Opening	Ŕ	Fits 3" Sewer and Drain Pipe & Fittings, (see page 79). ADA Compliant/Heel-proof	• • •	Triple Wall Pipe.			
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
4%	11	4" Round Grate	Black	25	0.17	10ND	4" Round Structural Foar
	12	4" Round Grate	Gray	25	0.17	10ND	Polyolefin Grate with UV inhibitor. Open suraface
A Parilles	13	4" Round Grate	Green	25	0.17	10ND	area 3.85 square inches.
¥ (13P	4" Round Grate	Purple	25	0.17	10ND	11.78 GPM.
< <u>315∕16</u> "	13S	4" Round Grate	Sand	25	0.17	10ND	
1/4" Grate Opening	X	Fits 4" Sewer and Drain Pipe & Fittings, (see page 79). ADA Compliant/Heel-proof	0 1 /	Triple Wall Pipe.			
	Part No.	, , ,	0 1 /	Friple Wall Pipe. Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
6 ³ / ₄	Part No. 40	(see page 79). ADA Compliant/Heel-proof		Pkg.			
~		(see page 79). ADA Compliant/Heel-proof Description	Color	Pkg. Qty.	lbs.	Class	6" Round Structural Foar Polyolefin Grate with UV
	40 50 60	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate	Color Black	Pkg. Qty. 10	lbs. 0.49	Class 10ND	6" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface
	40 50	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate	Color Black Green	Pkg. Qty. 10 10	lbs. 0.49 0.49	Class 10ND 10ND	6" Round Structural Foar Polyolefin Grate with UV
	40 50 60	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate	Color Black Green Gray Sand	Pkg. Qty. 10 10 10 10	lbs. 0.49 0.49 0.49	Class 10ND 10ND 10ND	6" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches.
	40 50 60	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate Fits Spee-D® Basin, 6" Sewer and Drain	Color Black Green Gray Sand	Pkg. Qty. 10 10 10 10	lbs. 0.49 0.49 0.49	Class 10ND 10ND 10ND	6" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches.
$6\%^{"}$ $6\%^{"}$ $6\%^{"}$ $6\%^{"}$ $5\%^{"}$ $\%^{"}$ Grate Opening	40 50 60 60S	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate Fits Spee-D® Basin, 6" Sewer and Drair (see page 79). ADA Compliant/Heel-proof	Color Black Green Gray Sand Pipe & Fittings and 6" Corru	Pkg. Oty. 10 10 10 10 10 sigated Pipe.	Ibs. 0.49 0.49 0.49 0.49 0.49 0.49 Wt. Ea.	Class 10ND 10ND 10ND 10ND	6" Round Structural Foal Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM. Specifications 8" Round Structural Foal
$6\frac{3}{4^{"}}$ $6\frac{3}{4^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$	40 50 60 60S X Part No.	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate Fits Spee-D [®] Basin, 6" Sewer and Drain (see page 79). ADA Compliant/Heel-proof Description	Color Black Green Gray Sand Pipe & Fittings and 6" Corru	Pkg. Qty. 10 10 10 10 10 10 ugated Pipe. Pkg. Qty.	Ibs. 0.49 0.49 0.49 0.49 0.49 0.49 Wt. Ea. Ibs.	Class 10ND 10ND 10ND 10ND Product Class	6" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM.
6% 6% 6% 5% % % % % % %	40 50 60 60S Č Part No. 10	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate Fits Spee-D® Basin, 6" Sewer and Drain (see page 79). ADA Compliant/Heel-proof Description 8" Round Grate	Color Black Green Gray Sand n Pipe & Fittings and 6" Corru	Pkg. Qty. 10 10 10 10 10 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Ibs. 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	Class 10ND 10ND 10ND 10ND Product Class 10ND	6" Round Structural Foal Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM. Specifications 8" Round Structural Foal Polyolefin Grate with UV inhibitor. Open surface area 11.50 square inches
6% 6% 6% 5% % % % % % %	40 50 60 60S k Part No. 10 20	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate 6" Round Grate Fits Spee-D® Basin, 6" Sewer and Drain (see page 79). ADA Compliant/Heel-proof Description 8" Round Grate 8" Round Grate	Color Black Green Gray Sand Pipe & Fittings and 6" Corru	Pkg. 10 10 10 10 10 10 10 10 vgated Pipe. Pkg. Qty. 10 10 10 10 10 10 10 10 10 10	Ibs. 0.49 0.49 0.49 0.49 0.49 0.49 0.60 0.60	Class 10ND 10ND 10ND 10ND Product Class 10ND 10ND	6" Round Structural Foal Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM. Specifications 8" Round Structural Foal Polyolefin Grate with UV inhibitor. Open surface
$6\frac{3}{4^{"}}$ $6\frac{3}{4^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $6\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$ $\frac{3}{5^{"}}$	40 50 60 60S À Part No. 10 20 30	(see page 79). ADA Compliant/Heel-proof Description 6" Round Grate Bescription 8" Round Grate 8" Round Grate 8" Round Grate 8" Round Grate 8" Round Grate	Color Black Green Gray Sand n Pipe & Fittings and 6" Corru Color Black Green Gray Sand	Pkg. Qty. 10	Ibs. 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.60 0.60 0.60	Class 10ND 10ND 10ND 10ND 10ND Class 10ND 10ND 10ND	6" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM. Specifications 8" Round Structural Foar Polyolefin Grate with UV inhibitor. Open surface area 11.50 square inches



Round Grates (continued)

*	D			Pkg.	Wt. Ea.	Product	o <i>m</i>		
9¾"	Part No.	Description	Color	Qty.	lbs.	Class	Specifications		
	1040	10" Round Grate	Black	10	1.01	10ND	10" Round Structural Foam Polyolefin Grate with		
	1050	10" Round Grate	Green	10	1.01	10ND	UV inhibitor. Open surface		
2 ³ / ₄ "	1060	10" Round Grate	Gray	10	1.01	10ND	area 21.57 square inches. 65.99 GPM.		
	1060S	10" Round Grate	Sand	10	1.01	10ND			
7¾	rin and a second	Fits 8" Sewer and Drain Pipe & Fittings, 8" Corrug	Fits 8" Sewer and Drain Pipe & Fittings, 8" Corrugated Pipe.						
5/16" Grate Opening	$\mathbf{\Lambda}$	(see page 79). ADA Compliant.							
X				Dise	14/4 5-	Dreduct			
143/16"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
	1240	12" Round Grate	Black	6	2.44	10ND	12" Round Structural		
35/8"	1250	12" Round Grate	Green	6	2.44	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface		
	1260	12" Round Grate	Gray	6	2.44	10ND	area 46.00 square inches. 140.72 GPM.		
11½"		Fits 12" Sewer and Drain Pipe, 12" Corrugated Pi	pe.				140.72 drivi.		
%" Grate Opening		(see page 79)							
,									
17" T	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
	1511	15" Round Grate	Black	6	6.89	10ND	15" Round Structural		
4½"	1512	15" Round Grate	Green	6	6.89	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface		
¥		Fits 15" Sewer and Drain Fittings, 15" Corrugated	l Pipe.				area 85.60 square inches. 261.86 GPM.		
14%" 11/4" Grate Opening		(see page 79)					201.00 GPWI.		
21"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
↓ I%"	1801SDG	18" Round Grate	Green	1	7.50	28ND	Round Polypropylene		
2½"		Fits 18" Sewer and Drain Fittings, 18" Corrugated	l Pipe, includes Lag	Bolts.			Grate. Open surface area 75.55 square inches. 231.12 GPM. Includes		
		(see page 79)					lag bolts.		

Specifications

inches. 28.76 GPM.

GRATES: STANDARD, DECORATIVE & METAL

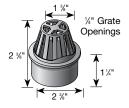
Description

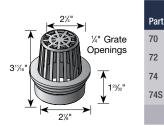
3" Atrium Grate

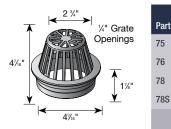
Part No.

27

Atrium Grates







3 1/8'

5 ¾"

5¾"

1/4" Grate Openings

> 2 13/16" ¥

270	2" Atrium Grate	Gray	20	0.10	10ND	Flat-Top PVC Atrium Grate
	Fits 2" Schedule 40 Fittings.					with UV inhibitor. Open surface area 4.00 square inches. 12.24 GPM.
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
70	3" Atrium Grate	Green	20	0.16	10ND	Flat-Top Structural Foam
72	3" Atrium Grate	Gray	20	0.16	10ND	Polyolefin Atrium Grate with UV inhibitor. Open

Color

Sand

Pkg. Qty.

20

Wt. Ea.

lbs.

0.16

Product

Class

10ND

Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugated Pipe, and 3" Triple Wall Pipe.

rt No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
	4" Atrium Grate	Green	20	0.21	10ND	Flat-Top Structural Foam
	4" Atrium Grate	Gray	20	0.21	10ND	Polyolefin Atrium Grate with UV inhibitor. Open
	4" Atrium Grate	Black	20	0.21	10ND	surface area 17.00 square inches. 52.01 GPM.
S	4" Atrium Grate	Sand	20	0.21	10ND	
	Eite 4" Sower and Drain Dine & Eittinge 4" Corrugat					

e	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
S	80	6" Atrium Grate	Green	10	0.62	10ND	Flat-Top Structural Foam
	81	6" Atrium Grate	Gray	10	0.62	10ND	Polyolefin Atrium Grate with UV inhibitor. Open
."	90	6" Atrium Grate	Black	10	0.62	10ND	surface area 28.40 square inches, 86.88 GPM.
ь	90S	6" Atrium Grate	Sand	10	0.62	10ND	
		Fits Spee-D [®] Basin, 6" Sewer and Drain Pipe & Fitti					



Description

4" Square Grate

4" Square Grate

4" Square Grate

Description

5" Square Grate

5" Square Grate

5" Square Grate

(see page 79). ADA Compliant/Heel-proof.

(see page 79). ADA Compliant/Heel-proof.

(see page 79). ADA Compliant/Heel-proof.

Part No.

Part No.

Т

7

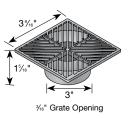
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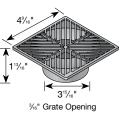
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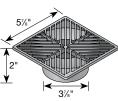
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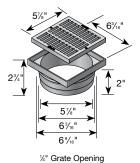
Square Grates











Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
4	6" Square Grate	Black	10	0.40	10ND	6" Square Structural Foam
5	6" Square Grate	Green	10	0.40	10ND	Polyolefin Grate with diagonally converging
6	6" Square Grate	Gray	10	0.40	10ND	pattern with UV inhibitor. Open surface area 10.40
06S	6" Square Grate	Sand	10	0.40	10ND	square inches. 31.81 GPM.
1 A						

Pkg.

Qty.

40

40

40

Pkg. Qty.

25

25

25

Color

Green

Black

Gray

Color

Green

Black

Gray

Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugated Pipe, and 3" Triple Wall Pipe.

Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugated Pipe, and 4" Triple Wall Pipe.

Wt. Ea.

lbs.

0.11

0.11

0.11

Wt. Ea.

lbs.

0.20

0.20

0.20

Product

Specifications

Specifications

4" Square Structural Foam Polyolefin Grate with

diagonally converging pattern with UV inhibitor.

Open surface area 3.45

square inches. 10.55 GPM.

5" Square Structural Foam

Polvolefin Grate with

diagonally converging

pattern with UV inhibitor.

Open surface area 4.25 square inches. 13.00 GPM.

Class

10ND

10ND

10ND

Product

Class

10ND

10ND

10ND

Pkg. Wt. Ea. Product Part No. Description Color Qty. lbs. Class Specifications 640 6" x 6" x 4" Square Grate & Adapter Black 8 0.83 10ND 6"x6" Low-Profile Adapter and Structural Foam 641 6" x 6" x 4" Square Grate & Adapter 8 0.83 10ND Green Polyolefin Removable Grate with UV inhibitor and 642 6" x 6" x 4" Square Grate & Adapter Gray 8 0.83 **10ND** stainless steel screws. Open surface area 14.44 Fits 3" or 4" Sewer and Drain Pipe & Fittings, 3" or 4" Corrugated Pipe, and 3" or 4" Triple Wall Pipe. square inches. 44.17 GPM. (see page 79). ADA Compliant/Heel-proof.

Wt. Ea. Product Pkg. Part No. Description Color Qty. Class Specifications lbs. 0.88 6" x 6" x 6" Square Grate & Adapter Black 8 10ND 6"x6" Low-Profile Adapter 637 and Structural Foam Polyolefin Removable Grate with UV inhibitor and Fits Spee-D[®] Basin, 6" Sewer and Drain Pipe & Fittings. stainless steel screws. Ŕ (see page 79). ADA Compliant/Heel-proof. Open surface area 14.44 square inches. 44.17 GPM.

DRAINAGE

1/4" Grate Opening



Square Grates (continued)

Pa 77

77 77

77

Part No

881

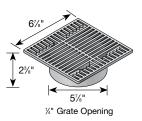
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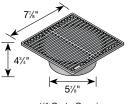
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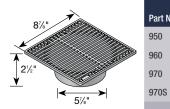


art No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
71	7" Square Grate	Black	10	0.65	10ND	7" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 13.60 square inches. 41.60 GPM.
72	7" Square Grate	Green	10	0.65	10ND	
73	7" Square Grate	Gray	10	0.65	10ND	
73S	7" Square Grate	Sand	10	0.65	10ND	
Ŕ	Fits Spee-D [®] Basin, 6" Sewer and Drain Pipe & Fittin (see page 79). ADA Compliant/Heel-proof.					



1/4" Grate Opening

No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
	8" Square Grate	Black	10	0.79	10ND	8" Square Structural Foam
	8" Square Grate	Green	10	0.79	10ND	Polyolefin Grate with UV inhibitor. Open surface
	8" Square Grate	Gray	10	0.79	10ND	area 17.16 square inches. 52.49 GPM.
	8" Square Grate	Sand	10	0.79	10ND	
	Fits Spee-D [®] Basin, 6" Sewer and Drain Pipe & Fittin					
1	(see page 79). ADA Compliant/Heel-proof.					



5/16" Grate Opening

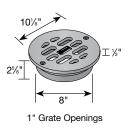
No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
	9" Square Grate	Green	10	1.11	10ND	9" Square Structural Foam
	9" Square Grate	Gray	10	1.11	10ND	Polyolefin Grate with UV inhibitor. Open surface
	9" Square Grate	Black	10	1.11	10ND	area 28.40 square inches. 86.88 GPM.
;	9" Square Grate	Sand	10	1.11	10ND	
*	Fits Spee-D [®] Basin, 6" Sewer and Drain Pipe & Fittin					

(see page 79). ADA Compliant.



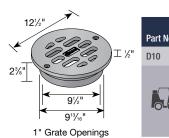
Duracast™ In-Line Grates

200	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
) I 1/1"	D6	6" Round Grate	Black*	1	7.30	10ND	6" Round Heavy-Duty Ductile Grate with Black
benings		Fits SPEE-D [®] Basin.	D6 is not a custom grate and qualifies for normal NDS freight terms. Fits SPEE-D® Basin. Painted for shipping & display only; grate will form iron-oxide patina				

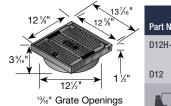


21/8"

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
D8	8" Round Grate	Black*	1	14.59	10ND	8" Round Heavy-Duty Ductile Iron Grate with			
	Fits 8" Corrugated and Sewer and Drain Pipe. D8 is not a custom grate and qualifies for normal NI "Painted for shipping & display only; grate will form iron-oxid (see page 79).					Black Paint. Open surface area 13.98 square inches. 42.77 GPM. Bolt holes for added security. H-20 load rating.			



No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
	10" Round Grate	Black*	1	20.60	10ND	10" Round Heavy-Duty Ductile Iron Grate with			
	Fits 10" Corrugated and Sewer and Drain Pipe. D10 is not a custom grate and qualifies for normal N *Painted for shipping & display only; grate will form iron-oxid (see page 79).	Ductile Iron Grate with Black Paint. Open surface area 26.82 square inches. 82.05 GPM. Bolt holes for added security. H-20 load rating.							





Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
D12H-W0	12" Square Hinged Cast Iron Grate without Adapter	Black*	1	48.00	10ND	H-20 load rating. Open surface area 48.30 square		
D12	12" Round Grate	Black*	1	16.00	10ND	inches. 147.76 GPM.		
	Fits 12" Corrugated and Sewer and Drain Pipe. *Painted for shipping & display only; grate will form iron-oxid (see page 79).	H-20 load rating. Open surface area 55.16 square inches. 169.74 GPM.						

1" Grate Openings

DRAINAGE PRODUCTS INDEX

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CHANNEL AND TRENCH DRAINS

Channel & Trench Drain Product Line-up

NDS Channel and Trench Drain Systems provide durable and proven solutions for sheet-flow drainage in applications ranging from light foot traffic to heavy vehicular traffic.



Durable

Designed for maximum durability, drainage, and performance NDS Channel and Trench Drains are a proven alternative to traditional concrete drains. UV inhibitors in the plastic grate, channel and component parts prevent fading and cracking from the sun. All plastic grate and channel components are **chemically resistant**, **rustproof**, **and maintenance-free**.

Simple

NDS Plastic Channel and Trench Drains are light weight and easy to install. Grates are removable for easy clean out and replacement. Grates may be held in place with screws or hold-down clips. A complete line of accessories is available for each Channel and Trench Drain System. Our "Profile Series" of channel drains connect like PVC pipe. Our modular "Pro Series" injection-molded channel has mechanical interlocking joints. Our "Dura Slope" Trench Drain System is injection-molded, modular, has mechanical interlocking joints and a built-in slope. All NDS Channel and Trench Drain Systems easily connect to sewer and drain pipes and fittings or Sch. 40 pipes and fittings.

Versatile

To blend with surrounding surfaces, our plastic Channel Grates are available in six colors, some with decoartive options, as well as solid brass for the Mini Channel. Cast iron and rolled steel grates are available for the Dura Slope and Pro Series Channel. A ductile iron frame is also available. NDS Channel and Trench Drains also offer a choice of outletting locations; bottom, end and side options available.

Efficient

Channel and Trench Drains eliminate the need for grading a deck surface to a low area. Instead, the deck is gradually sloped in one direction or plane, and the channel drain acts as a perimeter drain at the edge of the slope to receive sheet-flow runoff. Channel and Trench Drain Systems provide more overall open surface area than conventional area grates.

Recommended Applications

- Driveways
- Tennis Courts
- Parking Lots
- Sidewalks

- Warehouses
- Patios
- Swimming Pools & SpasSports Facilities
- Washdown Areas
- Nurseries & Greenhouses
- Running Tracks
- Manufacturing Facilities
- Loading Docks
- Plazas
- CourtyardsLandings

See capacity recommendations for channel & trench drains, pages 79 & 87.

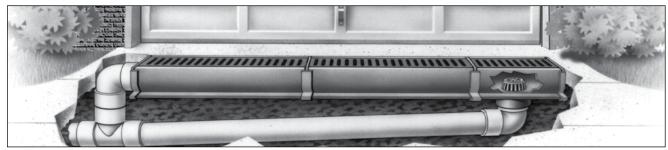


CHANNEL AND TRENCH DRAINS

Application Matrix – Choosing the Right Product

1.1	0 0										
Top Applications	S	Micro Channel™	Slim Channel	Mini Channel™	Spee-D [®] Channel	3 " Pro Series Channel [™]	5" Pro Series Channel™	8" Pro Series Channel™	12 [∎] Pro Series Channel [™]	Dura Slope™	FILCOTEN [®] by NDS [®]
	Pool Decks & Patios	•	•	•	•	•	•	•	•	•	•
	Sidewalks/Walkways	•	•	•	•	•	•	•	•	•	•
	Plaza / Courtyard		•	•	•	•	•	•	•	•	•
	Residential Driveway			•	•	•	•	•	•	•	•
	Sports Facilities						•	•	•	•	•
	Loading Dock						•	•	•	•	•
	MFG Facilities						•	•	•	•	•
	Washdown Areas						•	•	•	•	•
	Parking Lots						•	•	•	•	•
	Warehouse (hard-tire forklifts)									•	•

ł



Details

Unique patented flying buttress design provides load-bearing support from both sides as well as underneath.

Available in three sizes: Spee-D[®] for driveways, large decks and commercial areas; Mini for landscapes, pools or decks; and Micro for residential pools and spas.

Unique flanges on the bottom of the channel provide an anchoring lip for straight installation and prevents floating.

Materials and Standards

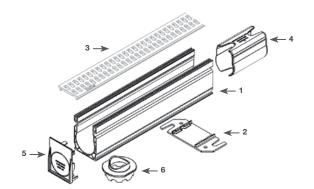
- Only channels made of PVC can be cut to any length and solvent-welded like PVC pipe.
- rates available in six colors with decorative options see individual products for details.
- Mini Channel Grate also available in solid brass.
- · Channel system offers choice of bottom, end or side outlets.
- · Concrete is not required under some channels for light vehicular applications. Standards vary per product.

Mini and Spee-D[®] Channel System Components

- 1. Channel
- 2. Grate
- 3. Coupling
- 4. End Cap or End Outlet
- 5. Channel Bottom Outlet
- 6. Sewer and Drain Fitting
- 7. Drain Pipe

Slim Channel System Components

- 1. Robust extruded PVC channel available in 6-ft and 9-ft lengths
- Anchor clips help secure the channel to a prepared base or suspend it with rebar
- Attractive grate designs enhance any landscape and have high flow capacity for superior drainage
- 4. Couplers provide a secure channel-to-channel connection
- 5. End caps have a convenient KNockout for outletting to 1.5-in SCH 40 pipe
- 6. Convenient bottom outlets can be installed anywhere along the channel for 1.5-in SCH 40 pipe connections





Micro Channel[™] Drains

Excellent performance at lowest possible cost. Designed for residential applications including swimming pools, spas and patios. Unique design features grate openings parallel to channel length and recessed grate for strength and effective runoff capture.

1 1/4" 10 3 1/4' ³/₁₆" x ⁵/₈" Grate Openings

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
8001	10' Long Micro Channel	White	100 ft.	5.00	25PF	10 ft. Micro Channel with		
8002	10' Long Micro Channel	Sand	100 ft.	5.00	25PF	Recessed Reinforced Grate Area, Parallel Drain Slots		
8003	10' Long Micro Channel	Gray	100 ft.	5.00	25PF	with UV inhibitor. Open surface area 1.00 square		
rin and a second	Includes 1 coupling.					inch per linear foot. 3.06 GPM per foot. PVC.		
X	(see page 79). ADA Compliant/Heel-proof.							

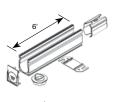
Micro Accessories

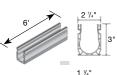
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	230	6" Channel Installation Stake	Gray	24	0.04	25PF
— 6" — - 	8301	Micro Channel 45° Elbow	White	5	0.30	25PF
3" 00000	8302	Micro Channel 45° Elbow	Sand	5	0.30	25PF
	8303	Micro Channel 45° Elbow	Gray	5	0.30	25PF
	8371	Micro Channel Tee	White	5	0.40	25PF
T	8372	Micro Channel Tee	Sand	5	0.40	25PF
2"	8373	Micro Channel Tee	Gray	5	0.40	25PF
3"	8381	Micro Channel 90° Elbow	White	5	0.40	25PF
	8382	Micro Channel 90° Elbow	Sand	5	0.40	25PF
0.00	8383	Micro Channel 90° Elbow	Gray	5	0.40	25PF
	8461	Micro 11/2" Sch. 40 Spigot End Outlet	White	10	0.10	25PF
	8462	Micro 11/2" Sch. 40 Spigot End Outlet	Sand	10	0.10	25PF
J.	8463	Micro 11/2" Sch. 40 Spigot End Outlet	Gray	10	0.10	25PF
	8471	Micro End Plug	White	20	0.05	25PF
	8472	Micro End Plug	Sand	20	0.05	25PF
	8473	Micro End Plug	Gray	20	0.05	25PF
	8481	Micro Channel Couplings only Fits inside channel	White	20	0.10	25PF
6"	8501	Micro 11/2" Sch. 40 Spigot Bottom Outlet	White	10	0.35	25PF
4 1/4"	8502	Micro 11/2" Sch. 40 Spigot Bottom Outlet	Sand	10	0.35	25PF
	8503	Micro 11/2" Sch. 40 Spigot Bottom Outlet	Gray	10	0.35	25PF
<u>AN</u>	8511	Micro 11/2" Sch. 40 Spigot Side Outlet	White	10	0.35	25PF
E S	8512	Micro 11/2" Sch. 40 Spigot Side Outlet	Sand	10	0.35	25PF
6"	8513	Micro 11/2" Sch. 40 Spigot Side Outlet	Gray	10	0.35	25PF
	8601	Micro Hold-Down Clips Use with Channel Stakes to hold channel in place	White	20	0.10	25PF
	8651	Micro Channel Cleanout	White	10	0.30	25PF
	8652	Micro Channel Cleanout	Sand	10	0.30	25PF
	8653	Micro Channel Cleanout	Gray	10	0.30	25PF

P

Slim Channel Drains

Excellent for light duty applications, including residential pools, concrete and paver patios, spas, walkways and paver landscapes.





Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
9206SKIT	6 ft. Slim Channel Kits with sand plastic grates	Sand	15 EA (90 LF)	4.2	25PF	
9206GKIT	6 ft. Slim Channel Kits with gray plastic grates	Gray	15 EA (90 LF)	4.2	25PF	
	Kits include 6 ft. channel, 2 slotted grates, 2 end caps/outlets, 2 anchor clips, 1 coupling & 1 bottom outlet					2.25" wide Channel Drain Kits & Assemblies
9209WHITE	9 ft. Slim Channel & Grate Assembly	White	10 EA (90 LF)	5.58	25PF	End & bottom outlets fit
9209SAND	9 ft. Slim Channel & Grate Assembly	Sand	10 EA (90 LF)	5.58	25PF	1-1/2" Schedule 40 pipe
9209GRAY	9 ft. Slim Channel & Grate Assembly	Gray	10 EA (90 LF)	5.58	25PF	PVC Channel with UV inhibitor
	Assemblies include 9 ft. channel and 3 slotted grates					See related
9206	6 ft. Slim Channel	Black	15 EA (90 LF)	3.00	25PF	specifications for 9241, 9242 & 9243 plastic
9209	9 ft. Slim Channel	Black	10 EA (90 LF)	4.5	25PF	slotted grates
1 A	(see page 79).					







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Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
9241	3 ft. Slim Channel Grate	White	30 EA (90 LF)	0.36	25PF	3 ft polypropylene channel grate with UV
9242	3 ft. Slim Channel Grate	Sand	30 EA (90 LF)	0.36	25PF	inhibitor. Open Surface Area 7.01 square inches
9243	3 ft. Slim Channel Grate	Gray	30 EA (90 LF)	0.36	25PF	per foot. 21.44 GPM per foot.
9251	3 ft. Slim Channel Grate Square	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Square
9252	3 ft. Slim Channel Grate Square	Sand	30 EA (90 LF)	0.36	25PF	Channel Grate with UV inhibitor. Open Surface
9253	3 ft. Slim Channel Grate Square	Gray	30 EA (90 LF)	0.36	25PF	Area 5.73 square inches per foot. 21.44 GPM per foot.
9261	3 ft. Slim Channel Grate Chain	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Chain
9262	3 ft. Slim Channel Grate Chain	Sand	30 EA (90 LF)	0.36	25PF	Channel Grate with UV inhibitor. Open Surface
9263	3 ft. Slim Channel Grate Chain	Gray	30 EA (90 LF)	0.36	25PF	Area 5.73 square inches per foot. 21.44 GPM
Ŕ	(see page 79).					per foot.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
9247	Slim Channel End Cap/Outlet	Black	20 EA	0.04	25PF	
9248	Slim Channel Coupling	Black	20 EA	0.08	25PF	End & bottom outlets fit
9250	Slim Channel Bottom Outlet	Black	10 EA	0.04	25PF	1-1/2" Schedule 40 pipe
9270	Slim Channel Anchor Clip	Black	20 EA	0.04	25PF	
9301	Slim Channel Fab 45	White	1 EA	0.29	25PF	
9302	Slim Channel Fab 45	Sand	1 EA	0.29	25PF	
9303	Slim Channel Fab 45	Gray	1 EA	0.29	25PF	
9371	Slim Channel Fab Tee	White	1 EA	0.41	25PF	
9372	Slim Channel Fab Tee	Sand	1 EA	0.41	25PF	
9373	Slim Channel Fab Tee	Gray	1 EA	0.41	25PF	
9381	Slim Channel Fab 90	White	1 EA	0.35	25PF	
9382	Slim Channel Fab 90	Sand	1 EA	0.35	25PF	
9383	Slim Channel Fab 90	Gray	1 EA	0.35	25PF	



Mini Channel[™] Drains

Excellent for light-duty applications including residential pools, concrete and paver patios, spas and tennis courts.

2 ¾"

▲ 3.08"

↓ 3.08"

0		Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
		529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam
36"		540	3' Channel Grate	White	48 ft.	0.66	25PF	Polyolefin Channel Grate with UV inhibitor. Open
		541	3' Channel Grate	Gray	48 ft.	0.66	25PF	surface area 9.90 square inches per foot. 30.29 GPM
	1/4" × 5/16"	542	3' Channel Grate	Green	48 ft.	0.66	25PF	per foot.
	Grate Openings	543	3' Channel Grate	Black	48 ft.	0.66	25PF	
	Openings	544	3' Channel Grate	Sand	48 ft.	0.66	25PF	
		551	3' Channel Grate	Brick Red	48 ft.	0.66	25PF	
			Requires 4 screws per Grate. (see page 79). ADA Compliant/Heel-proof.					
	~				Pkg.	Wt. Ea.	Product	
12" /		Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
		552B	1' Brass Channel Grate	Satin Brass	12	1.25	25PF	1 ft. Mini Channel Solid Brass
	1/4" x 7/8"	553PB	1' Brass Channel Grate	Polished Brass	12	1.25	25PF	Grate with brass screws. Open surface area 9.20
ł	Grate Openings	Ŕ	Fits #500 Mini Channel. (see page 79). ADA Compliant/Heel-proof.					square inches per foot. 28.14 GPM per foot.
				<u>.</u>	Pkg.	Wt. Ea.	Product	o ''' ''
	×	Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
	and set of the set	846	Stainless Steel Screws, FH #4 x 1"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin botanical pattern Channel Grate
36"	No. All Contractions	554S	3' Botanical Channel Grate	Sand	16	0.89	25PF	with UV inhibitor. Open surface
	4	554GR	3' Botanical Channel Grate	Green	16	0.89	25PF	area 5.44 square inches per foot. 16.64 GPM per foot.
and the	12"	554GY	3' Botanical Channel Grate	Gray	16	0.89	25PF	1 ft. Mini Channel botanical Cast
×	all the second	554	3' Botanical Channel Grate	Black	16	0.89	25PF	Iron Channel Grate. Open surface
	20	554CI	1' Botanical Cast Iron Channel Grate	Black*	1	1.82	25PF	area 5.39 square inches per foot. 16.49 GPM per foot. Class
 2 ¾"			Fits #500 Mini Channel. (see page 79). ADA Compliant. *Painted for shipping & display only; grate will form	iron-oxide patina				B load rated.
	*	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	111	846	Stainless Steel Screws, FH #4 x 1"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
36"		555S	3' Wave Channel Grate	Sand	16	0.88	25PF	wave pattern Channel Grate with
		5555GR	3' Wave Channel Grate	Green	16	0.88	25PF	UV inhibitor. Open surface area 5.73 square inches per foot.
C. C. C. C. C.	Ť	555GY	3' Wave Channel Grate		16	0.88	25PF	17.54 GPM per foot.
	12"	555	3' Wave Channel Grate	Gray Black	16	0.88	25PF	1 ft. Mini Channel Wave Cast
×		555CI	1' Wave Cast Iron Channel Grate	Black*	1	1.30	25PF	Iron Channel Grate. Open surface area 4.11 square inches per
		55501	Fits #500 Mini Channel.	DIACK	1	1.50	2311	foot. 12.56 GPM per foot. Class
2 3/4"	3 1/6"		(see page 79). ADA Compliant. *Painted for shipping & display only; grate will form	iron-oxide patina				B load rated.
5' (³ /6" Brass FLANGE Grate 3 1/6"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	3 1/2"	500	6' Mini Channel Drain	Gray	48 ft.	3.26	25PF	6 ft. PVC Mini Channel Drain
	^{1/4*} → Plastic FLANGE Grate 3 ^{1/6*}	500S	6' Mini Channel Drain	Sand	48 ft.	3.26	25PF	with inverse flying-buttress design, bottom flange, patented honeycomb reinforced walls
	FLANGE Grate		Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/8" in traffic applications	n non-traffic application	ns.			and UV inhibitor.

Grate should be recessed 1/8" below finish grade in non-traffic applications. Grate should be recessed 1/4" in traffic applications.

Mini Channel Accessories

Excellent for light duty applications, including residential pools, concrete and paver patios, spas and tennis courts.

<u>}</u>	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
6"	529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF
	230	6" Channel Installation Stake	Gray	24	0.04	25PF
2	532	Adapter Bushing for Mini Channel 2" Bottom & End Outlet to 3" S&D Fittings	White	20	0.14	30PV
	533	Adapter for Mini Channel 2" Bottom & End Outlet to 4" S&D Fittings	White	20	0.34	30PV
	546	MIni Channel End Outlet to 2" Sch. 40 Pipe Fittings	Gray	10	0.15	25PF
	546S	MIni Channel End Outlet to 2" Sch. 40 Pipe Fittings	Sand	10	0.15	25PF
	547	MIni Channel End Cap	Gray	20	0.12	25PF
	547S	MIni Channel End Cap	Sand	20	0.12	25PF
	548	Mini Channel Coupling	Gray	20	0.12	25PF
1/2"	548S	Mini Channel Coupling	Sand	20	0.12	25PF
	550	3' MIni Channel Drain with Atrium Strainer and Bottom Outlet to 2" Sch. 40 Pipe Fittings	Gray	6	2.17	25PF
1= <mark>1 %</mark> 1	5300	Fabricated 45° Elbow with Grate	Gray	1	0.40	25PF
T 6 1/8" →	5303	Fabricated 45° Elbow with Grate	Sand	1	0.40	25PF
4 7/2"	5370	Fabricated Tee with Grate	Gray	1	0.50	25PF
	5372	Fabricated Tee with Grate	Black	1	0.50	25PF
	5380	Fabricated 90° Elbow with Grate	Gray	1	0.40	25PF
	5383	Fabricated 90° Elbow with Grate	Sand	1	0.40	25PF

Profile Channel Paver Installation

NDS Profile Channel Systems and grates are dimensionally compatible with standard 2-3/8" clay and concrete paving systems. Both decorative and standard grate options make Profile Channel an ideal choice for drainage on paver pool decks, patios, plazas, courtyards and parking courts.



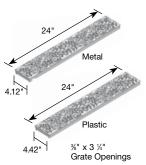


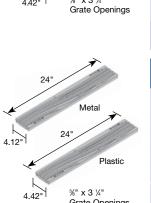
400-10MTL

Spee-D[®] Channel Drains

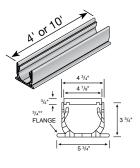
Ideal for commercial as well as residential applications. Effective in everything from patios to light vehicular traffic areas.

	ς.
2	24"
	Serve
4 ¹ / ₈ "	%" x 3 ¼" Grate Openings









rt No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
9	Stainless Steel Screws, FH #8 X 1" for Spee-D Channel Plastic Slotted Grates	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin Secured Channel
D	2' Channel Slotted Grate	White	24 ft.	1.33	25PF	Grate with UV inhibitor. Open surface area 16.76 square
1	2' Channel Slotted Grate	Gray	24 ft.	1.33	25PF	inches per foot. 51.27 GPM
2	2' Channel Slotted Grate	Green	24 ft.	1.33	25PF	per foot.
3	2' Channel Slotted Grate	Black	24 ft.	1.33	25PF	2 ft. Galvanized Steel Channel Grate. Open surface
4	2' Channel Slotted Grate	Sand	24 ft.	1.33	25PF	area 15.49 square inches per
1	2' Channel Slotted Grate	Brick Red	24 ft.	1.42	25PF	foot. 47.39 GPM per foot.
4	2' Galvanized Steel Channel Grate	Galvanized Steel	24 ft.	1.90	25PF	
	(see page 79). ADA Compliant.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 X 1-1/4" for Spee-D Channel Decorative Plastic Grates	Steel	40	0.15	25PF	2 ft. Structural Foam Polyolefin decorative botanincal Channel
252S	2' Channel Botanical Grate	Sand	24 ft.	1.74	25PF	Grate with UV inhibitor. Open surface area 7.78 square
252GR	2' Channel Botanical Grate	Green	24 ft.	1.74	25PF	inches per foot. 23.80 GPM
252GY	2' Channel Botanical Grate	Gray	24 ft.	1.74	25PF	per foot.
252	2' Channel Botanical Grate	Black	24 ft.	1.74	25PF	2 ft. Cast Iron decorative botanincal Channel Grate.
252Cl	2' Cast Iron Channel Botanical Grate	Black*	2 ft.	7.06	25PF	Open surface area 8.99 square
229	Stainless Steel Screws, FH #8 x 1" for Spee-D Channel Decorative Iron Grates	Steel	48	0.06	25PF	inches per foot. 27.50 GPM per foot. Class B load rated.
	(see page 79). ADA Compliant. *Painted for shipping & display only: grate will form	iron-oxide patina				

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 X 1-1/4" for Spee-D Channel Decorative Plastic Grates	Steel	40	0.15	25PF	2 ft. Structural Foam Polyolefin decorative wave Channel Grate
253S	2' Channel Wave Grate	Sand	24 ft.	1.84	25PF	with UV inhibitor. Open surface area 7.78 square inches per
253GR	2' Channel Wave Grate	Green	24 ft.	1.84	25PF	foot. 23.80 GPM per foot.
253GY	2' Channel Wave Grate	Gray	24 ft.	1.84	25PF	2 ft. Cast Iron decorative wave
253	2' Channel Wave Grate	Black	24 ft.	1.84	25PF	Channel Grate. Open surface area 7.41 square inches per
253CI	2' Cast Iron Channel Wave Grate	Black*	2 ft.	7.52	25PF	foot. 22.67 GPM per foot. Class
229	Stainless Steel Screws, FH #8 x 1" for Spee-D Channel Decorative Iron Grates	Steel	48	0.06	25PF	B load rated.
	(see page 79). ADA Compliant. *Painted for shipping & display only; grate will form	iron-oxide patina				
			Pkg.	Wt. Ea.	Product	
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
400	4' Spee-D Channel Drain	Gray	24 ft.	4.83	25PF	PVC Channel Drain with
400-10	10' Spee-D Channel Drain	Gray	60 ft.	11.00	25PF	Inverse Flying Buttress design, bottom flange,
400-10WH	10' Spee-D Channel Drain Assembly with pre-fastened Gray Plastic Grates	Gray	60 ft.	17.5	25PF	patented honeycomb reinforced walls and UV
400 10MTI	10 Cross D. Channel Drain Assembly	Columnized Steel	40.#	20 F	OFDE	inhibitor.

Galvanized Steel

40 ft.

20.5

25PF

Grate should be recessed 1/8" below finish grade in non-traffic applications. Grate should be recessed 1/4" below finished grade in traffic applications.

10' Spee-D Channel Drain Assembly

with pre-fastened Galvanized Steel Grates

Spee-D[®] Accessories

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
	230	6" Channel Installation Stake	Gray	24	0.04	25PF
5%" 24"	234	2' Spee-D Channel Drain with Atrium Strainer and Bottom Outlet to 3" and 4" Sewer and Drain Fittings	Gray	12	2.67	25PF
	245	Spee-D Channel Strainer Coupling	Gray	20	0.35	25PF
No.	246	Spee-D Channel End Outlet to 2" Sch. 40 Pipe Fittings	Gray	10	0.40	25PF
	247	Spee-D Channel End Cap	Gray	10	0.40	25PF
4 ½*	248	Spee-D Channel Coupling	Gray	20	0.40	25PF
7 '/e"	249	Spee-D Channel Offset End Outlet to 3" Sewer and Drain Pipe and 4" Sewer and Drain Fittings	Gray	10	0.50	25PF
Car	2301	Fabricated 45° Elbow with Grate	Gray	1	2.00	25PF
9 ³ /4" 1	2351	7" Fabricated Grate 4" Bottom Outlet with Grate	Gray	1	1.70	25PF
	2361	Fabricated Cross and Grate	Gray	1	3.00	25PF
2 ¹ / ₄ *****	2371	Fabricated Tee with Grate	Gray	1	3.00	25PF
7 %e*	2381	Fabricated 90° Elbow with Grate	Gray	1	3.00	25PF





NDS Pro Series is a lightweight channel drain system with interlocking joints and a modular design, so systems are flexible and connections are made quickly and easily.

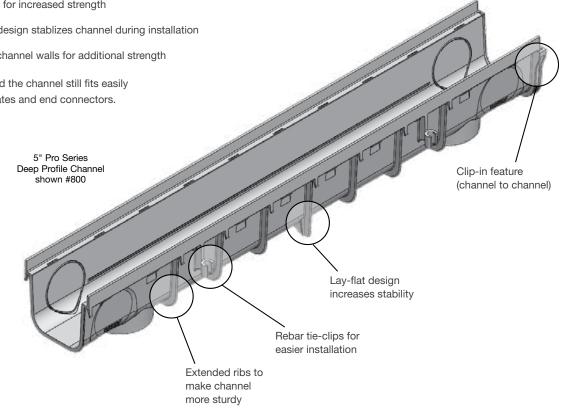
Load Rated: Up to NDS Class C with appropriate grate. For Residential and Commercial applications.

The NDS Pro Series modular design offers flexibility as each section of channel can be snapped together for longer runs or divided down to lengths as short as 4" for smaller, interlocking sections.

Lightweight parts connect easily to sewer and drain pipe and fittings or Sch 40 pipe and fittings, and side and bottom outlets can be connected anywhere along the channel run.

- Channel-to-channel clips for reduced motion during installation
- Rebar clips instead of lower mount clips for an easier install
- Side ribs for increased strength
- Lay-flat design stablizes channel during installation
- Thicker channel walls for additional strength

All this, and the channel still fits easily with all grates and end connectors.



Details

- Create a channel as long as you need, or reduce to lengths as short as 4" for smaller, interlocking sections.
- End cap/Knockout end and outlet fitting simplify assembly and installation.
- Flexible and easy: side and bottom outlets can be inserted at any location along the channel run.
- Available in four widths: 3", 5", 8" and 12"
- Available in two depths: deep for heavy flows, shallow for slabs or where little fall depth is available.
- Modular design comes in 1/2 meter (19 11/16") and 1 meter (39 3/8") pieces with interlocking end joints.
- Joints eliminate couplings and are specially designed to withstand concrete expansion and contraction.

Materials & Standards

- Polypropylene (3" & 5" channels) and polyvinyl chloride
 (8" & 12" channels) create a structurally-compact, water-tight channel.
- All parts contain UV inhibitors to prevent fading and cracking.

Load Recommendations

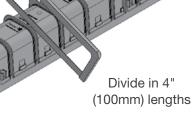
- Pedestrian Grates offer heel-proof pattern.
- Polyolefin Light Vehicular Grate for use in areas with passenger vehicles and light trucks with speeds less than 20 MPH.
- Load Star or Ductile Channel Grates for heavy-duty traffic.
- See individual products for details.

Pre-Assembled Channel Drain Systems

Our Modular Pro Series channel drains also come in pre-assembled kits to decrease installation time. They act as perimeter drains, quickly removing water from hardscapes and directing it away from building structures.

The 3" and 5" wide pre-assembled channel drain kits include a one-meter (39-3/8") channel drain and grate, end outlet, and end cap. A bottom outlet is built into each channel section. This allows for easy ordering and less inventorying, as everything is included under one part number.

Our unique Pro Series interlocking channel design allows each channel to securely lock to the next for a secure, tight fit, with no couplings required. The pre-assembled Pro Series channel drains are a great solution for your drainage needs.



NDS #764 Polypropylene

NDS #864

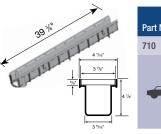
Polypropylene



PRO SERIES CHANNEL DRAINS

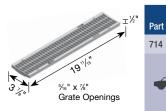
3" Pro Series Channel™ Drains

T	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
393/5	764	3" x 1 Meter Light Traffic Channel Grate & Channel Drain Kit	Light Gray	10	3.50	25IN	3" wide Light Traffic Channel Grate and
4 1/10* 5/16" X 7/2" Grate Openings		Includes 1 end outlet (#713) and 1 end cap (#712). Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications (see page 79). ADA Compliant.	non-traffic applicatior		tings.		Channel Drain with mechanical interlocking joints and UV inhibitors. Open surface area 23.63 square inches per foot. 76.85 GPM per foot.



3 5/16"

No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
	3" x 1 Meter Channel Drain*	25IN	3" wide Light Traffic			
	Bottom outlet fits 3" S&D fittings. Grate should be recessed 1/8" below finish grade in non-traffic applications. Grate should be recessed 1/4" in traffic applications.					Channel with mechanical interlocking joints and UV inhibitors. Polypropylene.
	*Produced under license of First Plast S.R.L Italy.					
	(see page 79). ADA Compliant.					



t No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
Ļ	3" x 20" Light Traffic Channel Grate*	Light Gray	24	0.70	25IN	3" wide Light Traffic
	Requires 4 #229 screws. *Produced under license of First Plast S.R.L Italy. (see page 79). ADA Compliant.					Channel Grate. Open surface area 23.63 square inches per foot. 72.29 GPM per foot. Polypropylene.

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1⅔"⊥	713	3" End Cap/End Outlet	Light Gray	12	0.10	25IN	3" Channel End Cap/End
		Fits 3" Fittings.					Outlet. Polypropylene.

_ 3 %"	Part No.	Description	Color	U		Product Class	Specifications
_	712	3" End Cap	Light Gray	20	0.05	25IN	3" Channel End Cap. Polypropylene.

T	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	229	Stainless Steel Screws FH H8 x 1"	Steel	48	0.06	25PF	

5" Pro Series Channel™ Drains

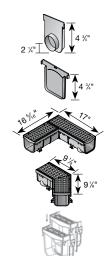
À.	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
38 ³	864	5" x 1 Meter Light Traffic Channel Kit with Light Gray Plastic Grates. Includes 1 End Outlet & 1 Cap	Light Gray	9	5.67	25IN	5" wide Light Traffic Channel Drain Kits and	
N IN IV	864DISPLAY	5" Pro Series Channel Kit with Plastic Grate Display (9 kits)	Light Gray	1 box = 9 kits	51.03	25IN	Displays. See related specifications	
	864GMTL	5" x 1 Meter Light Traffic Channel Kit with Galvanized Steel Grates. Includes 1 End Outlet & 1 Cap	Galvanized Steel	9	6.15	25IN	for 800 Channel and 814 & 824 Grates.	
%" x 1 ¼"	864GMTLDISP	5" Pro Series Channel Kit with Steel Grate Display (9 kits)	Galvanized Steel	1 box = 9 kits	55.35	25IN	Includes channel, grates, screws, end cap and end cap/outlet.	
Grate Openings	-	Grate should be recessed 1/8" below finish grade in non- Grate should be recessed 1/4" below finish grade in traffic (see page 79). ADA Compliant.		ns.			DISP includes 9 kits either light gray plastic or galvanized steel grates	
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications	
T	826	5" x 20" Pedestrian Traffic Channel Grate	Light Gray	10	1.00	25IN	5" wide UV-protected	
عاد المعاد ال معاد المعاد ال معاد المعاد ال	Ŕ	Requires #829 screws. (see page 79). ADA Compliant/Heelproof.					Structural Foam Polyolefin Pedestrian Traffic Channer Grate. Open surface area 4.86 square inches per foot. 24.26 GPM per foot.	
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
	814	5" x 20" Light Traffic Channel Grate	Light Gray	10	1.16	25IN	5" wide Structural Foam	
I34"	815	5" x 20" Light Traffic Channel Grate	Green	10	1.16	25IN	Polyolefin Light Traffic Channel Grate with UV	
	816	5" x 20" Light Traffic Channel Grate	Black	10	1.16	25IN	inhibitors. Open surface	
	817	5" x 20" Light Traffic Channel Grate	Sand	10	1.16	25IN	area 23.52 square inches per foot. 71.95 GPM	
1956	818	5" x 20" Light Traffic Channel Grate	Brick Red	10	1.16	25IN	per foot.	
3/8" x 1 1/4"	819	5" x 20" Light Traffic Channel Grate	White	10	1.16	25IN	2 ft. Galvanized Steel	
Grate Openings	824	5" x 20" Galvanized Steel Light Traffic Channel Grate	Galvanized Steel	10	1.14	25IN	Channel Grate. Open surface area 19.32 squar inches per foot. 59.1 GPN	
		Requires #829 screws. (see page 79). ADA Compliant.					per foot.	
I ¾"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
	828	5" x 20" Load Star Heavy Traffic Channel Grate	Gray	10	2.35	25IN	5" wide UV-protected high	
1918		Requires 4 screws per grate.					impact glass-reinforced nylon Heavy Traffic Channe	
%" x 1 ¼" Grate Openings		Requires #829 screws. (see page 79)					Grate. Open surface area 15.92 square inches per foot. 48.70 GPM per foot.	
1 ³ /4"				Pkg.	Wt. Ea.	Product		
The second se	Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications	
11/16	823	5" x 20" Ductile Channel Grate	Black*	1	12.30	25IN	5" wide heavy-duty Ductile	
y ⁹ ¹ ν ⁶ y ₆ " x 3 y ₆ " Grate Openings		Requires #829 screws. (see page 79). ADA Compliant. *Painted for shipping & display only; grate will form iron-oxide patina					Heavy Traffic Channel Grate. Open surface area 22.90 square inches per foot. 70.05 GPM per foot.	
T	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications	
	829	Stainless Steel Screws FH #6 x 11/4"	Steel	40	0.15	25PF	opcomound	
14	023	Stanness Steel Sciews I'T #0 X 1/4	01001	40	0.15	ZJFF		



5" Pro Series Channel™ Drains (continued)

393/6
132
5 1/2" 5 1/4"
3/4
4 1/2**

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications				
800	5" x 1 Meter Deep Profile Channel Drain	Light Gray	10	4.00	25IN	5" wide Deep Profile				
	New Integrated side outlet Knockouts fit 3" S&D pip Integrated Knockout bottom outlet fits 3" and 4" S& Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications		Channel Drain with interlocking joints, side rebar clips, integrated side and bottom outlet Knockouts. Polypropylene.							

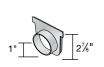


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5¾

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
813	5" Deep Profile End Cap/3" S&D Hub & 4" S&D SPT Knockout End Outlet	Light Gray	10	0.40	25IN	5" wide Deep Profile End Cap/End Outlet. PVC.	
812	5" Deep Profile End Cap	Light Gray	10	0.13	25IN	5" wide Deep Profile End Cap. PVC.	
861	5" Deep Profile Grate & Channel Drain 90° Elbow	Light Gray	1	3.44	25IN		
862	5" Deep Profile Grate & Channel Drain 45° Elbow	Light Gray	1	3.44	25IN		
PSRC-864	Quik-Turn™ 5" Deep Radius Coupling Provides a 6 degree bend left or right	Light Gray	9	0.30	25IN		

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications			
820	5" x 20" Shallow Profile Channel Drain*	Light Gray	10	1.35	25IN	5" wide Shallow Profile			
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications *Produced under license of First Plast S.R.L Italy.	UV-protected high- impact PVC Channel Drain with mechanical interlocking joint.							

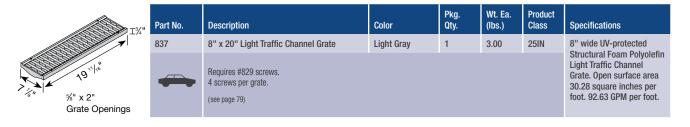


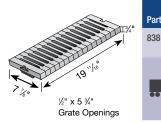
Part No.	Description				Product Class	Specifications		
821	5" Shallow Profile End Cap/1-1/2" Sch. 40 SPT Knockout End Outlet*	Light Gray	10	0.15	25IN	5" wide Shallow Profile high-impact PVC End Cap/ End Outlet.		
	End Outlet fits 1-1/2" Schedule 40 fittings. *Produced under license of First Plast S.R.L Italy.							

Pkg. Qty. Wt. Ea. (lbs.) Product Part No. Description Color Class Specifications 3 1⁄3" 5" wide Shallow Profile high-impact PVC Bottom/ Side Outlet. 822 5" Shallow Profile 3" S&D SPT Bottom Light Gray 10 0.60 25IN Outlet /1 1/2" Sch. 40 Hub Side Outlet 4¾" Side Outlets fit 1-1/2" Schedule 40 pipe Bottom Outlet fits 3" S&D fittings

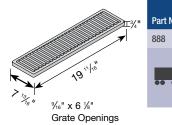
8" Pro Series Channel™ Drains

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
	836	8" x 20" Pedestrian Traffic Channel Grate	Light Gray	1	1.55	25IN	8" wide UV-protected
مرین برایش Grate Openings	Ŕ	Requires #829 screws. 4 screws per grate. (see page 79). ADA Compliant/Heelproof.					Structural Foam Polyolefin Pedestrian Traffic Channel Grate. Open surface area 13.82 square inches per foot. 42.28 GPM per foot.





t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
3	8" x 20" Load Star Heavy Traffic Channel Grate*	Light Gray	1	3.59	25IN	8" wide UV-protected high-impact glass-		
	Requires #829 screws. 4 screws per grate.	reinforced nylon Heavy Traffic Channel Grate. Open surface area 30.85 square inches per foot. 94.37 GPM per foot.						
	*Produced under license of First Plast S.R.L Italy.							
	(see page 79). ADA Compliant.							



No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
	8" x 20" Ductile Channel Grate	Black*	1	22.24	25IN	8" wide heavy-duty Ductile Heavy Traffic Channel Grate. Open surface area 23.80 square inches per foot. 71.28 GPM per foot.			
	*Painted for shipping & display only; grate will form #829 screws may be used. 4 screws per grate. (see page 79)	iron-oxide patina							

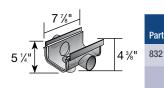
Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws FH #6 x 11/4"	Steel	40	0.15	25PF	



8" Pro Series Channel™ Drains (continued)

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
830	8" x 20" Shallow Profile Channel Drain*	Light Gray	1	2.00	25IN	8" wide Shallow Profile high-impact PVC Channel
	Grate should be recessed 1/8" below finish grade i Grate should be recessed 1/4" in traffic application *Produced under license of First Plast S.R.L Italy.		15.			Drain with mechanical interlocking joints and UV inhibitors.

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
Ш	831	8" Shallow Profile End Cap/ 3" S&D SPT Knockout End Outlet*	Light Gray	1	0.49	25IN	8" wide Shallow Profile high-impact PVC End Cap/		
			End Outlet.						
		*Produced under license of First Plast S.R.L Italy.							

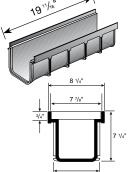


2"⊤

-4¼'

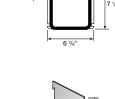
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t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
2	8" Shallow Profile 3" S&D SPT Side Outlet*	Light Gray	1	1.38	25IN	8" wide Shallow Profile high-impact PVC Bottom/			
	Bottom outlet fits 4" S&D pipe, side outlets fit 3" Se	Side Outlets with bottom adapter.							
	*Produced under license of First Plast S.R.L Italy.	auapter.							



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
333	8" x 20" Deep Profile Channel Drain	Light Gray	1	2.80	25IN	8" wide Deep Profile high-impact PVC Channel			
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications	Drain with mechanical interlocking joints and UV inhibitors.							

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
834	8" Deep Profile End Cap/3"& 4" S&D SPT Knockout End Outlet	Light Gray	10	0.51	25IN	8" wide Deep Profile high-impact PVC End		
	End Outlet fits 3" and 4" Sewer and Drain fittings					Cap/End Outlet.		
	*Produced under license of First Plast S.R.L Italy.							



2"⊥

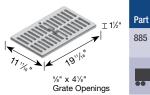
7 1/8"

12" Pro Series Channel™ Drains

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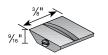
Part 849

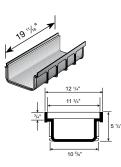
3/"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
- 74	847	12" x 20" Light Traffic Channel Grate*	Gray	1	4.64	25IN	12" wide UV-protected
		*Produced under license of First Plast S.R.L Italy. (see page 79)		high-impact PVC Light Traffic Channel Grate. Open surface area 48.77 square inches/ foot. 149.19 GPM per foot.			



%" x 4 ¾" Grate Openings

t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
j	12" x 20" Ductile Iron Heavy Traffic Channel Grate	Black*	1	29.30	25IN	12" Wide Cast Iron Heavy Traffic Channel Grate.
	*Painted for shipping & display only; grate will form (see page 79)	iron-oxide patina				Open surface area 46.70 square inches per foot. 142.86 GPM per foot.

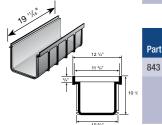




t No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	Grate Security Clip*	Gray	10	0.40	25IN	
	For use with 847 and 885 grates and 840 or 843 channels only (2 per grate). Mounts inside channel drain and secures grate. Screw and nut included.					
	*Produced under license of First Plast S.R.L Italy.					

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
340	12" x 20" Shallow Profile Channel Drain	Light Gray	1	4.00	25IN	12" wide Shallow Profile
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications	non-traffic applications. PVC Channel Drain with mechanical interlocking				UV-protected high-impact PVC Channel Drain with mechanical interlocking joints.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
841	12" Shallow Profile End Cap/End Outlet Knockout with 4" S&D Hub* Fits 4" Sewer and Drain pipe	Light Gray	1	1.00	25IN	12" wide Shallow Profile high-impact PVC End Cap/ Outlet with adapter.
	*Produced under license of First Plast S.R.L Italy.					



5½"

t No.	Description	Color	3	Wt. Ea. (lbs.)	Product Class	Specifications
;	12" x 20" Deep Profile Channel Drain*	Light Gray	1	6.00	25IN	12" wide Deep Profile
	Grate should be recessed 1/8" below finish grade in non-traffic applications. Grate should be recessed 1/4" in traffic applications.					UV-protected high- impact PVC Channel Drain with mechanical
	*Produced under license of First Plast S.R.L Italy.					interlocking joints.

10¼" 4" ⊥

Part No 844

No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	12" Deep Profile End Cap/End Outlet Knockout with 4" S&D Hub* Fits 4" Sewer and Drain pipe	Light Gray	1	1.60	25IN	12" wide Deep Profile high- impact PVC End Cap/Outlet with adapter.
	*Produced under license of First Plast S.R.L Italy.					

CHANNEL & TRENCH DRAINS

NDS

DURA SLOPETM TRENCH DRAIN – PRE-SLOPED (PATENTED)





NDS Dura Slope[™] is a high-quality quality, dependable, best-in-class trench drain system ideal for a variety of drainage solutions, including driveways, parking areas, warehouses, loading docks, pools, wash down areas and other areas for the interception and collection of surface runoff. Dura Slope[™] pre-sloped and neutral trench drain system provides a solution for residential, commercial, industrial and municipal drainage needs.

The NDS Dura Slope[™] trench drain system consists of 33 channel sections; 24 pre-sloped sections with 0.7% built in slope and 9 neutral sections. The system also has a catch basin assembly. All Dura Slope[™] channel sections are 48" long, grip #3 and #4 rebar and support 6" wide grates. Dura Slope[™] channel sections are also available in depths from 4" to 12".

The sloped channel sections enable the Dura Slope[™] system to extend to a length of 96 feet with continuous slope. The neutral channel sections can be used for non-sloped system runs or can be used in conjunction with the pre-sloped channel sections for an extended system run of 132 feet. By incorporating central collection using the catch basin assembly, the Dura Slope[™] trench drain system can be extended up to 266 feet. The ProFit[™] locking system maintains structural integrity during installation, and is a locking device and support for the grates. Each channel section ships with ProFit[™], Blank Grate Inserts and grate screws installed.

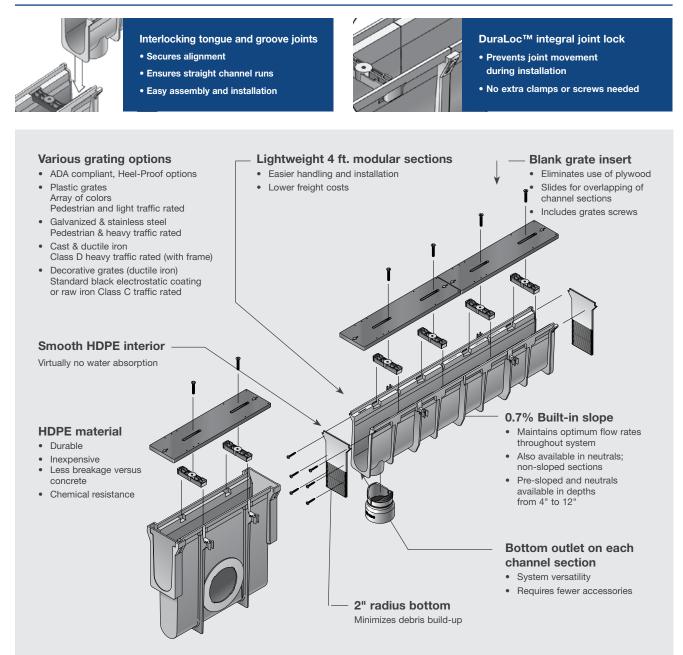
Details

- Lightweight 4 ft. modular sections
- Easier handling and installation
- Lower freight costs
- 2" radius bottom minimizes debris build-up
- Polyethylene material
- Durable and inexpensive
- Less breakage versus concrete

- High chemical resistance
- Bottom outlet on each channel section
- System versatility
- Requires fewer accessories
- 0.7% built-in slope
- Maintains optimum flow rates throughout system

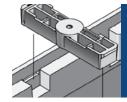
DURA SLOPETM TRENCH DRAIN – PRE-SLOPED (PATENTED)

Product Features & Benefits





LeveLoc[™] re-bar supports with integral protruding knob • Levels channel and grips re-bar • Requires fewer accessories



ProFit[™] locking system

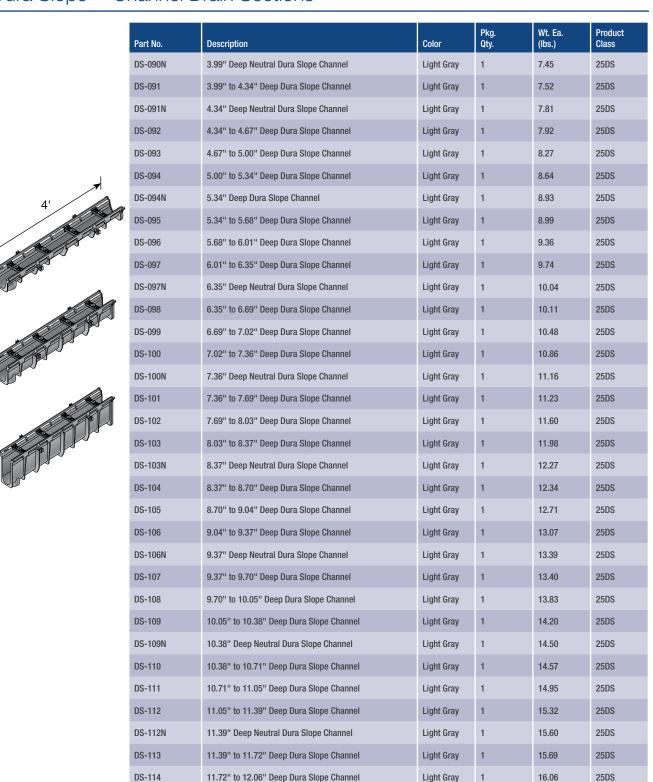
- Locks grate to integral frame
- Supports product in shipping and installation (included)



DURA SLOPETM TRENCH DRAIN - PRE-SLOPED

Dura Slope™ Channel Drain Sections

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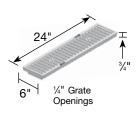


DURA SLOPE™ TRENCH DRAIN - PRE-SLOPED

Standard Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
660	2 ft. Channel Grate	White	24 ft.	2.82	25DS	2 ft. Structural Foam
661	2 ft. Channel Grate	Dark Gray	24 ft.	2.82	25DS	Polyolefin, secured Channel Grate with UV
661LG	2 ft. Channel Grate	Light Gray	24 ft.	2.82	25DS	inhibitor. Open surface area 25.40 square
662	2 ft. Channel Grate	Green	24 ft.	2.82	25DS	inches per foot. 77.70 GPM per foot.
663	2 ft. Channel Grate	Black	24 ft.	2.82	25DS	
664	2 ft. Channel Grate	Sand	24 ft.	2.82	25DS	
665	2 ft. Channel Grate	Brick Red	24 ft.	2.82	25DS	
	Use with Dura Slope Drains (page 72), Dura Slope C (see page 79). ADA Compliant.	atch Basins (page 74).				

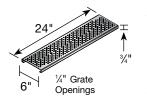


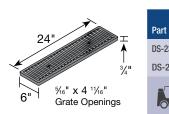
Part

DS-2

6

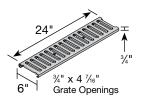
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DS-670 DS-671	2 ft. Plastic Perforated Channel Grate 2 ft. Plastic Perforated Channel Grate	Light Gray White	24 ft. 24 ft.	2.81 2.81	25DS 25DS	2 ft. Structural Foam Polyolefin, secured Channel
	Use with Dura Slope Drains (page 72), Dura Slope C (see page 79). ADA Compliant/Heelproof.			2.01	2303	Grate with UV inhibitor, light traffic rated, heelproof, ADA compliant. Open surface area 8.75 square inches per foot. 26.77 GPM per foot.





Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DS-226	2 ft. Stainless Steel Perforated Channel Grate	Steel	24 ft.	3.16	25DS	Perforated Metal Grate,
DS-228	2 ft. Galvanized Steel Perforated Channel Grate	Steel	24 ft.	3.83	25DS	pedestrian traffic rated, heelproof, ADA compliant.
Ŕ	Use with Dura Slope Drains (page 72), Dura Slope C (see page 79). ADA Compliant/Heelproof.	Catch Basins (page 74).				Open surface area 7.63 square inches per foot. 23.34 GPM per foot.

t No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
231	2 ft. Cast Iron Channel Grate	Black	1	18.90	25DS	2 ft. heavy-duty Iron
232	2 ft. Ductile Iron	Black	1	15.20	25DS	Channel Grate. Open surface area 20.85
	Use with Dura Slope Drains (page 72), Dura Slope C (see page 79). ADA Compliant. Must be used with DS-	u 0 ,		g.		square inches per foot. 63.78 GPM per foot. H-20 load rating.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DS-221	2 ft. Galvanized Steel Channel Grate	2 ft. Galvanized Rolled Stee				
	Use with Dura Slope Drains (page 72), Dura Slope C Includes bracket to attach grate to channel and scre (see page 79)					Grate. Open surface area 23.09 square inches per foot. 70.64 GPM per foot.

NDS

DURA SLOPE™ TRENCH DRAIN – PRE-SLOPED

Slot Top

1

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
DS-ST2	4 ft. Slot Top with Galvanized Steel Grate	Galvanized Steel	1	17.53	25DS
DS-ST4	2 ft. Slot Top with Galvanized Steel Grate	Galvanized Steel	1	8.86	25DS
DS-STMAINT	2 ft. Slot Top Maintenance Unit		1	14.86	25DS
17111201	48 in. Slot Top, Asymmetric, Galvanized Steel, NW 113, C 250KN, SW 15, 1218/151/133, SH 110	Galvanized Steel	40	17.53	25DS
17111202	24 in. Slot Top, Asymmetric, Galvanized Steel, NW 113, C 250KN, SW 15, 609/151/133, SH 110	Galvanized Steel	40	8.86	25DS
17111281	24 in. Maintenance Unit Galvanized Steel, NW 113, Asymmetric, SW 15 cl. C 250 KN	Galvanized Steel	40	14.86	25DS
DS-SS-ST1000	48 in. Slot Top, Asymmetric, Stainless Steel, NW 113, C 250KN, SW 15, 1218/151/133, SH 110	Stainless Steel	40	17.13	25DS
DS-SS-ST500	24 in. Slot Top, Asymmetric, Stainless Steel, NW 113, C 250KN, SW 15, 609/151/133, SH 110	Stainless Steel	40	8.86	25DS
DS-SS-STMAIN	⁻ 24 in. Maintenance Unit Stainless Steel, NW 113, Asymmetric, SW 15 cl. C 250 KN	Stainless Steel	40	14.86	25DS
13399	Opening Tool for Maintenance Unit (order 2)	N/A	1	0.02	25FC

Decorative Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications					
DS-601	Weave Pattern	Raw Iron	1	14.50	25DS	Decorative grates are					
DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	made of ductile iron. Weave: open area 6.75					
DS-603	Tile Pattern	Raw Iron	1	14.70	25DS	square inches per foot; 20.65 GPM. Diamond: open area 9.55 square inches per foot; 29.21					
DS-604	Brick Pattern	Raw Iron	1	14.30	25DS						
DS-609	Deco Slot	Raw Iron	1	14.50	25DS	GPM. Tile: open area 7.95 square inches per foot; 24.32 GPM. Brick:					
DS-610-KIARO	Kiaro Slot	Ductile Iron	120	14.99	25DS						
DS-611-VIA	Via Slot	Ductile Iron	120	10.36	25DS	open area 11.35 square inches per foot; 34.725					
DS-612-VILLE	Ville Pattern	Ductile Iron	120	11.68	25DS	GPM. Deco slot: open area					
	Use with Dura Slope Drains (page 72), Dura Slope C	16.75 square inches per foot; 51.24 GPM.									
	Decorative grates are made of ductile iron. Uncoate Additional powder-coat colors available: Black (K), Orange (O), Gray (Y), Brown (N)										
	(see page 79). ADA Compliant/Heel-proof. Must be us	ed with DS-200H to ac	chieve Class D) Load Rating							

In-Line Catch Basin

The NDS Dura Slope™ in-line catch basin is designed to fit all depth ranges of the Dura Slope™ trench drain sections. Catch basin inlets are designed to be sized as required to accept the Dura Slope™ trench drain section. The Dura Slope™ catch basin is 2 feet long and 2 feet deep with an outlet on both sides of the basin. One Universal Adapter Plug, one blank grate insert and two grate screws are included with each Dura Slope™ in-line catch basin. The NDS universal basin outlets are used to adapt the catch basin to 3", 4", 6" and 8" pipe.

24" 6 5%"	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	DS-340	Dura Slope™ In-Line Catch Basins	Light Gray	1	12.00	25DS
27"		Available for use of one or two outlets. Use #1242, #1243, #1245, #1266, #1206 or #1888 Universal Out	lets (see page 35).			

DURA SLOPE™ TRENCH DRAIN - PRE-SLOPED

Trash Bucket

Dura Slope[™] Trash Bucket is made to fit inside the Dura Slope[™] Catch Basin (part number DS-340). It has a handle for easy removal to clean leaves and debris; it requires removal of the grate. Made of zinc plated steel, it is durable to climatic conditions. The Trash Bucket is not intended for use with any of the Dura Slope[™] Channels. *Note: DS-240 Trash Bucket is not for use with the DS-200H Ductile Iron Frame.*

0"	Part No.	Description		Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
	DS-240	Dura Slope™ Trash Bucket	Steel Zinc-Plated Steel	1	5.00	25DS

Accessories

2¹/4" 3³/4"

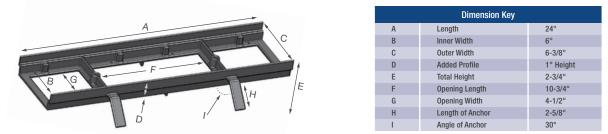
21/4"

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
DS-122	ProFit™ Grate Lock	Black	8	0.80	25DS
DS-123	Dura Slope Frame & End Cap Screws PH. #6	Steel	12		25DS
	Use on DS-229 Universal End Cap & DS-227 x 3/4". Universal End Outlet downstream for (male) end. Use to attach DS-2	200 DI Frame to Channel.			
DS-224	Universal End Cap	Gray	8	0.63	25DS
	Replaces DS-124, which will not work with DS-113 or deeper chan Slides into upstream (female) end. Requires DS-123 screws on dow				
DS-227	Universal End Outlet	Gray	6	0.75	25DS
	Replaces DS-127, which will not work with DS-113 or deeper chan Requires DS-123 screws for use on downstream (male) end. Fits to				
DS-126	Bottom Outlet Adapter	Gray	6	0.53	25DS
	Fits to 4" S&D Pipe. DS-126 not required for Sch. 40 connection.				
629	Grate Screws FH # 1/4 - 20 x 1-1/2"	Stainless Steel	40	0.70	25PF
	2 Needed per Grate. Use with Grate # DS-231, DS-232, DS-670, DS-226 and 660-665. Use to secure grates in applications without DS-200 DI Frame				
DS-225	Dura Slope™ Ductile Iron Frame Screws FH #1/4-20 x 2-1	/2" Steel	12	0.05	25DS
	Only Needed with DS-200H Frame. 2 Needed per Grate.				
DS-650	Flat Drilled Spanner End Cap Screws #6, 3/4"	Steel	12	1	25DS
	Drill bit included with each package.				

Ductile Iron Frame

Dura Slope Ductile Iron Frame provides a Class D load rating of 326-575 psi and is suitable for heavy-duty hard tire equipment at speeds less than 20 mph. The DS-200H Ductile Iron Frame is recommended for use with pneumatic tire traffic such as fork lifts. The ductile iron frame can be used with the cast and ductile iron grates. *Note:* DS-123 screws must be ordered to secure frame to the channel.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
DS-200H	Dura Slope™ Ductile Iron Frame	Black	2 ft.	7.50	25DS
	Use with Dura Slope Drains (page 72), Dura Slope Catch Basins (page 74). To be used with DS-231 or DS-232 gra New Feature: 1/4" Brass Nuts to secure channel inserted. (see page 79). ADA Compliant/Heel-proof when used with		32 grates.		



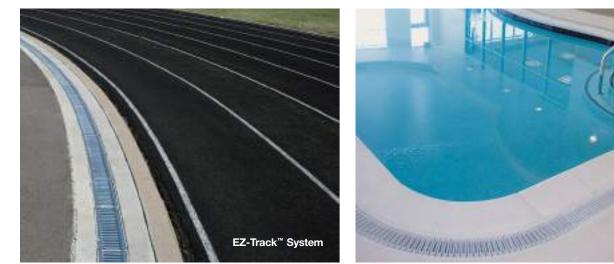


DURA SLOPE™ TRENCH DRAIN - PRE-SLOPED

Radius Coupling & Grates

Patent Pending

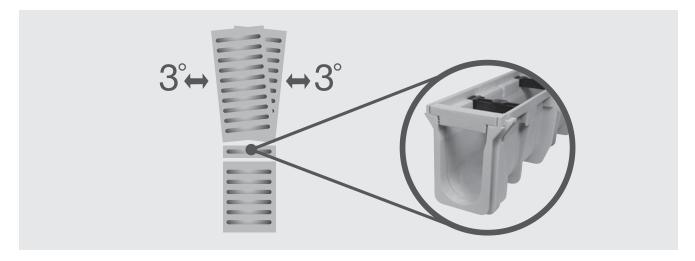
Designed specifically for draining 400-meter running tracks, Dura Slope[™] Radius Couplings allow 3 degrees of deflection between trench drain sections, making an adjustable radius easily achievable for standard tracks and other curving applications.



Details

- 80'-120' radius
- Heavy-duty HDPE trench drain
- No Special tools required components snap into place
- Four depths available
- Grate options: standard & slotted
- Flexible radius coupling (patent pending)

Radius Coupling



DURA SLOPETM TRENCH DRAIN - PRE-SLOPED

EZ-Track™ Radius Coupling & Grates

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DSRC-097	6.35" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.81	25DS	3 degree max. deflection
DSRC-100	7.36" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.82	25DS	per coupling. Minimum inside radius of 26".
DSRC-103	8.37" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.83	25DS	
DSRC-106	9.37" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.84	25DS	
DSRC	Dura Slope™ Radius Coupling	Light Gray			25DS	
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DS-660MG	1.25" Plastic Slotted Radius Coupling Grate	White	6	0.15	25DS	Structural Foam Polyolefin
DS-661MG	1.25" Plastic Slotted Radius Coupling Grate	Dark Gray	6	0.15	25DS	Radius Coupling Channel Grate with UV inhibitor.Ope
DS-661LGMG	1.25" Plastic Slotted Radius Coupling Grate	Light Gray	6	0.15	25DS	surface area 1.88 square inches per grate. 5.75 GP
DS-662MG	1.25" Plastic Slotted Radius Coupling Grate	Green	6	0.15	25DS	per grate.
DS-663MG	1.25" Plastic Slotted Radius Coupling Grate	Black	6	0.15	25DS	
DS-664MG	1.25" Plastic Slotted Radius Coupling Grate	Sand	6	0.15	25DS	
DS-665MG	1.25" Plastic Slotted Radius Coupling Grate	Brick Red	6	0.15	25DS	
	, , , , , , , , , , , , , , , , , , ,					
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-681LGMG	1.25" Plastic Standard Radius Coupling Grate (no slot)	Light Gray	6	0.16	25DS	Solid Structural Foam Polyolefin Radius Coupling Channel Grate with UV inhibitor.
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
DS-232MG	1.25" Ductile Iron Radius Coupling Grate	Black	6	0.93	25DS	Ductile Iron Radius Coupling Channel Grate. Open surface area 1.88 square inches per grate. 5.75 GPM per grate.
			Pkg.	Wt. Ea.	Product	
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
DS-226MG	1.25" Perforated Stainless Steel Radius Coupling Grate	Steel	6	0.25	25DS	Stainless Steel Radius Coupling Channel Grate. Open surface area 0.86 square inches per grate. 2.63 GPM per grate.
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
Part No. DS-221MG	1.25" Galvanized Steel Radius Coupling Grate	Steel	6	0.3 3	25DS	Galvanized Steel Coupling Channel Grate. Open surface area 1.31 square inches per grate. 4.01



DURA SLOPETM TRENCH DRAIN - PRE-SLOPED

Dura Slope™ System Profiles

CHANNEL & TRENCH DRAINS

Notral run Notral run Toy notral channel can be used in this capplealon. No notral channel can be used in this capplealon. No notral channel can be used in this capplealon. Image: Section of the sectin of the section of the section of the sectin of the se	Counter-directional fall with neutrals read or read on low of an
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LOAD RECOMMENDATION GUIDE

NDS Class A

- Loads of 1-60 psi.
- · Recommended for pedestrians, bicycles and wheelchair traffic.

NDS Class B

- Loads of 61-175 psi.
- · Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 m.p.h.

NDS Class C

- Loads of 176-325 psi.
- Recommended for heavy-duty pneumatic tire forklifts and tractor-trailers at speeds less than 20 m.p.h., H-20 rated.

NDS Class D

- Loads of 326-575 psi.
- Recommended for heavy-duty hard tire forklifts at speeds less than 20 m.p.h., H-20 rated.
- Notes: Some installations may require a concrete collar to meet load rating. Load ratings are based on encasing product in concrete. Product must be installed using NDS instructions.

Cast iron grates will oxidize over time and rust, forming an iron-oxide patina. The iron-oxide layer begins red-orange in color and ages to a deep, rich brown. This patina is tightly adhered and protects the iron beneath it from further oxidation. Iron grates with a rust patina are structurally sound and will last for decades.

Visit ndspro.com for complete installation specifications, guidelines & details.





A Heavyweight When it Comes to Features

FILCOTEN[®] by NDS[®] combines smart engineering and smart materials to provide a superior trench drain suitable for handling a high load capacity. Combining the features of a stable concrete channel with the strength, durability and environmental-friendliness of fiber-reinforced concrete, FILCOTEN[®] by NDS[®] is the ideal choice for a wide variety of sites and applications.

Applications

Because FILCOTEN[®] by NDS[®] can handle a high load capacity, it is especially suitable for installation in industrial areas such as factories, garages and parking lots. With its sleek design it can easily be used in public places like railway stations, and pedestrian or residential areas.reinforced concrete, FILCOTEN[®] by NDS[®] is the ideal choice for a wide variety of sites and applications.

Product Features & Benefits

- · Temperature, frost and UV resistant. Less contraction and expansion and longer product life.
- · Product impact stability. Less susceptible to cracking and breaking during transport and installation.

Vertical outlet

Every channel

vertical outlet

body has a

possibility

on every channel.

- 100% recyclable/0% harmful substances. Sustainable solution without VOCs or heavy-metal residue that can leach into the ground. Qualifies for LEED credits.
- Non-flammable. Manufactured without resins, FILCOTEN® is rated A1, non-combustible.
- Monolithic adhesion. Free from de-molding agents, FILCOTEN® bonds securely with the surrounding concrete.

Fast and secure fix-connection snap-on-anchoring system. — The intelligent fix-connection uses an amazingly simple four-point, quick-release, integral design to securely hold the grate in place.

Engineered channel interior. The particularly smooth inner surface of FILCOTEN® by NDS® channels achieves the best possible flow characteristics and self-cleaning effect. Engineered for stability. Four antisliding lugs secure the grate against any longitudinal shifting and provides additional safety.

Designed with security in mind. Anti-vandal locking devices are available to ensure grates are only removed by authorized personnel. Four locking devices per channel section are recommended.

Sealant groove. Sealant groove for waterproof installation.

Engineered

channel exterior. The anchoring ribs have been specially designed to support the channel and increase the exposed surface area, providing far better adhesion to the surrounding concrete.

Galvanized steel rails.

The special design of the galvanized steel rails allows for secure grate locking with the fix-connection selflocking system.

4" FILCOTEN® TEC V 100 Trench Drain

Tech V 100 Galvanized Steel Trench Drain	Part No.	Description	Material	Carton Qty.	Weight Ea. (Ibs.)	Length Ea. (in.)	Product Class
	10410200	FILCOTEN Tec V 100 Channel 0 without slope	Galvanized Rail	30	28.88	39.37	25FC
	10410201	FILCOTEN Tec V 100 Channel 1 with .5% slope	Galvanized Rail	24	29.32	39.37	25FC
	10410202	FILCOTEN Tec V 100 Channel 2 with .5% slope	Galvanized Rail	24	30.20	39.37	25FC
	10410203	FILCOTEN Tec V 100 Channel 3 with .5% slope	Galvanized Rail	24	30.86	39.37	25FC
	10410204	FILCOTEN Tec V 100 Channel 4 with .5% slope	Galvanized Rail	24	31.75	39.37	25FC
<u>★ 5.11"</u>	10410205	FILCOTEN Tec V 100 Channel 5 with .5% slope	Galvanized Rail	24	32.63	39.37	25FC
1.59" 3.93" .59" ** **	10410206	FILCOTEN Tec V 100 Channel 6 with .5% slope	Galvanized Rail	24	33.51	39.37	25FC
	10410207	FILCOTEN Tec V 100 Channel 7 with .5% slope	Galvanized Rail	24	34.29	39.37	25FC
	10410208	FILCOTEN Tec V 100 Channel 8 with .5% slope	Galvanized Rail	24	35.05	39.37	25FC
5.31"-7.28"	10410209	FILCOTEN Tec V 100 Channel 9 with .5% slope	Galvanized Rail	24	35.94	39.37	25FC
	10410210	FILCOTEN Tec V 100 Channel 10 with .5% slope	Galvanized Rail	24	36.82	39.37	25FC
ب 4.84" <u>ا</u>	10410261	FILCOTEN Tec V 100 Channel 5-0 without slope	Galvanized Rail	24	33.07	39.37	25FC
* *	10410262	FILCOTEN Tec V 100 Channel 10-0 without slope	Galvanized Rail	24	37.26	39.37	25FC
	10410211	FILCOTEN Tec V NW 100 No. 11, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	29.54	39.37	25FC
	10410212	FILCOTEN Tec V NW 100 No. 12, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	31.09	39.37	25FC
	10410213	FILCOTEN Tec V NW 100 No. 13, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	32.63	39.37	25FC
	10410214	FILCOTEN Tec V NW 100 No. 14, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	33.95	39.37	25FC
	10410215	FILCOTEN Tec V NW 100 No. 15, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	35.05	39.37	25FC
	10410216	FILCOTEN Tec V NW 100 No. 16, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	36.16	39.37	25FC
	10410217	FILCOTEN Tec V NW 100 No. 17, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	37.04	39.37	25FC
	10410218	FILCOTEN Tec V NW 100 No. 18, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	38.36	39.37	25FC
	10410219	FILCOTEN Tec V NW 100 No. 19, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	39.68	39.37	25FC
	10410220	FILCOTEN Tec V NW 100 No. 20, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	15	40.79	39.37	25FC
	10410264	FILCOTEN Tec V NW 100 No. 20-0, with Galvanized Steel Edge, without slope	Galvanized Rail	15	41.23	39.37	25FC

MTO: 6-7 week lead time



8" FILCOTEN® PRO V 200 Trench Drain

o 200 Galvanized Steel ench Drain	Part No.	Description	Material	Carton Qty.	Weight Ea. (lbs.)	Length Ea. (in.)	Product Class
	10620200	FILCOTEN Pro V 200 Channel 0 without slope	Galvanized Rail	9	97.00	39.37	25FC
	10620201	FILCOTEN Pro V 200 Channel 1 with .5% slope	Galvanized Rail	6	98.11	39.37	25FC
	10620202	FILCOTEN Pro V 200 Channel 2 with .5% slope	Galvanized Rail	6	100.31	39.37	25FC
	10620203	FILCOTEN Pro V 200 Channel 3 with .5% slope	Galvanized Rail	6	102.51	39.37	25FC
	10620204	FILCOTEN Pro V 200 Channel 4 with .5% slope	Galvanized Rail	6	104.72	39.37	25FC
	10620205	FILCOTEN Pro V 200 Channel 5 with .5% slope	Galvanized Rail	6	106.92	39.37	25FC
	10620206	FILCOTEN Pro V 200 Channel 6 with .5% slope	Galvanized Rail	6	109.13	39.37	25FC
9.37"	10620207	FILCOTEN Pro V 200 Channel 7 with .5% slope	Galvanized Rail	6	111.33	39.37	25FC
0.35" 7.87" 0.35"	10620208	FILCOTEN Pro V 200 Channel 8 with .5% slope	Galvanized Rail	6	113.54	39.37	25FC
	10620209	FILCOTEN Pro V 200 Channel 9 with .5% slope	Galvanized Rail	6	115.74	39.37	25FC
12.40"	10620210	FILCOTEN Pro V 200 Channel 10 with .5% slope	Galvanized Rail	6	117.95	39.37	25FC
10-42	10620261	FILCOTEN Pro V 200 Channel 5-0 without slope	Galvanized Rail	6	108.30	39.37	25FC
	10620262	FILCOTEN Pro V 200 Channel 10-0 without slope	Galvanized Rail	6	118.83	39.37	25FC
8.74	10620264	FILCOTEN Pro V 200 Channel 20-0 without slope	Galvanized Rail	6	138.23	39.37	25FC
••	10620290	FILCOTEN Pro V 200 Sump	Galvanized Rail	6	105.82	19.69	25FC
	10620211	FILCOTEN Pro V NW 200 No. 11, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	199.42	39.37	25FC
	10620212	FILCOTEN Pro V NW 200 No. 12, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	203.51	39.37	25FC
	10620213	FILCOTEN Pro V NW 200 No. 13, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	207.59	39.37	25FC
	10620214	FILCOTEN Pro V NW 200 No. 14, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	211.68	39.37	25FC
	10620215	FILCOTEN Pro V NW 200 No. 15, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	215.77	39.37	25FC
	10620216	FILCOTEN Pro V NW 200 No. 16, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	219.86	39.37	25FC
	10620217	FILCOTEN Pro V NW 200 No. 17, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	223.95	39.37	25FC
	10620218	FILCOTEN Pro V NW 200 No. 18, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	228.03	39.37	25FC
	10620219	FILCOTEN Pro V NW 200 No. 19, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	232.12	39.37	25FC
	10620220	FILCOTEN Pro V NW 200 No. 20, with Galvanized Steel Edge, 0,5% slope	Galvanized Rail	6	236.21	39.37	25FC

12" FILCOTEN® PRO V 300 Trench Drain

Pro V 300 Galvanized Steel Length Carton Weight Product Trench Drain Material Ea. (lbs.) Part No. Description Otv. Ea. (in.) Class 168.21 10630201 FILCOTEN Pro V 300 Channel 1 with .5" slope Galvanized Rail 6 39.37 25FC FILCOTEN Pro V 300 Channel 2 with .5" slope Galvanized Rail 171.08 25FC 10630202 6 39.37 FILCOTEN Pro V 300 Channel 3 with .5" slope Galvanized Rail 25FC 10630203 6 173.94 39.37 10630204 FILCOTEN Pro V 300 Channel 4 with .5" slope Galvanized Rail 6 176.81 39.37 25FC 10630205 FILCOTEN Pro V 300 Channel 5 with .5" slope Galvanized Rail 6 179.67 39.37 25FC 10630206 FILCOTEN Pro V 300 Channel 6 with .5" slope Galvanized Rail 6 182.54 39.37 25FC 10630207 FILCOTEN Pro V 300 Channel 7 with .5" slope Galvanized Rail 25FC 6 185.41 39.37 10630208 FILCOTEN Pro V 300 Channel 8 with .5" slope Galvanized Rail 6 188.27 39.37 25FC 10630209 FILCOTEN Pro V 300 Channel 9 with .5" slope Galvanized Rail 6 191.14 39.37 25FC 10630210 FILCOTEN Pro V 300 Channel 10 with .5" slope Galvanized Rail 6 194.00 39.37 25FC 10630200 FILCOTEN Pro V 300 Channel 0 without slope Galvanized Rail 166.67 25FC 6 39.37 10630261 FILCOTEN Pro V 300 Channel 5-0 without slope Galvanized Rail 6 181.00 39.37 25FC 10630262 FILCOTEN Pro V 300 Channel 10-0 without slope Galvanized Rail 195.33 39.37 25FC 6 10630264 FILCOTEN Pro V 300 Channel 20-0 without slope Galvanized Rail 6 240.30 39.37 25FC Galvanized Rail 25FC 10630290 FILCOTEN Crate Basin 2 273.37 10630211 FILCOTEN Pro V NW 300 No. 11, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 6 199.42 39.37 25FC 10630212 FILCOTEN Pro V NW 300 No. 12, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 203.51 25FC 6 39.37 10630213 FILCOTEN Pro V NW 300 No. 13, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 6 207.59 39.37 25FC FILCOTEN Pro V NW 300 No. 14, with Galvanized Steel Edge, with 0.5% slope 6 25FC 10630214 Galvanized Rail 211.68 39.37 10630215 FILCOTEN Pro V NW 300 No. 15, with Galvanized Steel Edge, with 0.5% slope Galvanized Rail 6 215.77 39.37 25FC 10630216 FILCOTEN Pro V NW 300 No. 16, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 6 219.86 39.37 25FC 10630217 FILCOTEN Pro V NW 300 No. 17, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 223.95 39.37 25FC 6 FILCOTEN Pro V NW 300 No. 18, with Galvanized Steel Edge, with 0,5% slope 10630218 Galvanized Rail 6 228.03 39.37 25FC 10630219 FILCOTEN Pro V NW 300 No. 19, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 6 232.12 39.37 25FC 10630220 FILCOTEN Pro V NW 300 No. 20, with Galvanized Steel Edge, with 0,5% slope Galvanized Rail 6 236.21 39.37 25FC

FILCOTEN® TEC V 100 Grates

		Part No.	Description	Material	Carton Qty.	Weight Ea. (lbs.)	Length Ea. (in.)	Product Class
		17010105	FILCOTEN 100 DI Slotted Grate Class E 19.69 in	Ductile Iron	160	8.38	19.69	25FC
	Galvanized Steel Perforated Grate	17010106	FILCOTEN 100 DI Bar Grate ADA/Heelproof Class C 19.69 in	Ductile Iron	240	7.94	19.69	25FC
400	2	17010110	FILCOTEN 100 DI Bar Grate Class D 19.69 in	Ductile Iron	240	7.50	19.69	25FC
	Galvanized Steel Mesh Grate	17010202	FILCOTEN 100 G Slotted Grate Class A 39.37 in	Galvanized Steel	240	3.31	39.37	25FC
aller,	2	17010203	FILCOTEN 100 G Slotted Grate Class A 19.69 in	Galvanized Steel	120	1.76	19.69	25FC
	Galvanized Steel Slotted Grate	17010204	FILCOTEN 100 G Perforated Grate Class A 39.37 in	Galvanized Steel	120	4.19	39.37	25FC
	>	17010205	FILCOTEN 100 G Perforated Grate Class A 19.69 in	Galvanized Steel	120	2.20	19.69	25FC
	Polyamide Composite Honeycomb Grate	17010206	FILCOTEN 100 G Slotted Grate Class C 39.37 in	Galvanized Steel	240	9.92	39.37	25FC
		17010207	FILCOTEN 100 G Slotted Grate Class C 19.69 in	Galvanized Steel	120	4.85	19.69	25FC
hand	Ductile Iron Reinforced Bar Grate	17010220	FILCOTEN 100 G Mesh Grate Class B 39.37 in	Galvanized Steel	120	6.17	39.37	25FC
	Reinforced Bar Grate	17010221	FILCOTEN 100 G Mesh Grate Class B 19.69 in	Galvanized Steel	80	3.09	19.69	25FC
	T	17010222	FILCTOEN Tec Mesh Grating 1000/122/20,MW 30/10	Galvanized Steel	120	7.28	30.40	25FC
	Galvanized Steel Asymmetrical Slot	17010223	FILCOTEN Tec Mesh Grating 500/122/20, MW 30/10	Galvanized Steel	48	3.52	19.70	25FC
	Top Grate	17010228	FILCOTEN 100 G Perforated Grate Class C 39.37 in	Galvanized Steel	120	7.28	39.37	25FC
		17010229	FILCOTEN 100 G Perforated Grate Class C 19.69 in	Galvanized Steel	120	3.75	19.69	25FC
		17010402	FILCOTEN 100 P Honeycomb Grate Class C 19.69 in	Plastic	160	2.43	19.69	25FC
	Plastic Combee Design Grating	17010401	Combee Design Grating (Plastic) NW 100, 500/123/20, Class B 125 KN, With Fix-Locking-System	Plastic	160	2.43	19.69	25DS
C Maria	Ductile Iron Ville Slotted Grate	17010180	Ductile Iron Design Grate "Ville" NW 100, 500/122/25, Class E 600 KN (Tec, Pro)", Slot Width Maximum 8Mm	Ductile Iron	240	11.46	19.69	25DS
Caller -	DUCTILE IRON	17010183	Ductile Iron Design Grate "Kiaro" NW 100, 500/122/20, Class D 400 KN (Tec, Pro), Slot/Mesh Width 100X5.7mm	Ductile Iron	240	9.48	19.69	25DS
	Kiaro Slotted Grate	17010184	Ductile Iron Design Grate "Via" NW 100, 500/122/20, Class D 400 KN (Tec, Pro), Slot/Mesh Width 29X6mm	Ductile Iron	240	9.25	19.69	25DS
	Ductile Iron Via Slotted Grate	17111204	Slot Top Galvanized Steel NW100, asymmetric, SW 2 X 6 Mm, Class C 250 KN, 1000/123/133 Sh 110	Galvanized Steel	36	11.8	19.69	25FC
		17111205	Slot Top Galvanized Steel NW100, asymmetric, SW 2 x 6 mm, Class C 250 KN, 500/123/133 SH 110	Galvanized Steel	24	5.98	19.69	25FC
		17111304	Slot Top Stainless Steel NW100, asymmetric, SW 2 x 6 mm, Class C 250 KN, 1000/123/133 SH 110	Stainless Steel	36	11.8	19.69	25FC
		17111305	Slot Top Stainless Steel NW100, asymmetric, SW 2 x 6 mm, Class C 250 KN, 500/123/133 SH 110	Stainless Steel	24	5.98	19.69	25FC
		17111206	Maintenance unit Slot Top Galvanized Steel NW100, asymmetric, SW 2 x 6 mm, cl. C 250 KN	Galvanized Steel		11.02		25FC
		17111306	Maintenance unit Slot Top Stainless Steel NW100, asymmetric, SW 2 x 6 mm, cl. C 250 KN	Stainless Steel		11.02		25FC

See load recommendation guide page 87



FILCOTEN® PRO V 200 GRATES

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	Part No.	Description	Material	Carton Qty.	Weight Ea. (lbs.)	Length Ea. (in.)	Product Class
Galvanized Steel Perforated Grate	17020104	FILCOTEN 200 DI Bar Grate Class D 19.69 in	Ductile Iron	98	16.53	19.69	25FC
	17020105	FILCOTEN 200DI Bar Grate Class E 19.69 in	Ductile Iron	98	18.96	19.69	25FC
Ductile Iron Longitudinal Bar Grate	17020228	FILCOTEN 200 G Perforated Grate Class C 39.27 in	Galvanized Steel	60	29.76	39.37	25FC
DUCTILE IRON	17020229	FILCOTEN 200 G Perforated Grate Class C 19.69 in	Galvanized Steel	28	14.77	19.69	25FC
Slotted Grate Ductile Iron Ville Slotted Grate	17020180	Ductile Iron Design Grate ""Ville"" NW 200, 500/222/25, Class E 600 KN (Tec, Pro)", Slot Width Maximum 8mm	Ductile Iron	98	23.81	19.69	25DS
Ductile Iron Kiaro Slotted Grate	17020183	Ductile Iron Design Grate "Kiaro" NW 200, 500/222/20, Class D 400 KN, (Tec, Pro), Slot/Mesh Width 200X5.7mm	Ductile Iron	98	20.72	19.69	25DS
Ductile Iron Via Slotted Grate	17020184	Ductile Iron Design Grate "Via" NW 200, 500/222/20, Class D 400 KN, (Pro), Slot/Mesh Width 29X6mm	Ductile Iron	98	18.52	19.69	25DS

See load recommendation guide page 87

FILCOTEN® PRO V 300 GRATES

	î >	Part No.	Description	Material	Carton Qty.	Weight Ea. (lbs.)	Length Ea. (in.)	Product Class
	Galvanized Steel Mesh Grate	17030103	FILCOTEN 300 DI Bar Grate Class E 19.69 in	Ductile Iron	30	39.46	19.69	25FC
	l N		32110 Bolt for Ductile Grate (Order 4 Per 1/2 meter Grate)					
		17030222	FILCOTEN 300 G Mesh Grate Class C 39.37 in	Galvanized Steel	30	50.93	39.37	25FC
	Ductile Iron Boltmax Grate		32112 Bolt for Galvanized Mesh Grate (Order 4 Per Grate)					
		17030223	Filcoten 300 G Mesh Grate Class C 19.69 In	Galvanized Steel	30	25.57	19.69	25FC
ALC PLEA	Ductile Iron Ville Slotted Grate	17030180	Ductile Iron Design Grate ""Ville"" NW 300, 500/347/25, Class E 600 KN (Pro) 4 Point Bolting-Device,", Slot Width Maximum 8mm, Order Bolting Material Separately	Ductile Iron	30	44.09	19.69	25DS
(950 (950	Ductile Iron Kiaro Slotted Grate	17030183	Ductile Iron Design Grate "Kiaro" NW 300, 500/347/25, Class D 400 KN, (Pro) 4 Point Bolting-Device, Slot/Mesh Width 300X5.7mm, Order Bolting Material Separately	Ductile Iron	30	44.09	19.69	25DS
	Ductile Iron Via Slotted Grate	17030184	Ductile Iron Design Grate "Via" NW 300, 500/347/25, Class D 400 KN, (Pro) 4 Point Bolting-Device, Slot/Mesh Width 29X6mm, Order Bolting Material Separately	Ductile Iron	30	38.58	19.69	25DS

See load recommendation guide page 87

FILCOTEN® TEC V 100 Accessories

FILCOTEN Tec Sump Unit 100	Part No.	Description	Material	Weight Ea. (Ibs.)	Product Class
5	19011204	FILCOTEN No Hub Bottom Outlet	Galvanized Steel	0.66	25FC
	22515	FILCOTEN 100 Silt Bucket for Sump	Plastic	0.44	25FC
C	32087	FILCOTEN 100 Anti-Vandalism Locking Device	Stainless Steel	0.22	25FC
500 IS 100 IS	19011204	FILCOTEN 100 Bottom Outlet	Galvanized Steel	0.66	25FC
	19010230	FILCOTEN 100 Closed End Cap	Galvanized Steel	0.66	25FC
	19010231	FILCOTEN 100 Open End Cap	Galvanized Steel	0.66	25FC
	1901092	FILCOTEN 100 Rebar Support	Galvanized Steel	2.7	25FC

FILCOTEN® PRO V 200 Accessories

FILCOTEN Pro Sump Unit 200

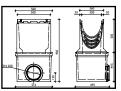
Part No.	Description	Material	Weight Ea. (Ibs.)	Product Class
22512	FILCOTEN 200 Silt Bucket for Sump	Plastic	1.54	25FC
32089	FILCOTEN 200 Grate Vandal-Proof Device	Stainless Steel	0.22	25FC
70154	FILCOTEN 8" Pipe Connector for Catch Basin	Plastic	2.43	25FC
19020216	FILCOTEN 200 End Cap with Outlet	Galvanized Steel	1.10	25FC
19020230	FILCOTEN Closed End Cap	Galvanized Steel	0.88	25FC
19020295	FILCOTEN Step Connector Plate	Galvanized Steel	0.44	25FC
19020215	FILCOTEN 200 Closed End Cap	Galvanized Steel	0.88	25FC
19020902	FILCOTEN No Hub Bottom Outlet	Galvanized Steel	2.20	25FC
1902092	FILCOTEN Rebar Support	Galvanized Steel	1.8	25FC

FILCOTEN® PRO V 300 Accessories

FILCOTEN Pro 300 Sump Kit with Silt Bucket



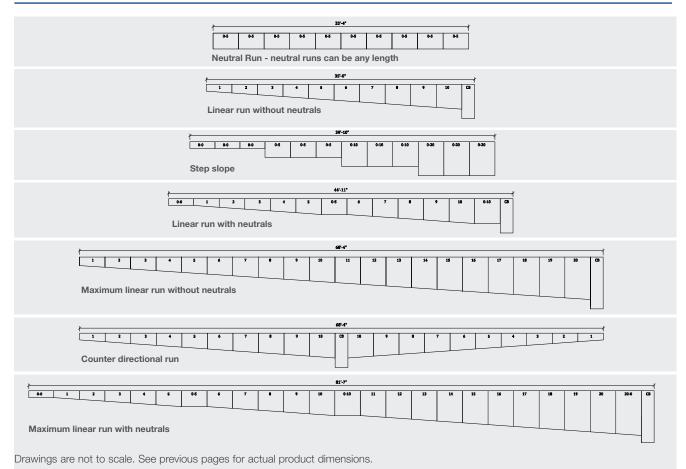
Part No.	Description	Material	Weight Ea. (lbs.)	Product Class
22213	FILCOTEN 300 Silt Bucket for Sump	Galvanized Steel	7.05	25FC
32110	FILCOTEN 300 Bolt and Nut for Locking	Galvanized Steel	0.22	25FC
19030213	FILCOTEN 300 Closed End Cap	Galvanized Steel	3.75	25FC
19030214	FILCOTEN 300 End Cap with Outlet	Galvanized Steel	3.53	25FC
19030290	FILCOTEN 300 Catch Basin End Cap Connector	Galvanized Steel	0.66	25FC
19030295	FILCOTEN 300 Step Connector Plate	Galvanized Steel	0.88	25FC
10630290	FILCOTEN Catch Basin	Galvanized Rail	273.37	25FC
1903092	FILCOTEN Rebar Support	Galvanized Steel	2.4	25FC



	Part No.	Description	Material	
-	22213	FILCOTEN 300 Silt Bucket for Sump	Galvanized Steel	
	32110	FILCOTEN 300 Bolt and Nut for Locking	Galvanized Steel	,
4	19030213	FILCOTEN 300 Closed End Cap	Galvanized Steel	
	19030214	FILCOTEN 300 End Cap with Outlet	Galvanized Steel	
	19030290	FILCOTEN 300 Catch Basin End Cap Connector	Galvanized Steel	(
<u>→ 300</u> → → → 30 b = = 1	19030295	FILCOTEN 300 Step Connector Plate	Galvanized Steel	,
M	10630290	FILCOTEN Catch Basin	Galvanized Rail	
434	1002002	Ell COTEN Debar Support	Calvanized Steel	



FILCOTEN® by NDS® System Profiles



The maximum run length using only sloped channels with a catch basin in the middle is 135'. The maximum run length with all slopes with 1 each of the neutrals and a catch basin in the middle would be 162'.

LOAD RECOMMENDATION GUIDE - According to EN1433 Standards

Class A		
Max Design Load: 3,372 lbs.Pedestrians	BicyclistsPlanted Areas	Ŕ
Class B		/ \
Max Design Load: 28,100 lbs.Pedestrians	Parking LotsDelivery Vehicles	
Class C		
Max Design Load: 56,200 lbs.Curbs	 Road Shoulders Parking Lots	
Class D		•• •• •
Max Design Load: 89,920 lbs.Roadways	Pedestrian ZonesParking Lots	
Class E		
Max Design Load: 134,800 lbs.Industry	MilitaryHigh Wheel Loads	

Notes: Some installations may require a concrete collar to meet load rating. Load ratings are based on encasing product in concrete. Product must be installed using NDS instructions.

Cast iron grates will oxidize over time and rust, forming an iron-oxide patina. The iron-oxide layer begins red-orange in color and ages to a deep, rich brown. This patina is tightly adhered and protects the iron beneath it from further oxidation. Iron grates with a rust patina are structurally sound and will last for decades.

Visit **ndspro.com** for complete installation specifications, guidelines & details.



CHANNEL & TRENCH DRAINS PRODUCTS INDEX

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230	56, 59, 61	662	73	8003	56	32110	85	10630209	82
234	61	663	73	8301	56	70154	85	10630210	82
240	60	664	73	8302	56	1901092	85	10630211	82
241	60	665	73	8303	56	1902092	85	10630212	82
242	60	710	64	8371	56	1903092	85	10630213	82
243	60	712	64	8372	56	10410200	81	10630214	82
244	60	713	64	8373	56	10410201	81	10630215	82
245	61	714	64	8381	56	10410202	81	10630216	82
246	61	764	64	8382	56	10410203	81	10630217	82
247	61	800	66	8383	56	10410204	81	10630218	82
248	61	812	66	8461	56	10410205	81	10630219	82
249	61	813	66	8462	56	10410206	81	10630220	82
251	60	814	65	8463	56	10410207	81	10630261	82
252	60	815	65	8471	56	10410208	81	10630262	82
252CI	60	816	65	8472	56	10410209	81	10630264	82
252GR	60	817	65	8473	56	10410209	81	10630204	82, 85
252GY	60 60	818	65	8481			81	17010105	
		819		8501	56	10410211			83
252S	60		65		56	10410212	81	17010106	83
253	60	820	66	8502	56	10410213	81	17010110	83
253Cl	60	821	66	8503	56	10410214	81	17010180	83
253GR	60	822	66	8511	56	10410215	81	17010183	83
253GY	60	823	65	8512	56	10410216	81	17010184	83
253S	60	824	65	8513	56	10410217	81	17010202	83
254	60	826	65	8601	56	10410218	81	17010203	83
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400-10WH	60	831	68	9206	57	10410262	81	17010207	83
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532	59	836	67	9209GRAY	57	10620202	82	17010223	83
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540	58	838	67	9209WHITE	57	10620204	82	17010229	83
541	58	840	69	9241	57	10620205	82	17010401	83
542	58	841	69	9242	57	10620206	82	17010402	83
543	58	843	69	9243	57	10620207	82	17020104	84
544	58	844	69	9247	57	10620208	82	17020105	84
546	59	846	58	9248	57	10620209	82	17020103	84
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		849		9251					
547	59		69		57	10620211	82	17020184	84
547S	59	861	66	9252	57	10620212	82	17020228	84
548	59	862	66	9253	57	10620213	82	17020229	84
548S	59	864	65	9261	57	10620214	82	17030103	84
550	59	864DISPLAY	65	9262	57	10620215	82	17030180	84
551	58	864GMTL	65	9263	57	10620216	82	17030183	84
552B	58	864GMTLDISP	65	9270	57	10620217	82	17030184	84
553PB	58	885	69	9301	57	10620218	82	17030222	84
554	58	888	67	9302	57	10620219	82	17030223	84
554CI	58	2301	61	9303	57	10620261	82	17111201	74
554GR	58	2351	61	9371	57	10620262	82	17111202	74
554GY	58	2361	61	9372	57	10620264	82	17111204	83
554S	58	2371	61	9373	57	10620290	82	17111205	83
555	58	2381	61	9381	57	10630200	82	17111206	83
555CI	58	5300	59	9382	57	10630201	82	17111281	74
555GR	58	5303	59	9383	57	10630202	82	17111304	83
555GY	58	5370	59	13399	74	10630202	82	17111304	83
555S	58	5372	59	22213		10630203	82	17111305	83
629	56 75	5380	59		85 85	10630204	82	19010230	85
				22512	85				
660	73	5383	59 56	22515	85	10630206	82	19010231	85
661	73	8001	56	32087	85	10630207	82	19011204	85

CHANNEL & TRENCH DRAINS PRODUCTS INDEX

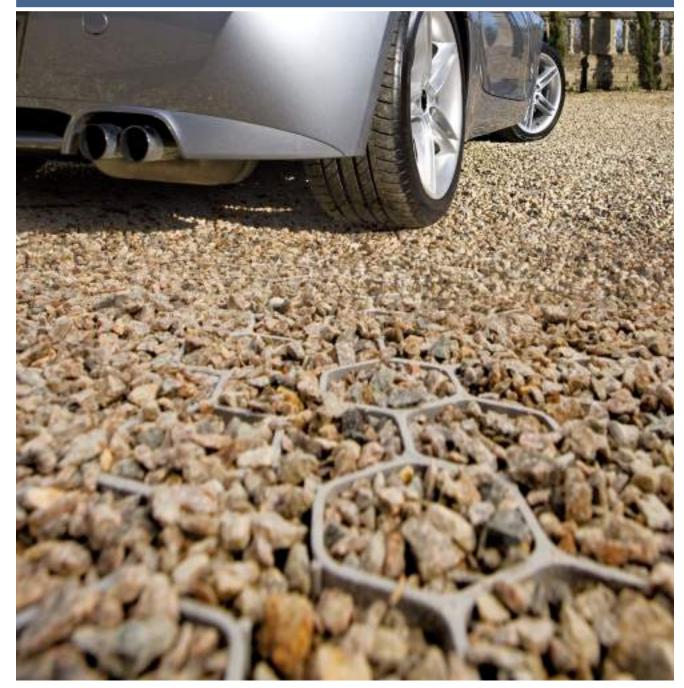
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DS-094N	72	DS-108	72	DS-226MG	77	DS-661LGMG	77	DS-ST4	74
DS-095	72	DS-109	72	DS-227	75	DS-661MG	77	DS-STMAINT	74
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NOTES





PERMEABLE PAVERS



NDS Permeable Pavers provide an alternative solution to traditional paving methods. Creating a strong grass or gravel surface that can support heavy vehicles, they maintain permeable surface areas, eliminating or reducing stormwater runoff.

Benefits

Greatest Compressive Strength*. Offering a high load-bearing capacity, NDS Permeable Pavers feature hexagonal cells that connect together to form a flexible grid system capable of handling significant structural loads.

Easy Installation. EZ Roll[™] products come in large rolls that are easily placed and clipped together. Tufftrack[™] features an integrated easy to assemble clip, that greatly reduces installation time.

Reduced Maintenance. Less expensive to maintain over time than traditional hardscaping and reduces demands put on landscape drainage systems.

Environmentally Friendly. NDS Permeable Pavers contribute to LEED credits and are made of up to100% recycled plastic.

*Compare the strength of NDS Permeable Pavers to the competition.





TUFFTRACK[™] GRASS PAVER



Tufftrack[™] Grass Pavers are the strongest paver on the market that works for both grass and gravel applications. Manufactured in rigid 24["] square panels it offers maximum strength and stabilization for support of heavy vehicles like fire trucks.

Tufftrack[™] Grass Pavers are 24" x 24" rigid panels featuring a clip fastener designed for fast installation that easily connects without extra pieces or tools. The Tufftrack Grass Paver has a combined series of 120 nested hexagonal cells per paver cell with 12 connecting clips. This unique combination provides superior stability and durability.

Ideal Applications

- Fire lanes
- Emergency vehicle access roads
- Truck maintenance and equipment yards
- Truck & cart wash-down areas
- RV & boat access and parking
- Residential driveways

- Parking lots
- Overflow parking lots



Specifications

Tufftrack[™] is available in: 24" x 24" panels, 1.5" thick



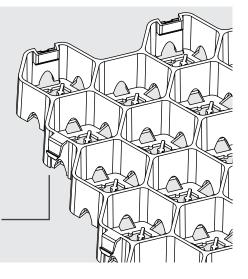
Empty cells have a compressive strength of

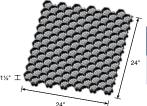
86,563 psf

Cells filled with wet soil have a compressive strength of 400,000 psf

Product ships in 24 in. squares for easy layout

Unique tongue & groove clips are easier to install





	Part No.	Description	Color	Pkg. Qty./ Pallet Qty.	Wt. Ea. Lbs.	Product Class
."	TT-24	24" x 24" Tufftrack [®] Grass Pavers	Black	1/132	4.35	55GP

EZ ROLL™ & HONOR ROLL™ GRASS PAVERS

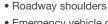


EZ Roll™ Grass Pavers feature hexagonal cells that protect the root zone and prevent soil compaction, allowing healthy grass to thrive in areas that would traditionally have impervious hardscaping installed.

EZ Roll[™] Grass Pavers are honeycombed rolled grass pavers that are comprised of 24" x 24" x 1" panels. The product is made of up to 100% recycled HDPE material with UV inhibitors. Panels are available in pre-assembled rolls, and multiple panels and rolls easily connect together with a series of locking joints. EZ Roll Grass Pavers have an ultimate compression load rating of 53,683 psf "empty."

Ideal Applications

- Golf cart paths
- Residential driveways
- Parking lots



• Emergency vehicle or service access roads – Also an effective solution for erosion control on slopes and in swales



Honor Roll[™] Pavers are ideal for long, linear applications next to curbs, medians.

Specifications

EZ Roll™ Grass Paver

3.96 ft. x 24 ft. rolls – 95.01 square feet total

3.96 ft. x 152 ft. rolls – 601.6 square feet total

(150 ft. +/- 2 ft. on the length and 3.96 ft. +/- 1/2 in. for width using 76 panel pairs total)

Honor Roll™

13 in. x 150 ft. rolls – 158.3 square feet total 18 in. x 150 ft. rolls – 226.5 square feet total

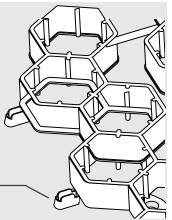
Empty cells have a compressive strength of

53,683 psf

Cells filled with wet soil have a compressive strength of 400,000 psf

Product ships in large rolls for easy rollout

Easy to connect locking tabs on sides and ends



Part No.	Description	Color	Pallet Qty.	Wt. Ea. Lbs.	Product Class
EZ4X24	EZ Roll™ Grass Pavers, 3.96 ft. x 24 ft. roll, 95.01 sf total	Black	6	55.44	55GP
EZ4X150	EZ Roll™ Grass Pavers, 3.96 ft. x 152 ft. roll, 601.6 sf total	Black	1	360.00	55GP
EZ13X150	Honor Roll™ Pavers, 13 in. wide roll*	Black	1	172.49	55GP
EZ1.5X150	Honor Roll™ Pavers, 18 in. wide roll*	Black	1	172.49	55GP

*MT0 3-4 weeks



EZ ROLL™ GRAVEL PAVERS



EZ Roll™ Gravel Pavers preserve permeability and help maintain the look and functionality of a gravel road. Made with 100% recycled materials, they also minimize surface water runoff and present an attractive and sustainable alternative to traditional concrete or asphalt.

NDS EZ RollTM Gravel Pavers are a high quality injection molded, plastic rolled gravel paver structure of linked and nested honeycomb cells. The product is made from up to 100% recycled HPDE plastic with UV inhibitors. Pavers come in pre-assembled rolls, and a lateral snap lock latching system securely connects paver panels together to create an integral paver mat. Pavers must have an ultimate compression load rating of 53,683 psf (empty).

Ideal Applications

- Golf cart paths
- Service roads
- Jogging tracks
- Bike paths

- RV & boat access & parking
- Residential driveways
- Parking lots
- · Roadway shoulders

- Firelanes
- Emergency vehicle access roads
- Truck maintenance and equipment yards
- EAffective solution for erosion control on slopes & in swales

Specifications

A continuous piece of geotextile fabric prevents migration of base and infill materials yet is porous to allow for the filtration of stormwater runoff.

Available in four colors for design flexibility. Crushed or decomposed granite, limestone and pea gravel are just some of the fill material options that work well with EZ Roll[™] Gravel.



EZ Roll™ Gravel Paver

3.87 ft. x 149 ft. rolls - 577 square feet total

(149 ft. +/- 2 ft. on the length and 3.87 ft. +/- 1/2 in. for width using 76 panel pairs total)

Gravel Paver Stake (GPSTAKE) Ships with EZ Roll™

compressive strength of
53,683 psf
Cells filled with

3/8" Gravel have a compressive strength of 500,000 psf

Empty cells have a

Product ships in large rolls for easy rollout

Easy to connect locking tabs on sides and ends

Description	Color	Pkg. Qty.	Wt. Ea. Lbs.	Product Class
EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total	Black	1	360.00	55GP
EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*	Gray	1	360.00	55GP
EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*	Brick Red	1	360.00	55GP
EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*	Tan	1	360.00	55GP
EZ Roll™ Gravel Paver Stake	Raw Steel	40	23.40	55GP
	EZ Roll [™] Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total EZ Roll [™] Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* EZ Roll [™] Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* EZ Roll [™] Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*	EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total Black EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Gray EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Brick Red EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Tan	EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf totalBlack1EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*Gray1EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*Brick Red1EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total*Tan1	EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total Black 1 360.00 EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Gray 1 360.00 EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Gray 1 360.00 EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Brick Red 1 360.00 EZ Roll™ Gravel Pavers, 3.87 ft. x 149 ft. roll, 577 sf total* Tan 1 360.00

*MT0 3-4 weeks

Part No. GP4X150 GP4X150 GP4X150 GP4X150 GP5TAK

EZ MARKER™ PARKING DELINEATORS



Used with EZ Roll[™] Grass and Gravel Pavers, NDS **EZ Marker[™]** is a modular solution to outlining driving lanes, parking stalls, and fire lanes. After the pavers have been unrolled, pinned, and secured, EZ Marker[™] snaps into the appropriate empty cells to outline whatever pattern necessary to properly direct vehicular traffic.

EZ Marker[™] Parking Delineators increase safety and organization by strategically directing parking lot traffic. Delineators are a great way to guide motorists around hazards and to their final parking destination. Used in conjunction with EZ Roll[™] Grass and Gravel Permeable Pavers they provide a simple and effective solution for managing parking lot traffic. EZ Marker[™] is durable, tamper-resistant and built to last. Available in various colors to suit any traffic need including grass or gravel parking and fire line access.

Specifications

- 2.7" hexagonal shape
- 0.40" profile above paver grade
- Molded polypropylene, impact copolymer

- 300 PSI class "C" compressive strength
- Easy clip-in installation
- Self-cleaning: Raised dome design prevents debris from sticking

-		Part No.	Description	Color
	-	EZMARKER	EZ Roll™ Parking Delineator	White
-		EZMARKER-B	EZ Roll™ Parking Delineator	Blue
		EZMARKER-R	EZ Roll™ Parking Delineator	Red
T	T	EZMARKER-Y	EZ Roll™ Parking Delineator	Yellow

For Permeable Paver Technical Information, Refer to Technical Specification documents at **ndspro.com/specifications**

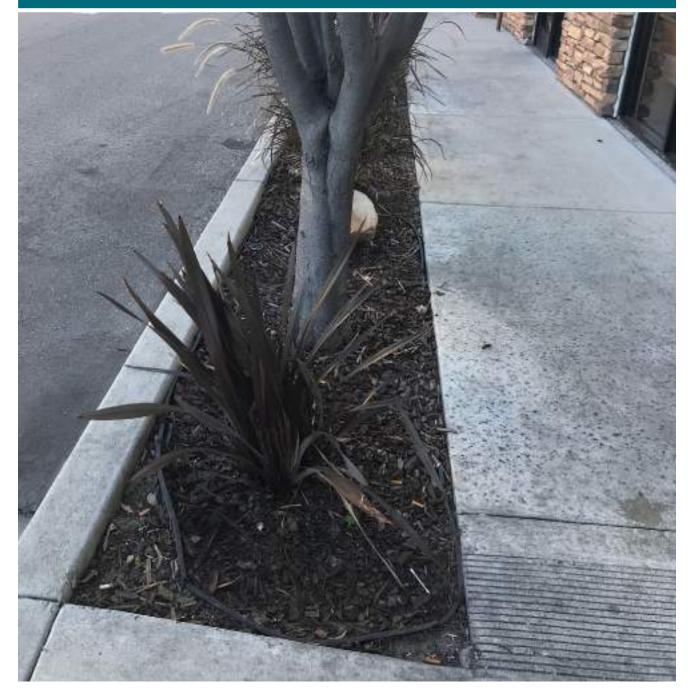
PERMEABLE PAVERS PRODUCTS INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
EZ1.5X150	93	EZ13X150	93	EZMARKER-R	95	GP4X150G	94	GPSTAKE	94
EZ4X24	93	EZMARKER	95	EZMARKER-Y	95	GP4X150R	94	TT-24	92
EZ4X150	93	EZMARKER-B	95	GP4X150	94	GP4X150T	94		





LANDSCAPE



ROOT BARRIER PANELS



Root barrier products direct root growth from shrubs and trees downward, dramatically decreasing the roots' potential to clash with and penetrate nearby hardscapes, walls, or building foundations. The use of NDS root barriers for residential and non-residential landscapes protects many communities and homeowners against the high cost of reparations due to cracks in foundations and buckled sidewalks and driveways.

Modular EP Series Root Barrier Panels

EP Series Root Barrier Panels are made from injection molded High Impact Polypropylene (HIPP) with a unique factory installed joiner strip that eases installation. EP Series Panels include a "T" top edge to prevent root overgrowth and an Anchor Lock[™] external flange at the base to lock panels in the ground. Suitable for all planting installations, EP Series Root Barrier Panels are available in 12", 18", 24" and 36" depths.



LANDSCAPE

Specifications

EP Series Root Barrier Panels by NDS include factory installed independent joiner strips. Each Barrier is a minimum of 0.090 inches thick and is made of up to 50% post consumer High Impact Polypropylene (HIPP) with U.V. inhibitors to ensure longevity. Barrier Panels have 1/2" raised vertical ribs running perpendicular to the panel and are 6" on center. All EP Series Panels feature a 3/8" wide "T" top edge and an external ground anchoring base flange that is 1/8" in width.

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Lbs.	Product Class
EP-1250	12" x 24" Root Barrier Panel	Black	25	1.80	50LP
EP-1850	18" x 24" Root Barrier Panel	Black	25	1.56	50LP
EP-2450	24" x 24" Root Barrier Panel	Black	25	2.12	50LP
EP-3650	36" x 24" Root Barrier Panel	Black	25	3.20	50LP
Includes 1 Jo	iner Strip per panel				

Recommended Installations

Surround Application:	Linear/Root Pruning Application:
Panels placed around root ball, at a sufficient distance to allow proper backfill of materials.	Panels placed directly adjacent to the hardscape being protected.

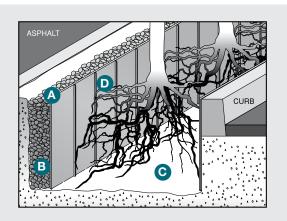


ROOT BARRIER PANELS

Root Barrier Sheet Material

Manufactured from durable HDPE, Root Barrier Sheet Material creates a water and root barrier to prevent costly damage to pavements, roads, and building foundations caused by water and roots. The 20-foot-long sheets of material are ideal for linear style planting applications, and are equally suited for individual tree planting use. Root Barrier Sheet Material is available in 12", 18", and 24" depths to meet a variety of applications.

- A Finished Grade
- B 3"- 4" of 3/4" Gravel
- C Amended Soil
- D Sheet Material



Specifications

Root Barrier Sheet Material by NDS is manufactured from up to 50% recycled HDPE with U.V. inhibitors with a thickness of 0.040-0.060". Barriers feature vertically integrated and flared molded 90° root-deflecting ribs that protrude 1/2" from wall and are placed 6-8" apart. A root impervious molded end provides easy assembly using staples or a sealant design to bind to HDPE (a dual-sided solvent-based tape).

ACOR	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Lbs.	Product Class
	SM-1220	12" x 20 ft. Roll	Black	1	10.00	50LP
	SM-1820	18" x 20 ft. Roll	Black	1	14.00	50LP
	SM-2420	24" x 20 ft. Roll	Black	1	18.00	50LP
20 [®] rolls	SM-3620	36" x 20 ft. Roll	Black	1	22.00	50LP

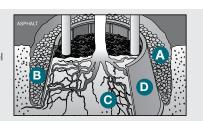
Recommended Installations

Surround Application:	Linear/Root Pruning Application:
Cut desired length of molded roll material. Connect the ends by overlapping two 6" sections with the leading rib cut directly down the middle. If using a sealant to seal the ends, utilize a dual-sided solvent-based tape (like that sold by Tuff Industries, Inc.). Install by placing the Sheet Material around root ball at a sufficient distance to allow proper backfill – the vertical integrated root-deflecting ribs should always be facing the root ball.	Cut desired length of molded roll material and install directly adjacent to hardscape being protected

ROOT BARRIER PLANTERS

Pre-molded, one piece, tapered root control planter made of Structural Foam High Impact Polyethylene (SFHIPP) for superior strength. The ribbed interior wall design guides tree roots down and out of the flanged base. Advantages include the elimination of measuring, cutting, gluing or assembly of panels. Installation is further simplified in that units fit into a 30" augured hole.

- A Finished Grade
- **B** 3"- 4" of 3/4" Gravel
- C Amended Soil
- D Sheet Material



Specifications

Root Barrier Planter by NDS has a top diameter of 22", a bottom diameter of 30", a height of 18" and a wall thickness of 0.250". Planter is one piece and molded of up to 505 post consumer Structural Foam High Impact Polyethylene (SFHIPP) material with U.V. inhibitors. Root Barrier Planter has a 3/4" inward facing top edge, a 1" external facing ground anchoring base flange with 1/2" high raised vertical ribs a \pm 6" intervals on the interior wall.

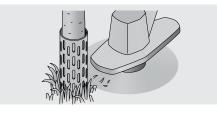


Recommended Installations

Patio Trees:		Street Tree Use:
Root Barrier Planter is ideal f exceed 14" in diameter at ma	or a 15 gallon tree or a 16" root ball whose trunk caliper will not sturity.	Root Barrier Planter is the preferred product for use in city sidewalk cutouts or where trees are completely surrounded by hardscape.

TRUNK PROTECTOR

Used around the base of trees to prevent damage from lawnmowers, edgers, and string trimmers. The coiled shape allows it to expand with the growth of the tree. It is vented, which permits the tree to breathe and it is notched at the base to accommodate root flare. NDS Trunk Protector is colored to help it blend with the natural shade of the tree. Each unit fits up to a 4" caliper tree; multiple units may be used for larger trees.



Specifications

Trunk Protector by NDS is made of Low Density linear Polyethylene (LDLPE) material with U.V. inhibitors to insure longevity. Trunk Protector measures 8" high, 12" wide and \pm 0.050" thick. Slotted vents are 1" high by 1/4" wide, creating a serrated lower edge on the bottom row.

	Î	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Lbs.	Product Class
ð	8"	TP-128	Trunk Protector	Gray	50	0.16	50LP
AÅ	Ĭ						

Recommended Installations

Any tree planted in lawn or brush areas where mowing or trimming equipment may cause contact with tree trunks.



LANDSCAPE PRODUCTS INDEX

Part No.	Page								
EP-1250	97	EP-3650	97	SM-1820	98	TP-128	99		
EP-1850	97	FI-15	99	SM-2420	98				
EP-2450	97	SM-1220	98	SM-3620	98				

NOTES

	We put water in its place
NOTES	





PROFESSIONAL IRRIGATION



Introducing NDS[®] Professional Irrigation, a line of efficient drip and micro-irrigation products that offers complete, system-oriented watering solutions for the green industry. Product offering includes drip emitters, multi-outlet bubblers, micro-sprays, misters, tubing, fittings, stakes, regulators, valves, and filters.

POINT OF CONNECTION

Hose Bib Timer										
	Part No.	Description	Color	Bag Qty./Box Qty.	Wt. Each (Ibs.)	Product Class				
	A 675CT	Battery Hose Bib Timer	Blue	1/10	1.25	21DI				
Universal Conversion Kit & Cap Off Patente										
Bellen .	Part No.	Description	Color	Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class				
	FR2 17-710	Spray-to-Drip Conversion Kit 17mm710	Black	1	-	21DI				
	CAP POP/5	Universal Cap-Off	Black	5	-	21DI				
	CAP POP/25	Universal Cap-Off	Black	25	-	21DI				
Pressure-Regulat	ing Wye	Filter								
	Part No.	Description	Color	Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class				
- The	PRYF 30	Pressure Regulating Filters, 3/4" MPT, 30 PSI, 200 mesh	Black	1/5	0.25	21DI				
	PRYF 40	Pressure Regulating Filters, 1" MPT, 40 PSI, 200 mesh	Black	1/5	0.30	21DI				
Control Zone Kits	5									
	Part No.	Description		Bag Qty./Box Qty.	Wt. Each (lbs.)	Product Class				
. 24	CZK 100-30	1" Control Zone Kit with 30 PSI Pressure Re	gulating Filter	1/10	1.26	21DI				
	CZK 100-30F	1" Control Zone Kit with 30 PSI Pressure Re and Flow Control	egulating Filter	1/10	1.30	21DI				
-	CZK 100-40	1" Control Zone Kit with 40 PSI Pressure Re	gulating Filter	1/10	1.26	21DI				
	CZK 100-40F	1" Control Zone Kit with 40 PSI Pressure Re and Flow Control	egulating Filter	1/10	1.30	21DI				
	CZK 100-40VB1	1" Control Zone Kit with 40 PSI Pressure Re in 10"x15" Green Valve Box	egulating Filter	1/25	5.35	21DI				
Drip Zone Kit										

Part No.	Description			Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class		
DZK 700/710	10 Drip Zone Kit: 150 Mesh Filter, 30 PSI Regulator, 1-8 gpm Flow (Fits .680" – .710" OD Tubing Outlet 1" and 3/4" MIPT Inlet)				1/10	0.76	21DI	
1" MIPT x 3/4"	YS 75 3/4"	PR30 30 PSI	Smart-Loc™	Features	Benefits			
Female	"Y" Filter	Pressure Regulator	Regulator CMAP 75-18	All parts in one kit	No need to purch	No need to purchase or source additional parts		
- 🍈 r	1- 12			Easy installation	Saves time			
1" THD 3/4" THI	2			Fits .680"710" OD PE Tubing		One kit used for a wide range of PE tubing, saving the need to have additional products		
Reducing Brush		Flow Direction		3/4" or 1" Inlet	Easily installed on 3/4" or 1" discharges			
Didsir				150 Mesh Filter	Prevents debris e	Prevents debris entering drip system		
				30 PSI Regulator	Will operate a wide range of micro products			



Y Strainers



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
YS 75	"Y" Filter, 3/4" MIPT, with 150 Mesh Polyester Screen Element (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	33.1	21DI
YSS 75	"Y" Filter, 3/4" MIPT, with 150 Mesh Stainless Steel Screen Element (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	34.1	21DI
YSV 75	"Y" Filter, 3/4" MIPT, with 150 Mesh Polyester Screen Element, Includes Flush Valve (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	35.6	21DI
YSVS 75	"Y" Filter, 3/4" MIPT, with 150 Mesh Stainless Steel Screen Element, Includes Flush Valve (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	36.5	21DI
YS 100	"Y" Filter, 1" MIPT, with 150 Mesh Polyester Screen Element, (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	36.6	21DI
YSS 100	"Y" Filter, 1" MIPT, with 150 Mesh Stainless Steel Screen Element, (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	36.8	21DI
YSV 100	"Y" Filter, 1" MIPT, with 150 Mesh Polyester Screen Element, Includes Flush Valve (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	39.0	21DI
YSVS 100	"Y" Filter, 1" MIPT, with 150 Mesh Stainless Steel Screen Element, Includes Flush Valve (10 gpm Capacity, 150 PSI Max. Pressure)	Black	1/50	39.7	21DI
OR 136	Replacement O-Ring for YS Filter Housing	Black	10/100	.03	21DI
OR 027	Replacement 0-Ring for YS Filter Element	Black	10/100	.01	21DI

Pressure Regulators

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
PR 20	20 PSI, 3/4" FIPT Pressure Regulator (0.1 – 8 gpm Flow Range)	Black	10/50	31.0	21DI
PR 30	30 PSI, 3/4" FIPT Pressure Regulator (0.1 – 8 gpm Flow Range)	Black	10/50	31.0	21DI
PRM 30	30 PSI, 3/4" FIPT Pressure Regulator (2 – 20 gpm Flow Range)	Black	10/50	31.0	21DI
PRP 20	20 PSI, Pipe Thread, Pressure Regulator (3/4" FPT in x 3/4" MPT out, .2 to 10 gpm)	Black	10/50	15.3	21DI
PRP 30	30 PSI, Pipe Thread, Pressure Regulator (3/4" FPT in x 3/4" MPT out, .2 to 10 gpm)	Grey	10/50	15.3	21DI

Pressure Regulators (continued)

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
PRP 40	40 PSI, Pipe Thread, Pressure Regulator (3/4" FHT in x 3/4" MHT out, .2 to 10 gpm)	Blue	10/50	15.3	21DI
PRH 20	20 PSI, Hose Thread, Pressure Regulator (3/4" FHT in x 3/4" MHT out, .2 to 10 gpm)	Black	10/50	15.3	21DI
PRH 30	30 PSI, Hose Thread, Pressure Regulator (3/4" FHT in x 3/4" MHT out, .2 to 10 gpm)	Grey	10/50	15.3	21DI
PRH 40	40 PSI, Hose Thread, Pressure Regulator (3/4" FHT in x 3/4" MHT out, .2 to 10 gpm)	Blue	10/50	15.3	21DI

Filters and Replacement Screens

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
SSTF 150	Stainless Steel Screen – 150 Mesh (Replacement for FTEE 150 Filter)	Black	10/50	1.8	21DI
SP 150	Polyester Screen – 150 Mesh (Replacement for YS 75, YSV 75, YS 100, YSV 100 Filter)	Black	5/20	3.7	21DI
SSS 150	Stainless Steel Screen (Replacement for YSS 75, YSVS 75, YSS 100 and YSVS 100 Filter)	Black	5/20	4.3	21DI
SW 75	3/4" Fllter Washer (30 Mesh, Stainless Steel)	Green	100/1,000	0.5	21DI
SW 50	1/2" Filter Washer (100 Mesh, Stainless Steel)	Black	100/1,000	0.4	21DI
SSPRAY 200	Stainless Steel Filter Screen for PRYF 30 & 40	Black	1/20	3.5	21DI

Swing Pipe Fittings

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0:000	Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
	FPA-0500	1/2" Male MPT x Spiral Barbed Adapter	Black	50/500	1.6	42LS
	FPA-0750	3/4" Male MPT x Spiral Barbed Adapter	Black	50/500	2.0	42LS
	FPE-0500	1/2" Male MPT x Spiral Barbed Elbow	Black	50/500	2.2	42LS
	FPE-0750	3/4" Male MPT x Spiral Barbed Elbow	Black	50/500	2.6	42LS
	FPC-0490	1/2" Spiral Barbed Coupler	Black	50/500	1.4	42LS
		or Super Flexee pipe. (See page 137) emblies available. (See page 106)				



Swing Joints

PVC Sch. 80 Swing Assembly GRAY

PVC Sch. 40 Swing Assembly WHITE

PVC/Poly Econo Swing Joints

	Part No.	Description	Color	Pkg. Qty.	Product Class	Specifications
	PVC Sch. 80 Swing	Assembly				
	TSA-0500-BB	1/2" (BSP x BSP)	Gray	60	42TS	
	TSA-0500-ST	1/2" S x M	Gray	60	42TS	
	TSA-0500-TT	1/2" M x M	Gray	60	42TS	
N	TSA-0750-BB	3/4" (BSP x BSP)	Gray	50	42TS	
	TSA-0750-CT	3/4" SCKT x MIPT	Gray	50	42TS	
	TSA-0750-LT	3/4" LONG SPGT/MIPT	Gray	50	42TS	
	TSA-0750-SC	3/4" S x S	Gray	50	42TS	
1.0	TSA-0750-ST	3/4" S x M	Gray	50	42TS	
	TSA-0750-TT	3/4" M X M	Gray	50	42TS	PVC Rated @ 315 PSI
	TSA-1000-BB	1" (BSP x BSP)	Gray	25	42TS	@ 72°F
	TSA-1000-ST	1" S x M	Gray	25	42TS	
	TSA-1000-TT	1" M x M	Gray	25	42TS	
	TSA-1250-TT	1-1/4" M x M	Gray	15	42TS	
	TSA-1500-SA	1-1/2" S x ACME	Gray	15	42TS	
	TSA-1500-ST	1-1/2" S x M	Gray	15	42TS	
	TSA-1500-TT	1-1/2" M x M	Gray	15	42TS	
	TSA-1512-ST	1-1/2" X 1-1/4" SPIGOT x MIPT	Gray	15	42TS	
	TSA-1512-TT	1-1/2" X 1-1/4" (MIPT x MIPT)	Gray	15	42TS	
	PVC Sch. 40 Swing	Assembly				
	WSA-0500-TT	1/2" (T x T)	White	60	42TS	
	WSA-0750-TT	3/4" (T x T)	White	50	42TS	PVC
-	WSA-1000-TT	1" (T x T)	White	25	42TS	Rated @ 315 PSI @ 72°F
	WSA-1250-TT	1-1/4" (T x T)	White	25	42TS	0.121

Economy Swing Joints

	Part No.	Description	Color	Pkg. Qty.	Product Class	Specifications		
	PVC/Poly Econo Swing Joints							
	TSE-0500-6	1/2" x 6" MIPT x MIPT	Black	100	42TS			
	TSE-0500-6R	1/2" x 6" MIPT x MIPT	Black	50	42TS			
	TSE-0500-12	1/2" x 12" MIPT x MIPT	Black	50	42TS			
	TSE-0500-12R	1/2" x 12" MIPT x MIPT	Black	50	42TS			
	TSE-0507-6	1/2" x 3/4" x 6" MIPT x MIPT	Black	50	42TS			
	TSE-0507-6R	1/2" x 3/4" x 6" MIPT x MIPT	Black	50	42TS	Rated @ 70 PSI @ 72°F		
	TSE-0507-12	1/2" x 3/4" x 12" MIPT x MIPT	Black	50	42TS	0.11		
	TSE-0750-6	3/4" x 6" MIPT x MIPT	Black	50	42TS			
	TSE-0750-6R	3/4" x 6" MIPT x MIPT	Black	50	42TS			
	TSE-0750-12	3/4" x 12" MIPT x MIPT	Black	50	42TS			
	TSE-0750-12R	3/4" x 12" MIPT x MIPT	Black	50	42TS			
	"R" Indicates Add	"R" Indicates Additional Inlet Elbow						

Landscape Sprinkler Products

			Ctn.	Product		
	Part No.	Description	Qty.	Class	Specifications	
	Cut-Off Risers					
	FC0-0500	1/2" x 6" Flex Cut-Off	50	42LS		
8.8	FC0-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Flex-Cutoff	500	42LS		
Cutoff Risers	MCO-0500	1/2" x 6" MIPT x MIPT Multi-Cutoff	500	42LS	Rated @ 70 PSI @ 72°F	
	MC0-0500-12	1/2" x 12" MIPT x MIPT Multi-Cutoff	250	42LS	nateu @ 70 F51 @ 72 I	
	MC0-0750	3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS		
	MC0-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS		
	Flex Risers					
	FR-0500-4	1/2" x 4" MIPT x MIPT Flex Riser	100	42LS		
	FR-0500-4F	1/2" x 4" MPT x FPT Flex Riser	100	42LS		
Flex Risers	FR-0500-6	1/2" x 6" MIPT x MIPT Flex Riser	100	42LS	Rated @ 70 PSI @ 72°F	
	FR-0500-6F	1/2" x 6" MIPT x FIPT Flex Riser	100	42LS		
	FR-0750-6	3/4" x 6" MIPT x MIPT Flex Riser	50	42LS		
-	FR-1000-7	1" x 7" MIPT x MIPT Flex Riser	25	42LS		
	Cutoff Riser Extension					
Cutoff Riser	CRE-0500-3	1/2" x 3" FIPT x MIPT Cutoff Riser Extension	200	42LS		
Extension	CRE-0750-4	3/4" x 4" FIPT x MIPT Cutoff Riser Extension	200	42LS	Rated @ 70 PSI @ 72°F	
	Street Elbows					
	STL-0500	1/2" 90° FIPT x MIPT Street Elbow	1600	42LS	Rated @ 70 PSI @ 72°F	
Street Elbows	STL-0750	3/4" 90° FIPT x MIPT Street Elbow	1000	42LS		
1 million	Swing Pipe Fittings					
Swing Pipe	FPA-0500	Swing Pipe Adapter .490BARB x 1/2"	50	42LS		
Fittings	FPA-0750	3/4" Swing Pipe Adapter	250	42LS		
	FPC-0490	.49" Swing Pipe Connector	250	42LS		
	FPE-0500	1/2" Swing Pipe Elbow	400	42LS		
	FPE-0500F	1/2" Swing Pipe Elbow FPT x Spiral Barb	400	42LS		
1 million	FPE-0750	3/4" Swing Pipe Elbow	250	42LS		
	FPT-0500	1/2" Swing Pipe Tee	500	42LS		
Shrub Adapter	Shrub Adapter					
	SAM-0500	1/2" Male Sprinkler Adapter	50	42LS	Rated @ 70 PSI @ 72°F	

Backwater Valves



See list of products on pages 178-179.



DRIPLINE

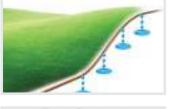


- Reduces water use by 30% or more compared to overhead irrigation
- · Complies with new water conservation legislation
- Highly efficient solution for landscape plantings & turfgrass
- · Chemical-free root intrusion protection
- · Longest run lengths in the industry
- Comprehensive offering from NDS Pressure Compensating, Non Pressure Compensating, Check Valve, Multiple Tubing size and color options

Dura Flo™ CV – One Dripline Tubing for All Applications

The new Dura Flo CV Check Valve Dripline combines the best of Dura Flo PC with a check valve. The combination brings the next level of water conservation to your irrigation project. The dripper features a check valve in combination with anti-siphon capabilities. The check valve prevents low emitter drainage on shut down and the anti-siphon feature eliminates back-siphonage at each emitter. This combination maximizes water efficiency by minimizing water loss and protecting each emitter from clogging and root intrusion. NDS Dura Flo CV is the only product offering this level of efficiency and protection in an all-in-one solution for drip line applications.

Features





Check Valve

- Each emitter opens a 7.5 PSI Longer run lengths lead to reduced material and labor costs
- Each emitter has a 2 PSI check valve that holds back up to 4.5 ft. of elevation Prevents low head drainage & keeps the line full of water between irrigation intervals to provide instant watering when the system turns on for each cycle
- Reduces water waste saves up to 1.39 gallons of water per 100 ft. of tubing

Anti-Siphon

- Each dripper is designed with an anti-siphon feature that prevents the suction of debris into the emitter
- Built-in anti-siphon feature eliminates the need for an air/vacuum relief valve



Emitter Specifications

- With its unique built-in filtration slits and self-cleaning design, clogging is minimized
- Flat, economical, check valve, pressure compensating, anti-siphon emitter maintains uniform flow rates at a wide range of working pressures and various topographies
- Operating range: 7.5 60 PSI
 Flow rates: 0.4 gph, 0.6 gph, and 0.9 gph
 Dripper spacing: 12", 18" or 24"



Pressure Compensation

- Conserves up to 70% of the water used by a conventional sprinkler irrigation system
- Distributes water evenly regardless of pressure fluctuations
- Self-flushing emitter eliminates debris from clogging the system during operation

Made in USA

Shrink Wrapped Packaging

DRIPLINE

17MM Dura Flo™ CV



0.660" OD Inline Check Valve

			-	
Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
0.6 gph, 17mm Dura FlotM Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
0.6 gph, 17mm Dura FlotM Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
0.6 gph, 17mm Dura FlotM Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura FlotM Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
0.9 gph, 17mm Dura FlotM Inline Check Valve Dripline (0.560" ID x 0.660" OD), 24" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
	0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 12" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" 0D), 18" spacing0.9 gph, 17mm Dura Flo™ Inline 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Notes: 1,000' Coils are Available Made to Order.

Brown 17mm Tubing with no emitters can be found on page 136 – See A660BR SKUs.

PROFESSIONAL IRRIGATION



17MM Dura Flo™ PC

Shrink Wrapped Packaging



	Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
	SFPC-BR-17212-01S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" 0D), 12" spacing	Brown	100'/ Wrapped Coil	4.1	21DF
	SFPC-BR-17212-025S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	250'/ Wrapped Coil	4.1	21DF
	SFPC-BR-17212-05S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	500'/ Wrapped Coil	4.1	21DF
	SFPC-BR-17218-01S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 18" spacing	Brown	100'/ Wrapped Coil	3.9	21DF
	SFPC-BR-17218-025S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" 0D), 18" spacing	Brown	250'/ Wrapped Coil	3.9	21DF
0.660" OD Pressure Compensative	SFPC-BR-17218-05S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" 0D), 18" spacing	Brown	500'/ Wrapped Coil	3.9	21DF
	SFPC-BR-17412-025S	1 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	250'/ Wrapped Coil	4.1	21DF
	SFPC-BR-17412-05S	1 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	500'/ Wrapped Coil	4.1	21DF
	SFPC-PS-17412-05S	1 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown/ Purple Stripe	500'/ Wrapped Coil	4.1	21DF
0.660" OD	SFPC-RC-17412-05S	1 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Purple	500'/ Wrapped Coil	4.1	21DF
Pressure Compensative	SFPC-BR-17412-10	1 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	1,000'/ Wrapped Coil	3.8	21DF

Note: 1,000' Coils are Available Made to Order.

16MM Dura Flo™ PC



0.640" OD Pressure Compensative



0.640" OD Pressure Compensative

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
SFPC-BR-6212-025	1/2 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Brown	250'/Coil	4.0	21DF
SFPC-BR-6212-05	1/2 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Brown	500'/Coil	4.0	21DF
SFPC-BL-6412-01	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Black	100'/Coil	4.0	21DF
SFPC-BR-6412-01	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Brown	100'/Coil	4.0	21DF
SFPC-BR-6412-025	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Brown	250'/Coil	4.0	21DF
SFPC-BR-6412-05	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 12" spacing	Brown	500'/Coil	4.0	21DF
SFPC-BR-6418-01	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 18" spacing	Brown	100'/Coil	3.8	21DF
SFPC-BR-6418-025	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 18" spacing	Brown	250'/Coil	3.8	21DF
SFPC-BL-6418-05	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 18" spacing	Black	500'/Coil	3.8	21DF
SFPC-BR-6418-05	1 gph, 16mm Dura Flo™ Pressure Compensating Dripline (0.550" ID x 0.640" OD), 18" spacing	Brown	500'/Coil	3.8	21DF



18MM Dura Flo™ PC



0.700" OD Pressure Compensative



0.700" OD Pressure Compensative

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
SFPC-BL-7212-01	1/2 gph, 18mm Dura Flot Pressure Compensating Dripline (0.600" ID x 0.700" OD), 12" spacing	Black	100'/Coil	4.7	21DF
SFPC-BR-7212-01	1/2 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" 0D), 12" spacing	Brown	100'/Coil	4.7	21DF
SFPC-BL-7212-05	1/2 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" 0D), 12" spacing	Black	500'/Coil	4.7	21DF
SFPC-BR-7218-05	1/2 gph, 18mm Dura FlotM Pressure Compensating Dripline (0.600" ID x 0.700" OD), 18" spacing	Brown	500'/Coil	4.5	21DF
SFPC-BL-7412-01	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 12" spacing	Black	100'/Coil	4.7	21DF
SFPC-BR-7412-01	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 12" spacing	Brown	100'/Coil	4.7	21DF
SFPC-BL-7412-05	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 12" spacing	Black	500'/Coil	4.7	21DF
SFPC-BR-7412-05	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 12" spacing	Brown	500'/Coil	4.7	21DF
SFPC-BL-7418-05	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 18" spacing	Black	500'/Coil	4.5	21DF
SFPC-BR-7418-05	1 gph, 18mm Dura Flo™ Pressure Compensating Dripline (0.600" ID x 0.700" OD), 18" spacing	Brown	500'/Coil	4.5	21DF

18MM Dura Flo™ CV



0.700" OD Inline Check Valve

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
SFCV-BR-7212-01	0.6 gph, 18mm Dura FloTM Inline Check Valve Dripline (0.600" ID x 0.700" OD), 12" spacing	Brown	100'/Coil	3.3	21DF
SFCV-BR-7412-01	0.9 gph, 18mm Dura Flo™ Inline Check Valve Dripline (0.600" ID x 0.700" 0D), 12" spacing	Brown	100'/Coil	3.3	21DF
SFCV-BR-7412-025	0.9 gph, 18mm Dura Flo™ Inline Check Valve Dripline (0.600" ID x 0.700" 0D), 12" spacing	Brown	250'/Coil	3.3	21DF
SFCV-BR-7412-10	0.9 gph, 18mm Dura Flo™ Inline Check Valve Dripline (0.600" ID x 0.700" 0D), 12" spacing	Brown	1,000'/Coil	3.3	21DF
SFCV-BR-7218-01	0.9 gph, 18mm Dura Flo™ Inline Check Valve Dripline (0.600" ID x 0.700" 0D), 18" spacing	Brown	100'/Coil	3.3	21DF
SFCV-BR-7218-025	0.9 gph, 18mm Dura Flo™ Inline Check Valve Dripline (0.600" ID x 0.700" 0D), 18" spacing	Brown	250'/Coil	3.3	21DF

1/4" Dura Flo™ JR

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
SFJR-BL-06-01	1/2 gph, 1/4" Dura Flo™ JR Dripperline (0.170" ID x 0.250" 0D) 6" spacing	Black	100'/Coil	1.2	21DF
SFJR-BL-06-10	1/2 gph, 1/4" Dura Flo™ JR Dripperline (0.170" ID x 0.250" 0D) 6" spacing	Black	1,000'/Spool	1.2	21DF
SFJR-BL-12-01	1/2 gph, 1/4" Dura Flo™ JR Dripperline (0.170" ID x 0.250" 0D) 12" spacing	Black	100'/Coil	1.1	21DF
SFJR-BR-06-01	1/2 gph, 1/4" Dura Flo™ JR Dripperline (0.170" ID x 0.250" 0D) 6" spacing	Brown	100'/Coil	1.2	21DF
SFJR-BR-12-01	1/2 gph, 1/4" Dura Flo™ JR Dripperline (0.170" ID x 0.250" 0D) 12" spacing	Brown	100'/Coil	1.1	21DF



Note: Non-PC Emitter.

Dura Flo™ HD – Heavy Duty for Commercial Applications

Dura Flo[™] HD is the only ¾" Heavy Duty dripline solution designed for commercial applications, offering superior durability vs. traditional PVC systems, with the design flexibility and the water efficiency of drip irrigation. Ideal for sparse uniform planting, Dura Flo[™] HD offers unique spacing configurations.

Dura FloTM HD emitter flow rate and spacing DURA FLO HD BLACK FLOW: 05 = 1/2 GPH COIL LENGTH: 05 = 500 FT. + 10 = 1.0 GPH +DFHD - BL - XX - XX - 05 EMITTER SPACING: 0 - 0 - 0 - 0 - 0 116 = 3 EMITTERS, 1' BETWEEN EACH EMITTER, 6' BETWEEN CLUSTERS 0 - 0 - 0 - 0 - 0 - 0 114 = 3 EMITTERS, 1' BETWEEN EACH EMITTER, 4' BETWEEN CLUSTERS



0.940" OD Pressure Compensative *This proc

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
DFHD-BL-05-116-05	$^{1\!\!/_2}$ gph, Dura Flo^M $$ HD Dripline (0.790" ID x 0.940" OD), see above for spacing*	Black	500'/Coil	6.4	21DF
DFHD-BL-10-114-05	1 gph, Dura FloTM HD Dripline (0.790" ID x 0.940" OD), see above for spacing*	Black	500'/Coil	6.4	21DF

*This product is made-to-order – please contact your local NDS representative for more information.

DRIPLINE – TECHNICAL INFORMATION

17MM Dura Flo™ CV Maximum Recommended Length of Run (Feet)

Initial Pressure		12" SPACING			18" SPACING	•	24" SPACING				
initial Flessure	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH		
15 PSI	261'	221'	161'	347'	292'	214'	420'	354'	260'		
20 PSI	357'	300'	221'	477'	399'	294'	576'	488'	358'		
25 PSI	422'	354'	259'	563' 471'		346'	684'	575'	421'		
30 PSI	471'	395'	289'	629'	526'	385'	765'	642'	471'		
35 PSI	514'	429'	314'	687'	571'	418'	835'	699'	512'		
40 PSI	550'	460'	336'	735'	618'	449'	893'	748'	549'		
45 PSI	582'	486'	355'	355' 779'		650' 473'		791'	581'		
50 PSI	610'	508'	372'	818'	677'	493'	995'	830'	610'		

Discharge Rates (GPH)

Model	Part No.	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	40 PSI	60 PSI	80 PSI
Dura Flo™ JR Mini	DS 20			1.7 gph	1.9 gph	2.0 gph	2.2 gph	2.5 gph	2.1 gph
Dripperline	DS 30			3.0 gph	3.3 gph	3.6 gph	3.6 gph	3.6 gph	3.0 gph
	SFJR-XX-XX-XX	0.39 gph	0.47 gph	0.56 gph	0.63 gph	0.69 gph			
	SFPC-XX-62XX-XX	0.45 gph	0.50 gph	0.45 gph					
	SFPC-XX-64XX-XX	0.75 gph	0.90 gph	0.90 gph	0.90 gph	0.90 gph	0.85 gph	0.80 gph	
Dura Flo™ PC	SFPC-XX-68XX-XX	1.40 gph	1.60 gph	1.65 gph					
Dripperline	SFPC-XX-72XX-XX	0.50 gph	0.55 gph	0.50 gph					
	SFPC-XX-74XX-XX	0.80 gph	0.95 gph	0.85 gph					
	SFPC-XX-78XX-XX	1.50 gph	1.75 gph	1.80 gph					
	SFPC-XX-202XX-XX	0.43 gph	0.45 gph	0.48 gph	0.48 gph	0.49 gph	0.49 gph	0.45 gph	
	SFPC-XX-204XX-XX	0.80 gph	0.83 gph	0.83 gph	0.86 gph	0.88 gph	0.93 gph	0.94 gph	
	SFPC-XX-208XX-XX	1.55 gph	1.62 gph	1.62 gph	1.65 gph	1.65 gph	1.62 gph	1.77 gph	
Dura Flo™	SF-XX-62XX-XX	0.36 gph	0.40 gph	0.51 gph	0.60 gph	0.68 gph	0.78 gph		
Dripperline	SF-XX-64XX-XX	0.63 gph	0.78 gph	0.92 gph	1.08 gph	1.21 gph	1.41 gph		
	SF-XX-68XX-XX	1.26 gph	1.58 gph	1.79 gph	2.00 gph	2.20 gph	2.54 gph		
	SF-XX-72XX-XX	0.40 gph	0.48 gph	0.56 gph	0.66 gph	0.75 gph	0.86 gph		
Mini Flo™ Emitter	SF-XX-74XX-XX	0.71 gph	0.86 gph	1.01 gph	1.19 gph	1.35 gph	1.56 gph		
winn Fiorm Emitter	SF-XX-78XX-XX	1.40 gph	1.75 gph	1.98 gph	2.22 gph	2.44 gph	2.82 gph		
	MIL 5	0.51 gph	0.63 gph	0.73 gph	0.81 gph				
Laser Drilled Soaker Hose	MIL 10	0.86 gph	1.06 gph	1.22 gph	1.36 gph				
0001101 11030	ALT 6/12	1.0 gph	1.30 gph	1.6 gph					

Maximum Recommended Length of Run (Feet)

			I.D. of Tubing (inches)												
Model	Nominal Flow	Initial	.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"			
Mouci	Rate	Pressure	Spacing Between Emitters (inches)												
			1	8"	24	4"	30	6"	4	8"	6	0"			
PC Plus™	0.5 gph	20 PSI	350'	440'	415'	535'	530'	68'	640'	820'	740'	970'			
Emitter		30 PSI	460'	590'	550'	710'	700'	900'	850'	1,090'	1,000'	1,290'			
		40 PSI	540'	695'	640'	825'	840'	1,080'	1,020'	1,310'	1,160'	1,500'			
	1.0 gph	20 PSI	220'	280'	265'	340'	340'	440'	410'	530'	480'	620'			
		30 PSI	290'	375'	350'	450'	450'	580'	540'	690'	630'	820'			
		40 PSI	340'	440'	410'	530'	540'	690'	650'	840'	750'	965'			
	2.0 gph	20 PSI	160'	200'	190'	240'	240'	305'	300'	370'	350'	435'			
		30 PSI	210'	265'	255'	320'	325'	405'	390'	490'	460'	575'			
		40 PSI	250'	310'	300'	370'	380'	475'	460'	575'	540'	675'			

DRIPLINE – TECHNICAL INFORMATION

Maximum Recommended Length of Run (Feet)

									S	pacing I	Between	Emitter	s (inche	5)						
	Nomi- nal	Initial		12"			18"			24"			36"			48"			60"	
Model	Flow Rate	Pressure									Tubin	g Size								
			.630" OD	.710" 0D	.830" OD															
Dura Flo™	0.5 gph	20 PSI	180'	240'	N/A	250'	340'	N/A	300'	420'	N/A	400'	550'	N/A	490'	680'	N/A	570'	790'	N/A
Emitter- line	1.0 gph	20 PSI	130'	180'	N/A	170'	240'	N/A	210'	300'	N/A	270'	390'	N/A	340'	480'	N/A	390'	550'	N/A
	2.0 gph	20 PSI	95'	120'	N/A	125'	150'	N/A	150 '	190'	N/A	200'	250'	N/A	250'	310'	N/A	285'	360'	N/A
			.640" OD	.700" OD	.830" OD	.640" OD	.700" 0D	.830" OD												
		15 PSI	180'	210'	315'	255'	300'	495'	325'	380'	560'	455'	525'	780'	560'	650'	950'	655'	760'	1,090'
	0.5 gph	25 PSI	265'	315'	460'	380'	450'	660'	485'	570'	825'	675'	780'	1,160'	850'	975'	1,420'	990'	1,140'	1,630'
		35 PSI	325'	380'	565'	460'	540'	790'	580'	685'	990'	810'	940'	1,400'	1,020'	1,175'	1,700'	1,190'	1,375'	1,950'
		45 PSI	365'	430'	625'	520'	610'	890'	660'	775'	1,120'	920'	1,065'	1,580'	1,150'	1,330'	1,930'	1,345'	1,555'	2,200'
Dura Flow PC™		15 PSI	130'	155'	215'	185'	220'	315'	240'	280'	380'	330'	380'	540'	410'	475'	660'	480'	555'	755'
Emitter-	1.0 gph	25 PSI	195'	230'	330'	280'	330'	460'	355'	420'	575'	485'	570'	840'	615'	715'	970'	720'	835'	1,080'
inic	no gpi	35 PSI	240'	280'	395'	335'	395'	560'	430'	505'	690'	585'	690'	970'	740'	860'	1,190'	865'	1,005'	1,360'
		45 PSI	265'	315'	445'	380'	450'	625'	485'	570'	775'	660'	780'	1,100'	835'	975'	1,335'	975'	1,140'	1,530'
		15 PSI	85'	100'	150'	125'	145'	200'	155'	180'	250'	215'	245'	350'	260'	305'	430'	300'	355'	495'
	2.0 gph	25 PSI	125'	150'	215'	180'	215'	300'	230'	270'	380'	315'	365'	520'	400'	455'	640'	470'	530'	730'
	2.0 gpli	35 PSI	150'	180'	265'	215'	255'	330'	270'	320'	460'	380'	440'	635'	480'	550'	775'	560'	645'	890'
		45 PSI	170'	200'	295'	250'	290'	410'	305'	360'	510'	430'	500'	715'	540'	625'	875'	630'	730'	1,000'

Model	Nomi	Nominal Flow Rate		nitial Pressure		Spacing Between Emitters (inches)							
mouch					12"		18"	24"		30"		36"	
Mini Flo™	0.5 g	ph	20 PS	I		20'		25'	30'		35'		40'
Emitter	1.0 gph		20 PSI			12'		15'	18'		21'		24'
Model		Nominal Flow Rate		Spacing	Μ	laximum Run		Model	Nominal Flow Rate		Spacing		Maximum Run
Dura Flo™ JR	Mini	0.5 gph		6"		19 ft.		Laser Drilled	1.0 gph		6"		12 ft.
Dripperline		0.5 anh		12"		33 ft		Soaker Hose (1/4")	1.0 anh	1.0 aph			20 ft

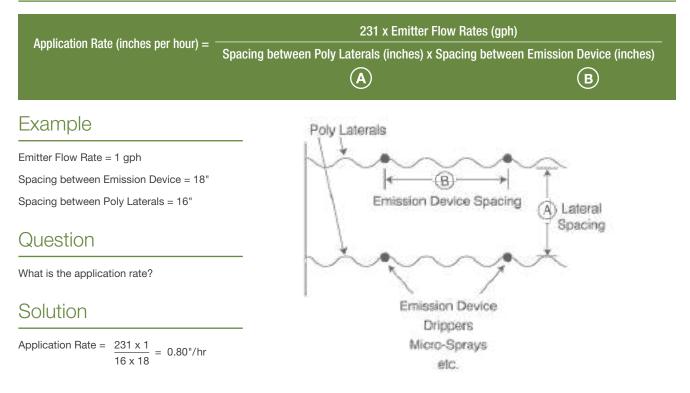
Calculations are based on: 1. No elevation changes over length of run. 2. Maximum allowable variation in discharge rate of ±7.5%.

Refer to Technical Specifications Document for Flowcharts and Run Length Information at **ndspro.com/specifications**



DRIPLINE – TECHNICAL INFORMATION

The Following Formula Should be Used to Calculate Application Rates



Drip Application Rates (Inches/Hour) - Based on Nominal Flow Rates

		1/2 gph									
E-mitter Oncesion					Spacing	between Poly	Laterals				
Emitter Spacing	12"	13"	14"	15"	16"	17"	18"	19"	20"	22"	24"
12"	.80	.74	.69	.64	.60	.57	.53	.51	.48	.44	.40
18"	.53	.49	.46	.43	.40	.38	.36	.34	.32	.29	.27
24"	.40	.37	.34	.32	.30	.28	.26	.25	.24	.22	.20

		1 gph									
Emitter Creating		Spacing between Poly Laterals									
Emitter Spacing	12"	13"	14"	15"	16"	17"	18"	19"	20"	22"	24"
12"	1.60	1.48	1.38	1.28	1.20	1.14	1.06	1.02	.96	.88	.80
18"	1.07	.99	.92	.86	.80	.75	.71	.68	.64	.58	.53
24"	.80	.74	.69	.64	.60	.57	.53	.51	.48	.44	.40

		2 gph									
Emitter Spacing		Spacing between Poly Laterals									
	12"	13"	14"	15"	16"	17"	18"	19"	20"	22"	24"
12"	3.20	2.96	2.75	2.56	2.40	2.28	2.12	2.04	1.92	1.76	1.60
18"	2.14	1.98	1.84	1.72	1.60	1.50	1.42	1.36	1.28	1.16	1.06
24"	1.60	1.48	1.38	1.28	1.20	1.14	1.06	1.02	.96	.88	.80

Pressure Compensating



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
AccuFlow [™]					
AFPC 5	1/2 gph Pressure Compensating AccuFlow™ Emitter	Blue	100/N/A	N/A	21DI
AFPC 5/25	1/2 gph Pressure Compensating AccuFlow™ Emitter	Blue	25/N/A	N/A	21DI
AFPC 5/1000	1/2 gph Pressure Compensating AccuFlow™ Emitter	Blue	1,000/N/A	N/A	21DI
AFPC 10	1 gph Pressure Compensating AccuFlow™ Emitter	Black	100/N/A	N/A	21DI
AFPC 10/25	1 gph Pressure Compensating AccuFlow™ Emitter	Black	25/N/A	N/A	21DI
AFPC 20	2 gph Pressure Compensating AccuFlow™ Emitter	Red	100/N/A	N/A	21DI
AFPC 20/25	2 gph Pressure Compensating AccuFlow™ Emitter	Red	25/N/A	N/A	21DI
AFPC 50	5 gph Pressure Compensating AccuFlow™ Emitter	Tan	100/N/A	N/A	21DI
AFPC 50/25	5 gph Pressure Compensating AccuFlow™ Emitter	Tan	25/N/A	N/A	21DI
AFPC 50/1000	5 gph Pressure Compensating AccuFlow™ Emitter	Tan	1,000/N/A	N/A	21DI

Non-Pressure Compensating

FAN

360

180

	Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
	Dial-a-Flo™					
	DAFB 360	360°, 8 Stream, 0-10 gph, 1/4" Barbed, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.5	21DI
)	DAFB 180	180°, 5 Stream, 0-10 gph, 1/4" Barbed, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.5	21DI
	DAFB FAN	360°, Fan Spray, 0-20 gph, 1/4" Barbed, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.6	21DI
	DAFB BUB	Umbrella Bubbler, 0-25 gph, 1/4" Barbed, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.7	21DI
	DAFT 360	360°, 8 Stream, 0-10 gph, 10/32 NDS Threads,Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.6	21DI
	DAFT 180	180°, 5 Stream, 0-10 gph, 10/32 NDS Threads, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.6	21DI
	DAFT FAN	360°, Fan Spray, 0-20 gph, 10/32 NDS Threads, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.7	21DI
	DAFT BUB	Umbrella Bubbler, 0-25 gph, 10/32 NDS Threads, Adjustable Dial-a-Flo™ Emitter	Black	100/2,500	0.8	21DI
	DAFS 360	360°, 8 Stream, 0-10 gph, Adjustable Dial-a-Flo™ Emitter with 6" Stake	Black	100/1,000	1.4	21DI
	DAFS 180	180°, 5 Stream, 0-10 gph, Adjustable Dial-a-Flo™ Emitter with 6" Stake	Black	100/1,000	1.4	21DI
	DAFS 135	135°, 4 Stream, 0-10 gph, Adjustable Dial-a-Flo™ Emitter with 6" Stake	Black	100/1,000	1.4	21DI
	DAFS BUB	Umbrella Bubbler, 0-25 gph, Adjustable Dial-a-Flo™ Emitter with 6" Stake	Black	100/1,000	1.5	21DI

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DIAL-A-FLO™
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FAN

BUB

360 180

BUB

PROFESSIONAL IRRIGATION



BUB

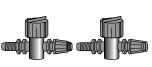
Non-Pressure Compensating (continued)



360 FAN 180 DIAL-A-FLO™



SUPER-FLO™









HYDRO-FLO™

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
Dial-a-Flo™ (cont.)					
DAFU 360	360°, 8 Stream, 0-10 gph, 1/2" FIPT, Adjustable Dial-a-Flo™ Emitter	Black	50/500	1.8	21DI
DAFU 180	180°, 5 Stream, 0-10 gph, 1/2" FIPT, Adjustable Dial-a-Flo™ Emitter	Black	50/500	1.7	21DI
dafu fan	360°, Fan Spray, 0-20 gph, 1/2" FIPT, Adjustable Dial-a-Flo™ Emitter	Black	50/500	1.8	21DI
DAFU BUB	Umbrella Bubbler, 0-25 gph, 1/2" FIPT, Adjustable Dial-a-Flo™ Emitter	Black	50/500	1.9	21DI
Super-Flo™					
TAE 10	1 gph, Laminar Flow, Take-Apart Super-Flo™ Emitter	Black	100/2,000	0.4	21DI
TAE 20	2 gph, Laminar Flow, Take-Apart Super-Flo™ Emitter	Green	100/2,000	0.4	21DI
TAE 40	4 gph, Laminar Flow, Take-Apart Super-Flo™ Emitter	Yellow	100/2,000	0.4	21DI
Hydro-Flo™					
VF	0-25 gph, Hydro-Flo™ Adjustable Jet Body Only	Black	100/500	0.4	21DI
VF 360	0-25 gph, Hydro-Flo™ Adjustable Jet (360° Pattern – Stream Spray, 10-32 NFT Inlet)*	Black	100/500	0.5	21DI
VF 180	0-25 gph, Hydro-Flo™ Adjustable Jet (180° Pattern – Fan Spray, 10-32 NFT Inlet)*	Black	100/500	0.5	21DI
VF 90	0-25 gph, Hydro-Flo™ Adjustable Jet (90° Pattern – Fan Spray, 10-32 NFT Inlet)*	Black	100/500	0.5	21DI
*Uses SAJ Adapter (page	117)				
TFC 360	Cap-360°, 12 Finger Spray Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TFC 180	Cap-180°, Fan Spray Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TFC 90	Cap-90°, Fan Spray Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TFC 33	Cap-Strip Fan Spray Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TFB 30	Base-0.030" Nozzle Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TFB 40	Base-0.040" Nozzle Hydro-Flo™ Jet	Blue	100/2,500	0.1	21DI
TFB 50	Base-0.050" Nozzle Hydro-Flo™ Jet	Green	100/2,500	0.1	21DI
TFB 60	Base-0.060" Nozzle Hydro-Flo™ Jet	Red	100/2,500	0.1	21DI
TFB 70	Base-0.070" Nozzle Hydro-Flo™ Jet	White	100/2,500	0.1	21DI
TF 436	0.040" Nozzle, 360° Fan Spray Single-Piece Hydro-Flo™ Jet	Blue	100/2,500	0.1	21DI
TF 536	0.050" Nozzle, 360° Fan Spray Single-Piece Hydro-Flo™ Jet	Green	100/2,500	0.1	21DI
TF 636	0.060" Nozzle, 360° Fan Spray Single-Piece Hydro-Flo™ Jet	Red	100/2,500	0.1	21DI
TF 318	0.030" Nozzle, 180° Fan Spray Single-Piece Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TF 418	0.040" Nozzle, 180° Fan Spray Single-Piece Hydro-Flo™ Jet	Blue	100/2,500	0.1	21DI
TF 518	0.050" Nozzle, 180° Fan Spray Single-Piece Hydro-Flo™ Jet	Green	100/2,500	0.1	21DI
TF 618	0.060" Nozzle, 180° Fan Spray Single-Piece Hydro-Flo™ Jet	Red	100/2,500	0.1	21DI
TF 39	0.030" Nozzle, 90° Fan Spray Single-Piece Hydro-Flo™ Jet	Black	100/2,500	0.1	21DI
TF 49	0.040" Nozzle, 90° Fan Spray Single-Piece Hydro-Flo™ Jet	Blue	100/2,500	0.1	21DI
TF 59	0.050" Nozzle, 90° Fan Spray Single-Piece Hydro-Flo™ Jet	Green	100/2,500	0.1	21DI
TF 69	0.060" Nozzle, 90° Fan Spray Single-Piece Hydro-Flo™ Jet	Red	100/2,500	0.1	21DI

PROFESSIONAL IRRIGATION

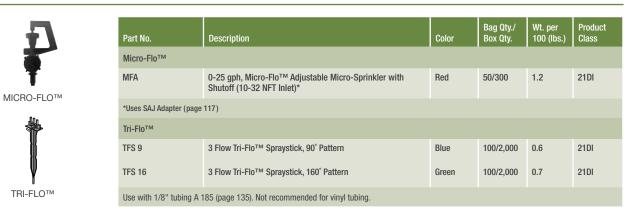
Product Catalog 2021 118

RootWise™

ROOTWISE™

	Part No.	Description	Color	Bag Qty./ Box Qty.	Product Class
	RootWise™				
	RW16N	16" Diameter 360° Watering Pad	Black	1/8	21DI
ſ	RW16N6P	16" Diameter 360° Watering Pad	Black	6/N/A	21DI

Non-Pressure Compensating



Risers & Accessories



HYDRO-POP™



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
Hydro-Pop™					
HYP 250	Hydro-Pop™ Pop-up Riser with 1/4" Compression Fit Inlet Maximum 9" Extension (Minimum Pressure Required = 15 PSI)	Black	25/100	12.9	21DI
HYP 500	Hydro-Pop™ Pop-up Riser with 1/2" MPT Inlet Maximum 9" Extension (Minimum Pressure Required = 15 PSI)	Black	25/100	13.1	21DI
HYPJ 250	Hydro-Pop™ Pop-up Riser with 1/4" Compression Fit Inlet Maximum 5" Extension (Minimum Pressure Required = 15 PSI)	Black	25/150	9.7	21DI
HYPJ 500	Hydro-Pop™ Pop-up Riser with 1/2" MPT Inlet Maximum 5" Extension (Minimum Pressure Required = 15 PSI)	Black	25/150	10.0	21DI
PUPS	Hydro-Pop™ Protector Sleeve (Use with TF, DAFT, MF, VF, AF)	Black	25/100	4.3	21DI

Risers & Accessories (continued)

	Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
	R 6	6" Riser Extension (0.160" ID x 0.300" 0D)	Black	100/2,000	1.0	21DI
	R 8	8" Riser Extension (0.160" ID x 0.300" 0D)	Black	100/1,500	1.4	21DI
	R 12	12" Riser Extension (0.160" ID x 0.300" 0D)	Black	100/1,000	2.1	21DI
	R 18	18" Riser Extension (0.160" ID x 0.300" 0D)	Black	100/600	3.1	21DI
	RATT 6	6" Riser (0.160" ID) with Threaded Adapter	Black	100/1,500	1.2	21DI
	RATT 8	8" Riser (0.160" ID) with Threaded Adapter	Black	100/1,500	1.5	21DI
	RATT 12	12" Riser (0.160" ID) with Threaded Adapter	Black	100/1,000	2.2	21DI
	RATT 18	18" Riser (0.160" ID) with Threaded Adapter	Black	N/A/600	3.2	21DI
	RABB 8	8" Riser (.160" ID) with Barbed Adapter	Black	100/N/A	1.5	21DI
	RABB 12	12" Riser (.160" ID) with Barbed Adapter	Black	100/N/A	2.2	21DI
	RABB 18	18" Riser (.160" ID) with Barbed Adapter	Black	100/N/A	3.2	21DI
	RABT 6	6" Riser (0.160" ID) with Barbed Adapter	Black	100/1,500	1.1	21DI
	RABT 8	8" Riser (0.160" ID) with Barbed Adapter	Black	100/1,500	1.5	21DI
	RABT 12	12" Riser (0.160" ID) with Barbed Adapter	Black	100/1,000	2.2	21DI
	RABT 18	18" Riser (0.160" ID) with Barbed Adapter	Black	N/A/600	3.2	21DI
	S5R6	6" Riser (R6) Pre-assembled onto Elbow Stake (S5)	Black	100/400	2.5	21DI
C	S5R8	8" Riser (R8) Pre-assembled onto Elbow Stake (S5)	Black	100/400	2.8	21DI
	S5R12	12" Riser (R12) Pre-assembled onto Elbow Stake (S5)	Black	100/600	3.6	21DI
	CMAP 6	6" Riser Assembly (1/2" MIPT x 0.160" ID/0.300" OD PE Tubing)	Black	100/200	2.8	21DI
	CMAP 12	12" Riser Assembly (1/2" MIPT x 0.160" ID/0.300" OD PE Tubing)	Black	100/200	3.6	21DI

Stake Assemblies

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
TA 24-1XY	Jet Assembly Comprising 2-Piece Hydro-Flo™ Jet, 24" Vinyl Tubing with Connector and S 12 Stake X=F (For 360°). H (For 180°). Q (For 90°) Y=3 (Black Base). 4 (Blue Base). 5 (Green Base) 6 (Red Base). 7 (White Base)	Specify	N/A/200	10.9	21DI
TA 24-2XY	Jet Assembly Comprising 1-Piece Hydro-Flo™ Jet, 24" Vinyl Tubing with Connector and S 12 Stake X=F (For 360°). H (For 180°). Q (For 90°) Y=3 (Black Orifice). 4 (Blue Orifice). 5 (Green Orifice) 6 (Green Orifice). 7 (Red Orifice)	Specify	N/A/200	10.8	21DI
TA 24-3X	Jet Assembly Comprising Adjustable Hydro-Flo [™] Jet, 24" Vinyl Tubing with Connector and S 12 Stake X=F (For 360°). H (For 180°). Q (For 90°)	Black	N/A/200	11.2	21DI
TA 24-4	Assembly Comprising 24" Vinyl Tubing, Connector and S 12 Stake (No Jet)	Black	N/A/200	10.7	21DI
TA 24-5	Emitter Assembly Comprising Dial-a-Flo™ (DAFB 360), 24" Vinyl Tubing with Connector and S 12 Stake	Black	N/A/200	11.2	21DI
TA 24-6	Jet Assembly Comprising Adjustable Micro-Flo™ Sprinkler (MFA), 24" Vinyl Tubing with Connector and S 12 Stake	Black	N/A/200	11.9	21DI
TA 24-7	Assembly Comprising 24" Vinyl Tubing with Connector, Valve for Flow Adjustment and S 12 Stake	Black	N/A/200	11.1	21DI

MULTI-OUTLET DEVICES

Fixed Flow Rate Devices



CUATRO-FLO™

MAXI-FLO™

Bag Qty./ Box Qty. Wt. per 100 (lbs.) Product Class Color Part No. Description Cuatro-Flo™ 2 gph/Outlet Bubbler, 4 Swivel Barbed Outlets 1/2" FIPT, 21DI CFL 2 Blue 25/100 5.5 Pressure Compensating Cuatro-Flo™ Bubbler 6 gph/Outlet Bubbler, 4 Swivel Barbed Outlets 1/2" FIPT, CFL 6 25/100 21DI Black 5.5 Pressure Compensating Cuatro-Flo™ Bubbler 10 gph/Outlet Bubbler, 4 Swivel Barbed Outlets 1/2" FIPT, CFL 10 Red 25/100 5.5 21DI Pressure Compensating Cuatro-Flo™ Bubbler 20 gph/Outlet Bubbler, 4 Swivel Barbed Outlets 1/2" FIPT, **CFL 20** Green 25/100 5.5 21DI Pressure Compensating Cuatro-Flo™ Bubbler Maxi-Flo™ 2 gph/Outlet, 1/2" FIPT, 6 Swivel Barbed Outlets, MFBL 2 Blue 25/100 10.2 21DI Compensating Maxi-Flo™ Bubbler 6 gph/Outlet, 1/2" FIPT, 6 Swivel Barbed Outlets, MFBL 6 Black 25/100 10.2 21DI Compensating Maxi-Flo[™] Bubbler 10 gph/Outlet, 1/2" FIPT, 6 Swivel Barbed Outlets, MFBL 10 Red 25/100 10.2 21DI Compensating Maxi-Flo™ Bubbler 20 gph/Outlet, 1/2" FIPT, 6 Swivel Barbed Outlets, MFBL 20 21DI 25/100 10.2 Green Compensating Maxi-Flo™ Bubbler

Adjustable Flow Rate Devices



Part No. Hydroport™ HPAM 4 HPAM 8

Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
0-20 gph, Adjustable Flow, 1/2" FIPT, 4 Port Outlet Hydroport™ Adjustable Manifold	Black	10/30	30.0	21DI
0-20 gph, Adjustable Flow, 1/2" FIPT, 8 Port Outlet Hydroport™ Adjustable Manifold	Black	10/30	30.0	21DI



MULTI-OUTLET DEVICES

Bubbler Accessories

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
PC 250	Port Cap for Unused Outlets on Maxi-Flo TM (MFBL), Cuatro-Flo TM (CFL)	Black	100/2,500	0.1	21DI
OP 250	Outlet Plug for up to 2 Unused Outlets on Cuatro-Flo™ (CF) Drip Bubbler	Black	100/2,000	0.1	21DI

Spare Parts



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
ELI	Replacement Swivel Elbow for MFBL, CFL and PF Bubblers	Black	10/100	0.2	21DI
D 80 H	Replacement Diaphragm for Cuatro-Flo™ (CF) Bubbler	Black	10/20	0.1	21DI



ADJUSTABLE EMITTERS – TECHNICAL INFORMATION

		Discharge (gph)										
Radius (Feet)	VF90	VF180	VF360									
1 FT.	—	—	4.0 gph									
2 FT.	—	6.5 gph	5.7 gph									
3 FT.	12.4 gph	8.3 gph	7.8 gph									
4 FT.	14.5 gph	10.2 gph	10.5 gph									
5 FT.	16.2 gph	12.1 gph	12.7 gph									
6 FT.	18.6 gph	14.5 gph	14.8 gph									
7 FT.	20.1 gph	17.1 gph	16.8 gph									
8 FT.	23.0 gph	21.8 gph	18.0 gph									
9 FT.	25.3 gph	26.4 gph	21.2 gph									
10 FT.	27.6 gph	_	23.5 gph									
11 FT.	29.3 gph	—	25.6 gph									
12 FT.	—	—	27.6 gph									

Hydro-Flo™ Jet (Adjustable) Model VF90 / VF180 / VF360

Micro-Flo™ Micro-Sprinkler Model MFA

Discharge (

Radius (Feet)

Dial-a-Flo™ Emitters

gph)	Part No.	Patterr
	DAFB-360 / DAFT-360 DAFS-360 / DAFU-360	*
	DAFB-180 / DAFT-180 DAFS-180 / DAFU-180	¥
	DAFB-FAN / DAFT-FAN DAFS-FAN / DAFU-FAN	
	DAFB-BUB / DAFT-BUB DAFS-BUB / DAFU-BUB	•

Model DAFB-360 / DAFT-360 / DAFS-360 / DAFU-360

Position	20	PSI	30	PSI	40	PSI
POSILION	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph 0"		0 gph 0"		0 gph	0"
1	1.8 gph	0"	2.3 gph	0"	2.7 gph	0"
2	2.4 gph	0"	3.1 gph	0"	3.5 gph	2"
3	3.0 gph	0"	3.9 gph	2"	4.6 gph	3"
4	3.7 gph	3.7 gph 2" 4		3"	5.6 gph	4"
5	4.4 gph	3"	5.7 gph	4"	6.7 gph	5"
6	5.0 gph	4"	6.5 gph	6"	7.6 gph	8"
7	5.6 gph	5"	7.2 gph	7"	8.4 gph	10"
8	6.2 gph	6"	8.1 gph	9"	9.1 gph	12"
1+	7.0 gph 7"		9.1 gph 11"		10.4 gph	14"
2+	7.9 gph	9"	10.3 gph	12"	11.7 gph	16"

Model DAFB-180 / DAFS-180 / DAFU-180

Position	20	PSI	30	PSI	40	PSI
POSILIOII	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph	gph 0"		0"	0 gph	0"
	1.8 gph	1.8 gph 4"		6"	2.7 gph	9"
2	2.4 gph 7"		3.1 gph 10"		3.5 gph	13"
3	3.0 gph 9"		3.9 gph	13"	4.6 gph	18"
4	3.7 gph	11"	4.8 gph	16"	5.6 gph	24"
	4.4 gph	13"	5.7 gph	19"	6.7 gph	30"
6	5.0 gph	15"	6.5 gph	24"	7.6 gph	35"
7	5.6 gph	18"	7.2 gph	27"	8.4 gph	40"
8	6.2 gph	21"	8.1 gph	30"	9.1 gph	44"
1+	7.0 gph	24"	9.1 gph	33"	10.4 gph	46"
2+	7.9 gph	26"	10.3 gph	36"	11.7 gph	48"

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Model DAFB-FAN / DAFS-FAN / DAFU-FAN

Desition	20	PSI	30	PSI	40	PSI
Position	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph	0"	0 gph	0"	0 gph	0"
	3.8 gph 0"		5.0 gph	0"	5.8 gph	0"
2	6.3 gph	0"	8.2 gph	12"	9.5 gph	18"
3	9.5 gph	18"	12.4 gph	24"	14.3 gph	36"
4	10.6 gph 21"		13.6 gph	30"	16.0 gph	42"
	11.4 gph	24"	14.8 gph	36"	17.1 gph	48"
6	12.1 gph	27"	15.6 gph	42"	18.1 gph	54"
7	13.0 gph	30"	16.5 gph	48"	19.0 gph	57"
8	13.5 gph	33"	17.1 gph	52"	20.0 gph	59"
1+	14.0 gph	35"	18.1 gph 54"		20.9 gph	61"
2+	14.3 gph	36"	18.7 gph	56"	21.6 gph	62"

Model DAFB-BUB / DAFS-BUB / DAFU-BUB / DAFT-BUB

Desition	20	PSI	30	PSI	40	PSI
Position	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph 0"		0 gph	0"	0 gph	0"
1	3.8 gph	0"	5.0 gph	0"	5.8 gph	0"
2	6.3 gph	0"	8.2 gph	0"	9.5 gph	0"
3	9.5 gph 0"		12.4 gph	0"	14.3 gph	1"
4	10.6 gph	0"	13.6 gph	1"	16.0 gph	2"
5	11.4 gph	1"	14.8 gph	1"	17.1 gph	3"
6	12.1 gph	1"	15.6 gph	2"	18.1 gph	3"
7	13.0 gph	1"	16.5 gph	2"	19.0 gph	4"
8	13.5 gph	1"	17.1 gph	3"	20.0 gph	4"
1+	14.0 gph	2"	18.1 gph	3"	20.9 gph	5"
2+	14.3 gph	2"	18.7 gph	4"	21.6 gph	5"



TECHNICAL INFORMATION – DRIP & MICRO-SPRAY EMITTERS

Discharge Rates (GPH)

Model	Part No.	10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	40 PSI	60 PSI	80 PSI
Maxi-Flo™ Bubbler	Maxi-Flo™ Bubbler MFBL 2			2.2 gph	2.3 gph	2.4 gph	2.5 gph	2.6 gph	2.6 gph
	MFBL 6			5.7 gph	6.3 gph	6.9 gph	7.7 gph	9.1 gph	9.5 gph
	MFBL 10			9.0 gph	9.7 gph	10.4 gph	11.6 gph	14.1 gph	15.3 gph
	MBFL 20			16.4 gph	17.7 gph	19.0 gph	22.1 gph	26.7 gph	28.2 gph
Hydroport™	HPAM 4	7.0 gph (Max)	10.0 gph (Max)	12.0 gph (Max)	13.0 gph (Max)	14.0 gph (Max)	16.0 gph (Max)	20.0 gph (Max)	
	HPAM 8	7.0 gph (Max)	10.0 gph (Max)	12.0 gph (Max)	13.0 gph (Max)	14.0 gph (Max)	16.0 gph (Max)	20.0 gph (Max)	
Super-Flo™ Emitter	TAE 10	0.56 gph	0.70 gph	0.80 gph	0.89 gph	0.97 gph			

Maximum Recommended Length of Run (Feet)

Hydro-Flo™ Jets, Micro-Flo™ Micro-Sprinkler

		I.D. of Tubing (inches)												
Orifice	Initial	.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	
	Pressure	Average Spacing Between Jets (feet)												
		6'			9'			12'			15'			
0.030"	20 PSI	210'	400'	620'	275'	520'	810'	340'	645'	1,000'	385'	730'	1,130'	
0.040"	20 PSI	140'	265'	415'	185'	350'	545'	225'	425'	600'	250'	475'	735'	
0.050"	20 PSI	110'	210'	325'	145'	275'	425'	175'	330'	515'	195'	370'	575'	
0.060"	20 PSI	85'	160'	250'	110'	210'	330'	135'	255'	400'	150'	290'	450'	

Tri-Flo™ Spray Stick

Model Flow No			I.D. of Tubing (inches)											
	Flow Node	Initial Pressure	.600"	.820"	.600"	.820"	.600"	.820"	.600"	.820"	.600"	.820"		
			Average Spacing Between Spray Sticks (inches)											
			1:	2"	24	1 "	31	6"	48	8"	60)"		
	Low	20 PSI	75'	140'	115'	220'	150'	285'	180'	340'	210'	400'		
TFS 9	Medium	20 PSI	55'	105'	85'	160'	110'	205'	135'	250'	155'	290'		
	High	20 PSI	45'	85'	70'	130'	90'	170'	110'	205'	125'	235'		
	Low	20 PSI	55'	105'	85'	160'	110'	205'	135'	250'	155'	290'		
TFS 16	Medium	20 PSI	45'	85'	70'	130'	90'	170'	110'	205'	125'	235'		
	High	20 PSI	35'	65'	55'	105'	75'	140'	90'	170'	105'	200'		

TECHNICAL INFORMATION – MICRO SPRAY EMITTERS

Discharge Rates (GPH) / Radius (feet)

		15 P	'SI	20 P	'SI	25 P	SI	30 F	PSI	40 P	SI	45 P	SI
Model	Part No.	Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius
	TFB 30 (Black)	4.8 gph	5.0'	5.5 gph	6.0'	6.2 gph	7.0'	6.8 gph	8.0'				
	TFB 40 (Blue)	8.8 gph	7.0'	10.4 gph	8.0'	11.7 gph	8.0'	12.9 gph	9.0'				
	TFB 50 (Green)	13.8 gph	8.0'	15.8 gph	9.0'	17.7 gph	9.0'	19.5 gph	10.0'				
	TFB 60 (Red)	20.0 gph	8.0'	23.3 gph	9.0'	26.3 gph	10.0'	28.9 gph	11.0'				
	TFB 70 (White)	32.9 gph	9.0'	37.6 gph	10.0'	42.5 gph	11.0'	46.6 gph	12.0'				
	TF 336 (Black)	4.8 gph	4.0'	5.5 gph	4.5'	6.2 gph	5.0'	6.8 gph	5.0'				
	TF 436 (Blue)	8.8 gph	4.5'	10.4 gph	5.0'	11.7 gph	5.5'	12.9 gph	5.5'				
	TF 536 (Green)	13.8 gph	5.0'	15.8 gph	5.5'	17.7 gph	6.0'	19.5 gph	6.0'				
Hydro-Flo™ Jet	TF 636 (Red)	20.0 gph	5.0'	23.3 gph	5.5'	26.3 gph	6.0'	28.9 gph	6.5'				
	TF 318 (Black)	4.8 gph	3.0'	5.5 gph	3.5'	6.2 gph	4.0'	6.8 gph	4.5'				
	TF 418 (Blue)	8.8 gph	3.5'	10.4 gph	4.0'	11.7 gph	4.5'	12.9 gph	5.0'				
	TF 518 (Green)	13.8 gph	4.0'	15.8 gph	4.5'	17.7 gph	5.0'	19.5 gph	5.5'				
	TF 618 (Red)	20.0 gph	4.5'	23.3 gph	5.0'	26.3 gph	5.5'	28.9 gph	6.0'				
	TF 39 (Black)	4.8 gph	4.0'	5.5 gph	4.5'	6.2 gph	5.5'	6.8 gph	6.0'				
	TF 49 (Blue)	8.8 gph	4.5'	10.4 gph	5.0'	11.7 gph	5.5'	12.9 gph	6.0'				
	TF 59 (Green)	13.8 gph	4.5'	15.8 gph	5.5'	17.7 gph	6.0'	19.5 gph	6.5'				
	TF 69 (Red)	20.2 gph	5.0'	23.3 gph	5.5'	26.3 gph	6.0'	28.9 gph	6.5'				
	AF 3xx (Black)	5.7 gph	5.0'	6.5 gph	6.0'	7.3 gph	7.0'	8.0 gph	8.0'				
	MF 35 (Orange)	6.6 gph	6.0'	7.7 gph	7.0'	8.6 gph	8.0'	9.4 gph	8.0'				
Micro-Flo™ Micro-Sprinkler	MF 40 (Blue)	8.6 gph	7.0'	10.0 gph	8.0'	11.3 gph	9.0'	12.4 gph	9.0'				
inere oprinder	MF 50 (Green)	13.6 gph	8.0'	16.0 gph	9.0'	17.9 gph	10.0'	19.7 gph	10.0'				
	TFS 9 - Low	4.8 gph	1.0'	5.3 gph	1.5'	6.0 gph	2.0'						
	TFS 9 - Medium	7.1 gph	1.5'	7.9 gph	2.0'	9.0 gph	2.5'						
Tri-Flo™	TFS 9 - High	9.5 gph	3.0'	10.6 gph	3.5'	12.0 gph	4.0'						
Spray Stick	TFS 16 - Low	7.1 gph	1.5'	7.9 gph	2.0'	9.0 gph	2.5'						
	TFS 16 - Medium	9.5 gph	2.5'	10.6 gph	3.0'	12.0 gph	3.5'						
	TFS 16 - High	14.3 gph	3.5'	15.9 gph	4.0'	18.0 gph	4.5'						
Misti-Flo™ Mister	MFM 4	3.7 gph	4.5'	4.4 gph	5.0'	5.0 gph	5.5'	5.5 gph	6.0'	5.9 gph	6.5'	63 gph	7.0'
Model	Part No.			Patte	rn	Mode	I	F	Part No.			Patte	ern
	TFC 360			Ż			TMO		IFS 9			-	
	TFC 300			*		Iri-Fi	o™ Spray		TFS 16				
	TFC 180, TF 318, TF	418, TF 518	, TF 618	\$***									
Hydro-Flo™ Jet	TFC 90, TF 39, TF 4	9, TF 59, TF 6	69	14									
	TF 336, TF 436, TF	536, TF 636		316 48									
	TFC 33												

Flushing Characterisitcs of Compensating Emitters*

Nominal Flow	Peak Flush Flow	Peak Flush Pressure
1	1.6 gph	3 PSI
2	3.0 gph	3 PSI

*Includes Mono Flo™ and Uni Flo™ Classic emitters.



FITTINGS & ACCESSORIES

Smart-Loc™ Multi-Diameter Fittings

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CMAP 75-18	3/4" Male Pipe Thread Adaptor (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
SLC 18	Coupling (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CEP 18	End Plug (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CEL 18	Elbow (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CMAH 18	Male Hose Thread Adaptor (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CSA 18	Swivel Adaptor Female Hose Thread (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CMAP 5-18	1/2" Male Pipe Thread Adaptor (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI
CT 18	Tee (Fits 16mm, 17mm & 18mm Tubing)	Black	25/250	0.375	21DI

Specifications

- Connect 16mm-18mm 1/2" polyethylene tubing
- Reduces Inventory
- Ideal for Tubing Repairs
- Durable Under the Most Demanding Conditions
- 8-80 PSI
- Accepts tubing OD of .620" to .710" (16mm-18mm)
- Made from UV-resistant, high-quality ABS material
- Reusable design Tubing can be inserted & removed without damaging the fitting

WORKS WITH DURA FLO[™] DRIPLINE

and parts A620, A660, A700, A710 Supply Tubing



17MM Insert Fittings

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
BTMA 1750	17mm Insert x 1/2" MPT Adapter	Brown	10/bag	1.71	21DI
BTMA 1775	17mm Insert x 3/4" MPT Adapter	Brown	10/bag	2.40	21DI
BV 17	17mm Insert Ball Valve	Black	-	4.10	21DI
C 17	17mm Insert Coupling	Brown	25/bag	2.25	21DI
CX 17	17mm Insert Cross	Brown	-	-	21DI
EL 17	17mm Insert Elbow	Brown	25/bag	1.32	21DI
T 17	17mm Insert Tee	Brown	25/bag	1.73	21DI
TMA 1750	17mm Insert Tee x 1/2" MPT Adapter	Brown	-	2.35	21DI
YMA 1775	17mm Insert Y x 3/4" MPT Adapter	Brown	-	4.15	21DI



Compression Solvent Weld Adapters









Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CA 250	Compression Adapter (1/2" Slip x .250" OD Tubing)	Orange	100/2,000	0.6	21DI
Use w/A 250 Tu	bing (1/4" Tubing)				
CA 300	Compression Adapter (1/2" Slip x .307" OD Tubing)	Grey	100/2,000	0.6	21DI
CA 500	Compression Adapter (1/2" Slip x .455" to .480" OD Tubing)	Red	100/2,000	0.6	21DI
Use w/A 455 Tu	bing (3/8" Tubing)				
CA 600	Compression Adapter (1/2" Slip x .610" to .640" OD Tubing)	Green	100/2,000	0.5	21DI
Use w/A 620 Tu	bing (1/2" Tubing)				
CA 700	Compression Adapter (1/2" Slip x .680" to .704" OD Tubing)	Black	100/2,000	0.4	21DI
Use w/A 700 Tu	bing (1/2" Tubing)				
CA 710	Compression Adapter (1/2" Slip x .704" to .710" OD Tubing)	Blue	100/2,000	0.4	21DI
Use w/A 710 Tu	bing (1/2" Tubing)				
CA 800	Compression Adapter (3/4" Slip x .830" OD Tubing)	Black	100/1,000	0.8	21DI
CA 900	Compression Adapter (3/4" Slip x .940" OD Tubing)	Grey	100/1,000	0.8	21DI
Use w/A 940 Tu	bing (3/4" Tubing)				
LCA 700	1/2" Compression Adapter (Long) (1/2" Slip x .680" to .704" OD Tubing)	Black	50/800	1.3	21DI
Use w/A 700 Tu	bing (1/2" Tubing)				
LCA 710	1/2" Compression Adapter (Long) (1/2" Slip x .704" to .710" OD Tubing)	Blue	50/800	1.3	21DI
Use w/A 710 Tu	bing (1/2" Tubing)				
SA 700	Socket Adapter - ID Bonds Over 1/2" PVC Pipe, OD Bonds into 3/4" PVC Socket	Black	100/600	1.5	21DI
Use w/A 700 Tu	bing (1/2" Tubing)				

Compression Fittings

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Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CC 600	Compression Coupling (Fits .610" to .640" OD Tubing i.e. A 620)	Green	25/1,000	2.8	21DI
CC 700	Compression Coupling (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/1,000	2.8	21DI
CC 710	Compression Coupling (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/1,000	2.7	21DI
CC 800	Compression Coupling (Fits .830" OD Tubing)	Black	25/500	6.0	21DI
CC 900	Compression Coupling (Fits .940" OD Tubing i.e. A 940)	Grey	25/500	5.7	21DI
RCC 6070	Reducing Compression Coupling (600 Series to 700 Series)	Green	25/1,000	2.9	21DI
RCC 6071	Reducing Compression Coupling (600 Series to 710 Series)	Blue	25/1,000	2.8	21DI
RCC 7071	Reducing Compression Coupling (700 Series to 710 Series)	Blue	25/1,000	2.7	21DI
RCC 8090	Reducing Compression Coupling (800 Series to 900 Series)	Black/Grey	25/500	5.7	21DI
RCC 7090	Reducing Compression Coupling (700 Series to 900 Series)	Black/Grey	25/500	4.0	21DI
CEL 600	Compression Elbow (.610" to .640" OD Tubing i.e. A 620)	Green	25/800	3.9	21DI
CEL 700	Compression Elbow (.680" to .704" OD Tubing i.e. A 700)	Black	25/800	3.7	21DI
CEL 710	Compression Elbow (.704" to .710" OD Tubing i.e. A 710)	Blue	25/800	3.7	21DI
CEL 800	Compression Elbow (Fits .830" OD Tubing)	Black	25/500	6.1	21DI
CEL 900	Compression Elbow (Fits .940" OD Tubing i.e. A 940)	Grey	25/500	5.9	21DI
CT 600	Compression Tee (.610" to .640" OD Tubing i.e. A 620)	Green	15/480	5.5	21DI
CT 700	Compression Tee (.680" to .704" OD Tubing i.e. A 700)	Black	15/480	5.2	21DI
CT 710	Compression Tee (.704" to .710" OD Tubing i.e. A 710)	Blue	15/480	5.2	21DI
CT 800	Compression Tee (Fits .830" OD Tubing)	Black	25/300	8.7	21DI
CT 900	Compression Tee (Fits .940" OD Tubing i.e. A 940)	Grey	25/300	8.4	21DI

Compression End Caps

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CEP 600	End Plug with Cap (Fits .610" to .640" OD Tubing i.e. A 620)	Green	25/800	4.0	21DI
CEP 700	End Plug with Cap (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/800	4.0	21DI
CEP 710	End Plug with Cap (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/800	4.0	21DI
CEP 900	End Plug with Cap (Fits .940" OD Tubing i.e. A 940)	Grey	25/600	5.1	21DI
Note: All caps are u	inscrewing caps.				

Compression Male Adapters

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CMAH	3/4" MHT x 1/2" Slip Socket Adapter	Black	50/1,000	1.8	21DI
CMAH 600	3/4" MHT Adapter (Fits .610" to .640" OD Tubing i.e. A 620)	Green	50/1,000	2.3	21DI
CMAH 700	3/4" MHT Adapter (Fits .680" to .704" OD Tubing i.e. A 700)	Black	50/1,000	2.2	21DI
CMAH 710	3/4" MHT Adapter (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	50/1,000	2.2	21DI
CMAH 800	3/4" MHT Adapter (Fits .830" OD Tubing)	Black	25/700	3.4	21DI
CMAH 900	3/4" MHT Adapter (Fits .940" OD Tubing i.e. A 940)	Grey	25/700	3.3	21DI
CMAP 600	3/4" MIPT Adapter (Fits .610" to .640" OD Tubing)	Green	50/1,000	2.2	21DI
CMAP 700	3/4" MIPT Adapter (Fits .680" to .704" OD Tubing)	Black	50/1,000	2.2	21DI
CMAP 710	3/4" MIPT Adapter (Fits .704" to .710" OD Tubing)	Blue	50/1,000	2.1	21DI
CMAP 800	3/4" MIPT Adapter (Fits .830" OD Tubing)	Black	25/800	3.5	21DI
CMAP 900	3/4" MIPT Adapter (Fits .940" OD Tubing)	Grey	25/800	3.3	21DI
CMAP5-600	1/2" MIPT Adapter (Fits .610" to .640" OD Tubing)	Green	50/1,000	1.6	21DI
CMAP5-700	1/2" MIPT Adapter (Fits .680" to .704" OD Tubing)	Black	50/1,000	1.5	21DI
CMAP5-710	1/2" MIPT Adapter (Fits .704" to .710" OD Tubing)	Blue	50/1,000	1.5	21DI



Compression 3/4" Swivel Fittings







Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CSA 600	3/4" FHT Swivel Adapter (Fits .610" to .640" OD Tubing i.e. A 620)	Green	25/800	3.8	21DI
CSA 700	3/4" FHT Swivel Adapter (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/800	3.8	21DI
CSA 710	3/4" FHT Swivel Adapter (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/800	3.6	21DI
CSA 800	3/4" FHT Swivel Adapter (Fits .830" OD Tubing)	Black	25/600	5.0	21DI
CSA 900	3/4" FHT Swivel Adapter (Fits .940" OD Tubing i.e. A 940)	Grey	25/600	4.8	21DI
Note: All adapters in	nclude screens as shown.				
CSAW 600	3/4" FHT Swivel Adapter w/Washer (Fits .610" to .640" OD Tubing)	Green	25/800	3.6	21DI
CSAW 700	3/4" FHT Swivel Adapter w/Washer (Fits .680" to .704" OD Tubing)	Black	25/800	3.5	21DI
CSAW 710	3/4" FHT Swivel Adapter w/Washer (Fits .704" to .710" OD Tubing)	Blue	25/800	3.5	21DI
CSAW 800	3/4" FHT Swivel Adapter w/Washer (Fits .830" OD Tubing)	Black	25/600	4.7	21DI
CSAW 900	3/4" FHT Swivel Adapter w/Washer (Fits .940" OD Tubing)	Grey	25/600	4.7	21DI
CST 600	3/4" FHT Swivel Tee w/Screen (Fits .610" to .640" OD Tubing)	Green	15/480	6.4	21DI
ST 700	3/4" FHT Swivel Tee w/Screen (Fits .680" to .704" OD Tubing)	Black	15/480	6.2	21DI
CST 710	3/4" FHT Swivel Tee w/Screen (Fits .704" to .710" OD Tubing)	Blue	15/480	6.3	21DI
CST 900	3/4" FHT Swivel Tee w/Screen (Fits .940" OD Tubing)	Grey	25/300	8.3	21DI
CSTW 600	3/4" FHT Swivel Tee w/Washer (Fits .610" to .640" OD Tubing)	Green	15/480	6.0	21DI
CSTW 700	3/4" FHT Swivel Tee w/Washer (Fits .680" to .704" OD Tubing)	Black	15/480	5.9	21DI
CSTW 710	3/4" FHT Swivel Tee w/Washer (Fits .704" to .710" OD Tubing)	Blue	15/480	6.0	21DI
CSTW 900	3/4" FHT Swivel Tee w/Washer (Fits .940" OD Tubing)	Grey	25/300	8.0	21DI
CSEL 700	3/4" FHT Swivel Elbow w/Screen (Fits .680" to .704" OD Tubing)	Black	25/500	4.7	21DI
CSEL 710	3/4" FHT Swivel Elbow w/Screen (Fits .704" to .710" OD Tubing)	Blue	25/500	4.7	21DI
CSELW 600	3/4" FHT Swivel Elbow w/Washer (Fits .610" to .640" OD Tubing)	Green	25/500	4.4	21DI
CSELW 700	3/4" FHT Swivel Elbow w/Washer (Fits .680" to .704" OD Tubing)	Black	25/500	4.4	21DI
CSELW 710	3/4" FHT Swivel Elbow w/Washer (Fits .704" to .710" OD Tubing)	Blue	25/500	4.4	21DI

Micro Fittings













Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
BT 250	Adapter - Barb x Thread (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/2,000	0.1	21DI
Use with A 250 (1/4"	tubing).				
TT 250	Adapter - Thread x Thread (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/2,000	0.1	21DI
Use with A 250 (1/4"	tubing).				
C 125	Connector (Barb x Barb) (Fits 0.125" ID Tubing)	Black	100/5,000	0.1	21DI
Use with A 185 (1/8"	tubing).				
C 250	Connector (Barb x Barb) (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/10,000	0.1	21DI
Use with A 250 (1/4"	tubing).				
T 250	Tee (Barb x Barb x Barb) (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/3,000	0.2	21DI
Use with A 250 (1/4"	tubing).				
EL 250	Elbow (Barb x Barb x Barb) (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/3,000	0.2	21DI
Use with A 250 (1/4"	tubing).				
DBC 250	Double Barbed Connector (Barbed x Barbed) (Fits 0.160" ID - 0.170" ID Tubing)	Black	100/10,000	0.1	21DI
Use with A 250 (1/4"	tubing).				
GP 2	Dual Goof Plug (20/Rack)	Black	100/10,000	0.1	21DI
GP 2B	Bulk Packaged 2-Sided Goof Plug	Black	N/A/10,000	0.1	21DI
Use with A 250 (1/4"	tubing).				
SAJ	Adapter for Hydro-Flo TM (page 102), Dial-a-Flo TM (page 101), Micro-Flo TM Jets (page 103) (1/2" FIPT x 10-32 NFT)	Black	100/400	1.5	21DI
SAT	Adapter for A 220 and A 250 Tubing (page 119) (1/2" FIPT x Barb)	Black	100/400	1.1	21DI
REA	Adapter for 1/4" Barbed Drip Emitter (1/2" FIPT x Emitter Socket dapter)	Black	100/400	1.3	21DI
ST 250	Adapter for Dura-Flo™ JR (page 97) and 1/4" Tubing (page XX) (1/2" FIPT x 1/4" Barbed Swivel Tee)	Black	100/300	1.4	21DI
SEL 250	Adapter for Dura-Flo™ JR (page 97) and 1/4" Tubing (page XX) (1/2" FIPT x 1/4" Barbed Swivel Elbow)	Black	100/300	1.4	21DI
RA 250	Riser Extension Adapter (1/2" FIPT x 1/2" MIPT x 1/4" Barb)	Black	25/100	2.6	21DI



Compression 1/2" Riser Adapters



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class				
RSF 100	1/2" Riser Swivel Filter with 100 Mesh Stainless Steel Screen – Maximum Flow 2 gpm (1/2" MIPT x 1/2" FIPT Swivel)	Black	25/100	3.2	21DI				
RS	1/2" Riser Swivel (1/2" MIPT x 1/2" FIPT Swivel)	Black	25/100	3.0	21DI				
RST 700	1/2" Riser Swivel Tee w/100 Mesh Filter (Fits .680" to .704" OD Tubing i.e. A 700)	Black	40/80	6.3	21DI				
RST 710	1/2" Riser Swivel Tee w/100 Mesh Filter (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	40/80	6.3	21DI				
Products include fi	lter.								
RSTW 600	1/2" Riser Swivel Tee (Fits .610" to .640" OD Tubing)	Green	40/80	5.9	21DI				
RSTW 700	1/2" Riser Swivel Tee (Fits .680" to .704" OD Tubing)	Black	40/80	6.1	21DI				
RSTW 710	1/2" Riser Swivel Tee (Fits .704" to .710" OD Tubing)	Blue	40/80	6.0	21DI				
Products include w	vasher.								
RSEL 600	1/2" Riser Swivel Elbow w/100 Mesh Filter (Fits .610" to .640" OD Tubing)	Green	50/100	5.2	21DI				
RSEL 700	1/2" Riser Swivel Elbow w/100 Mesh Filter (Fits .680" to .704" OD Tubing)	Black	50/100	5.0	21DI				
RSEL 710	1/2" Riser Swivel Elbow w/100 Mesh Filter (Fits .704" to .710" OD Tubing)	Blue	50/100	5.0	21DI				
Products include fi	iter.								
RSELW 500	1/2" Riser Swivel Elbow (Fits .455" to .480" OD Tubing)	Red	50/100	4.8	21DI				
RSELW 600	1/2" Riser Swivel Elbow (Fits .610" to .640" OD Tubing)	Green	50/100	4.8	21DI				
RSELW 700	1/2" Riser Swivel Elbow (Fits .680" to .704" OD Tubing)	Black	50/100	4.8	21DI				
RSELW 710	1/2" Riser Swivel Elbow (Fits .704" to .710" OD Tubing)	Blue	50/100	4.8	21DI				
Products include washer.									

Automatic Flush Valves



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
FVA 600	Automatic Flush Valve – Closes at 7 PSI (Fits .610" to .630" OD Tubing i.e. A 620)	Green	25/500	1.5	21DI
FVA 700	Automatic Flush Valve – Closes at 7 PSI (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/500	1.4	21DI
FVA 710	Automatic Flush Valve – Closes at 7 PSI (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/500	1.4	21DI

Figure 8 End Enclosures

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
F 870	Figure "8" End Plug (Fits .620" OD to .710" OD Tubing)	Black	100/3,000	0.7	21DI
Fits A 620, A 700, A 710 Tubing					
F 890	Figure "8" End Plug (Fits .830" OD to .940" OD Tubing)	Black	100/1,500	1.5	21DI
Fits A 940 Tubing					
TEC	Thin Walled Tape End Closure	Black	100/2,000	1.6	21DI

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Part No.

Description

Sod Staples

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art No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
W6	6" Sod Staple Flat Top	N/A	N/A/1,000	3.5	21DT
W6/100	6" Sod Staple Flat Top	N/A	100/N/A	3.5	21DT
W6/25	6" Sod Staple Flat Top	N/A	25/N/A	3.5	21DT
W6	6" Sod Staple Round Top	N/A	N/A/1,000	3.4	21DT
W6/100	6" Sod Staple Round Top	N/A	100/N/A	3.4	21DT
W6/25	6" Sod Staple Round Top	N/A	25/N/A	3.4	21DT

Stakes



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
S 5	5" Plastic Elbow Stake with 1/4" Barbed Side Inlet and 10/32 NFT Outlet	Black	100/1,500	1.4	21DI
S 6	6" Plastic Stake (Fits A 185, A 220 and A 250 Tubing)	Black	100/3,000	1.0	21DI
S 7	6" Plastic Stake to Hold Down .620" to .710" OD Tubing	Black	50/700	2.9	21DI
S 12	12" Plastic Stake to Hold A 250/V 250 Tubing	Black	100/300	6.2	21DI
S 17	17" Plastic Stake to Support .160" ID x .300" OD Rigid Risers	Black	250/250	9.4	21DI
Z 2	Snap-in Adapter for S 17 Stake 10-32 Self Tap x 1/4" Barb	Black	100/1,000	0.5	21DI
S 4	5" 14-Gauge Galvanized Wire Stake	Silver	100/2,500	1.2	21DI
S 8	8" 12-Gaug Galvanized Wire Stake	Silver	100/2,000	0.5	21DI
S 14	14" 11-Gauge Galvanized Wire Stabilizer Stake for Rigid Riser Jet Assemblies	Silver	50/1,000	5.0	21DI

Bag Qty./ Box Qty.

Color

Wt. per 100 (lbs.)

Product Class

21DI

21DI

21DI

21DI

21DI

21DI

21DI

21DI

21DI

Valves







MV 2	5	1/4" Flow Controlling Valve (Barb x Barb) (Fits .160" to .170" ID Tubing i.e. A 250)	Black	100/500	0.4
MVT	25	1/4" Flow Controlling Valve (Thread x Thread) (Fits .160" ID to .300" OD Risers; Use with A 250 Tubing)	Black	100/500	0.4
BV 75	5	3/4" FHT x 3/4" MHT Ball Valve	Black	25/150	3.8
FC 50	00	1/2" Flow Controlling Valve (Fits .455" to .480" OD Tubing i.e. A 455)	Red	25/200	5.8
FC 60	00	1/2" Flow Controlling Valve (Fits .610" to .630" OD Tubing i.e. A 620)	Green	25/200	5.6
FC 70	00	1/2" Flow Controlling Valve (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/200	5.4
FC 71	10	1/2" Flow Controlling Valve (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/200	5.4
Note: I	Not to be	used as a shutoff valve.			
FC 80	00	3/4" Flow Controlling Valve (Fits .830" OD Tubing)	Black	25/125	7.6
FC 90	00	3/4" Flow Controlling Valve (Fits .940" OD Tubing i.e. A 940)	Grey	25/125	7.5



Air/Vacuum Valves



Part No.	Description	Color	Bag Qty./ Box Qty.		Product Class
AVRV 50	1/2" Air/Vacuum release valve (1/2" MIPT inlet)	Black	25/100	1.6	21DI

Hole Punches

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
HP 100	Hole Punch for 1/8" Fittings. Insert Tool for BT 250, TT 250 Fittings	Blue	10/150	3.8	21DI
HP 125	Hole Punch for PC Plus™, Multi-Flo™, Aqua-Flo™, Dial-a-Flo™, Super-Flo™, Misti-Flo™ and 1/4" Fittings. Insert Tool for BT 250, TT 250 Fittings.	Green	10/150	3.8	21DI
HP 125PR0	Hole Punch for for 1/4" fittings, insert tool for PCP Drippers	Green	1/10	17.4	21DI
HP 240	Hole Punch for Mono-Flo [™] Emitters	Blue	10/50	4.1	21DI
PPT	Punch Pal [™] Tool (Plastic Hole Punch Including Socket for Inerting Jets)	Orange	50/500	0.7	21DI

Emitter Access Boxes

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
EB 6	6" Emitter/Bubbler Access Box	Black	24/24	57.7	21DI
EBDS 6	6" Emitter/Bubbler Access Box for Desert Landscaping	Tan	24/24	57.7	21DI
EBRC 6	6" Emitter/Bubbler Access Box for Reclaimed Water	Purple	N/A/24	57.7	21DI

Tubing Accessories and Miscellaneous

	Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
U Y	MC 250	1/4" Mounting Clamp (Fits A 220 and A 250 Tubing)	Black	100/4,000	0.2	21DI
	MC 500	3/8" Mounting Clamp (Fits A 455 Tubing)	Black	100/1,500	0.4	21DI
\bigcirc	MC 710	1/2" Mounting Clamp (Fits A 620 and A 700 Tubing)	Black	100/1,000	0.6	21DI
	BP 250	Bug Plug for A 220 and A 250	Black	100/5,000	0.1	21DI
	W 75	3/4" Vinyl Washer	Black	100/3,000	0.2	21DI
	CAP 75	3/4" FHT Cap with Washer	Black	100/1,500	1.8	21DI
	SAH	Adapter with Washer (3/4" FHT x 1/4" Barb)	Black	100/500	1.7	21DI
	PHA 75	3/4" FHT Swivel x 3/4" FPT Swivel Adapter	Black	25/300	4.2	21DI
	TNPH	3/4" Transition Nipple (3/4" MHT x 3/4" MPT)	Black	100/500	2.8	21DI

DISTRIBUTION TUBING

Distribution & Supply Tubing

50 ft. & 100 ft. Coils in Shrink Wrapped Packaging

Self Coil



Plastic Hub (1") w/Chipboard Flanges



Sunburst Cardboard Spool





Sunburst cardboard spool



Plastic hub (1") with chipboard flanges



Bucket



Supply Tubing

A 185 1/8			Size/Type	100' (lbs.)	Class
	8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	2,000'/Spool	0.6	21DT
A 185/500 1/8	8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	500'/Spool	0.6	21DT
A 185/1000 1/8	8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	1,000'/Spool	0.6	21DT
A 185V 1/8	8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	2,000'/Spool	1.0	21DT
A 185V/100 1/8	8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	100'/Coil	1.0	21DT
A 185V/1000 1/8	8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	1,000'/Spool	1.0	21DT
A 220 1/4	4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	1,500'/Spool	0.7	21DT
A 220/100 1/4	4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	100'/Coil	0.7	21DT
A 220/500 1/4	4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	500'/Spool	0.7	21DT
A 220/1000 1/4	4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	1,000'/Spool	0.7	21DT
A 220/2500 1/4	4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	2,500'/Spool	0.7	21DT
A 220V 1/4	4" Vinyl Tubing (0.160" ID x 0.220" 0D)	Black	1,500'/Spool	1.2	21DT
A 220V/100 1/4	4" Vinyl Tubing (0.160" ID x 0.220" 0D)	Black	100'/Coil	1.2	21DT
A 220V/500 1/4	4" Vinyl Tubing (0.160" ID x 0.220" 0D)	Black	500'/Spool	1.2	21DT
A 220V/1000 1/4	4" Vinyl Tubing (0.160" ID x 0.220" 0D)	Black	1,000'/Spool	1.2	21DT
A 220V/2500 1/4	4" Vinyl Tubing (0.160" ID x 0.220" 0D)	Black	2,500'/Spool	1.2	21DT
A 250 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	1,250'/Spool	1.1	21DT
A 250/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	50'/Coil	1.1	21DT
A 250BR/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Brown	50'/Coil	1.1	21DT
A 250GR/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Green	50'/Coil	1.1	21DT
A 250RD/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Redwood	50'/Coil	1.1	21DT
A 250SD/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Sand	50'/Coil	1.1	21DT
A 250WT/50 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	White	50'/Coil	1.1	21DT
A 250/100 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	100'/Coil	1.1	21DT
A 250BR/100 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Brown	100'/Coil	1.1	21DT
A 250/500 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	500'/Spool	1.1	21DT
A 250/1000 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	1,000'/Spool	1.1	21DT
A 250/1000B 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD) in Bucket	Black	1,000'/Spool in Bucket	1.1	21DT
A 250/2500 1/4	4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	2,500'/Spool	1.1	21DT
A 250V 1/4	4" Vinyl Tubing (0.170" ID x 0.250" 0D)	Black	1,250'/Spool	1.6	21DT
A 250V/50 1/4	4" Vinyl Tubing (0.170" ID x 0.250" 0D)	Black	50'/Coil	1.6	21DT
A 250V/100 1/4	4" Vinyl Tubing (0.170" ID x 0.250" 0D)	Black	100'/Coil	1.6	21DT
A 250V/500 1/4	4" Vinyl Tubing (0.170" ID x 0.250" 0D)	Black	500'/Spool	1.6	21DT
A 250V/1000 1/4	4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	1,000'/Spool	1.6	21DT
A 250V/1000B 1/4	4" Vinyl Tubing (0.170" ID x 0.250" OD) in Bucket	Black	1,000'/Spool in Bucket	1.6	21DT
A 455/100 3/8	8" Polyethylene Tubing (0.375" ID x 0.455" OD)	Black	100'/Coil	2.2	21DT
A 455/500 3/8	8" Polyethylene Tubing (0.375" ID x 0.455" OD)	Black	500'/Coil	2.2	21DT



DISTRIBUTION TUBING

Distribution & Supply Tubing

All 17mm Coils in Shrink Wrapped Packaging



Self Coil



Plastic Hub (1") w/Chipboard Flanges



Sunburst Cardboard Spool



Self Coil



Sunburst Cardboard Spool



Plastic Hub (1") w/ Chipboard Flanges



Supply Tubing

			Coil	Wt. per	Product
Part No.	Description	Color	Size/Type	100' (lbs.)	Class
A 620	1/2" Polyethylene Tubing (0.520" ID x 0.620" 0D)	Black	1,000'/Coil	3.6	21DT
A 620/100	1/2" Polyethylene Tubing (0.520" ID x 0.620" 0D)	Black	100'/Coil	3.6	21DT
A 620BR/100	1/2" Polyethylene Tubing (0.520" ID x 0.620" 0D)	Brown	100'/Coil	3.6	21DT
A 620/500	1/2" Polyethylene Tubing (0.520" ID x 0.620" 0D)	Black	500'/Coil	3.6	21DT
A 620BR/500	1/2" Polyethylene Tubing (0.520" ID x 0.620" 0D)	Brown	500'/Coil	3.6	21DT
A 660BR/100S	17mm Polyethylene Tubing (0.560" ID x 0.660" 0D)	Brown	100'/Wrapped Coil	3.8	21DT
A 660BR/250S	17mm Polyethylene Tubing (0.560" ID x 0.660" OD)	Brown	250'/Wrapped Coil	3.8	21DT
A 660BR/500S	17mm Polyethylene Tubing (0.560" ID x 0.660" 0D)	Brown	500'/Wrapped Coil	3.8	21DT
A 700	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	500'/Coil	4.1	21DT
A 700SH	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	500'/Wrapped Coil	4.1	21DT
A 700BR	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Brown	500'/Coil	4.1	21DT
A 700/50	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	50'/Coil	4.1	21DT
A 700/100	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	100'/Coil	4.1	21DT
A 700/100SH	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	100'/Wrapped Coil	4.1	21DT
A 700BR/100	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Brown	100'/Coil	4.1	21DT
A 700/1000	1/2" Polyethylene Tubing (0.600" ID x 0.700" OD)	Black	1,000'/Coil	4.1	21DT
A 710	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black	500'/Coil	3.8	21DT
A 710GRS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black/ Green Stripe	500'/Coil	3.8	21DT
A 710PS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black/ Purple Stripe	500'/Coil	3.8	21DT
A 710RDS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black/ Red Stripe	500'/Coil	3.8	21DT
A 710WHS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black/ White Stripe	500'/Coil	3.8	21DT
A 710YS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black/ Yellow Stripe	500'/Coil	3.8	21DT
A 710SH	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black	500'/Wrapped Coil	3.8	21DT
A 710/50	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black	50'/Coil	3.8	21DT
A 710/100	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black	100'/Coil	3.8	21DT
A 710/100RDS	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black / Red Stripe	100'/Coil	3.8	21DT
A 710/100SH	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black	100'/Wrapped Coil	3.8	21DT
A 710/1000	1/2" Polyethylene Tubing (0.620" ID x 0.710" 0D)	Black	1,000'/Coil	3.8	21DT
A 940	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	Black	500'/Coil	6.4	21DT
A 940RDS	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Black/ Red Stripe	500'/Coil	6.4	21DT
A 940WHS	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Black/ White Stripe	500'/Coil	6.4	21DT
A 940YS	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	Black/ Yellow Stripe	500'/Coil	6.4	21DT
A 940PS	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Purple Stripe	N/A	N/A	21DT
A 940GRS	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Green Stripe	500'/Coil	6.4	21DT
A 940/100	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Black	100'/Coil	6.4	21DT
A 940/1000	3/4" Polyethylene Tubing (0.830" ID x 0.940" 0D)	Black	1,000'/Coil	6.4	21DT
A 1200	1" Polyethylene Tubing (1.060" ID x 1.200" OD)	Black	500'/Coil	9.8	21DT

DISTRIBUTION TUBING

IPS Flex Pipe

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100' (lbs.)	Product Class
IPS 75/3	36" Cut, 3/4" IPS Flex Vinyl Pipe (0.742" ID x 1.050" OD, 0.154" Wall)	Black	25/Bundle	84.0	21DT
IPS 75/4	48" Cut, 3/4" IPS Flex Vinyl Pipe (0.742" ID x 1.050" OD, 0.154" Wall)	Black	25/Bundle	112.0	21DT
IPS 50/100	1/2" IPS Flex Vinyl Pipe (0.546" ID x 0.840" OD, 0.147" Wall)	Black	100'	20.5	21DT
IPS 75/100	3/4" IPS Flex Vinyl Pipe (0.742" ID x 1.050" 0D, 0.154" Wall)	Black	100'	28.5	21DT

Swing Pipe

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100' (lbs.)	Product Class
SRP/100SH	1/2" FlexeeTM Swing Riser Pipe (0.490" ID x 0.690" 0D), Shrinkwrapped	Black	100'/1,000'	7.7	21DT
SRP FLEX/100SH	1/2" Super Flexee™ Swing Riser Pipe (0.490" ID x 0.690" OD), Shrinkwrapped	Black	100'/1,000'	7.7	21DT



TUBING FRACTIONAL LOSSES

Polyethylene Supply Tubing - Friction Loss (PSI/100 Feet)

Flow		Part Number								
TIOW	A455	A620	A700	A710	A940					
0.5 gpm	1.80	0.37	0.19	0.16	0.05					
1.0 gpm	6.6	1.33	0.68	0.55	0.15					
1.5 gpm	12.2	2.45	1.24	1.01	0.32					
2.0 gpm		4.80	2.17	1.78	0.53					
2.5 gpm		6.18	3.13	2.56	0.82					
3.0 gpm		10.31	5.16	4.23	1.11					
3.5 gpm			6.85	5.62	1.52					
4.0 gpm			8.78	7.20	1.90					
4.5 gpm			10.32	8.46	2.42					
5.0 gpm				10.10	2.88					
6.0 gpm					4.03					
7.0 gpm					5.37					
8.0 gpm					6.87					
9.0 gpm					8.53					
10.0 gpm					10.37					

IPS Flex PVC Hose - Friction Loss (PSI/100 Feet)

Flow	Part N	umber
TIOW	IPS 50	IPS 75
0.5 gpm	0.31	0.07
1.0 gpm	1.10	0.23
1.5 gpm	2.09	0.45
2.0 gpm	3.85	0.75
2.5 gpm	5.10	1.15
3.0 gpm	8.52	1.55
3.5 gpm	11.34	2.14
4.0 gpm	13.86	2.66
5.0 gpm		3.92
6.0 gpm		5.65
7.0 gpm		7.51
8.0 gpm		9.62
9.0 gpm		11.95
10.0 gpm		14.52

"Flexee" Swing Riser Pipe – Friction Loss (PSI/100 Feet)

Flow	Part Number
	SRP 100
0.5 gpm	0.40
1.0 gpm	1.47
1.5 gpm	2.70
2.0 gpm	5.28
2.5 gpm	6.80
3.0 gpm	11.35

Polyethylene/Vinyl Micro-Tubing - Friction Loss (PSI/100 Feet)

Flow	Part Number							
TIOW	A 185/V	A 220/V	A 250/V					
3 gph	5.9	1.7	1.3					
6 gph	19.7	5.8	4.3					
9 gph	41.5	12.2	9.1					
12 gph		20.9	15.6					
15 gph		31.7	23.9					
18 gph		43.9	33.0					
21 gph			44.3					

TECHNICAL INFORMATION – CONVERSION FACTORS

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Yards Inches 36			

To Convert From	То	Multiply by
PRESSURE		
Kilograms/Sg. Cm.	Pounds per Sq. Inch	14,223
Kilograms/Sq. Meter	Pounds per Sq. Foot	0.2048
Kilograms/Cubic Meter	Pounds per Cubic Foot	0.2048
Pounds per Cubic Foot	Kilograms/Cubic Meter	16,019
Pounds per Sq. Foot	Kilograms/Sq. Meter	4.8824
Pounds per Sq. Inch	Kilograms/Sq. Cm.	0.0703
VELOCITY	Kilogramo oq. om.	0.0700
	Malana and	0.00500
Feet/Minute	Meters per Second	0.00508
Feet/Second	Meters per Second	0.3048
Inches/Second	Meters per Second	0.0254
VOLUME		
Cubic Centimeters	Cubic Inches	0.06102
Cubic Feet	Cubic Inches	1,728
Cubic Feet	Cubic Meters	0.0283
Cubic Feet	Cubic Yards	0.0370
Cubic Feet	Gallons	7.481
Cubic Feet	Liters	28.32
Cubic Feet	Quarts	29.9222
Cubic Inches	Cubic Centimeters	16.39
Cubic Inches	Cubic Feet	0.0005787
Cubic Inches	Cubic Meters	0.00001639
Cubic Inches	Liters	0.0164
Cubic Inches	Gallons	0.004329
Cubic Inches	Quarts	0.01732
Cubic Meters	Cubic Feet	35.31
Cubic Meters	Cubic Inches	61,023
Cubic Meters	Cubic Yards	1.3087
Cubic Yards	Cubic Feet	27
Cubic Yards	Cubic Meters	0.7641
Gallons	Cubic Feet	0.1337
Gallons	Cubic Inches	231
Gallons	Cubic Meters	0.003785
Gallons	Liters	3.785 4
Liters	Quarts Cubic Feet	4 0.03531
Liters	Cubic Feet Cubic Inches	61.017
Liters	Gallons	0.2642
Liters	Pints	2.1133
Liters	Quarts	1.057
Liters	Cubic Meters	0.0010
LILUIU		0.0010



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A 185 A 7005H 136 A 7100H3 136 CMMH 210 129 PAFTENH 117 MC 2010 134 A 1850100 135 A 710VS 136 CMMH 200 129 DAPJ 800 116 MC 2010 134 A 185V100 135 A 940 136 CMMP-513 129 DAPJ 800 116 MC 2010 134 A 185V100 135 A 940/130 CMMP-513 129 DAPJ 800 118 MC 20500 107 A 22010 133 A 940/130 CMMP-510 120 DAPJ 800 118 MC 20050/1 107 A 220100 133 A 940/15 136 CMMP 50 120 DAPJ 800 134 MFE.1 111 A 220100 135 A 940/15 136 CMMP 70 129 EBR 6 134 MFE.1 121 A 220101 134 A FE 10 117 CMMP 90 129 EBR 6 134 MFE.1 121 122 124 A 220 <th>Part No.</th> <th>Page</th>	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
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A 700BR/100 136 CEL 800 128 D 80 H 122 HPAM 4 121 RCC 7090 128 A 700SH 136 CEL 900 128 DAFB 180 117 HPAM 8 121 RCC 8090 128 A 710 136 CEP 18 126 DAFB 360 117 HYP 250 119 REA 131 A 710/50 136 CFL 2 121 DAFB BUB 117 HYP 500 119 RSL 600 132 A 710/100 136 CFL 6 121 DAFB FAN 117 HYP J250 119 RSL 600 132 A 710/100RDS 136 CFL 10 121 DAFS 135 117 HYD 500 119 RSL 700 132 A 710/100RDS 136 CFL 20 121 DAFS 180 117 HYD 500 119 RSL 710 132 A 710/100SH 136 CFL 20 121 DAFS 360 117 HYD 500 137 RSL 710 132 A 710/1000 136 CMAH 129 DAFS 360 117 IPS 50/100 137 <	A 700/1000	136	CEL 700	128	CZK 100-40F	103	HP 125PR0	134	RCC 6071	128
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A 710/1000 136 CMAH 129 DAFS 360 117 IPS 75/3 137 RSELW 500 132 A 710GRS 136 CMAH 18 126 DAFS BUB 117 IPS 75/4 137 RSELW 600 132 A 710PS 136 CMAH 600 129 DAFT 180 117 IPS 75/100 137 RSELW 700 132										
A 710GRS 136 CMAH 18 126 DAFS BUB 117 IPS 75/4 137 RSELW 600 132 A 710PS 136 CMAH 600 129 DAFT 180 117 IPS 75/100 137 RSELW 700 132										
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NOTES



FLOW MANAGEMENT



NDS[®] Flow Management offers a range of engineered specialty fittings and valves. From expansion repair and compression couplings, to spring, swing check and ball valves, we offer a full line of products for irrigation, plumbing, pool and spa, and industrial applications.

COMPRESSION FITTINGS

	Part No.	Ref. No.	IPS Size UC Connection	IPS Branch	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications		
	Couplings —	Couplings — PVC										
ouplings VC	CPC-0500	110-05	1/2"		4-1/2"	White	30	7.0	42CP	PVC		
	CPC-0750	110-07	3/4"		5-1/4"	White	24	8.2	42CP	NSF/ANSI 61+372		
	CPC-1000	110-10	1"		5-3/4"	White	18	8.2	42CP	UPC		
	CPC-1250	110-12	1-1/4"		6-1/4"	White	12	7.6	42CP			
	CPC-1500	110-15	1-1/2"		6-3/4"	White	15	12.25	42CP			
	CPC-2000	110-20	2"		7-1/8"	White	12	14.2	42CP			
	CPC-2500	110-25	2-1/2"		9-5/8"	White	5	12.25	42CP			
	CPC-3000	110-30	3"		10-7/8"	White	4	13.2	42CP			
	CPC-4000	110-40	4"		12-1/8"	White	3	13.9	42CP			
	CPC-6000	110-60	6"		11-3/8"	White	1	8.6	42CP			
p Tee	Slip Tee	Slip Tee										
c C	CPT-0500-S	121-05	1/2"	1/2" S	5"	White	24	7.0	42CP	PVC		
F	CPT-0750-S	121-07	3/4"	3/4" S	5-3/8"	White	20	8.0	42CP	NSF/ANSI 61+372		
	CPT-1000-S	121-10	1"	1" S	5-5/8"	White	12	7.0	42CP	UPC		
	CPT-1250-S	121-12	1-1/4"	1-1/4" S	6-1/8"	White	8	6.2	42CP			
	CPT-1500-S	121-15	1-1/2"	1-1/2" S	6-3/4"	White	6	6.4	42CP			
	CPT-2000-S	121-20	2"	2" S	7-1/2"	White	5	7.25	42CP			
readed Tee	Threaded Tee	1										
	CPT-0500-T	120-05	1/2"	1/2" FPT	5"	White	24	7.0	42CP	PVC		
N- P	CPT-0750-T	120-07	3/4"	3/4" FPT	5-3/8"	White	20	8.0	42CP	NSF/ANSI 61+372		
	CPT-1000-T	120-10	1"	1" FPT	5-5/8"	White	12	7.0	42CP	011072		
1971	CPT-1250-T	120-12	1-1/4"	1-1/4" FPT	6-1/8"	White	8	6.2	42CP			
	CPT-1500-T	120-15	1-1/2"	1-1/2" FPT	6-3/4"	White	6	6.4	42CP			
ducing Tee	CPT-2000-T	120-20	2"	2" FPT	7-1/2"	White	5	7.25	42CP			
/Threaded utlet	Reducing Tee	w/Threaded (Dutlet									
0= P	CRT-0750-T	122-75	3/4"	1/2" FPT	5-3/8"	White	20	8.0	42CP	PVC NSF/ANSI 61+372		

IPS Couplings, Tees & Adapters (Rated @ 150 PSI Static Pressure @ 72°F)

Note: All dimensions are nominal.



COMPRESSION FITTINGS

IPS Couplings, Tees & Adapters (Rated @ 150 PSI Static Pressure @ 72°F)

PVC Male Adapter



Part No.	Ref. No.	IPS Size UC Connection	IPS Size MPT Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
PVC Male Adapter									
CPA-0500	130-05	1/2"	1/2" MPT	3-3/8"	White	48	8.2	42CP	PVC
CPA-0750	130-07	3/4"	3/4" MPT	4"	White	36	8.2	42CP	NSF/ANSI 61+372
CPA-1000	130-10	1"	1" MPT	4"	White	24	7.0	42CP	UPC
CPA-1250	130-12	1-1/4"	1-1/4" MPT	4-1/8"	White	18	7.3	42CP	
CPA-1500	130-15	1-1/2"	1-1/2" MPT	4-3/8"	White	16	8.2	42CP	
CPA-2000	130-20	2"	2" MPT	4-5/8"	White	12	8.8	42CP	

CTS Couplings & Tees (Rated @ 150 PSI Static Pressure @ 72°F)

	Part No.	Ref. No.	CTS Size	IPS Branch	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
	PVC Couplings									
PVC Couplings	CCC-0500	210-05	1/2" UC		4"	White	48	5.8	42CP	PVC NSF/ANSI 61+372 UPC
a de la compañía de l	CCC-0750	210-07	3/4" UC		4"	White	30	7.0	42CP	
	CCC-1000	210-10	1" UC		5-1/4"	White	24	8.2	42CP	
	CCC-1250	210-12	1-1/4" UC		5-3/4"	White	18	8.2	42CP	
	CPVC Couplings									
	410-05		1/2" UC		4"	Tan	25	4.4	42CP	CPVC
	410-07		3/4" UC		4"	Tan	28	8.0	42CP	6846
CPVC Couplings	410-10		1" UC		4-1/2"	Tan	24	10.0	42CP	
	PVC Threaded Tee									
	CCT-0500	220-05	1/2" UC	1/2" FPT	4"	White	36	8.2	42CP	PVC
	CCT-0750	220-07	3/4" UC	3/4" FPT	5"	White	24	9.4	42CP	NSF/ANSI 61+372
	CCT-1000	220-10	1" UC	1" FPT	5"	White	18	9.1	42CP	011072
	CCT-1250	220-12	1-1/4" UC	1-1/4" FPT	5-1/2"	White	10	7.0	42CP	
	CCT-1500	220-15	1-1/2" UC	1-1/2" FPT	6"	White	8	7.8	42CP	
PVC Threaded Tee	CCT-2000	220-20	2" UC	2" FPT	7-1/2"	White	5	8.75	42CP	

Note: All dimensions are nominal.

Wrenches

Strap Wrenches (Adjustable)	
Stub Wrench	

Part No.		Pkg. Qty.	Product Class	Specifications			
Strap Wrenches (Adjustable)							
B0A-104	1/2"-4"	50	42CP	Plastic Handle			
B0A-106	1/2"-6"	50	42CP	Rubber Strap			
Stub Wrench							
SW-0500-C	1/2" + 3/4" Plastic Riser Extractor	25	42LS	Steel Handle			

FLO-LOCK™



Tube Size SIDR-7 Pep Couplings & Adapters – Series 800 (Rated @ 200 PSI Static Pressure @ 72°F)

Coupling	Part No.	Tube Size	Connection Size	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications		
	Coupling										
0	810-07	3/4"	3/4" x 3/4" TS	4-1/2"	White	24	10.6	41FL	For use on Polyethylene		
<u> </u>	810-10	1"	1" x 1" TS	5"	White	15	8.5	41FL	Tube Size SIDR-7 ASTM D-2239		
	Male Adapter										
	830-07	3/4"	3/4" MPT x 3/4" TS	2-5/8"	White	20	5.0	41FL	For use on Polyethylene		
Male Adapter	830-10	1"	1" MPT x 1" TS	3-1/4"	White	28	9.4	41FL	Tube Size SIDR-7 ASTM D-2239		
C =	830-71	3/4" x 1"	3/4" MPT x 1" TS	3-1/2"	White	18	5.5	41FL	PVC		
6	830-121	1" x 1-1/4"	1" MPT x 1-1/4" TS	3"	White	12	4.3	41FL	NSF/ANSI 61+372 UPC 830- 07/10 Only		
	Female Adapter										
	831-07	3/4"	3/4" FPT x 3/4" TS	2-5/8"	White	20	6.0	41FL	For use on Polyethylene		
Female Adapter	831-10	1"	1" FPT x 1" TS	2-7/8"	White	28	10.8	41FL	Tube Size SIDR-7 ASTM D-2239		
(T)									PVC NSF/ANSI 61+372		
6	Spigot Adapte	er									
	833-07	3/4"	3/4" IPS Spg x 3/4" TS	3"	White	20	5.0	41FL	For use on Polyethylene		
	833-71	3/4" x 1"	3/4" IPS Spg x 1" TS	3"	White	20	7.0	41FL	Tube Size SIDR-7 ASTM D-2239		
Spigot Adapter	833-10	1"	1" IPS Spg x 1" TS	3"	White	28	9.4	41FL	PVC NSF/ANSI 61+372 UPC		

* Insert stiffener supplied must be used with this fitting.



FLO-LOCK™

Tube Size SDR-9 CTS Couplings & Adapters – Series 700 (Rated @ 200 PSI Static Pressure @ 72°F)

	Part No.	Tube Size	Connection	Length Inches	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
	PVC Coupling	S							
DVO Ocurliner	710-07	3/4"	3/4" x 3/4" TS	4"	White	35	9.8	41FL	For use on Polyethylene
PVC Couplings	710-10	1"	1" x 1" TS	4-1/2"	White	24	9.4	41FL	Tube Size SDR-9 ASTM D-2737
	710-17	3/4" x 1"	1" SDR-9 x 3/4" SDR-11	4"	White	36	11.8	41FL	PVC
	710-12	1-1/4"	1-1/4" x 1-1/4" TS	5"	White	15	8.5	41FL	NSF/ANSI 61+372 UPC
	710-15†	1-1/2"	1-1/2" x 1-1/4" TS	6"	White	16	13.0	41FL	
	710-20†	2"	2" x 2" TS	7-1/2"	White	12	15.9	41FL	
	710-17-9	3/4" x 1"	1" SDR-9 x 3/4" SDR 9	4"	White	36	11.8	41FL	
	Male Adapter								
	730-07	3/4"	3/4" MPT x 3/4" TS	2-5/8"	White	25	4.75	41FL	For use on Polyethylene
Male Adapter	730-71	3/4" x 1"	3/4" MPT x 1" TS	2-7/8"	White	18	4.6	41FL	Tube Size SDR-9 ASTM D-2737
F	730-10	1"	1" MPT x 1" TS	2-7/8"	White	18	4.6	41FL	PVC
6	730-12	1-1/4"	1-1/4" MPT x 1-1/4" TS	3-1/2"	White	12	4.6	41FL	UPC except 730-12-10 NSF/ANSI 61+372
	730-15	1-1/2"	1-1/2" MPT x 1-1/2" TS	3-1/2"	White	18	9.1	41FL	
	730-20†	2"	2" MPT x 2" TS	4"	White	12	8.8	41FL	
	Female Adap	ter							
	731-07	3/4"	3/4" FPT x 3/4" TS	2-5/8"	White	25	6.0	41FL	For use on Polyethylene
	731-71	3/4" x 1"	3/4" FPT x 1" TS	2-7/8"	White	15	4.0	41FL	Tube Size SDR-9 ASTM D-2737
Female Adapter	731-10	1"	1" FPT x 1" TS	3"	White	15	4.8	41FL	PVC
R	731-12	1-1/4"	1-1/4" FPT x 1-1/4" TS	3-1/2"	White	12	5.2	41FL	NSF/ANSI 61+372
	731-12-10	1" x 1-1/4"	1" FPT x 1-1/4" TS	3-1/2"	White	12	5.2	41FL	
	731-15	1-1/2"	1-1/2" FPT x 1-1/2" TS	3-1/2"	White	18	10.0	41FL	
	731-20†	2"	2" FPT x 2" TS	3-3/4"	White	12	8.2	41FL	
	Spigot Adapte	er							
	733-07	3/4"	3/4" IPS Spg x 3/4" TS	2-7/8"	White	18	3.7	41FL	For use on Polyethylene
	733-71	3/4"	3/4" IPS Spg x 1" TS	2-7/8"	White	18	4.0	41FL	Tube Size SDR-9 ASTM D-2737
	733-10	1"	1" IPS Spg x 1" TS	3-1/2"	White	18	4.6	41FL	PVC NSF/ANSI 61+372
Spigot Adapter	733-12	1-1/4"	1-1/4" IPS Spg x 1-1/4" TS	3-1/2"	White	12	5.2	41FL	UPC
	733-15	1-1/2"	1-1/2" IPS Spg x 1-1/2" TS	3-1/2"	White	18	9.1	41FL	
	733-20†	2"	2" IPS Spg x 2" TS	4"	White	12	7.6	41FL	
	I loss and a l	"		the state first					

†Insert stiffener supplied must be used with this fitting.

¹⁴⁶ **Product Catalog** 2021

FLO-LOCK™

Couplings & Adapters - Series 100 - For use on PVC IPS Sizes (Rated @ 160 PSI Static Pressure @ 72°F)

	Part No.	IPS Size	Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
	PVC IPS Coupli	ng with Flo-Lock							
PVC IPS Coupling with Flo-Lock	112-05	1/2"		5"	White	28	8.0	41FL	For use on IPS sizes
WITHTOLOGK	112-07	3/4"		5-1/2"	White	24	9.4	41FL	ASTM D-1785 NSF/ANSI 61+372
0	112-10	1"		5-3/4"	White	15	8.5	41FL	N3F/AN3I 01+372
	112-12	1-1/4"		6-1/2"	White	10	8.0	41FL	
	112-15	1-1/2"		7"	White	16	14.6	41FL	
	112-20	2"		7-1/2"	White	12	14.8	41FL	
PVC IPS Male	PVC IPS Male A	dapter with Flo-I	Lock						
Adapter with	135-05	1/2"	1/2" MPT	2-3/4"	White	25	4.8	41FL	For use on IPS sizes
Flo-Lock	135-07	3/4"	3/4" MPT	3"	White	20	5.0	41FL	ASTM D-1785 NSF/ANSI 61+372
	135-10	1"	1" MPT	3-1/4"	White	30	8.5	41FL	UPC
	135-12	1-1/4"	1-1/4" MPT	3-1/2"	White	20	8.0	41FL	
	135-15	1-1/2"	1-1/2" MPT	3-1/2"	White	16	7.4	41FL	
	135-20	2"	2" MPT	4"	White	12	8.8	41FL	
	PVC IPS Femal	e Adapter with Fl	o-Lock						
PVC IPS Female Adapter with	136-05	1/2"	1/2" FPT	2-3/4"	White	25	4.8	41FL	For use on IPS sizes
Flo-Lock	136-07	3/4"	3/4" FPT	3-1/4"	White	20	5.0	41FL	ASTM D-1785
0	136-10	1"	1" FPT	3-1/4"	White	14	4.5	41FL	NSF/ANSI 61+372
	136-20	2"	2' FPT	4"	White	10	8.0	41FL	

Adapters - Series 200 & 900 - For use on Copper Tubing CTS Series (Rated @ 160 PSI Static Pressure @ 72°F)

PVC CTS Male	
Adapter with	
Flo-Lock	

PVC CTS Female Adapter with Flo-Lock

Part No.	CTS Size	Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
PVC CTS Male	Adapter with Flo-	Lock (Rated @160	PSI Static Press	sure @ 72°F)				
235-05	1/2"	1/2" MPT	2-1/2"	White	50	6.0	41FL	For use on CTS pipe
235-07	3/4"	3/4" MPT	2-3/4"	White	25	4.8	41FL	ASTM B88 NSF/ANSI 61+372
235-10	1"	1" MPT	3"	White	18	4.6	41FL	UPC Except 235-20
235-12	1-1/4"	1-1/4" MPT	3-1/4"	White	24	7.0	41FL	
235-15	1-1/2"	1-1/2" MPT	3-1/2"	White	20	8.5	41FL	
235-20	2"	2" MPT	4"	White	12	7.6	41FL	
PVC CTS Femal	e Adapter with F	lo-Lock						
935-07	3/4"	3/4" Spg	2-7/8"	White	20	4.5	41FL	For use on CTS pipe
935-10	1"	1" Spg	2-7/8"	White	20	5.0	41FL	ASTM B88 NSF/ANSI 61+372
935-12	1-1/4"	1-1/4" Socket	3-5/16"	White	25	8.5	41FL	Normal of the L
935-125	1-1/4"	1-1/2" Socket	3-5/16"	White	20	7.0	41FL	
935-15	1-1/2"	1-1/2" Socket	4"	White	20	10.0	41FL	
935-20	2"	2" Socket	4"	White	12	7.6	41FL	



EXPANSION REPAIR COUPLINGS

Pro-Span[™]



1 mil

Part No.	IPS Size	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
118-05	1/2" S x SPG	7-1/2"	White	28	6.6	41XC	PVC
118-07	3/4" S x SPG	7-3/4"	White	24	8.2	41XC	118-05 Thru 25: NSF/ANSI 14
118-10	1" S x SPG	9-1/2"	White	15	8.5	41XC	UPC
118-12	1-1/4" S x SPG	10-3/4"	White	10	8.0	41XC	Rated @200 PSI Static
118-15	1-1/2" S x SPG	12-3/4"	White	16	17.8	41XC	Pressure @72°F
118-20	2" S x SPG	13-1/2"	White	12	17.8	41XC	
118-25	2-1/2" S x SPG	18-3/4"	White	3	9.55	41XC	
118-30	3" S x SPG	21"	White	3	13.3	41XC	
118-40	4" S x SPG	22-3/4"	White	3	20.5	41XC	
118-60QF	6" S x S	26-1/4"	White	1	13.8	42RF	PVC NSF/ANSI 61+372
QF-6000 IS N		Rated @150 PSI Static Pressure @72°F					

FOOT VALVES (SPRING CHECK)

Body Length Pkg. Qty. Case (lbs.) Specifications Foot Valve 1" 7" White 9.0 41CV 1001-10FV 20 PVC Rated @ 200 PSI @ 13.0 1001-12FV 1-1/4" 8" White 15 41CV 72°F 1-1/2" White 13.8 41CV 1001-15FV 8-1/2" 15 16.0 2" 10-1/2" White 41CV 1001-20FV 10 **Foot Valve Screens** 1.5 Material: 1800-07 3/4" 2" Black 24 41CV Polyethylene 1.6 1800-10 1" 2" Black 15 41CV 100 mesh 1800-12 1-1/4" 2-1/4" Black 10 1.5 41CV 1800-15 1-1/2" 2" 16 2.0 41CV Black 1800-20 2" 2-3/4" Black 12 2.2 41CV



Foot Valve

Spring Check Valves - PVC - Series 1001, 1002, 1011, 1012 (Rated @ 200 PSI Static Pressure @ 72°F)

FPT x FPT EPDM Gasket



S x S EPDM Gasket



S x S Clear PVC EPDM Gasket

Part No.	Ref. No.	Spring Tension	IPS Size Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
FPT x FPT EPDI	VI Gasket								
1001-05	KC-0500-T	1/2 lb.	1/2"	4-1/8"	White	20	5.0	41CV	PVC
1001-07	KC-0750-T	1/2 lb.	3/4"	4-1/8"	White	20	6.0	41CV	NSF/ANSI
1001-10	KC-1000-T	1/2 lb.	1"	5-1/4"	White	20	8.0	41CV	61+372
1001-12	KC-1250-T	1/2 lb.	1-1/4"	6-3/16"	White	15	13.0	41CV	
1001-15	KC-1500-T	1/2 lb.	1-1/2"	6-3/16"	White	15	13.8	41CV	
1001-20	KC-2000-T	1/2 lb.	2"	7-1/2"	White	10	15.0	41CV	
1001-25		1/2 lb.	2-1/2"	8-5/8"	White	8	27.0	41CV	
1001-30		1/2 lb.	3"	8-5/8"	White	8	27.4	41CV	
1002-05		2 lb.	1/2"	4-1/8"	White	20	5.0	41CV	
1002-07	KC2-0750-T	2 lb.	3/4"	4-1/8"	White	20	6.0	41CV	
1002-10	KC2-1000-T	2 lb.	1"	5-1/4"	White	20	8.0	41CV	
1002-12	KC2-1250-T	2 lb.	1-1/4"	6-3/16"	White	15	13.0	41CV	
1002-15	KC2-1500-T	2 lb.	1-1/2"	6-3/16"	White	15	13.8	41CV	
1002-20	KC2-2000-T	2 lb.	2"	7-1/2"	White	10	15.0	41CV	
1002-25		2 lb.	2-1/2"	8-5/8"	White	8	27.0	41CV	
1002-30		2 lb.	3"	8-5/8"	White	8	27.4	41CV	
S x S EPDM Ga	sket								
1011-05-025		1/4 lb.	1/2"	4-1/8"	White	20	5.0	41CV	PVC
1011-07-025		1/4 lb.	3/4"	4-1/8"	White	20	5.0	41CV	NSF/ANSI 61+372
1011-05	KC-0500-S	1/2 lb.	1/2"	4-1/8"	White	20	5.0	41CV	
1011-07	KC-0750-S	1/2 lb.	3/4"	4-1/8"	White	20	5.0	41CV	
1011-10	KC-1000-S	1/2 lb.	1"	5-1/4"	White	20	9.0	41CV	
1011-12	KC-1250-S	1/2 lb.	1-1/4"	6-3/16"	White	15	12.3	41CV	
1011-15	KC-1500-S	1/2 lb.	1-1/2"	6-1/2"	White	15	13.0	41CV	
1011-20	KC-2000-S	1/2 lb.	2"	7"	White	10	14.5	41CV	
1011-25		1/2 lb.	2-1/2"	8-5/8"	White	8	25.8	41CV	
1011-30		1/2 lb.	3"	8-5/8"	White	8	25.4	41CV	
1012-05	KC2-0500-S	2 lb.	1/2"	4-1/8"	White	20	5.0	41CV	
1012-07	KC2-0750-S	2 lb.	3/4"	4-1/8"	White	20	5.0	41CV	
1012-10	KC2-1000-S	2 lb.	1"	5-1/4"	White	20	9.0	41CV	
1012-12	KC2-1250-S	2 lb.	1-1/4"	6-3/16"	White	15	12.3	41CV	
1012-15	KC2-1500-S	2 lb.	1-1/2"	6-1/2"	White	15	13.0	41CV	
1012-20	KC2-2000-S	2 lb.	2"	7"	White	10	14.5	41CV	
1012-25		2 lb.	2-1/2"	8-5/8"	White	8	25.8	41CV	
1012-30		2 lb.	3"	8-5/8"	White	8	25.4	41CV	
1012-30		5 lb.	2-1/2"	8-5/8"	White	8	25.8	41CV	
S x S Clear PVC	: FPDM Gasket	5 10.	2 172	0 0/0	WINto	0	20.0	4100	
1011C10	KCC-1000-S	1/2 lb.	1"	5-1/4"	Clear	20	8.0	41CV	Clear PVC
1011010	KCC-1250-S	1/2 lb.	' 1-1/4"	6-3/16"	Clear	15	12.3	41CV	NSF/ANSI
1011012	KCC-1500-S	1/2 lb.	1-1/2"	6-1/2"	Clear	15	13.0	41CV	61+372
1011013	KCC-2000-S	1/2 lb.	2"	7"	Clear	10	14.0	41CV	
.011020		1/ = 10	-		orour	10	1115	1101	





Spring Check Valves - PVC - Series 1700, 1090, 1136 (Rated @ 200 PSI Static Pressure @ 72°F)

	Part No.	Spring Tension	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications		
	White PVC True	Union									
White PVC	1700-07	1/2 lb.	3/4" S x S	6-1/4"	White	20	10.0	41CV	Rated @ 200 PSI		
True Union	1700-10	1/2 lb.	1" S x S	6-3/4"	White	20	14.0	41CV	Static Pressure @ 72°F NSF/ANSI 61+372		
	1700-15	1/2 lb.	1-1/2" S x S	8-1/4"	White	12	15.4	41CV			
	1700-20	1/2 lb.	2" S x S	9-3/4"	White	12	25.6	41CV			
	1702-15	2 lb.	1-1/2" S x S	8-1/4"	White	12	15.4	41CV			
	1702-20	2 lb.	2" S x S	9-3/4"	White	12	25.6	41CV			
	Clear PVC True	Union									
Clear PVC	1700C07	1/2 lb.	3/4" S x S	6-1/4"	Clear	20	10.0	41CV	Clear body with white nut		
True Union	1700C10	1/2 lb.	1" S x S	6-3/4"	Clear	20	14.0	41CV	and tailpiece Rated @ 200 PSI		
	1700C15	1/2 lb.	1-1/2" S x S	8-1/4"	Clear	12	15.4	41CV	Static Pressure @ 72°F NSF/ANSI 61+372		
	1700C20	1/2 lb.	2" S x S	9-3/4"	Clear	12	25.6	41CV			
	1700C30	1/2 lb.	3" S x S	13-1/4"	Clear	6	28.3	41CV			
Compact White PVC	1702C15	2 lb.	1-1/2" S x S	8-1/4"	Clear	12	15.4	41CV			
True Union	1702C20	2 lb.	2" S x S	9-3/4"	Clear	12	25.6	41CV			
	Compact White PVC True Union										
	1790-15	1/2 lb.	1-1/2" S x S	6-1/2"	White	15	13.8	41CV	Rated @ 200 PSI Static Pressure @ 72°F		
Compost	1790-20	1/2 lb.	2" S x S	7-3/8"	White	10	14.0	41CV	NSF/ANSI 61+372		
Compact Clear PVC True Union	Compact Clear	PVC True Unior	I								
I'de onion	1790C15	1/2 lb.	1-1/2" S x S	6-1/2"	Clear	15	13.8	41CV	Rated @ 200 PSI		
	1790C20	1/2 lb.	2" S x S	7-3/8"	Clear	10	14.0	41CV	Static Pressure @ 72°F Clear body with white nut		
	1795C20	5 lb.	2" S x S	7-3/8"	Clear	10	14.0	41CV	and tailpiece		
	CPVC 90°										
CPVC 90°	1901-15	1 lb.	1-1/2" S x S	5"	Tan	12	8.8	41CV	Rated @ 125 PSI		
	1903-15	3 lb.	1-1/2" S x S	5"	Tan	12	8.8	41CV	Static Pressure @ 160°F		
	1901-20	1 lb.	2" S x 2-1/2" Spg	5-1/2"	Tan	12	13.6	41CV			
	1903-20	3 lb.	2" S x 2-1/2" Spg	5-1/2"	Tan	12	13.6	41CV			
Inline Valve and	Inline Valve and	d Bypass Valve									
Bypass Valve	1091-20	1/2 lb.	2" S x S	5"	White	12	6.9	41CV	Non-Adjustable EPDM Seal		
0	1095-20	5 lb.	2" S x S	5"	White	12	6.9	41CV	Rated @ 200 PSI Static Pressure @ 72°F NSF/ANSI 61+372		
	Hose Thread (E	PDM Gasket)									
Hose Thread (EPDM Gasket)	1136-07	1/2 lb.	3/4" MHT x 3/4" FHT	4-1/8"	White	20	5.0	41CV	Rated @ 200 PSI		
And the second	1136-07-05	5 lb.	3/4" MHT x 3/4" FHT	4-1/8"	White	20	5.0	41CV	Static Pressure @ 72°F NSF/ANSI 61+372		

Spa Spring Check Valves

Versa Drain	Part No.	Spring Tension	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications		
	Versa Drain										
AT CHE	107015BK	N/A	N/A	6"	Black	12	6.4	41CV	Drain for portable spa		
- Fredmin	1071GH	N/A	N/A	3"		1	-	41CV	Garden Hose Adpt.		
	Spa Check Valve										
Spa Check	105010	1/4 lb.	1" S x 1-1/4" Spg	3-3/8"	White	20	5.0	41CV	1/4 lb. for air blowers		
Valve	105020	1/4 lb.	1-1/2" S x 2" Spg	5-1/8"	White	12	8.2	41CV	Rated @ 200 PSI Static Pressure @ 72°F		
	Clear Spa Check	Valve									
	1050C10	1/4 lb.	1" S x 1-1/4" Spg	3-3/8"	Clear	20	5.0	41CV	Clear PVC		
	1050C20	1/4 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV	1/4 lb. for air blowers Rated @ 200 PSI		
Clear Spa	1050C20-05	1/2 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV	Static Pressure @ 72°F		
Check Valve	1050C20-10	10 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV			
C LEE	1050C20-12	12 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV			
	1050C20-15	15 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV	UL Listed		
	1053C20	3 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV			
	1055C20	5 lb.	1-1/2" S x 2" Spg	5-1/8"	Clear	12	7.6	41CV			
Clear	Clear Compact										
Compact	S1050C20	1/4 lb.	1-1/2" S x 2" Spg	4"	Clear	12	6	41CV	Clear PVC		
Shi (Ocal)	S1050C20-05	1/2 lb.	1-1/2" S x 2" Spg	4"	Clear	12	6	41CV	1/4 lb. for air blowers		
- Caller	S1052C20	2 lb.	1-1/2" S x 2" Spg	4"	Clear	12	6	41CV	Rated @ 200 PSI Static Pressure @ 72°F		

Adjustable Spring Check Valves - Series 1200, 1700 (Rated @ 200 PSI Static Pressure @ 72°F)

White	Part No.	Spring Tension	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
PVC FPT x FPT	White PVC FPT	x FPT							
Factory Set at 5 lb.	1205-05	2 – 5 lb.	1/2"	4-1/8"	White	20	5.0	41CV	Adjusting nut 1-1/2 turn =
	1205-07	2-1/2 - 5 lb.	3/4"	4-1/8"	White	20	5.0	41CV	1 lb. force NSF/ANSI 61+372
	1205-10	4-1/8 – 17 lb.	1"	5-1/4"	White	20	9.0	41CV	Except: 1205V07
-	1205-12	4 – 50 lb.	1-1/4"	6-3/16"	White	15	12.3	41CV	
	1205-15	3-1/2 – 50 lb.	1-1/2"	6-3/16"	White	15	12.3	41CV	
	1205-20	1-3/4 – 14-1/2 lb.	2"	7-1/2"	White	10	15.5	41CV	
	1205-07-20	20 lb.	3/4"	4-1/8"	White	20	5.0	41CV	
	1205V07	5 lb.	3/4" w/VITON	4-1/8"	White	20	5.0	41CV	
	White PVC S x	S							
White	1225-07	2-1/2 - 5 lb.	3/4"	4-1/8"	White	20	4.5	41CV	Adjusting nut 1-1/2 turn = 1
PVC S x S	1225-10	4-1/4 – 17 lb.	1"	5-1/4"	White	20	8.5	41CV	lb. force NSF/ANSI 61+372
	1225-15	3-1/2 - 50 lb.	1-1/2"	6-3/16"	White	15	13.5	41CV	Except: 1228V15
-	1228V15	30 lb.	1-1/2"	6-3/16" w/VITON	White	15	12.5	41CV	·



		Part No.	Spring Tension	IPS Size	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications			
White PVC FPT x MPT		White PVC FPT	x MPT										
		1235-05	2 – 4-1/2 lb.	1/2"	4-1/8"	White	20	4.5	41CV	PVC. Adjusting nut 1-1/2			
		1235-07	2-1/2 – 5 lb.	3/4"	4-1/8"	White	20	4.5	41CV	turn = 1 lb. force NSF/ANSI 61+372			
		1235-10	4-1/4 – 17 lb.	1"	5-1/4"	White	20	8.5	41CV	NOF/ANOI 01+372			
White PVC		1235-05-30	30 lb.	1/2"	4-1/8"	White	20	4.5	41CV				
True Union	E D	White PVC True	Vhite PVC True Union										
		1750-20	1 – 14 lb.	2" U x U	9-3/4"	White	10	23.0	41CV	PVC. Adjusting nut 1-1/2			
		1753-20	15 – 30 lb.	2" U x U	9-3/4"	White	10	23.0	41CV	turn = 1 lb. force NSF/ANSI 61+372			
Vacuum		Vacuum Relief	Valve										
Relief Valve		1171V57	1/2 lb.	1/2" S x 3/4" MPT	4-1/8"	Black	20	4.0	41CV	Adjusting nut 1-1/2 turn =			
Factory Set at 1/2 lb.										1 lb. force. Polypropylene with cap and VITON seals Not yet rated			

Adjustable Inline Spring Check Valve

		Part No.	Ref. No.	IPS Size & Connection	Body Length	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
FF		Gray PVC							
	A HIP	CV-0500-FF	1100-05	1/2" FPT x FPT	2-3/4"	100	11.0	41CV	Preset @ approx. 5 lb. with
	and the second	CV-0500-FM		1/2" FPT x MPT	2-1/2"	100	11.0	41CV	EPDM Seal. Adjusting nut
		CV-0500-MF	1101-05	1/2" MPT x FPT	2-3/4"	100	11.0	41CV	1-1/2 turn = 1 lb. force
		CV-0575-FM		1/2" FPT x 3/4" MPT	2-1/2"	100	13.0	41CV	
FM	In HIE	CV-0750-FF	1100-07	3/4" FPT x FPT	3"	60	8.2	41CV	
	and the second	CV-0750-FM	1102-07	3/4" FPT x MPT	2-7/8"	60	8.2	41CV	
		CV-0750-MF	1101-07	3/4" MPT x FPT	2-7/8"	60	8.2	41CV	
		CV-1000-FF	1100-10	1" FPT x FPT	3"	40	9.0	41CV	
MF	11185	CV-1000-FM		1" FPT x MPT	3"	40	7.0	41CV	
		CV-1000-MF		1" MPT x FPT	3"	40	7.0	41CV	
		White PVC							
WCV	12	WCV-1000-MF		1" MPT x FPT	3"	40	7.0	41CV	Preset @ approx. 5 lb. with EPDM Seal. Adjusting nut 1-1/2 turn = 1 lb. force
		UV Resistant Tar	n PVC						
		UCV-0500-FF		1/2" FPT x FPT	2-3/4"	100	11.0	41CV	UV Resistant PVC
UCV	1111a	UCV-0500-MF		1/2" MPT x FPT	2-3/4"	100	11.0	41CV	
001	3 11	UCV-0750-FF		3/4" FPT x FPT	3"	60	8.2	41CV	
	0	UCV-0750-MF		3/4" MPT x FPT	2-7/8"	60	8.2	41CV	
		UCV-1000-FF		1" FTP x FPT	3"	40	9.0	41CV	

Breakaway Coupling Valves

Flo-Check Breakaway Coupling — Cal Trans Orange	

Part No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
Flo-Check Break	kaway Coupling – Cal Trans Orange						
1010-05-0	1/2" FPT x 1/2" FPT	2-1/4"	Orange	30	2.5	41CV	Rated @ 150 PSI
1010-07-0	3/4" FPT x 3/4" FPT	2-3/8"	Orange	25	3.5	41CV	Static Pressure @ 72°F

Note: To be used on galvanized or iron pipe only.

Swing Check Valves - Series 1500 (Rated @ 125 PSI Static Pressure @ 72°F)

			IPS Size &	Body		Pkg.	Case	Product	
White PVC	Part No.	Ref. No.	Connection	Length	Color	Qty.	(lbs.)	Class	Specifications
Compression	White PVC Con								
	1500-12	KSC-1250-C	1-1/4" UC x UC	8-1/2"	White	12	13.6	41CV	NSF/ANSI 61+372
and the second s	1500-15	KSC-1500-C	1-1/2" UC x UC	8-1/2"	White	12	14.2	41CV	
·	1500-20	KSC-2000-C	2" UC x UC	9-1/2"	White	12	20.8	41CV	
	1500-30	KSC-3000-C	3" UC x UC	13-3/8"	White	2	10.1	41CV	
Clear PVC	Clear PVC Com	pression							
Compression	1500C15	KSCC-1500-C	1-1/2" UC x UC	8-1/2"	Clear	12	14.2	41CV	Clear PVC with white
	1500C20	KSCC-2000-C	2" UC x UC	9-31/2"	Clear	12	20.8	41CV	CAPS NFS/ANSI 61+372
01-2-2-	White PVC Three	eaded							
	1520-05F	KSC-0500-T	1/2" FPT x FPT	3-1/2"	White	20	4.0	41CV	PVC
	1520-07F	KSC-0750-T	3/4" FPT x FPT	3-1/2"	White	25	6.0	41CV	NSF/ANSI 61+372
White PVC	1520-10F	KSC-1000-T	1" FPT x FPT	5-1/8"	White	25	9.8	41CV	
Threaded	1520-12F	KSC-1250-T	1-1/4" FPT x FPT	5-1/4"	White	12	7.6	41CV	
	1520-15F	KSC-1500-T	1-1/2" FPT x FPT	5-3/4"	White	12	8.2	41CV	
	1520-20F	KSC-2000-T	2" FPT x FPT	6"	White	12	12.4	41CV	
	White PVC S x	S							
	1520-05	KSC-0500-S	1/2" S x S	3-1/2"	White	20	4.0	41CV	PVC
	1520-07	KSC-0750-S	3/4" S x S	3-1/2"	White	25	6.0	41CV	NSF/ANSI 61+372
	1520-10	KSC-1000-S	1" S x S	5-1/8"	White	25	9.8	41CV	Except: 1520V20
White PVC	1520-12	KSC-1250-S	1-1/4" S x S	5-1/4"	White	12	7.6	41CV	
SxS	1520-15	KSC-1500-S	1-1/2" S x S	5-3/4"	White	12	8.2	41CV	
	1520-20	KSC-2000-S	2" S x S	6"	White	12	12.4	41CV	
	1520-30		3" S x S	9"	White	4	11.0	41CV	
	1520-40		4" S x S	9-1/2"	White	1	4.3	41CV	
	1520V20		2" S x S w/ VITON Seal	6"	White	12	12.4	41CV	
	Clear PVC Thre	aded							
	1520C05F	KSCC-0500-T	1/2" FPT x FPT	3-1/2"	Clear	20	4.0	41CV	Clear PVC
Clear PVC	1520C07F	KSCC-0750-T	3/4" FPT x FPT	3-1/2"	Clear	25	6.0	41CV	NSF/ANSI 61+372
Threaded	1520C10F	KSCC-1000-T	1" FPT x FPT	5-1/8"	Clear	25	9.8	41CV	
C-IL-	1520C15F	KSCC-1500-T	1-1/2" FPT x FPT	5-3/4"	Clear	12	7.6	41CV	
	1520C15FV	KSCC-1500-T	1-1/2" FPT x FPT	5-3/4"	Clear	12	7.0	41CV	
	1520C20F	KSCC-2000-T	2" FPT x FPT	6"	Clear	12	8.2	41CV	
	Clear PVC S x S								
	1520C05	KSCC-0500-S	1/2" S x S	3-1/2"	Clear	20	4.0	41CV	Clear PVC
	1520C07	KSCC-0750-S	3/4" S x S	3-1/2"	Clear	25	6.0	41CV	NSF/ANSI 61+372
	1520C10	KSCC-1000-S	1" S x S	5-1/8"	Clear	25	9.8	41CV	Except
Clear PVC S x S	1520C12	KSCC-1250-S	1-1/4" S x S	5-1/4"	Clear	12	7.6	41CV	1520C15V, 1520C20V
	1520C15	KSCC-1500-S	1-1/2" S x S	5-3/4"	Clear	12	8.2	41CV	
	1520C20	KSCC-2000-S	2" S x S	6"	Clear	12	12.4	41CV	
	1520C30		3" S x S	9"	Clear	4	11.0	41CV	
	1520C40		4" S x S	9-1/2"	Clear	1	4.3	41CV	
	1520C15V		1-1/2" S x S w/ VITON Seal	5-3/4"	Clear	12	8.2	41CV	
	10200100		1 1/2 OXOW/ WIGH Seal	0 0/4	oloai	12	0.2	4100	



Swing Check Valves - Series 1700 & Low-Profile (Rated @ 125 PSI Static Pressure @ 72°F)

White PVC	Part No.	Ref. No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
True Union	White PVC True	e Union							
	1720-07		3/4" U x U	5-1/2"	White	20	10.0	41CV	PVC
	1720-10		1" U x U	6-7/8"	White	20	15.0	41CV	NSF/ANSI 61+372
	1720-15	KSC-1500-SU	1-1/2" U x U	8"	White	12	14.2	41CV	
	1720-20	KSC-2000-SU	2" U x U	9-5/8"	White	12	22.6	41CV	
	1720-30	KSC-3000-SU	3" U x U	13-1/4"	White	6	24.7	41CV	
Clear PVC	Clear PVC True	Union							
True Union	1720C07	KSCC-0750-SU	3/4" U x U	5-1/2"	Clear	20	10.0	41CV	PVC
	1720C10	KSCC-1000-SU	1" U x U	6-7/8"	Clear	20	15.0	41CV	Clear body with white nuts
	1720C15	KSCC-1500-SU	1-1/2" U x U	8"	Clear	12	14.2	41CV	and tailpieces NSF/ANSI 61+372
	1720C20	KSCC-2000-SU	2" U x U	9-5/8"	Clear	12	22.6	41CV	NSI/ANSI 01+372
	1720C30	KSCC-3000-SU	3" U x U	13-1/4"	Clear	6	24.7	41CV	
	PVC Low-Profi	le Swing Check Val	ve						
PVC Low- Profile Swing	KSL-0750-S		3/4 "	5"	White	18	8.2	41CV	PVC
Check Valve	KSL-1000-S		1"	4-3/4"	White	18	7.3	41CV	NSF/ANSI 61+372
~	KSL-1250-S		1-1/4"	5-1/4"	White	12	8.2	41CV	
	KSL-1500-S		1-1/2"	5-1/2"	White	12	8.8	41CV	
	KSL-2000-S		2"	6-1/2"	White	8	8.2	41CV	

FLOW MANAGEMENT

Sump Pump Valve

Sump Pump Valves (Rated @ 125 PSI Static Pressure @ 72°F)

Part No.	Ref No.	IPS Size & Connection	Body Length	Check Valve Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
Sump Pump Valve								
1400-15		1-1/4" or 1-1/2" UC	5-1/4"	White	12	7.6	41CV	Buna "N" Gaskets are included in both 1-1/4" and 1-1/2" size applications

Checkmate (Rated @ 125 PSI Static Pressure @ 72°F)

UxS	Part No.	Ref No.	IPS Size & Connection	Body Length	Check Valve Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
THE	Checkmate								
	2200-15	BCX-1500-S	1-1/2" U x S	8"	White	12	19.6	41BV	
UxU	2200-15UC		1-1/2" UC x UC	10-3/4"	White	12	24.4	41BV	Motor
	2200-15TU		1-1/2" U x U	10-1/2"	White	12	25.6	41BV	Discharge
	2200-20	BCX-2000-S	2" U x S	9-3/8"	White	12	28.0	41BV	Check Valve
	2200C20TU		2" U x U	12-3/8"	Clear	12	37.0	41BV	or Checkmate
UC x UC	2200-20UC		2" UC x UC	12-5/16"	White	12	35.8	41BV	
Contraction of the second	2200-20TU		2" U x U	12-3/8"	White	12	37.0	41BV	

POOL DIVERTER VALVE

CPVC Three-Way			Body				Product	
Diverter Valve	Part No.	IPS Size & Connection	Length	Color	Pkg. Qty.	Case (lbs.)	Class	Specifications
a.e.s	CPVC Three-Way	v Diverter Valve						
	1930-15	1-1/2"	7"	Tan	1	2.2	41PV	Rated @ 125 PSI Static
PVC Single	1930-20	2" S x 2-1/2" Spg	7"	Tan	1	2.4	41PV	Pressure @ 160°F
Union Serviceable	PVC Single Unio	n Serviceable						
	1351-15	1-1/2" FPT x FPT	5-1/8"	White	12	13.6	41BV	Rated @ 150 PSI Static
	1351-20	2" FPT x FPT	6"	White	6	10.9	41BV	Pressure @ 72°F
PVC Single	PVC Single Unio	n Serviceable						
Union Serviceable	WSU-1520-S	1-1/2" + 2" x 1-1/2" + 2" IPS HUB and SPIGOT	5"	White	8	7.8	42LT	Rated @ 150 PSI Static Pressure @ 72°F

MIP (MOLDED-IN-PLACE) BALL VALVES (Rated @ 150 PSI Static Pressure @ 72°F)

	Part No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class
	MIP Non-Serviceal	DIE WHITE					
MIP	E1310-05	1/2" S x S	3-1/4"	White	36	6.4	41MV
Non-Serviceable	E1310-07	3/4" S x S	3-3/4"	White	18	5.5	41MV
WHITE	E1310-10	1" S x S	4-1/4"	White	25	11.0	41MV
1/2" – 2"	E1310-12	1-1/4" S x S	4-1/2"	White	12	9.4	41MV
	E1310-15	1-1/2" S x S	5-1/4"	White	12	10.0	41MV
	E1310-20	2" S x S	5-3/4"	White	6	7.9	41MV
	E1310-25	2-1/2" S x S	7"	White	6	19.3	41MV
	E1310-30	3" S x S	8-1/2"	White	2	8.8	41MV
	E1310-40	4" S x S	11-1/2"	White	1	10.0	41MV
	E1310-60	6" S x S	16"	White	1	22.3	41MV
MIP	E1320-05	1/2" FPT x FPT	3-1/4"	White	36	6.4	41MV
Non-Serviceable	E1320-07	3/4" FPT x FPT	3-1/4"	White	18	5.5	41MV
WHITE 2-1/2" – 4"	E1320-10	1" FPT x FPT	4-1/4"	White	25	11.0	41MV
2-1/2 -4	E1320-12	1-1/4" FPT x FPT	4-1/4"	White	12	9.4	41MV
	E1320-15	1-1/2" FPT x FPT	5-1/2"	White	12	10.0	41MV
	E1320-20	2" FPT x FPT	5-3/4"	White	6	7.9	41MV
	E1320-25	2-1/2" FPT x FPT	7"	White	6	19.3	41MV
	E1320-30	3" FPT x FPT	8-1/2"	White	2	8.8	41MV
	E1320-40	4" FPT x FPT	11-1/2"	White	1	10.0	41MV
						1010	
	Part No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class
МІР	Part No. MIP Non-Serviceal						
MIP Non-Serviceable							
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal	DIE (NSF) WHITE	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class
Non-Serviceable	MIP Non-Serviceal E1410-05	ole (NSF) WHITE 1/2" NSF S x S	Body Length 3-1/4"	Color White	Pkg. Qty. 36	Case (lbs.) 6.5	Product Class
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S	Body Length 3-1/4" 3-3/4"	Color White White	Pkg. Qty. 36 18	Case (lbs.) 6.5 5.9	Product Class 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4"	Color White White White	Pkg. Qty. 36 18 25	Case (lbs.) 6.5 5.9 12.4	Product Class 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2"	Color White White White White	Pkg. Qty. 36 18 25 12	Case (lbs.) 6.5 5.9 12.4 7.6	Product Class 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4"	Color White White White White White	Pkg. Qty. 36 18 25 12 12	Case (lbs.) 6.5 5.9 12.4 7.6 11.6	Product Class 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4"	Color White White White White White White	Pkg. Qty. 36 18 25 12 12 12 6	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25	ble (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/4" NSF S x S 2" NSF S x S 2-1/2" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7"	Color White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 6 6 6 2 1	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-30	ble (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/4" NSF S x S 2" NSF S x S 2" NSF S x S 3" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2"	Color White White White White White White White White	Pkg. Qty. 36 18 25 12 12 12 6 6 2	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) 1/2" - 2" WHITE VOICE MIP Non-Serviceable	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-20 E1410-30 E1410-40	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2-1/2" NSF S x S 3" NSF S x S 4" NSF S x S	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9"	Color White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 6 6 6 2 1	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) 1/2" - 2" WHITE Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-20 E1410-30 E1410-40 E1420-05	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2-1/2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4"	Color White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 6 6 6 2 1 36	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) 1/2" - 2" WHITE VOICE MIP Non-Serviceable	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-30 E1410-40 E1420-05 E1420-07	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2-1/2" NSF S x S 2-1/2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT 3/4" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4" 3-1/4"	Color White White White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 12 6 6 2 1 36 18	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7 6.1	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE 1/2" - 2"	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-25 E1410-30 E1410-40 E1420-05 E1420-07 E1420-10	Die (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2-1/2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT 3/4" NSF FPT x FPT 1" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4" 3-1/4" 4-1/4"	Color White White White White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 6 6 2 1 36 18 25	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7 6.1 13	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) WHITE 1/2" - 2"	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-25 E1410-30 E1410-40 E1420-05 E1420-07 E1420-10 E1420-12	Die (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2" NSF S x S 2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT 3/4" NSF FPT x FPT 1-1/4" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4" 3-1/4" 4-1/4" 4-1/4" 5-1/2" 5-3/4"	Color White White White White White White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 6 6 2 1 36 18 25 12 12 12 12 12 12 12 12 12 12	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7 6.1 13 8	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) 1/2" - 2" WHITE Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-30 E1410-30 E1410-40 E1420-05 E1420-07 E1420-10 E1420-12 E1420-15	ole (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2" NSF S x S 2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT 3/4" NSF FPT x FPT 1-1/4" NSF FPT x FPT 1-1/4" NSF FPT x FPT 1-1/2" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4" 3-1/4" 4-1/4" 4-1/4" 5-1/2"	Color White White White White White White White White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 12 6 6 6 2 1 36 18 25 12 12 36 18 25 12 12 6 6 6 2 1 12 12 6 6 6 6 2 12 12 12 12 12 12 12 12 12	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7 6.1 13 8 12	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV
Non-Serviceable (NSF) 1/2" - 2" WHITE Non-Serviceable (NSF) WHITE	MIP Non-Serviceal E1410-05 E1410-07 E1410-10 E1410-12 E1410-15 E1410-20 E1410-25 E1410-30 E1410-30 E1410-40 E1420-05 E1420-07 E1420-10 E1420-12 E1420-15 E1420-20	Die (NSF) WHITE 1/2" NSF S x S 3/4" NSF S x S 1" NSF S x S 1-1/4" NSF S x S 1-1/2" NSF S x S 2" NSF S x S 2-1/2" NSF S x S 3" NSF S x S 4" NSF S x S 1/2" NSF FPT x FPT 3/4" NSF FPT x FPT 1-1/4" NSF FPT x FPT 1-1/4" NSF FPT x FPT 2" NSF FPT x FPT 2" NSF FPT x FPT	Body Length 3-1/4" 3-3/4" 4-1/4" 4-1/2" 5-1/4" 5-3/4" 7" 8-1/2" 9" 3-1/4" 3-1/4" 4-1/4" 4-1/4" 5-1/2" 5-3/4"	Color White White White White White White White White White White White White White White White White White White	Pkg. Qty. 36 18 25 12 12 12 6 6 2 1 36 18 25 12 13 25 12 12 6 6 6 2 1 36 18 25 12 12 12 12 12 12 12 12 12 12	Case (lbs.) 6.5 5.9 12.4 7.6 11.6 9.6 15 12.8 9.9 6.7 6.1 13 8 12 10	Product Class 41MV 41MV 41MV 41MV 41MV 41MV 41MV 41MV



MIP (MOLDED-IN-PLACE) BALL VALVES (Rated @ 150 PSI Static Pressure @ 72°F)

MIP Non-Serviceable GRAY



Part No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class
MIP Non-Serviceab	le GRAY					
E1610-05	1/2" S x S	3-1/4"	Gray	36	6.4	41MV
E1610-07	3/4" S x S	3-3/4"	Gray	18	5.5	41MV
E1610-10	1" S x S	4-1/4"	Gray	25	11.0	41MV
E1610-12	1-1/4" S x S	4-1/2"	Gray	12	9.4	41MV
E1610-15	1-1/2" S x S	5-1/4"	Gray	12	10.0	41MV
E1610-20	2" S x S	5-3/4"	Gray	6	7.9	41MV
E1610-60	6" S x S	16"	Gray	1	22.3	41MV
E1620-05	1/2" FPT x FPT	3-1/4"	Gray	36	6.4	41MV
E1620-07	3/4" FPT x FPT	3-1/4"	Gray	18	5.5	41MV
E1620-10	1" FPT x FPT	4-1/4"	Gray	25	11.0	41MV
E1620-12	1-1/4" FPT x FPT	4-1/4"	Gray	12	9.4	41MV
E1620-15	1-1/2" FPT x FPT	5-1/2"	Gray	12	10.0	41MV
E1620-20	2" FPT x FPT	5-3/4"	Gray	6	7.9	41MV

TRUE UNION BALL VALVES

C Sch. 80	Part No.	IPS Size & Connection	Body Length	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
le Union	PVC Sch. 80 True	e Union Serviceable					
rviceable	BTU-0500-E	1/2" EPDM Slip & Threaded	4"	18	8.2	42BV	
	BTU-0500-V	1/2" VITON Slip & Threaded	4"	18	8.2	42BV	
1 de E	BTU-0750-E	3/4" EPDM Slip & Threaded	4-3/4"	10	7.5	42BV	
	BTU-0750-V	3/4" VITON Slip & Threaded	4-3/4"	10	7.5	42BV	
	BTU-1000-E	1" EPDM Slip & Threaded	5-1/4"	8	8.6	42BV	
	BTU-1000-V	1" VITON Slip & Threaded	5-1/4	8	8.6	42BV	
	BTU-1250-E	1-1/4" EPDM Slip & Threaded	6"	4	7.6	42BV	Connection
	BTU-1250-V	1-1/4" VITON Slip & Threaded	6"	4	7.6	42BV	in both slip
	BTU-1500-E	1-1/2" EPDM Slip & Threaded	6-1/4"	4	7.8	42BV	& threaded included
	BTU-1500-V	1-1/2" VITON Slip & Threaded	6-1/4"	4	7.8	42BV	Rated
	ВТU-2000-Е	2" EPDM Slip & Threaded	7"	2	6.0	42BV	@ 150 PSI Static
	BTU-2000-V	2" VITON Slip & Threaded	7"	2	6.0	42BV	Pressure
	BTU-2500-SE	2-1/2" SLIP EPDM	11"	1	11.0	42BV	@ 72°F
	BTU-2500-TE	2-1/2" FPT EPDM	11"	1	11.0	42BV	
C Sch. 80	BTU-3000-SE	3" SLIP EPDM	11"	1	11.4	42BV	
e Union	BTU-3000-TE	3" FPT EPDM	11"	1	11.4	42BV	
dles	BTU-3000-TV	3" FPT with Viton O-Rings	11"	1	11.4	42BV	
	BTU-4000-SE	4" SLIP EPDM BLK TRUE UNION	12-1/2"	1	19.1	42BV	
	BTU-4000-TE	4" FPT EPDM BLK TRUE VALVE	12-1/2"	1	19.1	42BV	
	PVC Sch. 80 True	e Union Handles					
	BTU-0500-HL	1/2" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	
	BTU-0750-HL	3/4" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	
	BTU-1000-HL	1" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	
	BTU-1250-HL	1-1/4" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	
	BTU-1500-HL	1-1/2" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	
	BTU-2000-HL	2" Red Blocked True Union Handle	N/A	N/A	N/A	96MC	

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PVC LO-TORQUE BALL VALVES (GRAY)

PVC Sch. 80	
LO-TORQUE	



Part No.	IPS Size & Connection	Body Length	Pkg. Qty.	Case (lbs.)	Product Class	Specifications
PVC Sch. 80 LO-	TORQUE					
LT-0500-S	1/2" LO-TORQUE BALL VALVE SLIP	3-1/2"	36	8.2	42LT	
LT-0500-T	1/2" LO-TORQUE VALVE FPT	3-1/2"	36	8.2	42LT	
LT-0750-S	3/4" LO-TORQUE BALL VALVE SLIP	4"	24	9.4	42LT	
LT-0750-T	3/4" LO-TORQUE BALL VALVE FPT	4"	24	9.4	42LT	Rated
LT-1000-S	1" LO-TORQUE BALL VALVE SLIP	4-1/2"	18	10.0	42LT	@ 150 PSI
LT-1000-T	1" LO-TORQUE BALL VALVE FPT	4-1/2"	18	10.0	42LT	Static Pressure
LT-1250-S	1-1/4" LO-TORQUE BALL VALVE SLIP	5-1/4"	8	7.8	42LT	@ 72°F
LT-1250-SC	1-1/4" GRAY CPVC BALL VALVE SLIP	5-1/4"	8	7.8	42LT	NSF/ANSI 61+732
LT-1250-T	1-1/4" LO-TORQUE BALL VALVE FPT	5-1/4"	8	7.8	42LT	(Except Viton)
LT-1500-S	1-1/2" LO-TORQUE BALL VALVE SLIP	5-3/4"	6	7.3	42LT	UPC
LT-1500-T	1-1/2" LO-TORQUE BALL VALVE FPT	5-3/4"	6	7.3	42LT	
LT-2000-S	2" LO-TORQUE BALL VALVE SLIP	6-1/2"	4	7.8	42LT	
LT-2000-T	2" LO-TORQUE BALL VALVE FPT	6-1/2"	4	7.8	42LT	

LO-TORQUE BALL VALVES (WHITE)

Р

PVC Sch. 40 LO-TORQ



Part No.	IPS Size & Connection	Body Length	Pkg. Qty.	Case (lbs.)	Product Class	Specifications				
PVC Sch. 40 LO-1	/C Sch. 40 LO-TORQ									
WLT-0500-S	1/2" Sch. 40 LO-TORQUE VALVE/SLIP	3-1/2"	36	8.2	42LT					
WLT-0500-T	1/2" Sch. 40 LO-TORQUE VALVE/FPT	3-1/2"	36	8.2	42LT					
WLT-0750-S	3/4" Sch. 40 LO-TORQUE VALVE/SLIP	4"	24	9.4	42LT	PVC				
WLT-0750-T	3/4" Sch. 40 LO-TORQUE VALVE/FPT	4"	24	9.4	42LT	Rated				
WLT-1000-S	1" Sch. 40 LO-TORQUE VALVE/SLIP	4-1/2"	18	10.0	42LT	@ 150 PSI				
WLT-1000-T	1" Sch. 40 LO-TORQUE VALVE/FPT	4-1/2"	18	10.0	42LT	Static Pressure				
WLT-1250-S	1-1/4" Sch. 40 LO-TORQUE VALVE/SLIP	5-1/4"	8	7.8	42LT	@ 72°F				
WLT-1250-T	1-1/4" Sch. 40 LO-TORQUE VALVE/FPT	5-1/4"	8	7.8	42LT	NSF/ANSI				
WLT-1500-S	1-1/2" LO-TORQUE BALL VALVE/SLIP	5-3/4"	6	7.3	42LT	61+372				
WLT-1500-T	1-1/2" LO-TORQUE BALL VALVE/FPT	5-3/4"	6	7.3	42LT	UPC				
WLT-2000-S	2" SCH. 40 LO-TORQUE VALVE/SLIP	6-1/2"	4	7.8	42LT					
WLT-2000-T	2" SCH. 40 LO-TORQUE VALVE/FPT	6-1/2"	4	7.8	42LT					

CPVC CTS BALL VALVES



Part No.	IPS Size & Connection	Body Length	Pkg. Qty.	Case (lbs.)	Product Class	Specifications	
CPVC CTS Ball Valve TAN							
C1310-05	1/2" CTS S x S	3-1/4"	25	6.0	41MV		
C1310-07	3/4" CTS S x S	4"	25	7.0	41MV		
C1310-10	1" CTS S x S	4-1/4"	25	11.0	41MV		
C1310-12	1-1/4" CTS S x S	4-1/2"	25	14.0	41MV		
C1310-15	1-1/2" CTS S x S	5-1/2"	25	14.0	41MV		
C1310-20	2" CTS S x S	6"	15	18.0	41MV		



GATE VALVES

PVC Sch. 40 Gate Valve WHITE





PVC UNIONS SCH. 80

		Part No.	IPS Size & Connection	Body Length	Color	Pkg. Qty.	Caee (lbs.)	Product Class	Specifications
		Sch. 80 Union S	LIP x SLIP						
		U-0500-S	1/2" PVC Sch. 80 Union Slip	2"	Gray	48	5.8	42UN	
Sch. 80 Union	1	U-0750-S	3/4" PVC Sch. 80 Union Slip	2-1/2"	Gray	24	5.8	42UN	
SLIP x SLIP	1111-	U-1000-S	1" PVC Sch. 80 Union Slip	2-3/4"	Gray	18	5.5	42UN	
		U-1250-S	1-1/4" PVC Sch. 80 Union Slip	3-1/4"	Gray	12	5.8	42UN	
		U-1500-S	1-1/2" PVC Sch. 80 Union Slip	3-3/4"	Gray	12	8.2	42UN	
		U-2000-S	2" PVC Sch. 80 Union Slip	4"	Gray	6	6.1	42UN	
		U-2500-S U-3000-S	2-1/2" Gray PVC Union Slip	5" 6"	Gray	4 2	6.8 E 0	42UN 42UN	
		U-4000-S	3" Gray PVC Union Slip 4" Gray PVC Union Slip	0 7-1/4"	Gray Gray	2	5.0 7.6	420N	
		Sch. 80 Union F	, ,	7-1/4	uray	2	7.0	42011	
		U-0500-T	1/2" PVC Sch. 80 Union/Threaded	2"	Gray	48	5.8	42UN	
	G.F.D.	U-0750-T	3/4" PVC Sch. 80 Union/Threaded	2-1/2"	Gray	24	5.8	42UN	
Sch. 80 Union		U-1000-T	1" PVC Sch. 80 Union/Threaded	2-3/4"	Gray	18	5.5	42UN	
FPT x FPT		U-1250-T	1-1/4" PVC Sch. 80 Union/Threaded	3-1/4"	Gray	12	5.8	42UN	
		U-1500-T	1-1/2" PVC Sch. 80 Union/Threaded	3-3/4"	Gray	12	8.2	42UN	
		U-2000-T	2" PVC Sch. 80 Union/Threaded	4"	Gray	6	6.1	42UN	
		U-2500-T	2-1/2" Gray PVC Threaded Union	5"	Gray	4	6.8	42UN	
		U-3000-T	3" Gray PVC Threaded Union	6"	Gray	2	5.0	42UN	
		U-4000-T	4" Gray PVC Threaded Union	7-1/4"	Gray	2	7.6	42UN	
		Sch. 80 Union S	LIP x MPT						
Cob. 00 Union	C St all star	U-0500-SM	1/2" Sch. 80 Union SLIP x MIPT	3"	Gray	48	8.2	42UN	
Sch. 80 Union SLIP x MPT		U-0750-SM	3/4" Sch. 80 Union SLIP x MIPT	3-1/2"	Gray	24	8.2	42UN	
		U-1000-SM	1" Sch. 80 Union SLIP x MIPT	4"	Gray	18	8.2	42UN	
		U-1250-SM	1-1/4" Sch. 80 Union SLIP x MIPT	4-1/2"	Gray	12	7.0	42UN	PVC
		U-1500-SM	1-1/2" Sch. 80 Union SLIP x MIPT	6-3/4"	Gray	8	6.6	42UN	Rated
		U-2000-SM	2" Sch. 80 Union SLIP x MIPT	5"	Gray	6	7.6	42UN	@ 150 PSI @
		Sch. 80 Union S							72°F
Sch. 80 Union		U-0500-ST	1/2" Sch. 80 Union SLIP x FIPT	2"	Gray	48	4.8	42UN	NSF/ANSI
SLIP x FPT		U-0750-ST	3/4" Sch. 80 Union SLIP x FIPT	2-1/2"	Gray	24	4.8	42UN	61+372
		U-1000-ST	1" Sch. 80 Union SLIP x FIPT	2-3/4"	Gray	18	4.5	42UN	(Except Viton) UPC (1/2-2"
		U-1500-ST U-2000-ST	1-1/2" Sch. 80 Union SLIP x FIPT 2" Sch. 80 Union SLIP x FIPT	3-3/4" 4"	Gray	8 6	4.8 5.1	42UN 42UN	Slip Only)
		Sch. 80 Union Fl		4	Gray	0	5.1	42011	
		U-0500-TM	1/2" Sch. 80 Union FIPT x MIPT	3"	Crov	48	8.2	42UN	
	F	U-0500-TM	3/4" Sch. 80 Union FIPT x MIPT	3 3-1/2"	Gray Gray	40 24	8.2 8.2	42UN 42UN	
Sch. 80 Union	Autol	U-1000-TM	1" Sch. 80 Union FIPT x MIPT	3-1/2 4"	Gray	18	8.2	42UN	
FPT x MPT	Jal 1	U-1500-TM	1-1/2" Sch. 80 Union FIPT x MIPT	4-3/4"	Gray	8	6.6	42UN	
		U-2000-TM	2" Sch. 80 Union FIPT x MIPT	5"	Gray	6	7.6	42UN	
		Sch. 80 Union S	LIP x SLIP Viton O-Ring						
		U-0500-SV	1/2" Sch. 80 SLIP Viton Union	2"	Gray	48	5.8	42UN	
		U-0750-SV	3/4" Sch. 80 SLIP Viton Union	2-1/2"	Gray	24	5.8	42UN	
	-	U-1000-SV	1" Sch. 80 SLIP Viton Union	2-3/4"	Gray	18	5.5	42UN	
Sch. 80 Union		U-1250-SV	1-1/4" Sch. 80 SLIP Viton Union	3-1/4"	Gray	12	5.8	42UN	
SLIP x SLIP Viton O-Ring		U-1500-SV	1-1/2" Sch. 80 SLIP Viton Union	3-3/4"	Gray	12	8.2	42UN	
vitori 0-riing	and the second s	U-2000-SV	2" Sch. 80 SLIP Viton Union	4"	Gray	6	6.1	42UN	
		U-2500-SV	2-1/2" Gray Union Slip - Viton	5"	Gray	4	6.8	42UN	
		U-3000-SV	3" Gray PVC Union Slip - Viton	6"	Gray	2	5.0	42UN	
		U-4000-SV	4" Gray PVC Union Slip - Viton	7-1/4"	Gray	2	7.6	42UN	
			PT x FPT Viton O-Ring						
		U-1000-TV	1" Sch. 80 THRD Viton Union	2-3/4"	Gray	18	5.5	42UN	
		U-1250-TV	1-1/4" Sch. 80 THRD Viton Union	3-1/4"	Gray	12	5.8	42UN	
Sch. 80 Union	CHELLER.	U-1500-TV	1-1/2" Sch. 80 THRD Viton Union	3-3/4"	Gray	12	8.2	42UN	
FPT x FPT		U-2000-TV U-2500-TV	2" Sch. 80 THRD Viton Union 2-1/2" Gray Union THRD - Viton	4" 5"	Gray	6 4	6.1	42UN	
Viton O-Ring	000	U-2000-TV U-3000-TV	3" Gray Union THRD - Viton	5 6"	Gray Gray	4	6.8 5.0	42UN 42UN	
		U-4000-TV	4" Gray Union THRD - Viton	0 7-1/4"	Gray	2	5.0 7.6	420N	
		0 1000 11		, .	anay	-	710	.2011	



PVC UNIONS SCH. 40

		Part No.	Description	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class	Specifications	
		Sch. 40 Union SLIP x SLIP								
	1	WU-0500-S	1/2" PVC SCH. 40 Union Slip	2"	White	48	5.8	42UN		
Sch. 40 Union SLIP x SLIP		WU-0750-S	3/4" PVC SCH. 40 Union Slip	2-1/2"	White	24	5.8	42UN		
SLIF & SLIF	COL	WU-1000-S	1" PVC SCH. 40 Union Slip	2-3/4"	White	18	5.5	42UN	PVC Rated	
		WU-1250-S	1-1/4" PVC SCH. 40 Union Slip	3-1/4"	White	12	5.8	42UN	@ 150 PSI @ 72°F	
		WU-1500-S	1-1/2" PVC SCH. 40 Union Slip	3-3/4"	White	12	8.2	42UN	NSF/ANSI 61+372 UPC (Slip Only)	
		WU-2000-S	2" PVC SCH. 40 Union Slip	4"	White	6	6.1	42UN		
		WU-3000-S	3" PVC SCH. 40 Union Slip	6"	White	2	5.0	42UN		
		WU-4000-S	4" PVC SCH. 40 Union Slip	7-1/4"	White	2	6.1	42UN		
		Sch. 40 Union Fl	Sch. 40 Union FPT x FPT							
		WU-0500-T	1/2" PVC SCH. 40 Union FPT	2"	White	48	5.8	42UN		
Sch. 40 Union FPT x FPT	(C)	WU-0750-T	3/4" PVC SCH. 40 Union FPT	2-1/2"	White	24	5.8	42UN		
	(A)	WU-1000-T	1" PVC SCH. 40 Union FPT	2-3/4"	White	18	5.5	42UN		
		WU-1250-T	1-1/4" PVC SCH. 40 Union FPT	3-1/4"	White	12	5.8	42UN		
		WU-1500-T	1-1/2" PVC SCH. 40 Union FPT	3-3/4"	White	12	8.2	42UN		
		WU-2000-T	2" PVC SCH. 40 Union FPT	4"	White	6	6.1	42UN		

FIRE HYDRANT CAP & SEWER CLEANOUT



Part No. Cap	IPS Size	Body Length	Color	Pkg. Qty.	Case (lbs.)	Product Class		
23-25T	2-1/2" FPT x 3/4" FPT	4-3/4"	Gray	15	7.0	41UN		
Cleanout								
22-040	4" SEWER CLEANOUT	9-1/4"	Black	6	9.1	41UN		

SADDLES

Flo-Tap[™] Hot/Wet Taps for PVC Pipe (Rated @ 200 PSI Static Pressure @ 72°F)



Pipes 1"	The second
ines	
	S

Part No.	Pipe Size	Branch Size & Connection	Color	Pkg. Qty.	(lbs.)	Class	Specifications
For PVC Pipes 3/	4" and 1" Service Lin	es					
3115	1-1/2"	3/4" S x 1" SPG	Gray	5	5.5	41FS	
3120	2"	3/4" S x 1" SPG	Gray	5	6.0	41FS	For PVC Pipe
3125	2-1/2"	3/4" S x 1" SPG	Gray	5	6.0	41FS	Pressure Rated @ 200 PSI @ 72°F
3130	3"	3/4" S x 1" SPG	Gray	5	11.0	41FS	NSF/ANSI 61+372
3140	4"	3/4" S x 1" SPG	Gray	5	11.0	41FS	PVC Type II
3160	6"	3/4" S x 1" SPG	Gray	5	13.0	41FS	
For PVC Pipes 1-	1/2" and 2" Service L	ines					
3220	2"	1-1/2" S x 2" SPG	Gray	5	9.5	41FS	
3225	2-1/2"	1-1/2" S x 2" SPG	Gray	5	9.5	41FS	
3230	3"	1-1/2" S x 2" SPG	Gray	5	15.0	41FS	
3240	4"	1-1/2" S x 2" SPG	Gray	5	14.0	41FS	
3260	6"	1-1/2" S x 2" SPG	Gray	5	20.0	41FS	
3280	8"	1-1/2" S x 2" SPG	Gray	5	25.0	41FS	

Case

Product

For PVC Pipes 1-1/2" and 2" Service Lines

RIGID CLAMP-IT™ SADDLES

For Poly Pipe IPS Pipe Sizes – PVC-IPS Fixed Outlet



For PVC IPS Pipe Sizes – PVC-IPS Fixed Outlet



					Case	Product	
Part No.	IPS Pipe Size	IPS Tap Size & Connection	Color	Pkg. Qty.	(lbs.)	Class	Specifications
	S Pipe Sizes – PVC-IPS						
321507P	1-1/2"	3/4" FPT	Gray	25	9.0	41FS	
321510P	1-1/2"	1" FPT	Gray	25	9.0	41FS	For polyethylene
331510P 322010P	1-1/2" 2"	1" S 1" FPT	Gray	25 25	9.0 9.0	41FS 41FS	tubing main line
322010P 332007P	2"	3/4" S	Gray Gray	25 25	9.0 9.0	41FS 41FS	Pressure Rated @ 125 PSI @ 72°F
332007P	2"	1" S	Gray	25	9.0	4113 41FS	NSF/ANSI 61+372
353010P	3"	1" S	Gray	15	10.0	41FS	PVC Type II
344007P	4"	3/4" FPT	Gray	15	8.0	41FS	
	Sizes – PVC-IPS Fixed						
421507	1-1/2"	3/4" FPT	Gray	5	4.0	41FS	
421510	1-1/2"	1" FPT	Gray	5	4.5	41FS	
422007	2"	3/4" FPT	Gray	5	4.5	41FS	
422010	2"	1" FPT	Gray	5	4.5	41FS	
422012	2"	1-1/4" FPT	Gray	5	5.0	41FS	
422015	2"	1-1/2" FPT	Gray	5	5.0	41FS	
432007	2"	3/4" S	Gray	5	4.5	41FS	
432010	2"	1"S	Gray	5	4.5	41FS	
432012 432015	2" 2"	1-1/4" S 1-1/2" S	Gray Gray	5 5	4.5 5.0	41FS 41FS	
422507	2-1/2"	3/4" FPT	Gray	5	5.0	4113 41FS	
422510	2-1/2"	1" FPT	Gray	5	5.0	41FS	
422515	2-1/2"	1-1/2" FPT	Gray	5	5.0	41FS	
422520	2-1/2"	2" FPT	Gray	5	5.0	41FS	
432510	2-1/2"	1" S	Gray	5	5.0	41FS	
432515	2-1/2"	1-1/2" S	Gray	5	5.0	41FS	
432520	2-1/2"	2" S	Gray	5	5.0	41FS	
443007	3"	3/4" FPT	Gray	5	8.0	41FS	
443010	3"	1" FPT	Gray	5	8.0	41FS	
443012	3"	1-1/4" FPT	Gray	5	8.5	41FS	
443015	3"	1-1/2" FPT	Gray	5	8.5	41FS	
443020	3"	2" FPT	Gray	5	8.5	41FS	
453007 453010	3" 3"	3/4" S 1" S	Gray	5 5	8.0 8.0	41FS 41FS	For PVC pipe
453010	3"	1-1/4" S	Gray Gray	5	8.0	41FS 41FS	main line
453012	3"	1-1/2" S	Gray	5	8.5	41FS	Pressure Rated @ 200 PSI @ 72°F
453020	3"	2" S	Gray	5	8.5	41FS	NSF/ANSI 61+372
444007	4"	3/4" FPT	Gray	5	9.5	41FS	PVC Type II
444010	4"	1" FPT	Gray	5	9.5	41FS	
444012	4"	1-1/4" FPT	Gray	5	10.0	41FS	
444015	4"	1-1/2" FPT	Gray	5	10.0	41FS	
444020	4"	2" FPT	Gray	5	10.0	41FS	
454007	4"	3/4" S	Gray	5	9.5	41FS	
454010	4"	1" S	Gray	5	9.5	41FS	
454015	4"	1-1/2" S	Gray	5	9.5	41FS	
454020 446007	4" 6"	2" S 3/4" FPT	Gray	5 5	9.5 12.0	41FS 41FS	
446010	6"	1" FPT	Gray Gray	5	12.0	41FS 41FS	
446012	6"	1-1/4" FPT	Gray	5	12.0	41FS	
446012	6"	1-1/2" FPT	Gray	5	12.5	4115 41FS	
446020	6"	2" FPT	Gray	5	12.5	41FS	
456010	6"	1" S	Gray	5	11.5	41FS	
456015	6"	1-1/2" S	Gray	5	12.0	41FS	
456020	6"	2" S	Gray	5	12.0	41FS	
448007	8"	3/4" FPT	Gray	5	17.0	41FS	
448010	8"	1" FPT	Gray	5	17.0	41FS	
448015	8"	1-1/2" FPT	Gray	5	17.0	41FS	
448020	8"	2" FPT	Gray	5	17.0	41FS	
458015	8"	1-1/2" S	Gray	5	17.0	41FS	
458020	8"	2" S	Gray	5	17.0	41FS	



SWING JOINTS



PVC Sch. 40 Swing Assembly WHITE

Part No.	Description	Color	Pkg. Qty.	Product Class	Specifications
PVC Sch. 80 Sv	ving Assembly				
TSA-0500-BB	1/2" (BSP x BSP)	Gray	60	42TS	
TSA-0500-ST	1/2" S x M	Gray	60	42TS	
TSA-0500-TT	1/2" M x M	Gray	60	42TS	
TSA-0750-BB	3/4" (BSP x BSP)	Gray	50	42TS	
TSA-0750-CT	3/4" SCKT x MIPT	Gray	50	42TS	
TSA-0750-LT	3/4" LONG SPGT/MIPT	Gray	50	42TS	
TSA-0750-SC	3/4" S x S	Gray	50	42TS	
TSA-0750-ST	3/4" S x M	Gray	50	42TS	
TSA-0750-TT	3/4" M X M	Gray	50	42TS	PVC Rated @ 315 PS
TSA-1000-BB	1" (BSP x BSP)	Gray	25	42TS	@ 72°F
TSA-1000-ST	1" S x M	Gray	25	42TS	
TSA-1000-TT	1'' M x M	Gray	25	42TS	
TSA-1250-TT	1-1/4" M x M	Gray	15	42TS	
TSA-1500-SA	1-1/2" S x ACME	Gray	15	42TS	
TSA-1500-ST	1-1/2" S x M	Gray	15	42TS	
TSA-1500-TT	1-1/2" M x M	Gray	15	42TS	
TSA-1512-ST	1-1/2" X 1-1/4" SPIGOT x MIPT	Gray	15	42TS	
TSA-1512-TT	1-1/2" X 1-1/4" (MIPT x MIPT)	Gray	15	42TS	
PVC Sch. 40 Sv	ving Assembly				
WSA-0500-TT	1/2" (T x T)	White	60	42TS	
WSA-0750-TT	3/4" (T x T)	White	50	42TS	PVC Rated @ 315 PSI
WSA-1000-TT	1" (T x T)	White	25	42TS	@ 72°F
WSA-1250-TT	1-1/4" (T x T)	White	25	42TS	

ECONOMY SWING JOINTS

PVC/Poly Econo Swing Joints

Part No.	Description	Color	Pkg. Qty.	Product Class	Specifications
PVC/Poly Econo					
TSE-0500-6	1/2" x 6" MIPT x MIPT	Black	100	42TS	
TSE-0500-6R	1/2" x 6" MIPT x MIPT	Black	50	42TS	
TSE-0500-12	1/2" x 12" MIPT x MIPT	Black	50	42TS	
TSE-0500-12R	1/2" x 12" MIPT x MIPT	Black	50	42TS	
TSE-0507-6	1/2" x 3/4" x 6" MIPT x MIPT	Black	50	42TS	
TSE-0507-6R	1/2" x 3/4" x 6" MIPT x MIPT	Black	50	42TS	Rated @ 70 PSI @ 72°F
TSE-0507-12	1/2" x 3/4" x 12" MIPT x MIPT	Black	50	42TS	6721
TSE-0750-6	3/4" x 6" MIPT x MIPT	Black	50	42TS	
TSE-0750-6R	3/4" x 6" MIPT x MIPT	Black	50	42TS	
TSE-0750-12	3/4" x 12" MIPT x MIPT	Black	50	42TS	
TSE-0750-12R	3/4" x 12" MIPT x MIPT	Black	50	42TS	
"R" Indicates A					

LANDSCAPE SPRINKLER PRODUCTS

				04-	Duradurat			
		Part No.	Description	Ctn. Qty.	Product Class	Specifications		
		Cut-Off Risers						
		FCO-0500	1/2" x 6" Flex Cut-Off	50	42LS			
	8 8	FCO-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Flex-Cutoff	500	42LS			
0.1.110		MCO-0500	1/2" x 6" MIPT x MIPT Multi-Cutoff	500	42LS			
Cutoff Risers	8 T	MC0-0500-12	1/2" x 12" MIPT x MIPT Multi-Cutoff	250	42LS	Rated @ 70 PSI @ 72°F		
		MC0-0750	3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS			
		MC0-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS			
		Flex Risers						
		FR-0500-4	1/2" x 4" MIPT x MIPT Flex Riser	100	42LS			
		FR-0500-4F	1/2" x 4" MPT x FPT Flex Riser	100	42LS			
Flex Risers	Floy Risors	FR-0500-6	1/2" x 6" MIPT x MIPT Flex Riser	100	42LS			
	FR-0500-6F	1/2" x 6" MIPT x FIPT Flex Riser	100	42LS	Rated @ 70 PSI @ 72°F			
	- 8	FR-0750-6	3/4" x 6" MIPT x MIPT Flex Riser	50	42LS			
	-	FR-1000-7	1" x 7" MIPT x MIPT Flex Riser	25	42LS			
		Cutoff Riser Extension						
Cutoff Riser		CRE-0500-3	1/2" x 3" FIPT x MIPT Cutoff Riser Extension	200	42LS			
Extension		CRE-0750-4	3/4" x 4" FIPT x MIPT Cutoff Riser Extension	200	42LS	Rated @ 70 PSI @ 72°F		
		Street Elbows						
		STL-0500	1/2" 90° FIPT x MIPT Street Elbow	1600	42LS			
Street Elbows	1	STL-0750	3/4" 90° FIPT x MIPT Street Elbow	1000	42LS	Rated @ 70 PSI @ 72°F		
		Swing Pipe Fitting	js					
Swing Pipe		FPA-0500	Swing Pipe Adapter .490BARB x 1/2"	50	42LS			
Fittings		FPA-0750	3/4" Swing Pipe Adapter	250	42LS			
1.54		FPC-0490	.49" Swing Pipe Connector	250	42LS			
	0	FPE-0500	1/2" Swing Pipe Elbow	400	42LS			
	-	FPE-0500F	1/2" Swing Pipe Elbow FPT x Spiral Barb	400	42LS			
1		FPE-0750	3/4" Swing Pipe Elbow	250	42LS			
		FPT-0500	1/2" Swing Pipe Tee	500	42LS			
Shrub Adapter	Ô	Shrub Adapter						
eau nauptor		SAM-0500	1/2" Male Sprinkler Adapter	50	42LS	Rated @ 70 PSI @ 72°F		

BACKWATER VALVES



See list of products on pages 178-179.



Technical Data

NDS requires that the local and state plumbing codes be reviewed and understood prior to installing any of NDS Flow Management's products. These codes will provide proper installation procedures.

1. PVC Material Specification PVC Type I, Grade I, Cell Class 12454-B meeting requirements of ASTM D-1784-03 is used in the manufacturing of all fittings recommended for use of potable cold water (see chart C for temperature vs. pressure on page 165). Not recommended for use on systems exceeding 100 psi at 120 degrees F.

2. PVC Material Specification PVC Type II, Cell Class NSF14333 of ASTM D-1784 is used in manufacturing of fittings that require more chemical, heat, and impact resistance than PVC I.

3. CPVC Material Specification CPVC Type IV, Grade I, Cell Class 23447-B meeting requirements of ASTM D-1784-03 is used in the manufacturing of all fittings recommended for use on potable Hot Water Systems in accordance with ASTM D-2846-73. Not recommended for use on systems that will exceed 100 psi at 180 degrees F.

4. Buna-N Seals are in accordance with ASTM D-2000. It is generally resistant to many hydrocarbons, fats, oils, greases, hydraulic fluids and chemicals. It is generally attacked by Ozone, Ketones, Esters, Aldehydes, chlorinated and nitro hydrocarbons. Reference chemical resistance under NBR (Nitrile) Elastomers for specific listings.

5. EPDM O-Rings This o-ring material is made of high-quality EPDM (Ethylene Propylene Copolymer) which is in accordance with ASTM D-2000. EPDM has exceptionally good weather aging and ozone resistance, excellent water and chemical resistance, and excellent aging resistance for most applications. EPDM is a polymer where oil and solvent resistance is poor. However, it is fairly good in ketones and alcohols. Reference chemical resistance under EPDM, EPT, or EPR Elastomers for specific listings.

6. Viton O-Rings This o-ring material exhibits a broad range of chemical resistance: petroleum oils, silicone, grease, etc. We recommend you refer to a chemical resistance chart for specific applications. Maximum recommended service temperature is 400° F. Viton is a registered trademark of DuPont.

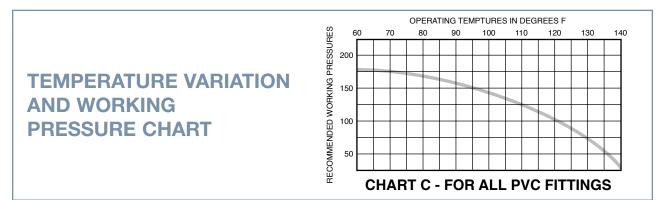
7. Double Seal of standard compression fitting. A compressive action is created as the cap is tightened squeezing the Buna-N seals into the tapered recessed areas of the cap and body. This process creates a highly concentrated pressure at the two "double seal" points, thus providing positive protection against leakage. (See Figure A on page 166)

8. Acme Thread General purpose 10 pitch and 5 pitch Acme thread on Compression Cap section eliminates the possibility of cross- threading. This smooth running design prevents binding or galling as is often experienced in standard tapered threads.

9. Springs Series 300 Stainless Steel.

Information

UPC #6-70686-



Important

Non-shock valves manufactured from PVC Type I material

WATER HAMMER – NDS requires that all PVC plastic piping systems be designed and constructed to AVOID EXCESSIVE WATER HAMMER. Water hammer can cause damage, and failure to pipe, valves, and fittings within the piping system. Not recommended in any shock applications.

NDS DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in exposed, compressed air or gas systems automatically voids our warranty for such products and its use against our recommendations is entirely the responsibility and liability of the installer. NDS will not accept responsibility for damage or impairment of its products, or other consequential or incidental damages caused by misapplication, incorrect assembly, and/or exposure to harmful substances or conditions. See warranty on inside back cover.

Check valves may be suitable for usage on grinder pump installations, provided the maximum recommended flow velocities through Flow Management plastic valves are not exceeded, the grinder pump system is inspected for proper usage, and on a preventative maintenance schedule. Note that excessive chemical contact and backpressure will cause the check valve gasket to deteriorate at a premature rate. Also, placing the check valve horizontal or at a 45° angle, instead of a vertical position, is recommended. Please follow local code guidelines.

Clamp-It[™] / Flo-Tap[™] Saddles

CLAMP-IT SADDLE DRILL SIZES		FLO-TAP™ HOT/WET TAP SADDLES			
OUTLET SIZE OVER 2-1/2" PIPE	DRILL SIZE	FOR 3/4" AND 1"	FOR 1-1/2" AND 2"		
3/4" IPS S & FPT	3/4"	To drive cutter use a standard 3/8" ratchet with a 6"	To drive auttor use a standard 1/01 retabet with		
1" IPS S & FPT	1"	extension. TAP Cuts .750" hole.	To drive cutter use a standard 1/2" ratchet with a 6" extension. TAP Cuts 1.250" hole.		
1-1/4" IPS S & FPT	1-1/4"	Captures Coupon - No pipe chips in water system. CAUTION: Do not tap any PVC pipes with wall			
1-1/2" IPS S & FPT	1-3/8"	thickness exceeding .540" (8"C - 900 SDR 18, CLASS	150). Refer to temperature variation and working		
2" IPS S & FPT	2"	pressure chart above for maximum pressure vs. maximum temperature.			
For 2-1/2" IPS Saddle with a 2" outlet – Drill	Size must be 1-1/2" due to pipe restriction	NOT FOR USE WITH COMPRESSED AIR OR NATURAL GAS LINES.			

Installation Instructions

NOTE: NDS does not recommend using an FPT (female) PVC fitting with an MPT (male) metal fitting; ASTM F1498. Unless the female PVC fitting is used with a metal reinforcement ring, it may expand beyond its strength around a metal fitting, which can result in cracks and leaks.

1. Compression Fittings

Compression cap should be drawn up hand-tight to insure proper alignment and seating of gasket, then tighten 3/4 to 1 turn with a Flo Spanner Wrench or strap wrench. Average torque should be approximately 25 foot-pounds on 1/2" through 2" IPS, and 35 foot-pounds on 2-1/2" and larger IPS. Compression fittings are not for use on compressed air lines or natural gas lines. When installing the Standard Compression Seal fittings the pipe line must be restrained from lateral movement by thorough soil compaction on straight runs and thrust blocking at change of direction or reduction in size. Not for use on pipe lines suspended on hangers.

2. Pipe Threads

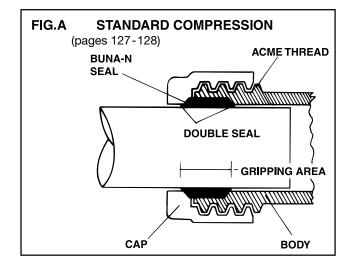
Use teflon tape on all IPS thread connections. IPS thread connection should be made hand-tight plus 1/2 to 3/4 turn with a wrench.

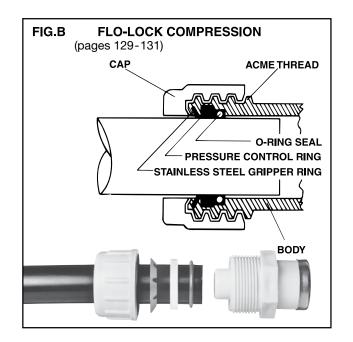
3. Flo-Lock Adapters

For use on polyethylene tube (PE) with wall thickness of SDR-26, Class 160 or greater, PVC pipe, or copper tubing. Not recommended for use on galvanized pipe unless surface is sanded smooth. (See Figure B)

4. Solvent Welding

NDS requires that all parts that are to be solvent cemented are clean of any and all foreign materials. Solvent cement manufacturers include installation instructions on the container. It is important to follow correct cementing instructions to avoid problems. Excessive cement or the incorrect type of cement can cause failures in thermoplastic products.





Pipe Size Legend

Abbreviation	Description
CTS	COPPER TUBE SIZE
IPS	IRON PIPE SIZE (SAME AS SCH. 40 OD)
DR	PE TUBING SIZE
PEP	PE PIPE (SIDR -7)
SDR	PE TUBING SIZE
SIDR	PE TUBING SIZE
TS	PE TUBE SIZE

Connection Type Legend

Abbreviation	Description
SPG	SPIGOT
MPT	MALE PIPE TAPER THREAD
FPT	FEMALE PIPE TAPER THREAD
S	SLIP
U	UNION FITTING WITH SLIP CONNECTION
UxU	TRUE UNION – SLIP CONNECTION WITH UNION ON EACH END
UC	UNION FITTING WITH COMPRESSION CONNECTION
UC x UC	UNION FITTING WITH COMPRESSION CONNECTION ON EACH END
FHT	FEMALE HOSE THREAD
MHT	MALE HOSE THREAD

Pipe & Tube Dimensions

ASTM	SIDR-7	OD	ID	Wall
D2239	3/4"	1.060	0.824	0.118
DELOS	1"	1.349	1.049	0.150
	1-1/4"	1.774	1.380	0.197
	1-1/2"	2.070	1.610	0.137
	2"	2.657	2.067	0.295
ASTM	SIDR-9	0D	ID	Wall
D2239	3/4"	1.008	0.824	0.092
02235	1"	1.283	1.049	0.092
				0.117
	1-1/4" 1-1/2"	1.686	1.380 1.610	0.153
	2"	1.968		
10714		2.527	2.067	0.230
ASTM	SDR-9	OD OTE	ID 0.001	Wall
D2737	3/4"	0.875	0.681	0.097
	1"	1.125	0.875	0.125
	1-1/4"	1.375	1.069	0.153
	1-1/2"	1.625	1.263	0.181
	2"	2.125	1.653	0.236
ASTM	SDR-11	OD	ID	Wall
D2737	3/4"	0.875	0.715	0.080
	1"	1.125	0.921	0.102
	1-1/4"	1.375	1.125	0.125
ASTM	SCH. 40	OD	ID	Wall
D1785	1/2"	0.840	0.622	0.109
	3/4"	1.050	0.824	0.113
	1"	1.315	1.049	0.133
SCH. 40	1-1/4"	1.660	1.380	0.140
FITTINGS D2466	1-1/2"	1.900	1.610	0.145
52100	2"	2.375	2.067	0.154
	2-1/2"	2.875	2.469	0.203
	3"	3.500	3.068	0.216
	4"	4.500	4.026	0.237
	6"	6.625	6.065	0.280
	8"	8.625	7.981	0.322
ASTM	SCH. 80	OD	ID	Wall
D1785	1/2"	0.840	0.546	0.147
	3/4"	1.050	0.742	0.154
	1"	1.315	0.957	0.179
	1-1/4"	1.660	1.278	0.191
SCH. 80	1-1/2"	1.900	1.500	0.200
FITTINGS	2"	2.375	1.939	0.218
D2467	2-1/2"	2.875	2.323	0.276
ASTM	CTS TYPE L	OD	ID	Wall
B88	1/2"	0.625	0.545	0.040
	5/8"	0.750	0.666	0.042
	3/4"	0.875	0.785	0.045
	1"	1.125	1.025	0.050
	1-1/4"	1.375	1.265	0.055
	1-1/2"	1.625	1.505	0.060
	2"	2.125	1.985	0.070
	2-1/2"	2.625	2.465	0.080
				0.090
	3" 2	3 1 2 5		
ASTM	3" SDR-13.5	3.125 OD	2.945 ID	Wall



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FPA-0750	163	GVG-1500-T	158	LT-1250-S	157	TSA-1000-TT	162	U-0750-TM	159	U-2500-T	159	WSA-0750-TT	162
FPC-0490	163	GVG-1500-TV	158	LT-1250-SC	157	TSA-1250-TT	162	U-1000-S	159	U-2500-TV	159	WSA-1000-TT	162
FPE-0500	163	GVG-2000-S	158	LT-1250-T	157	TSA-1500-SA	162	U-1000-SM	159	U-3000-S	159	WSA-1250-TT	162
FPE-0500F	163	GVG-2000-SV	158	LT-1500-S	157	TSA-1500-ST	162	U-1000-ST	159	U-3000-SV	159	WSU-1520-S	155
FPE-0750	163	GVG-2000-T	158	LT-1500-T	157	TSA-1500-TT	162	U-1000-SV	159	U-3000-T	159	WU-0500-S	160
FPT-0500	163	GVG-2000-TV	158	LT-2000-S	157	TSA-1512-ST	162	U-1000-T	159	U-3000-TV	159	WU-0500-T	160
FR-0500-4	163	GVP-0500-S	158	LT-2000-T	157	TSA-1512-TT	162	U-1000-TM	159	U-4000-S	159	WU-0750-S	160
FR-0500-4F	163	GVP-0500-T	158	MCO-0500	163	TSE-0500-6	162	U-1000-TV	159	U-4000-SV	159	WU-0750-T	160
FR-0500-6	163	GVP-0750-S	158	MC0-0500-12	163	TSE-0500-6R	162	U-1250-S	159	U-4000-T	159	WU-1000-S	160
FR-0500-6F	163	GVP-0750-T	158	MCO-0750	163	TSE-0500-12	162	U-1250-SM	159	U-4000-TV	159	WU-1000-T	160
FR-0750-6	163	GVP-1000-S	158	MC0-0750-R	163	TSE-0500-12R	162	U-1250-SV	159	UCV-0500-FF	152	WU-1250-S	160
FR-1000-7	163	GVP-1000-T	158	S1050C20	151	TSE-0507-6	162	U-1250-T	159	UCV-0500-MF	152	WU-1250-T	160
GVG-0500-S	158	GVP-1250-S	158	S1050C20-05	151	TSE-0507-6R	162	U-1250-TV	159	UCV-0750-FF	152	WU-1500-S	160
GVG-0500-SV	158	GVP-1250-T	158	S1052C20	151	TSE-0507-12	162	U-1500-S	159	UCV-0750-MF	152	WU-1500-T	160
GVG-0500-T	158	GVP-1500-S	158	SAM-0500	163	TSE-0750-6	162	U-1500-SM	159	UCV-1000-FF	152	WU-2000-S	160
GVG-0500-TV	158	GVP-1500-T	158	STL-0500	163	TSE-0750-6R	162	U-1500-ST	159	WCV-1000-MF	152	WU-2000-T	160
GVG-0750-S	158	GVP-2000-S	158	STL-0750	163	TSE-0750-12	162	U-1500-SV	159	WLT-0500-S	157	WU-3000-S	160
GVG-0750-SV	158	GVP-2000-T	158	SW-0500-C	144	TSE-0750-12R	162	U-1500-T	159	WLT-0500-T	157	WU-4000-S	160

NOTES

FLOW MANAGEMENT





FITTINGS & CLAMPS



Our comprehensive line of sewer and drain fittings includes valves, couplings, and connectors in PVC and styrene. NDS continues its tradition of innovation with the new patent pending Swivel-Fit[™] variable angle fitting that combines two fixed fittings into one adjustable fitting solution.

SOLVENT-WELD SEWER & DRAIN FITTINGS

Standards

PVC ASTM D-3034, D-2729

Abbreviations

Hub = Hub Socket (receives pipe & Fitting SPT)DWV = Drain, Waste andSpt= Spigot (pipe diameter, connect to fitting Hub)S&D = Sewer and DrainMPT = Male Pipe ThreadPVC = Polyvinyl ChlorideFPT = Female Pipe ThreadHIPS = High-Impact Pol

DWV = Drain, Waste and Vent (Schedule 40 dimensions)
S&D = Sewer and Drain
PVC = Polyvinyl Chloride
HIPS = High-Impact Polystyrene

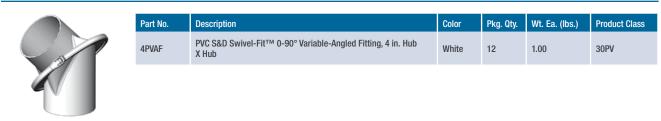


One Adjustable Fitting for Any Job

The patent-pending Swivel Fit® Variable Angle Fitting can be set to any angle from 0° to 90°. It is a convenient solution to tackle any job and is easy and less expensive than connecting multiple fixed angle fittings.

Variable Angle Fittings

Patent Pending





Tee

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P01	PVC S&D Tee, 3 in. Hub X Hub X Hub	White	35	0.57	30PV
4P01	PVC S&D Tee, 4 in. Hub X Hub X Hub	White	20	0.95	30PV
6P01	PVC S&D Tee, 6 in. Hub X Hub X Hub	White	9	3.66	30PV
64P01	PVC S&D Tee, 6 in. Hub X Hub X 4 in. Hub	White	8	2.38	30PV
8P01	PVC S&D Tee, 8 in. Hub X Hub X Hub	White	2	3.00	30PV
84P01	PVC S&D Tee, 8 in. Hub X Hub X 4 in. Hub	White	7	4.72	30PV
86P01	PVC S&D Tee, 8 in. Hub X Hub X 6 in. Hub	White	3	5.00	30PV

Double Cleanout

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
417P	PVC S&D Double Cleanout, 4 in. Hub X Hub X Hub	White	24	1.41	30PV

90 Degree Elbow

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
>	3P02	PVC S&D 90° Elbow, 3 in. Hub X Hub	White	40	0.40	30PV
	4P02	PVC S&D 90° Elbow, 4 in. Hub X Hub	White	25	0.68	30PV
	6P02	PVC S&D 90° Elbow, 6 in. Hub X Hub	White	6	3.00	30PV
V	8P02	PVC S&D 90° Elbow, 8 in. Hub X Hub	White	4	6.50	30PV

90 Degree Long-Turn Elbow

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
31P0	PVC S&D 90° Long-Turn Elbow, 3 in. Hub X Hub	White	30	0.46	30PV
41P0	PVC S&D 90° Long-Turn Elbow, 4 in. Hub X Hub	White	20	0.85	30PV
61P0	PVC S&D 90° Long-Turn Elbow, 6 in. Hub X Hub	White	8	3.10	30PV

90 Degree Long-Turn Street Elbow

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
31POST	PVC S&D 90° Long-Turn Street Elbow, 3 in. Hub X Spt	White	20	0.90	30PV
41POST	PVC S&D 90° Long-Turn Street Elbow, 4 in. Hub X Spt	White	20	1.25	30PV

45 Degree Elbow

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P03	PVC S&D 45° Elbow, 3 in. Hub X Hub	White	40	0.32	30PV
4P03	PVC S&D 45° Elbow, 4 in. Hub X Hub	White	30	0.53	30PV
6P03	PVC S&D 45° Elbow, 6 in. Hub X Hub	White	8	2.12	30PV
8P03	PVC S&D 45° Elbow, 8 in. Hub X Hub	White	6	4.33	30PV

45 Degree Street Elbow

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P03ST	PVC S&D 45° Street Elbow, 3 in. Hub X Spt	White	30	0.33	30PV
4P03ST	PVC S&D 45° Street Elbow, 4 in. Hub X Spt	White	30	0.86	30PV
6P03ST	PVC S&D 45° Street Elbow, 6 in. Hub X Spt	White	10	1.80	30PV

22-1/2 Degree Elbow

 Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P04	PVC S&D 22.5° Elbow, 3 in. Hub X Hub	White	25	0.32	30PV
4P04	PVC S&D 22.5° Elbow, 4 in. Hub X Hub	White	20	0.45	30PV
6P04	PVC S&D 22.5° Elbow, 6 in. Hub X Hub	White	20	1.60	30PV

Coupling

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P05	PVC S&D Coupling, 3 in. Hub X Hub	White	120	0.22	30PV
4P05	PVC S&D Coupling, 4 in. Hub X Hub	White	45	0.37	30PV
6P05	PVC S&D Coupling, 6 in. Hub X Hub	White	10	1.30	30PV
8P05	PVC S&D Coupling, 8 in. Hub X Hub	White	6	3.33	30PV

Slip Repair Coupling

→ ←	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	3P05R	PVC S&D Slip Repair Coupling, 3 in. Hub X Hub	White	60	0.25	30PV
	4P05R	PVC S&D Slip Repair Coupling, 4 in. Hub X Hub	White	45	0.46	30PV

Increaser/Reducer Bushing

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P07	PVC S&D Increaser/Reducer Bushing, 3 in. Hub X 4 in. Spt	White	20	0.45	30PV
6P07S	PVC S&D Increaser/Reducer Bushing, 4 in. Hub X 6 in. Spt	White	20	1.10	30PV

Increaser/Reducer Coupling

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
۱.	4P07	PVC S&D Increaser/Reducer Coupling, 3 in. Hub X 4 in. Hub	White	30	0.36	30PV
)	6P07	PVC S&D Increaser/Reducer Coupling, 4 in. Hub X 6 in. Hub	White	20	1.10	30PV
	8P07	PVC S&D Increaser/Reducer Coupling, 6 in. Hub X 8 in. Hub	White	1	3.00	30PV



45 Degree Wye

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P08	PVC S&D 45° Wye, 3 in. Hub X Hub X Hub	White	25	0.88	30PV
4P08	PVC S&D 45° Wye, 4 in. Hub X Hub X Hub	White	20	1.25	30PV
6P08	PVC S&D 45° Wye, 6 in. Hub X Hub X Hub	White	6	4.66	30PV
64P08	PVC S&D 45° Wye, 6 in. Hub X Hub X 4 in. Hub	White	8	2.88	30PV
8P08	PVC S&D 45° Wye, 8 in. Hub X Hub X Hub	White	2	11.00	30PV
84P08	PVC S&D 45° Wye, 8 in. Hub X Hub X 4 in. Hub	White	6	5.33	30PV
86P08	PVC S&D 45° Wye, 8 in. Hub X Hub X 6 in. Hub	White	3	3.33	30PV

Sanitary (Sweep) Tee

	D					
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
\geq	3P09	PVC S&D Sanitary Tee, 3 in. Hub X Hub X Hub	White	30	0.66	30PV
	4P09	PVC S&D Sanitary Tee, 4 in. Hub X Hub X Hub	White	20	1.60	30PV
	6P09	PVC S&D Sanitary Tee, 6 in. Hub X Hub X Hub	White	5	4.20	30PV
	8P09	PVC S&D Sanitary Tee, 8 in. Hub X Hub X Hub	White	1	15.00	30PV

Cap

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P06	PVC S&D Cap, 3 in. Hub	White	25	0.20	30PV
4P06	PVC S&D Cap, 4 in. Hub	White	25	0.28	30PV
6P06	PVC S&D Cap, 6 in. Hub	White	15	0.93	30PV
8P06	PVC S&D Cap, 8 in. Hub	White	10	2.40	30PV

Female Cleanout Adapter

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P11	PVC S&D Female Cleanout Adapter, 3 in. Hub X FPT	White	25	0.36	30PV
4P11	PVC S&D Female Cleanout Adapter, 4 in. Hub X FPT	White	20	0.55	30PV
613P	PVC S&D Female Cleanout Adapter, 6 in. Hub X FPT	White	24	1.08	30PV

Female Fitting Cleanout Adapter

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
413P	PVC S&D Female Fitting Cleanout Adapter, 4 in. Spt X FPT	White	20	0.50	30PV

Cleanout Plug

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	31P8	PVC S&D Cleanout Plug, 3 in. MPT	White	50	0.30	30PV
	41P8	PVC S&D Cleanout Plug, 4 in. MPT	White	30	0.36	30PV
	61P8	PVC S&D Cleanout Plug, 6 in. MPT	White	24	0.62	30PV

Swivel-Fit[™] Variable-Angled Fitting

Patent Pending

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
4PVAF	PVC S&D Swivel-Fit™ 0-90° Variable-Angled Fitting, 4 in. Hub X Hub	White	12	1.00	30PV

Cross

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
4P1X	PVC S&D Cross, 4 in. Hub X Hub X Hub X Hub	White	20	1.40	30PV

Adapter (DWV/SCH40 to S&D)

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3P15	PVC Adapter, 3 in. DWV/SCH40 Hub X S&D Hub	White	60	0.35	30PV
3P16	PVC Adapter, 4 in. DWV/SCH40 Hub X S&D Hub	White	30	0.80	30PV

Adapter Bushing (DWV/SCH40 to S&D)

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
2P41	PVC Adapter Bushing, 3 in. DWV/SCH40 Spt X S&D Hub	White	50	0.12	30PV
2P42	PVC Adapter Bushing, 4 in. DWV/SCH40 Spt X S&D Hub	White	25	0.24	30PV
2P43	PVC Adapter Bushing, 6 in. DWV/SCH40 Spt X S&D Hub	White	20	0.70	30PV

Increaser/Reducer Adapter (DWV/SCH40 to S&D)

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
533	PVC Increaser/Reducer Adapter, 2 in. DWV/SCH40 Hub X 4 in. S&D Spt	White	20	035	30PV
3P12	PVC Increaser/Reducer Adapter, 3 in. DWV/SCH40 Hub X 4 in. S&D Hub	White	50	0.50	30PV
3P17	PVC Increaser/Reducer Adapter, 3 in. DWV/SCH40 Hub X 4 in. S&D Spt	White	30	0.35	30PV

Increaser/Reducer Adapter Bushing (DWV/SCH40 to S&D)

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
)	532	PVC Increaser/Reducer Adapter Bushing, 2 in. DWV/SCH40 Hub X 3 in. S&D Spt	White	20	0.20	30PV



Downspout Adapter for Sewer & Drain Pipe

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
9P03	PVC Offset Downspout Adapter, 2X3 in. Downspout X 3 in. S&D Hub	White	40	0.42	30PV
9P04	PVC Offset Downspout Adapter, 2X3 in. Downspout X 4 in. S&D Hub	White	30	0.53	30PV
9P06	PVC Downspout Adapter, 3X4 in. Downspout X 4 in. S&D Hub	White	25	0.50	30PV
9P10	PVC Offset Downspout Adapter, 4X6 in. Downspout X 6 in. S&D Hub	White	15	1.00	30PV
9P13	PVC Offset Downspout Adapter, 3X4 in. Downspout X 4 in. S&D Hub	White	25	0.50	30PV

Downspout Adapter for DWV/Schedule 40 Pipe

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
9P07	PVC Downspout Adapter, 2X3 in. Downspout X 3 in. DWV/SCH40 Hub	White	40	0.30	30PV
9P08	PVC Downspout Adapter, 2X3 in. Downspout X 4 in. DWV/SCH40 Hub	White	30	1.10	30PV
9P09	PVC Downspout Adapter, 3X4 in. Downspout X 4 in. DWV/SCH40 Hub	White	30	0.44	30PV

POOL ACCESSORIES

Drain Grate

alle.	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	9P12	3 in. PVC Round Grate, Fits 3 in. Sewer & Drain Fittings	White	50	0.16	30PV
	9P11	4 in. PVC Round Grate, Fits 4 in. Sewer & Drain Fittings	White	25	0.36	30PV

Deck Drain

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
WC100	HIPS S&D Deck Drain, 3 in. Hub	White	50	0.16	30ST
WC100G	HIPS S&D Deck Drain, 3 in. Hub	Gray	50	0.16	30ST
WC100T	HIPS S&D Deck Drain, 3 in. Hub	Tan	50	0.16	30ST

Pool Backflush Fitting

Par	art No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
650		HDPE Pool Backflush Fitting with Recessed Grate, 4 in. tapered Spt (Includes removable 4" grate NDS #11)	Black	35	0.16	30ST
5						

CORRUGATED FITTINGS

Coupling

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
3C05	HDPE Internal Coupling, 3 in.	Black	60	0.30	11RP
4C07	HDPE Internal Coupling, 4 in.	Black	36	0.30	11RP
6C05	HDPE Internal Coupling, 6 in.	Black	12	0.80	11RP

End Cap

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C06	HDPE End Cap, 3 in.	Black	33	0.30	11RP
4C06	HDPE End Cap, 4 in.	Black	32	0.50	11RP
6C06	HDPE End Cap, 6 in.	Black	15	0.50	11RP

Adapter



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
351	HDPE Corrugated Adapter, 3 in. Drain Pipes & Fittings Spt X 3 in. Corr. Hub	Black	50	0.10	30PV
451	HDPE Corrugated Adapter, 4 in. Drain Pipes & Fittings Spt X 4 in. Corr. Hub	Black	25	0.20	30PV
651	HDPE Corrugated Adapter, 6 in. Drain Pipes & Fittings Spt X 6 in. Corr. Hub	Black	12	0.25	30PV

Downspout Adapter

A.	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	234CDS	HDPE Downspout Adapter, 2X3 in. Downspout X 4 in. Corr. Hub	Black	24	0.20	30ST
	344CDS	HDPE Downspout Adapter, 3X4 in. Downspout X 4 in. Corr. Hub	Black	24	0.20	30ST



DIVERTER AND BACKWATER VALVES

Diverter Valve

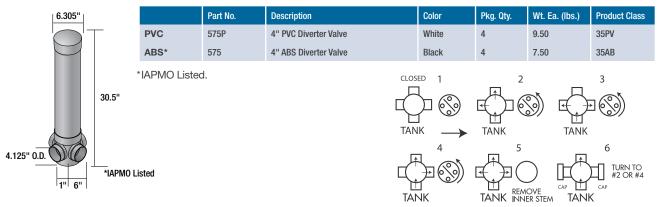
Here's the simplest, strongest and most economical diverter valve ever invented for septic tank leach fields. It is made of tough molded plastic that will not shatter, bend, rust or corrode. It is lighter in weight, easier to handle and less expensive to ship.

Functional

The diverter valve stem flow may be controlled to individual or multiple fields (up to three) in any combination. With a three-way valve stem, flow may be diverted to any two outlets. To allow flow through all outlets, the valve stem may be removed from the assembly.

Easy to Install

Connect 4" plastic sewer and drain pipe to inlets and outlets on the four-way distribution box. (Unwanted outlets may be sealed by installing caps.) The diverter shield which houses the diverter stem may be cut to desired length.

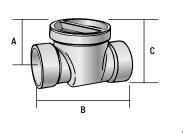


Gravity Backwater Valve

The NDS gravity flow Backwater Valve is designed to protect low areas or basements from the backflow of waste from street sewers. It is available in 2", 3", 4" and 6" sizes, PVC material. It is a cost-effective and a chemically resistant alternative to cast iron valves.

Backwater Valve

The quick action flapper allows unrestricted uni-directional flow. Elastomeric gasket in the flapper ensures a watertight seal. Flapper can be easily removed and replaced if required. Threaded access cap is designed for hand tightening. Access cap neoprene gasket provides a positive seal. Valve hub outlets fit 2", 3", 4" or 6" DWV pipe and may be adapted to 2", 3", 4" or 6" sewer and drain pipe with NDS DWV to Sewer & Drain Adapters. Lightweight, easy to install. Horizontal installation required, with arrows on top of the valve hub pointing in the direction of the flow of water. Access riser with cover offers a simple, economical access to the valve for inspection and maintenance. The riser may be cut to the desired length.



Item Number	А	В	C	Riser Height	Riser Diameter
275P, 275	2.18"	5.03"	3.53"	16"	4"
275PR	2.18"	5.03"	3.53"	16"	4"
375P, 375	3.51"	7.56"	6.10"	16"	6"
375PR, 375R	3.51"	7.56"	6.10"	16"	6"
475P, 475	4.47 ["]	11.18"	7.18"	16"	8"
475PR, 475R	4.47 ["]	11.18"	7.18"	16"	8"
675P, 675	5.50"	15.25"	9.90"	16"	10"

Approvals applicable to valve only.





DIVERTER AND BACKWATER VALVES

Backwater Valve



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
275P	2" PVC Backwater Valve	White	8	1.00	35PV
275PR	2" PVC Backwater Valve with Riser and Cover	White	1	5.00	35PV
375P	3" PVC Backwater Valve	White	6	2.33	35PV
375PR	3" PVC Backwater Valve with Riser and Cover	White	1	5.00	35PV
475P	4" PVC Backwater Valve	White	6	4.33	35PV
475PR	4" PVC Backwater Valve with Riser and Cover	White	1	8.00	35PV
675P	6" PVC Backwater Valve	White	1	9.00	35PV
275	2" ABS Backwater Valve	Black	8	1.00	35AB
375	3" ABS Backwater Valve	Black	6	1.83	35AB
375R	3" ABS Backwater Valve with Riser and Cover	Black	1	4.00	35AB
475	4" ABS Backwater Valve	Black	6	3.33	35AB
475R	4" ABS Backwater Valve with Riser and Cover	Black	1	7.00	35AB
675	6" ABS Backwater Valve and Cover	Black	1	7.00	35AB

PVC Backwater Valve Components

Lid	Part No.	Description	Color	Carton Qty.	Product Class
	8051-020-040	2" Lid	White	20	35PV
	822-040-16	2" Riser	White	4	35PV
Riser	1530202	2" Cap	White	10	35PV
	880-237	2" Cap O-Ring	Black	10	35PV
	1530203	2" Flapper	White	10	35PV
	880-136	2" Flapper O-Ring	Black	10	35PV
	1530204	2" Backwater Valve Pipe Extension Collar	White	10	35PV
Cap	8051-030-060	3" Lid	White	25	35PV
oap	822-060-16	3" Riser	White	2	35PV
	1530302	З" Сар	White	10	35PV
	880-253	3" Cap O-Ring	Black	10	35PV
0-Ring	1530303	3" Flapper	White	10	35PV
	880-234	3" Flapper O-Ring	Black	10	35PV
Flapper	1530304	3" Backwater Valve Pipe Extension Collar	White	10	35PV
	8051-040-080	4" Lid	White	20	35PV
	822-080-16	4" Riser	White	1	35PV
	1530402	4" Cap	White	10	35PV
Flapper 0-Ring	880-364	4" Cap O-Ring	Black	10	35PV
U-ming	1530403	4" Flapper	White	10	35PV
	880-243	4" Flapper O-Ring	Black	10	35PV
	1530404	4" Backwater Valve Pipe Extension Collar	White	10	35PV
() 🖛 Bumper	8051-060-100	6" Lid	White	15	35PV
	1530602	6" Cap	White	2	35PV
	880-271	6" Cap O-Ring	Black	2	35PV
	1530603	6" Flapper	White	5	35PV
BWV Pipe	880-259	6" Flapper O-Ring	Black	5	35PV
Extension	880-202	Bumper (fits all sizes of valves)	Black	1	35PV
Collar	1530405	4" BWV Sewer Adapt Flange	White	1	35PV
	1530605	6" BWV Sewer Adapt Flange	White	1	35PV

Backwater Valve Box

1134n 1134n	Part No.	Description	Color		Wt. Ea. (lbs.)	Product Class
A A A A A A A A A A A A A A A A A A A	1219	12" x 12" Backwater Valve Box	Black	4	5.75	10ND
	1220	12" x 12" Valve Box Cover	Black	8	2.00	10ND



NDS FLEXIBLE COUPLINGS AND CONNECTORS

- Choose the high-quality couplings and connectors that easily adapt to any situation
- Innovative, flexible couplings for sewer, drain, waste and vent piping allow any two pipes to be connected quickly and easily
- · Dimensional flexibility ensures leakproof seals with virtually any pipe material
- Utility and plumbing applications

Details

- Couplings and connectors fit over the ends of plain-end or spigot pipe to form a positive seal against infiltration and exfiltration in non-pressure environments
- Durable PVC construction allows couplings to flex with normal earth movement
- · Completely unaffected by soil conditions and resistant to chemicals, UV rays and normal sewer gases

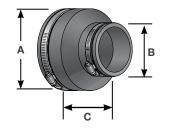
Materials and Standards

- · Flexible couplings are made of elastomeric polyvinyl chloride (PVC) for long-lasting performance and durability
- Bactericides and fungicides are added to PVC for extra protection
- All NDS clamps, including the band and housing, are made from series 300 stainless steel, offering corrosion-resistant, rustproof reliability
- NDS Flexible Couplings have listings from the following code agencies: ICC (International Code Council), CSA (Canadian Standards Association) and IAPMO (International Association of Plumbing and Mechanical Officials)

Installation

- Clamps install easily with a screwdriver, 5/16" nut driver or socket to 60 inch-lbs. pounds torque
- All couplings are marked with size and pipe materials that the coupling will connect, eliminating guesswork on the job

NDS Flexible Coupling Sizing Chart



- All dimensions given in inches and mm.
- Couplings available to connect 1-1/4" to 15" pipe.
- 300 Series stainless steel clamps supplied with all couplings.
- All couplings will fit any pipe type within +/- 5% OD on chart.



Clay	to	Clay	
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	ļ	4	l	3						
Part No.	Inches	mm	Inches	mm	Inches	mm	Pkg. Qty.	Weight	Product Class	
01-44	5.25	133	5.25	133	4.00	101	18	1.27	45C0	

Clay to Cast Iron or Plastic

		A	E	3	(c 🛛			
Part No.	Inches	mm	Inches	mm	Inches	mm	Pkg. Qty.	Weight	Product Class
02-43	5.25	133	3.38	85	4.00	101	36	1.25	45C0
02-44	5.25	133	4.38	111	4.00	101	24	1.04	45C0
02-55			USE PART	NO. 56-65					
02-64	7.38	187	4.38	111	6.00	152	12	2.50	45C0
02-66	7.38	187	6.38	162	6.00	152	18	2.38	45C0
02-88	9.65	245	8.50	215	6.00	152	6	3.16	45C0
02-1010	11.80	299	10.60	269	6.00	152	3	4.00	45C0
02-1212	14.38	365	12.60	320	6.00	152	5	5.20	45C0
02-1515	17.85	453	15.40	391	6.00	152	5	6.00	45C0

Concrete to Cast Iron or Plastic

		A	1	B	Ç		ç		ç				
Part No.	Inches	mm	Inches	mm	Inches	mm	Pkg. Qty.	Weight	Product Class				
06-44	5.62	142	4.38	111	4.00	101	18	1.66	45C0				
06-64	7.80	198	4.38	111	6.00	152	12	2.41	45C0				
06-66	7.80	198	6.38	162	6.00	152	12	2.58	45C0				
06-88	10.25	260	8.50	215	6.00	152	6	3.33	45C0				

NDS FLEXIBLE COUPLINGS AND CONNECTORS

NDS Flexible Coupling Sizing Chart



Asbestos Cement, Fibre or Ductile Iron to Cast Iron or Plastic

		A	E	3	ç				
Part No.	Inches	mm	Inches	mm	Inches	mm	Pkg. Qty.	Weight	Product Class
51-44	4.75	120	4.38	111	4.00	101	24	1.08	45C0
51-66	7.00	177	6.38	162	6.00	152	15	2.73	45C0

Cast Iron, Plastic, Copper, Steel or Lead to Cast Iron, Plastic, Copper, Steel or Lead

		Ą		В	(ç			
Part No.	Inches	mm	Inches	mm	Inches	mm	Pkg. Qty.	Weight	Product Class
56-125	1.65	40	1.65	40	4.00	101	90	0.36	45C0
56-150/125	1.90	48	1.65	40	4.00	101	75	0.41	45C0
56-150	1.90	48	1.90	48	4.00	101	75	0.41	45C0
56-2150	2.40	60	1.90	48	4.00	101	54	0.51	45C0
56-22	2.40	60	2.40	60	4.00	101	54	0.50	45C0
56-32	3.38	85	2.40	60	4.00	101	45	0.71	45C0
56-33	3.38	85	3.38	85	4.00	101	45	0.75	45C0
56-42	4.38	111	2.40	60	4.00	101	30	0.93	45C0
56-E43	4.38	111	3.38	85	4.00	101	24	1.37	45C0
56-43	4.38	111	3.38	85	4.00	101	25	1.08	45C0
56-44	4.42	112	4.42	112	4.00	101	24	1.66	45C0
56-44W	4.42	112	4.42	112	4.00	101	24	1.17	45C0
56-55	5.62	142	5.62	142	4.00	101	18	1.38	45C0
56-63	6.38	162	3.38	85	6.00	152	12	1.67	45C0
56-E64	6.38	162	4.38	111	6.00	152	10	2.20	45C0
56-64	6.38	162	4.38	111	6.00	152	12	2.16	45C0
56-66	6.38	162	6.38	162	6.00	152	15	2.13	45C0
56-86	8.50	215	6.38	162	6.00	152	8	3.37	45C0
56-88	8.50	215	8.50	215	6.00	152	12	3.50	45C0
56-1010	10.60	269	10.60	269	7.00	178	2	6.00	45C0
56-1212	12.83	326	12.83	326	6.00	152	3	5.00	45C0

FITTINGS & CLAMPS



NDS FLEXIBLE COUPLING SIZING CHART

Drain and Trap Connectors

NDS Drain & Trap Connectors are ideal for new installation, alterations and repairs. These connectors offer a quick, low-cost alternative to gluing or soldering and eliminate the need for special tools or threading. Simply place the ends over the pipes and tighten the stainless steel clamps.

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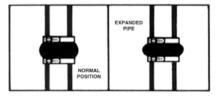
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
57-125	1-1/4" or 1-1/2" Drain Piping x 1-1/4" or 1-1/2" Drain Piping	Black	180	0.17	45C0
57-125/125	1-1/4" DWV or 1-1/2" Copper x 1-1/4" or 1-1/2" Drain Piping	Black	140	0.22	45C0
57-150/125	1-1/2" DWV or 1-1/2" Copper x 1-1/4" or 1-1/2" Drain Piping	Black	120	0.25	45C0

Large Diameter Couplings

Large Diameter Couplings are available through NDS. The large couplings are engineered for use with all the common pipe material: clay, concrete, cast iron, plastic, fiberglass, ductile iron and asbestos/cement. When ordering please remember to provide the exact O.D. size in inches for both pipes. A difference of 6" between the two pipe O.D. sizes cannot be made. Please call for details 1-800-726-1994.

Expansion Joints

NDS Flexible Expansion Joints have a one-piece design which allows for the thermal contraction and expansion of drain, waste and vent. These couplings are maintenance free and rustproof. They are secured by series 300 stainless steel clamps. NDS expansion joints are made of tough elastomeric polyvinyl chloride (PVC). They are strong and resilient. Available in 2" and 3" sizes.





Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
XJ3	3" Expansion Joints	Black	24	0.67	45C0

Clamps for Flexible Couplings

	CLAMP MIN. & MAX. DIAMETERS & OVERALL LENGTH									
Part No.	Max. Dia.	Min. Dia.	Length	Color	Weight	Pkg. Qty.	Product Class			
33H020 CLAMP	1.75"	.75"	6-1/2"	Stainless Steel	0.05	500	45C0			
33H032 CLAMP	2.50"	1.00"	8-3/4"	Stainless Steel	0.05	400	45C0			
33H040 CLAMP	3.00"	2.06"	10-3/8"	Stainless Steel	0.05	400	45C0			
33H056 CLAMP	4.00"	1.00"	13-1/2"	Stainless Steel	0.10	300	45C0			
33H088 CLAMP	6.00"	2.00"	19-3/4"	Stainless Steel	0.10	200	45C0			
33H116 CLAMP	7.75"	1.75"	25"	Stainless Steel	0.10	100	45C0			
33H164 CLAMP	10.75"	1.75"	34-5/8"	Stainless Steel	0.15	100	45C0			
33H188 CLAMP	12.25"	6.25"	39-1/2"	Stainless Steel	0.15	100	45C0			
33H212 CLAMP	13.75"	11.75"	44"	Stainless Steel	0.20	100	45C0			
33H250 CLAMP	12.62"	8.75"	40-1/2"	Stainless Steel	0.25	100	45C0			
33S248 CLAMP	16"	3.625"	51-1/2"	Stainless Steel	0.25	100	45FS			

NDS CONNECTORS AND O-RINGS

NDS Connectors for sewer pipe joints and drain waste & vent piping allow several points of seal between most types of sockets, hubs, bells and spigots. NDS Connectors are donut-shaped rings made of tough elastomeric polyvinyl chloride (PVC) and are available in a range of sizes up to 6". They install quickly and easily and offer the dimensional flexibility that ensures leakproof seals. They are also resistant to chemicals, fungus growth and normal sewer gases due to the inert nature and physical properties of the material. NDS O-Rings provide a quick and easy connection between most 4" house pipes and 6" sewer pipes. *NOTE: Connectors may not perform as intended due to improper or insufficient description of the pipes being connected or changes in pipe dimensions or design by the various manufacturers.*

SV Cast Iron Connectors

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
44U-405	4" x 4" SV HUB x Sch40 (DWV) or Sch40 Steel or C.I.XH	Black	35	0.48	45C0

Asbestos Cement Connectors - John Manville and Capco

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
44U-405	4" x 4" SW Duplex Adapter x C.I.XH or ABS/PVC DWV	Black	35	0.48	45C0

Cleanout or Test Caps

NDS Cleanout or Test Caps are designed to fit drain, waste and vent pipe materials. The 1-1/2" thru 4" NDS Caps are designed to fit schedule 40 nominal pipe sizes. The 6" thru 10" NDS Caps are designed to fit SDR 35 nominal pipe sizes. Our caps offer a quick and easy way to cap pipe ends and cleanouts. The reinforced convex face allows the cap to withstand greater pressure for testing and minimize ballooning. They are also low cost and reusable.

	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Calss	Product Class		
	150	1-1/2" Cap	Black	100	0.19	45CP			
	102	2" Cap	Black	100	0.21	45CP			
	103	3" Сар	Black	50	0.90	45CP			
	104	4" Cap	Black	50	0.44	45CP	IAMPO Listed.		
\geq	105	5" Cap	Black	24	0.87	45CP			
	106	6" Cap	Black	24	0.95	45CP			
	108	8" Cap	Black	16	1.81	45CP			



CONCRETE MANHOLE COVER ADAPTERS

NDS Concrete Manhole Cover Adapters are made of elastomeric polyvinyl chloride (PVC) and are available for 4", 6", 8", 10", and 12" pipe. Our adapters help eliminate leaks around pipe entering manhole walls and are flexible enough to permit some lateral pipe movement without compromising the integrity of the seal. However, NDS does not warrant this product as a positive water seal due to the many varying factors that can influence the product's effectiveness as a positive seal, such as: field conditions, quality of grout, workmanship and high-ground water tables.



	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
	4MA	4" Manhole Adapter	Black	24	1.00	45C0
)	6MA	6" Manhole Adapter	Black	24	0.62	45C0
	8MA	8" Manhole Adapter	Black	14	1.00	45C0
	12MA	12" Manhole Adapter	Black	6	1.50	45C0

NDS FLEXIBLE SADDLES

For superior durability and flexibility, saddle up. A breakthrough in saddle design, the patented NDS Flexible Saddle demonstrates superior flexibility in more than one way. The saddle's elastomeric construction allows a single description to securely fit 6" sewer main pipe diameters and up.The saddle's flexibility eliminates the need for a large inventory of rigid PVC saddles of various descriptions.

NDS Flexible Saddle offers the following product benefits:

- Two configurations, a "Tee" and a "Wye" are available in 4" or 6" inlet descriptions
- · Elastomeric construction provides maximum strength and flexibility
- Saddle design will accommodate polyethylene pipe used in slip lining sewer systems
- Inlet range from SCH-40 down to SDR-35 includes standard weight soil pipe
- Stainless steel series 300 clamps ensure tight seal
- Steel-reinforced edges prevent distortion when torque is applied to clamps
- Durable design and low unit price make the Flexible Saddle economical and environmentally wise
- Available saddle blanket, attached to pipe prior to saddle installation, will mend imperfections and cracks on clay pipe taps

NDS FLEXIBLE SADDLE PATENTED REINFORCEMENT BARS

NDS Flexible Saddles



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
4T/C	4" Tees with Clamps	Black	12	3.16	45FS
4T/WOC	4" Tees without Clamps	Black	12	2.66	45FS
4Y/C	4" Wyes with Clamps	Black	6	7.66	45FS
4Y/WOC	4" Wyes without Clamps	Black	6	7.12	45FS
6T/C	6" Tees with Clamps	Black	6	6.50	45FS
6T/WOC	6" Tees without Clamps	Black	6	6.0	45FS
6Y/C	6" Wyes with Clamps	Black	4	9.9	45FS
6Y/WOC	6" Flex Wye without Clamps	Black	4	11.75	45FS

Saddle Clamps

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
33S248 CLAMP	Clamp for Flexible Coupling	Stainless Steel	100	0.25	45FS

ASTM Material Specification

Test	NDS Material	ASTM Test Material
Chemical Resistance		
1N sulfuric acid	No weight loss	D543
1N hydrochloric acid	No weight loss	
Tensile Strength Elongation	1000 psi (7/Mpa) min. 200% min. elongation @ break	D412 Die "C"
Duration Hardness	Shore durometer 50 min. to 75 max.	D2240
Compression Set	30% max. of original deflection	D395, Method B Type 2
Water Absorption	5% max.	D471, immersed 7 days @158 Method A
Ozone Resistance	No visible cracking under 7x magnification	D1149, D518 Method A
Oven Aging	75% min. of original tensile strength 65% min. of original elongation	D573 (158°F for 70 hours)
Cold Brittleness	Cold brittleness was determined to be -43°C	D476
Tear Strength	125 lbs./in.	D624 Die "C"



CLAMPS

Stainless Steel Pinch "Crimp" Hose Clamps

Part No.	Description	Pkg. Qty.	Case. Qty.	Product Class
NC-155000-003	133R 1/2" SS Crimp Clamp	100	100	45PC
NC-155000-008	157R 3/8" SS Crimp Clamp	100	100	45PC
NC-155000-009	170R SS Crimp Clamp	100	100	45PC
NC-155000-010	185R 23/32" SS Crimp Clamp	100	3000	45PC
NC-155000-011	198R 5/8" SS Crimp Clamp	100	3000	45PC
NC-155000-012	210R 13/16" SS Crimp Clamp	100	2500	45PC
NC-155000-013	226R SS Crimp Clamp	100	100	45PC
NC-155000-015	256R 3/4" SS Crimp Clamp	100	100	45PC
NC-155000-016	271R 3/4" SS Crimp Clamp	100	2000	45PC
NC-155000-017	286R SS Crimp Clamp	100	100	45PC
NC-155000-019	316R 15/16" SS Crimp Clamp	100	2000	45PC
NC-155000-020	331R 1" SS Crimp Clamp	100	2000	45PC
NC-155000-021	346R 1-3/8" SS Crimp Clamp	100	1500	45PC
NC-155000-022	361R SS Crimp Clamp	100	1500	45PC
NC-155000-025	396R SS Crimp Clamp	80	100	45PC
NC-155000-026	410R 1-5/8" SS Crimp Clamp	80	100	45PC
NC-155000-027	425R 1-1/4" SS Crimp Clamp	80	1500	45PC
NC-155000-028	440R 1-1/4" SS Cripm Clamp	80	100	45PC
NC-155000-031	485R 1-7/8" SS Crimp Clamp	50	1500	45PC
NC-155000-032	500R 1-1/2" SS Crimp Clamp	50	100	45PC
NC-155000-033	515R 1-1/2" SS Crimp Clamp	50	100	45PC
NC-155000-039	605R 2-3/8" SS Crimp Clamp	40	100	45PC
NC-155000-040	620R 2 SS Crimp Clamp	40	100	45PC
NC-155000-042	650R 2 SS Crimp Clamp	30	100	45PC

Stainless Steel Pinch Clamp Crimp Tool

Part No.	Description	Pkg. Qty.	Carton Qty.	Product Class
NCT-1098	Standard Jaw Crimp Tool	1	10	45PC

CLAMPS

Worm Drive Hose Clamps

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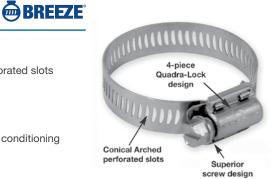
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Superior Longevity – 100% stainless steel construction
 Added Strength – 4 piece design includes underside plate, Conical arched perforated slots
 Smoother Worm Drive – Buttressed threads and more threads per screw

Primarily use to tighten around and secure pliable (soft) hose or tube Plumbing: Connections for dishwashers, garbage disposals, water softeners, air conditioning Irrigation: Secure poly tubing, stabilize risers to stake





Part No.	Description	Pkg. Qty.	Case. Qty.	Product Class
3604	SAE 6, 5/16" Band Width, Effective Diameter Range: 7/16" Min., 25/32" Max.	10	200	45HC
3606	SAE 8, 5/16" Band Width, Effective Diameter Range: 1/2" Min., 29/32" Max.	10	200	45HC
64006H	SAE 6, 1/2" Band Width, Effective Diameter Range: 7/16" Min., 25/32" Max.	10	200	45HC
64008H	SAE 8, 1/2" Band Width, Effective Diameter Range: 1/2" Min., 29/32" Max.	10	200	45HC
64010H	SAE 10, 1/2" Band Width, Effective Diameter Range: 9/16" Min., 1-1/6" Max.	10	500	45HC
64012H	SAE 12, 1/2" Band Width, Effective Diameter Range: 11/16" Min., 1-1/4" Max.	10	500	45HC
64016H	SAE 16, 1/2" Band Width, Effective Diameter Range: 13/16" Min., 1-1/2" Max.	10	500	45HC
64020H	SAE 20, 1/2" Band Width, Effective Diameter Range: 13/16" Min., 1-3/4" Max.	10	500	45HC
64024H	SAE 24, 1/2" Band Width, Effective Diameter Range: 1-1/16" Min., 2" Max.	10	500	45HC
64028H	SAE 28, 1/2" Band Width, Effective Diameter Range: 1-5/16" Min., 2-1/4" Max.	10	500	45HC
64032H	SAE 32, 1/2" Band Width, Effective Diameter Range: 1-9/16" Min., 2-1/2" Max.	10	500	45HC
64036H	SAE 36, 1/2" Band Width, Effective Diameter Range: 1-13/16" Min., 2-3/4" Max.	10	500	45HC
64040H	SAE 40, 1/2" Band Width, Effective Diameter Range: 2-1/16" Min., 3" Max.	10	200	45HC
64044H	SAE 44, 1/2" Band Width, Effective Diameter Range: 2-5/16" Min., 3-1/4" Max.	10	200	45HC
64048H	SAE 48, 1/2" Band Width, Effective Diameter Range: 2-9/16" Min., 3-1/2" Max.	10	200	45HC
64052H	SAE 52, 1/2" Band Width, Effective Diameter Range: 2-13/16" Min., 3-3/4" Max.	10	200	45HC
64056H	SAE 56, 1/2" Band Width, Effective Diameter Range: 3-1/16" Min., 4" Max.	10	200	45HC
64064H	SAE 62, 1/2" Band Width, Effective Diameter Range: 3-9/16" Min., 4-1/2" Max.	10	200	45HC
64072H	SAE 72, 1/2" Band Width, Effective Diameter Range: 1-7/8" Min., 5" Max.	10	100	45HC
64080H	SAE 80, 1/2" Band Width, Effective Diameter Range: 2-1/2" Min., 5-1/2" Max.	10	100	45HC
64088H	SAE 88, 1/2" Band Width, Effective Diameter Range: 3-1/8" Min., 6" Max.	10	100	45HC
64096H	SAE 96, 1/2" Band Width, Effective Diameter Range: 3-5/8" Min., 6-1/2" Max.	10	100	45HC
64104H	SAE 104, 1/2" Band Width, Effective Diameter Range: 4-1/8" Min., 7" Max.	10	100	45HC



CLAMPS

Worm Drive Hose Clamps (cont.)



Part No.	Description	Pkg. Qty.	Case. Qty.	Product Class
200 06 H	SAE 6, 9/16" Band Width, Effective Diameter Range: 7/16" Min., 25/32" Max.	10	200	45HC
200 08 H	SAE 8, 9/16" Band Width, Effective Diameter Range: 1/2" Min., 29/32" Max.	10	200	45HC
200 10 H	SAE 10, 9/16" Band Width, Effective Diameter Range: 9/16" Min., 1-1/6" Max.	10	500	45HC
200 12 H	SAE 12, 9/16" Band Width, Effective Diameter Range: 11/16" Min., 1-1/4" Max.	10	500	45HC
200 16 H	SAE 16, 9/16" Band Width, Effective Diameter Range: 13/16" Min., 1-1/2" Max.	10	500	45HC
200 20 H	SAE 20, 9/16" Band Width, Effective Diameter Range: 13/16" Min., 1-3/4" Max.	10	500	45HC
200 24 H	SAE 24, 9/16" Band Width, Effective Diameter Range: 1-1/16" Min., 2" Max.	10	500	45HC
200 28 H	SAE 28, 9/16" Band Width, Effective Diameter Range: 1-5/16" Min., 2-1/4" Max.	10	500	45HC
200 32 H	SAE 32, 9/16" Band Width, Effective Diameter Range: 1-9/16" Min., 2-1/2" Max.	10	500	45HC
200 36 H	SAE 36, 9/16" Band Width, Effective Diameter Range: 1-13/16" Min., 2-3/4" Max.	10	500	45HC
200 40 H	SAE 40, 9/16" Band Width, Effective Diameter Range: 2-1/16" Min., 3" Max.	10	200	45HC
200 44 H	SAE 44, 9/16" Band Width, Effective Diameter Range: 2-5/16" Min., 3-1/4" Max.	10	200	45HC
200 48 H	SAE 48, 9/16" Band Width, Effective Diameter Range: 2-9/16" Min., 3-1/2" Max.	10	200	45HC
200 52 H	SAE 52, 9/16" Band Width, Effective Diameter Range: 2-13/16" Min., 3-3/4" Max.	10	200	45HC
200 56 H	SAE 56, 9/16" Band Width, Effective Diameter Range: 3-1/16" Min., 4" Max.	10	200	45HC
200 64 H	SAE 62, 9/16" Band Width, Effective Diameter Range: 3-9/16" Min., 4-1/2" Max.	10	200	45HC
200 72 H	SAE 72, 9/16" Band Width, Effective Diameter Range: 1-7/8" Min., 5" Max.	10	100	45HC
200 80 H	SAE 80, 9/16" Band Width, Effective Diameter Range: 2-1/2" Min., 5-1/2" Max.	10	100	45HC
200 88 H	SAE 88, 9/16" Band Width, Effective Diameter Range: 3-1/8" Min., 6" Max.	10	100	45HC
200 96 H	SAE 96, 9/16" Band Width, Effective Diameter Range: 3-5/8" Min., 6-1/2" Max.	10	100	45HC
200 104 H	SAE 104, 9/16" Band Width, Effective Diameter Range: 4-1/8" Min., 7" Max.	10	100	45HC
200 128 H	SAE 128, 9/16" Band Width, Effective Diameter Range: 5-5/8" Min., 8-1/2" Max.	10	100	45HC
200 152 H	SAE 152, 9/16" Band Width, Effective Diameter Range: 7-1/8" Min., 10" Max.	10	100	45HC
200 188 H	SAE 188, 9/16" Band Width, Effective Diameter Range: 9-3/8" Min., 12-1/4" Max.	10	100	45HC
200 212 H	SAE 212, 9/16" Band Width, Effective Diameter Range: 10-7/8" Min., 13-3/4" Max.	10	100	45HC



CLAMPS

Clamp-All® Hi-Torq Hubless Pipe Couplings

Clamp-All[®]



Part No.	Size	Description	Carton Qty.	Weight (lbs.)	Product Class
81015	1-1/2"	Hi-Torq 80 Couplings	80	34	45CA
81020	2"	Hi-Torq 80 Couplings	64	31	45CA
81030	3"	Hi-Torq 80 Couplings	36	23	45CA
81040	4"	Hi-Torq 80 Couplings	36	28	45CA
81050	5"	Hi-Torq 80 Couplings	12	17	45CA
81060	6"	Hi-Torq 80 Couplings	12	20	45CA
81080	8"	Hi-Torq 80 Couplings	8	16	45CA
81100	10"	Hi-Torq 80 Couplings	8	21	45CA
10015	1-1/2"	Hi-Torq 125 Couplings	80	41	45CA
10020	2"	Hi-Torq 125 Couplings	64	38	45CA
10030	3"	Hi-Torq 125 Couplings	36	28	45CA
10040	4"	Hi-Torq 125 Couplings	36	34	45CA
10050	5"	Hi-Torq 125 Couplings	12	21	45CA
10060	6"	Hi-Torq 125 Couplings	12	24	45CA
10080	8"	Hi-Torq 125 Couplings	8	22	45CA
10100	10"	Hi-Torq 125 Couplings	8	25	45CA
10120	12"	Hi-Torq 125 Couplings	8	34	45CA
10150	15"	Hi-Torq 125 Couplings	4	23	45CA

Clamp-Alll® Tools

A	Part No.	Size	Description	Carton Qty.	Product Class
()	99080	80	Hi-Torq 80 wrench	1	45CA
	99125	125	Hi-Torq 125 wrench	1	45CA

Snap-Alll[®] Increaser/Reducer Transition Bushings

Part No.	Description	Carton Qty.	Weight (lbs.)	Product Class
31575	1-1/2" x 3/4" CU	12/144	29	45CA
30151	1-1/2" x 1" CU	12/144	23	45CA
31512	1-1/2" x 1-1/4" CU	12/144	15	45CA
31515	1-1/2" x 1-1/2" CU	12/144	12	45CA
30215	2" x 1-1/2" CU	6/72	15	45CA
20215	2" x 1-1/2" CI, STL, PVC	6/72	10	45CA
30022	2" x 2" CU, XH	6/72	7	45CA
30032	3" x 2" CU	9/108	50	45CA
20032	3" x 2" CI, STL, PVC	9/108	44	45CA
20325	3" x 2-1/2" CI, STL, PVC	9/108	38	45CA
30033	3" x 3" CU, XH	9/108	15	45CA
30043	4" x 3" CU	5/60	40	45CA
20043	4" x 3" CI, STL, PVC	5/60	34	45CA
30044	4" x 4" CU, XH	5/60	13	45CA
20054	5" x 4" CI, STL, PVC	4/48	40	45CA
20064	6" x 4" CI, STL, PVC	1/12	24	45CA
20065	6" x 5" CI, STL, PVC	1/12	14	45CA
20086	8" x 6" CI, STL, PVC	1/12	34	45CA



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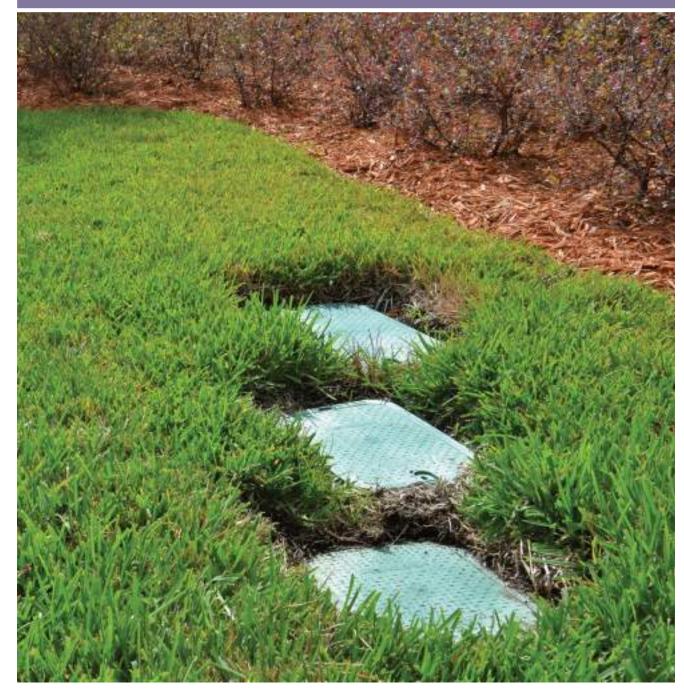
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ACCESS BOXES



NDS[®] valve and meter boxes are proudly manufactured in Lindsay, CA, and span a wide variety of sizes, from 6" round to 17" x 30" rectangular. Available with black, green, purple, gray, and sand covers with designations including irrigation control valve, water, sewer, electric, reclaimed water, cable TV, telephone, and others, all NDS boxes and lids contain UV inhibitors for sustained durability and performance in direct sunlight.

NDS[®] PRO-SPEC[™] SERIES VALVE BOXES – NEXT-GENERATION COMMERCIAL GRADE

The NDS Pro-Spec[™] Series line is the next generation of valve boxes, ideal for the specification market. These boxes are engineered with unique corrugated sidewalls that provide added strength to the boxes while reducing material and weight. The Pro-Spec[™] Series boxes are the strongest in the NDS offering, and they also come with reinforced lids.

Details

- Corrugated sidewalls provide greater strength
- Specification grade valve boxes for professional applications

Materials and Standards

- High-impact, high-density, injection-molded structural foam polyethylene construction with a melt index between 10-12
- Overlapping covers prevent dirt and grass from settling in between body and cover

- Reinforced covers for heavier loads
- Brass nut on boxes for bolt-down capability
- UV inhibitors prevent discoloration and cracking
- 5-year warranty
- Overlapping and drop-in covers available

NDS® STANDARD SERIES VALVE BOXES

Residential/Commercial Grade

NDS valve, meter and access boxes are offered in a wide range of sizes from the 6-inch round valve box to the 17" x 30" rectangular box. They are available with black, green, purple, gray and sand covers with designations including irrigation control valve, water, sewer, electric, reclaimed water, cable TV, telephone and others.

Details

- Covers are identified with ICV (Irrigation Control Valve) designation, unless otherwise specified
- · Overlapping covers prevent dirt and grass from settling between body and cover
- The bayonet twist-on cover ensures easy removal on 6-inch and 10-inch round covers
- 6" Snap cover and body available
- The 10-inch round and all rectangular boxes include a brass nut, so bolts may be easily added for lockdown
- UV inhibitors prevent discoloration and deterioration, such as cracking or blistering

Materials and Standards

- Overlapping and drop-in covers available
- Available in round, oval, and rectangular
- One-piece molded of polyolefin with a melt index between 10-12
- · UV inhibitors added to aid in preventing discoloration and cracking

NDS°

9 - 1/8" 10 - 1/6"

11 - 5/8' 13"

NDS PRO-SPEC[™] SERIES VALVE BOXES - NEXT-GENERATION COMMERCIAL GRADE

NDS Pro-Spec[™] 10" Round Corrugated Valve Boxes

Specifications: The NDS Pro-Spec[™] 10" round body is tapered and has a minimum wall thickness of 0.250". The cover seat area has 8 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.500" flange. The 10" round cover has an average thickness of 0.300". The valve box has a 3/8" Brass nut for the bolt-down as a standard feature.

Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (lbs.)	Produc Class
Box & Cover					
311BC	10" Round Corrugated Box, Round Overlapping Cover - ICV	Black/Green	132	4.6	20PR
311BCB	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - ICV	Black/Green	132	4.6	20PR
311BCBLK	10" Round Corrugated Box, Round Overlapping Cover - ICV	Black/Black	132	4.6	20PR
311BCBW	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - Water	Black/Green	132	4.6	20PR
311BCR	10" Round Corrugated Box, Round Overlapping Cover - Reclaimed Water	Black/Purple	132	4.6	20PR
311BCS	10" Round Corrugated Box, Round Overlapping Cover - Sewer	Black/Green	132	4.6	20PR
311BCW	10" Round Corrugated Box, Round Overlapping Cover - Water	Black/Green	132	4.6	20PR
312BC	10" Round Corrugated Box, Round Overlapping Cover - ICV	Green/Green	132	4.6	20PR
312BC ELEC	10" Round Corrugated Box, Round Overlapping Cover - Electric	Gray/Gray	132	4.6	20PR
312BCB	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - ICV	Green/Green	132	4.4	20PR
312BCB ELEC	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - Electric	Gray/Gray	132	4.6	20PR
312BCBS	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - Sewer	Green/Green	132	4.6	20PR
312BCRBLK	10" Round Overlapping Reclaimed Cover	Black/Black	132	4.7	20PR
312BCRG	10" Round Corrugated Box, Round Overlapping Cover - Reclaimed Water	Green/Green	132	4.6	20PR
312BCS	10" Round Corrugated Box, Round Overlapping Cover - Sewer	Green/Green	132	4.6	20PR
312BCSAND	10" Round Corrugated Box, Round Overlapping Cover - ICV	Sand/Sand	132	4.4	20PR
312BCW	10" Round Corrugated Box, Round Overlapping Cover - Water	Green/Green	132	4.6	20PR
312PBCBR	10" Round Corrugated Box, Round Overlapping Bolt-Down Cover - Reclaimed Water	Purple/Purple	132	4.4	20PR
312PBCR	10" Round Corrugated Box, Round Overlapping Cover - Reclaimed Water	Purple/Purple	132	4.4	20PR
Cover Only					
311C	10" Round Overlapping Cover - ICV	Green	200	1.5	20PR
311C BLK	10" Round Overlapping Cover - ICV	Black	200	1.5	20PR
311C BRN	10" Round Overlapping Cover - ICV	Brown	200	1.5	20PR
311C ELEC	10" Round Overlapping Cover - Electric	Gray	200	1.5	20PR
311CR	10" Round Overlapping Cover - Reclaimed Water	Purple	200	1.4	20PR
311CRG	10" Round Overlapping Cover - Reclaimed Water	Green	200	1.5	20PR
311CS	10" Round Overlapping Cover - Sewer	Green	200	1.5	20PR
311CSAND	10" Round Overlapping Cover - ICV	Sand	200	1.4	20PR
311CW	10" Round Overlapping Cover - Water	Black	200	1.5	20PR
311CW BLK	10" Round Overlapping Cover - Water	Green	200	1.5	20PR
Box Only					
311B	10" Round Corrugated Box	Black	132	3	20PR
312B	10" Round Corrugated Box	Green	132	3	20PR
312PB	10" Round Corrugated Box	Purple	132	3	20PR
113BB	2-1/2" x 3/8" SS Bolt	Steel	n/a	0.1	20NM

VALVE BOXES

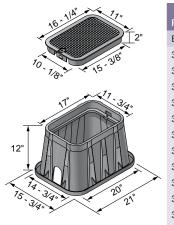
Pallet Weight Product

Color

NDS PRO-SPEC[™] SERIES VALVE BOXES - NEXT-GENERATION COMMERCIAL GRADE

NDS Pro-Spec[™] 14" x 19" Rectangular Valve Boxes

Specifications: The NDS Pro-Spec[™] 14" x 19" body is tapered and has a minimum wall thickness of 0.187". The body has a double wall at the top cover seat area with a minimum thickness of 0.200". The cover seat area has 18 structural support ribs on the underside of the seat, each with a minimum thickness of 0.200". The bottom of the body has a 0.500" flange. The 14" x 19" cover has an average thickness of 0.200". The valve box has a 3/8" Brass nut for the bolt-down as a standard feature.



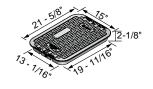
Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
313BC	14" x 19" Box, Overlapping Cover - ICV	Black/Green	84	8.4	20PR
313BCB	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - ICV	Black/Green	84	8.5	20PR
313BCBBLK	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - ICV	Black/Black	84	8.5	20PR
313BCBR	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Black/Purple	84	8.5	20PR
313BCBRBLK	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Black/Black	84	8.5	20PR
313BCBRG	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Black/Green	84	8.5	20PR
313BCBS	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Sewer	Black/Green	84	8.5	20PR
313BCBW	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Water	Black/Green	84	8.5	20PR
313BCBWBLK	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Water	Black/Black	84	8.5	20PR
314BC	14" x 19" Box, Overlapping Cover - ICV	Green/Green	84	8.4	20PR
314BC ARNB	14" x 19" Box, Overlapping Cover - Recycled Water English / Spanish	Black/Black	84	8.4	20PR
314BCB	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - ICV	Green/Green	84	8.5	20PR
314BCB ELEC	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Electric	Gray/Gray	84	8.5	20PR
314BCBRG	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Green/Green	84	8.5	20PR
314BCBS	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Sewer	Green/Green	84	8.5	20PR
314BCBSAND	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - ICV	Sand/Sand	84	8.5	20PR
314BCBW	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Water	Green/Green	84	8.5	20PR
314BCSAND	14" x 19" Box, Overlapping Cover - ICV	Sand/Sand	84	8.2	20PR
314PBCBR	14" x 19" Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Purple/Purple	84	8.4	20PR
314PBCR	14" x 19" Box, Overlapping Cover - Reclaimed Water	Purple/Purple	84	7.3	20PR
Cover Only					
313C	14" x 19" Overlapping Cover - ICV	Green	300	2.3	20PR
313C ELEC	14" x 19" Overlapping Cover - Electric	Gray	300	2.3	20PR
313CBLK	14" x 19" Overlapping Cover - ICV	Black	300	2.3	20PR
313CBRN	14" x 19" Overlapping Cover - ICV	Brown	300	2.3	20PR
313CG ELEC	14" x 19" Overlapping Cover - Electric	Green	300	2.3	20PR
313CR	14" x 19" Overlapping Cover - Reclaimed Water	Purple	300	2.3	20PR
313CRBLK	14" x 19" Overlapping Cover - Reclaimed Water	Black	300	2.81	20PR
313CRG	14" x 19"" Overlapping Cover - Reclaimed Water	Green	300	2.3	20PR
313CSAND	14" x 19" Overlapping Cover - ICV	Sand	300	2.3	20PR
313CW	14" x 19" Overlapping Cover - Water	Black	300	2.3	20PR
314CS	14" x 19" Overlapping Cover - ICV	Black	300	2.3	20PR
314CW	14" x 19" Overlapping Cover - Water	Green	300	2.3	20PR
Box Only					
314B	14" x 19" Box	Green	84	5	20PR
314BBLK	14" x 19" Valve Box	Black	84	5.41	20PR
113BB	2-1/2" x 3/8" SS Bolt	Steel	n/a	0.1	20NM

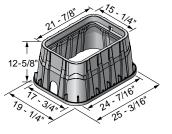
NDS

NDS PRO-SPEC[™] SERIES VALVE BOXES - NEXT-GENERATION COMMERCIAL GRADE

NDS Pro-Spec[™] 13" x 20" Rectangular Valve Boxes

Specifications: The NDS Pro-Spec[™] 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The cover seat area has 22 structural support ribs on the underside of the seat, each with a minimum thickness of 0.130". The bottom of the body has a 0.500" flange. The 13" x 20" cover has an average thickness of 0.250". The valve box has a 3/8" Brass nut for the bolt-down as a standard feature.



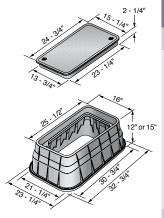


Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
317BCB	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - ICV	Black/Green	56	14.6	20PR
317BCBBLK	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - ICV	Black/Black	56	14.6	20PR
317BCBS	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Sewer	Black/Green	56	14.6	20PR
317BCBW	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Water	Black/Black	56	14.6	20PR
318BC	13" x 20" Jumbo Box, Overlapping Cover - ICV	Green/Green	56	14.6	20PR
318BCB	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - ICV	Black/Green	56	14.6	20PR
318BCBRBLK	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Black/Black	56	14.6	20PR
318BCBRG	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Reclaimed Water	Green/Green	56	14.6	20PR
318BCBS	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Sewer	Green/Green	56	14.6	20PR
318BCBSAND	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - ICV	Sand/Sand	56	14.6	20PR
318BCBW	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover - Water	Green/Green	56	14.6	20PR
318PBCBR	13" x 20" Jumbo Corrugated Box, Overlapping Bolt-Down Cover Reclaimed Water	Purple/Purple	56	10.7	20PR
318PBCR	13" x 20" Jumbo Box, Overlapping Cover - Reclaimed Water	Purple/Purple	56	14.6	20PR
Cover Only					
317C	13" x 20" Overlapping Cover - ICV	Green	180	5.1	20PR
317C BLK	13" x 20" Overlapping Cover - ICV	Black	180	5.1	20PR
317C BRN	13" x 20" Overlapping Cover - ICV	Brown	180	5.1	20PR
317CR	13" x 20" Overlapping Cover - Reclaimed Water	Purple	180	5	20PR
317CS	13" x 20" Overlapping Cover - Sewer	Green	180	5.1	20PR
317CSAND	13" x 20" Overlapping Cover - ICV	Sand	180	5	20PR
317CW	13" x 20" Overlapping Cover - Water	Black	180	5.1	20PR
318CW	13" x 20" Overlapping Cover - Water	Green	180	5.1	20PR
Box Only					
318B	13" x 20" Jumbo Box	Green	56	9.2	20PR
318B BLK	13" x 20" Jumbo Box	Black	56	9.2	20PR
318PB	13" x 20" Jumbo Box	Purple	56	9.55	20PR
113BB	2-1/2" x 3/8" SS Bolt	Steel	n/a	0.1	20NM

NDS PRO-SPEC[™] SERIES VALVE BOXES - NEXT-GENERATION COMMERCIAL GRADE

NDS Pro-Spec[™] 13" x 24" Rectangular Valve Boxes

Specifications: The NDS Pro-Spec[™] 13" x 24" body is tapered and has a minimum wall thickness of 0.270". The body has a double wall at the top cover seat area with a minimum thickness of 0.270". The cover seat area has 18 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 1.000" flange. The 13" x 24" cover has an average thickness of 0.320". The valve box has a 3/8" Brass nut for the bolt-down as a standard feature.



Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
321BCB	13" x 24" x 12" Box, Overlapping Bolt-Down Cover - ICV	Green/Green	12	24	20PR
321BCB-BG	13" x 24" x 12" Box, Overlapping Bolt-Down Cover - ICV	Black/Green	12	24	20PR
321BCBS	13" x 24" x 12" Box, Overlapping Bolt-Down Cover - Sewer	Green/Green	12	24	20PR
321BCBW	13" x 24" x 12" Box, Overlapping Bolt-Down Cover - Water	Green/Green	12	24	20PR
322BCB	13" x 24" x 15" Box, Overlapping Bolt-Down Cover - ICV	Green/Green	12	24	20PR
322PBCBR	13" x 24" x 12" Box, Overlapping Bolt-Down Cover - Reclaimed Water	Purple/Purple	12	24	20PR
325BCB	13" x 24" x 15" Box, Overlapping Bolt-Down Cover - ICV	Black/Green	12	24	20PR
Cover Only					
322C	13" x 24" Overlapping Cover - ICV	Green	125	7	20PR
322CS	13" x 24" Overlapping Cover - Sewer	Green	125	7	20PR
Box Only					
321B	13" x 24" x 12" Box	Green	12	19	20PR
322B	13" x 24" x 15" Box	Green	12	19	20PR
325B	13" x 24" x 15" Box	Black	12	19	20PR
121BB	3/8" x 3" SS Bolt	Steel	n/a	0.1	20NM

NDS

Overlapping Cover

Drop-in Cover

3/8"

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NDS PRO-SPEC[™] SERIES VALVE BOXES - NEXT-GENERATION COMMERCIAL GRADE

NDS Pro-Spec[™] 17" x 30" Rectangular Valve Boxes

Specifications: The NDS Pro-Spec[™] 17" x 30" body is tapered and has a minimum wall thickness of 0.320". The body has a double wall at the top cover seat area with a minimum thickness of 0.320". The cover seat area has 20 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 1.000" flange. The 17" x 30" cover has an average thickness of 0.350". The valve box shall have a 3/8" Brass nut for the bolt-down as a standard feature.

Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (lbs.)	Product Class
Box & Cover					
324BCB	17" x 30" x 15" Box, Overlapping Bolt-Down Cover - ICV	Green/Green	6	28	20PR
324BCB-BG	17" x 30" x 15" Box, Overlapping Bolt-Down Cover - ICV	Black/Green	6	28	20ND
324BCBS	17" x 30" x 15" Box, Overlapping Bolt-Down Cover - Sewer	Green/Green	6	28	20PR
324BCDB	17" x 30" x 15" Box, Drop-in Bolt-Down Cover - ICV	Green/Green	6	28	20PR
326BCB	17" x 30" x 18" Box, Overlapping Bolt-Down Cover - ICV	Green/Green	6	39.3	20PR
326BCB-BG	17" x 30" x 18" Box, Overlapping Bolt-Down Cover - ICV	Black/Green	6	41.2	20ND
326BCDB	17" x 30" x 18" Box, Drop-in Bolt-Down Cover - ICV	Green/Green	6	37	20PR
326BCDB ELEC	17" x 30" x 18" Box, Drop-in Cover - Electric	Gray/Gray	6	37.05	20PR
326BCDB-BG	17" x 30" x 18" Box, Drop-in Bolt-Down Cover - ICV	Black/Green	6	37	20ND
326BCDBW	17" x 30" x 18" Box, Drop-in Bolt-Down Cover - Water	Black/Black	6	37	20ND
326PBCBR	17" x 30" x 18" Box, Overlapping Cover - Reclaimed Water	Purple/Purple	6	38	20PR
Cover Only					
323C	17" x 30" Overlapping Cover - ICV	Green	75	11	20PR
323CD	17" x 30" Drop-in Cover - ICV	Green	75	11	20PR
323CD ELEC	17" x 30" Drop-in Cover - Electric	Gray	75	11	20PR
323CDW	17" x 30" Overlapping Cover - Water	Black	75	11	20PR
323CR	17" x 30" Overlapping Cover - Reclaimed Water	Purple	75	11	20PR
323CS	17" x 30" Overlapping Cover - Sewer	Green	75	11	20PR
Box Only					
324B	17" x 30" x 15" Box	Green	6	20	20NM
324B BLK	17" x 30" x 15" Box	Black	6	20	20NM
326B	17" x 30" x 18" Box	Green	6	23	20NM
326B BLK	17" x 30" x 18" Box	Black	6	23	20NM



NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL/COMMERCIAL GRADE

NDS Standard Series 6" Round Valve Boxes

Specifications: The NDS Standard Series 6" round body is tapered and has a minimum wall thickness of 0.200". The body has a double wall at the top cover seat area with a minimum thickness of 0.130". The bottom of the body has a 0.250" flange. The 6" round cover has an average thickness of 0.187".



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Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (lbs.)	Product Class
Box & Cover					
107BC	6" Round Box, Round Overlapping Cover - ICV	Black/Green	250	1.5	20ND
107BC ARNB	$6^{\prime\prime}$ Round Box, Round Overlapping Cover - Recycled Water English / Spanish	Black/Black	250	1.5	20ND
107BC BLK	6" Round Box, Round Overlapping Cover - ICV	Black/Black	250	1.5	20ND
107BC CTN	6" Round Box, Round Overlapping Cover - ICV - 4 per carton	Black/Green	108	1.05	20ND
107BC SAND	6" Round Box, Round Overlapping Cover - ICV	Sand/Sand	250	1.5	20ND
107BC SLV	6" Round Box, Round Overlapping Cover - ICV - 20 per sleeve	Black/Green	400	1.5	20ND
107BCH	6" Round Snap-in Valve Box, Round Snap-in Overlapping Cover - ICV	Black/Green	250	1.5	20ND
107BCR	6" Round Box, Round Overlapping Cover - Reclaimed Water	Black/Purple	250	1.5	20ND
107BCR BLK	6" Round Box, Round Overlapping Cover - Reclaimed Water	Black/Black	250	1.5	20ND
107BCS	6" Round Box, Round Overlapping Cover - Sewer	Black/Green	250	1.5	20NM
107BCW	6" Round Box, Round Overlapping Solid Plastic Cover - Water	Black/Green	250	1.5	20NM
107EBC	6" Round Emitter Box, Round Overlapping Cover - Emitter Box	Black/Green	250	1.5	20ND
107EBCR	6" Round Emitter Box, Round Overlapping Cover - Emitter Box	Black/Purple	250	1.5	20ND
107PBCR	6" Round Box, Round Overlapping Cover - Reclaimed Water	Purple/Purple	250	1.5	20ND
108BC	6" Round Box, Round Overlapping Cover - ICV	Green/Green	250	1.5	20ND
108BCS	6" Round Box, Round Overlapping Cover - Sewer	Green/Green	250	1.5	20ND
108BCW	6" Round Box, Round Overlapping Cover - Water	Green/Green	250	1.5	20ND
Cover Only					
107C	6" Round Overlapping Cover - ICV	Green	800	0.36	20ND
107C BLK	7" Round Cover ICV	Black	250	1.5	20ND
107C BRN	7" Round Cover ICV	Brown	250	1.5	20ND
107C SAND	6" Round Overlapping Cover - ICV	Sand	800	0.4	20ND
107CH	6" Round Snap-in Overlapping Cover - ICV	Green	1200	0.35	20ND
107CR	6" Round Overlapping Cover - Reclaimed Water	Purple	800	0.4	20ND
107CS	6" Round Overlapping Cover - Sewer	Green	800	0.4	20NM
107CW	6" Round Overlapping Cover - Water	Green	800	0.4	20NM
Box Only					
106B	6" Round Snap-in Valve Box	Black	250	0.9	20ND
107B	6" Round Box	Black	250	1.23	20ND
108B	6" Round Box	Green	250	1.23	20ND

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NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL/COMMERCIAL GRADE

NDS Standard Series 10" Round Valve Boxes

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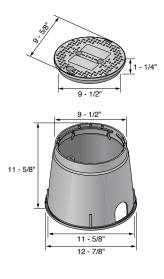
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Specifications: The NDS Standard Series 10" round body is tapered and has a minimum wall thickness of 0.200". The cover seat area has 6 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.500" flange. The 10" round cover has an average thickness of 0.250". The valve box has a 5/16" Brass nut for the bolt-down as a standard feature.

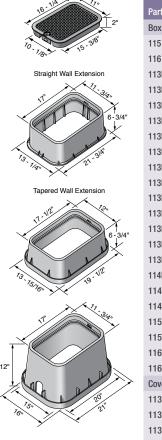


art No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
ox & Cover					
11BC	10" Round Box, Round Overlapping Cover - ICV	Black/Green	180	3	20ND
11BC BLK	10" Round Box, Round Overlapping Cover - ICV	Black/Black	180	3	20ND
11BC CTN	10" Round Box, Round Overlapping Cover - ICV - 4 per carton	Black/Green	72	3.9	20ND
11BC SAND	10" Round Box, Round Overlapping Cover - ICV	Sand/Sand	180	3.2	20ND
11BCB	10" Round Box, Round Overlapping Bolt-Down Cover - ICV	Black/Green	180	3	20ND
11BCBW	10" Round Box, Round Overlapping Bolt-Down Cover - Water	Black/Black	180	3	20NM
11BCR	10" Round Box, Round Overlapping Cover - Reclaimed Water	Black/Purple	180	3	20ND
11BCR BLK	10" Round Box, Round Overlapping Cover - Reclaimed Water	Black/Purple	180	3	20ND
11BCS	10" Round Box, Round Overlapping Cover - Sewer	Black/Green	180	3	20NM
11BCW	10" Round Box, Round Overlapping Cover - Water	Black/Green	180	3	20NM
11PBCR	10" Round Box, Round Overlapping Cover - Reclaimed Water	Purple/Purple	180	3	20ND
12BC	10" Round Box, Round Overlapping Cover - ICV	Green/Green	180	3	20ND
12BCB	10" Round Box, Round Overlapping Bolt-Down Cover - ICV	Green/Green	180	3	20ND
12BCRG	10" Round Box, Round Overlapping Cover - Reclaimed Water	Green/Green	180	3	20ND
12BCS	10" Round Box, Round Overlapping Cover - Sewer	Green/Green	180	3.9	20NM
12BCW	10" Round Box, Round Overlapping Cover - Water	Green/Green	180	3.9	20NM
over Only					
11C	10" Round Overlapping Cover - ICV	Green	300	0.95	20ND
11C BLK	10" Round Overlapping Cover - ICV	Black	300	0.95	20ND
11C BRN	10" Round Overlapping Cover - ICV	Brown	300	0.95	20ND
11C SAND	10" Round Overlapping Cover - ICV	Sand	300	0.95	20ND
11CR	10" Round Overlapping Cover - Reclaimed Water	Purple	300	1	20ND
11CRG	10" Round Overlapping Cover - Reclaimed Water	Green	300	0.95	20ND
11CS	10" Round Overlapping Cover - Sewer	Green	300	1	20NM
11CW BLK	10" Round Overlapping Cover - Water	Black	300	0.95	20ND
11CW	10" Round Overlapping Cover - Water	Green	300	1	20NM
ox Only					
11B	10" Round Box	Black	180	2	20NM
11BBX2	1-3/4" x 5/16" SS Bolt	Steel	n/a	0.05	90WP
11BB	1-1/4" x 5/16" SS Bolt	Steel	n/a	0.05	20ND

NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL/COMMERCIAL GRADE

NDS Standard Series 14" x 19" Rectangular Valve Boxes

Specifications: The NDS Standard Series 14" x 19" body is tapered and has a minimum wall thickness of 0.200". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The cover seat area has 16 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.500" flange. The 14" x 19" cover has an average thickness of 0.250". The volve box has a 3/8" Brass nut for the bolt-down as a standard feature



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Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
115	14" x 19" x 6" Extension, Overlapping Cover - ICV	Black/Green	49	16.16	20ND
116	14" x 19" x 6" Extension, Overlapping Cover - ICV	Green/Green	49	6.16	20ND
113BC	14" x 19" Box, Overlapping Cover - ICV	Black/Green	78	9.1	20ND
113BC CTN	14" x 19" Valve Box Overlap ICV Cover	Black/Green	48	9.32	20ND
113BC SAND	14" x 19" Box, Overlapping Cover - ICV	Sand/Sand	78	9.25	20ND
113BCBLK	14" x 19" Box, Overlapping Cover - ICV	Black/Black	78	9.1	20ND
113BCD	14" x 19" Box, Drop-in Cover - ICV	Black/Green	78	8	20ND
113BCE	14" x 19" Box, Overlapping Cover - Electrical	Black/Green	78	9.32	20NM
113BCR	14" x 19" Box, Overlapping Cover - Reclaimed Water	Black/Purple	78	9.1	20ND
113BCRBLK	14" x 19" Box, Overlapping Cover - Reclaimed Water	Black/Black	78	9.1	20ND
113BCRG	14" x 19" Box, Overlapping Cover - Reclaimed Water	Black/Green	78	9.1	20ND
113BCS	14" x 19" Box, Overlapping Cover - Sewer	Black/Green	78	9.1	20ND
113BCW	14" x 19" Box, Overlapping Bolt-Down Cover - Water	Black/Black	300	9.32	20NM
113BCWG	14" x 19" Box, Overlapping Cover - Water	Black/Green	78	9.1	20ND
113PBCR	14" x 19" Box, Overlapping Cover - Reclaimed Water	Purple/Purple	78	9.29	20ND
114BC	14" x 19" Box, Overlapping Cover - ICV	Green/Green	78	9.95	20ND
114BCS	14" x 19" Box, Overlapping Cover - Sewer	Green/Green	78	9.95	20NM
114BCW	14" x 19" Box, Overlapping Cover - Water	Green/Green	78	9.95	20NM
115BCR	14" x 19" x 6" Box, Overlapping Cover - ICV	Black/Purple	42	7.29	20ND
115TBC	14" x 19" x 6" Tapered Box, Overlapping Cover - ICV	Black/Green	96	6	20ND
116TBC	14" x 19" x 6" Tapered Box, Overlapping Cover - ICV	Green/Green	96	5.55	20ND
116TBC SAND	14" x 19" x 6" Tapered Box, Overlapping Cover - ICV	Sand/Sand	96	6.16	20ND
Cover Only					
113C	14" x 19" Overlapping Cover - ICV	Green	300	2	20ND
113C BRN	14" x 19" Overlapping Cover - ICV	Brown	300	2	20ND
113C SAND	14" x 19" Overlapping Cover - ICV	Sand	300	2	20ND
113CB	14" x 19" Overlapping Cover - ICV	Black	300	2	20ND
113CE	14" x 19" Overlapping Cover - Electrical	Green	300	2.3	20NM
113CR	14" x 19" Overlapping Cover - Reclaimed Water	Purple	300	2.5	20ND
113CRB	14" x 19" Overlapping Cover - Reclaimed Water	Black	300	2	20ND
113CRG	14" x 19" Overlapping Cover - Reclaimed Water	Green	300	2	20ND
113CS	14" x 19" Overlapping Cover - Sewer	Green	300	2	20ND
113CW	14" x 19" Overlapping Cover - Water	Black	300	2	20ND
114CW	14" x 19" Overlapping Cover - Water	Green	300	2	20ND
Box Only					
113-6	14" x 19" x 6" Extension	Black	49	4.1	20ND
113B	14" x 19" Box	Black	78	6.03	20NM
114-6	14" x 19" x 6" Rectangular Extension	Green	49	3.86	20ND
114B	14" x 19" Box	Green	78	6.1	20ND
116-SAND	14" x 19" x 6" Extension	Sand	49	6	20ND
113BB	2-1/2" x 3/8" SS Bolt	Steel	n/a	0.1	20NM

13/16"

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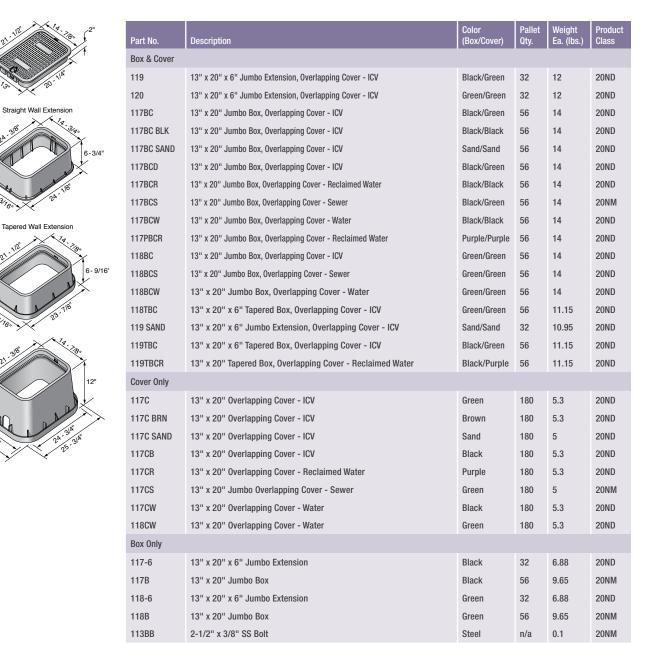
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NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL/COMMERCIAL GRADE

NDS Standard Series 13" x 20" Rectangular Valve Boxes

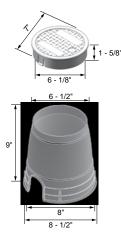
Specifications: The NDS Standard Series 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The cover seat area has 16 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.500" flange. The 13" x 20" cover has an average thickness of 0.250". The valve box has a 3/8" Brass nut for the bolt-down as a standard feature.



NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL GRADE

NDS 6" Round Valve Boxes

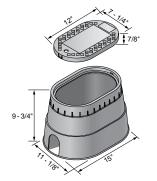
Specifications: NDS 6" round body is tapered and has a minimum wall thickness of 0.130". The body has a double wall at the top cover seat area with a minimum thickness of 0.125". The bottom of the body has a 0.250" flange. The 6" round cover has an average thickness of 0.150".



Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (lbs.)	Product Class
Box & Cover					
D108-G	6" Valve Box and Overlapping Cover - ICV	Green/Green	600	1.2	20ND
D109-G	6" Round Box, 6" Round Cover - ICV	Black/Green	600	1.2	20ND
D109-P	6" Round Box, 6" Round Cover - Reclaimed Water	Black/Purple	600	1.21	20ND
D109-GBOX	6" Round Box, 6" Round Cover - ICV	Black/Green	36 Box/ 900 Pal.	1.2	20ND
Cover Only					
D109-GL	6" Round Cover - ICV	Green	600	0.4	20ND
D109-PL	6" Round Cover - Reclaimed Water	Purple	600	0.4	20ND
Box Only					
D109-B/0	6" Round Box	Black	600	0.8	20ME

NDS 8" x 12" Oval Valve Boxes

Specifications: NDS 8" x 12" body is tapered and has a minimum wall thickness of 0.187". The body has a double wall at the top cover seat area with a minimum thickness of 0.200". The cover seat area has 10 structural support ribs on the underside of the seat, each with a minimum thickness of 0.150". The bottom of the body has a 0.375" flange. The 8" x 12" cover shall have an average thickness of 0.150".



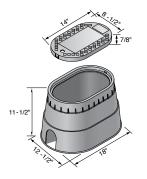
Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
M2-SG	8" x 12" Box, Drop-in Cover - Control Valve	Black/Green	132	4	20ND
Cover Only					
M2-SG-LID	8" x 12", Drop-in Cover	Green	132	0.719	20ND

VALVE BOXES

NDS STANDARD SERIES VALVE BOXES - RESIDENTIAL GRADE

NDS 8" x 14" Oval Valve Boxes

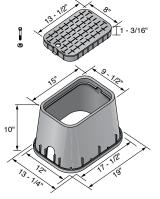
Specifications: NDS 8" x 14" body is tapered and has a minimum wall thickness of 0.187". The body has a double wall at the top cover seat area with a minimum thickness of 0.200". The cover seat area has 10 structural support ribs on the underside of the seat, each with a minimum thickness of 0.150". The bottom of the body has a 0.375" flange. The 8" x 14" cover has an average thickness of 0.150".



Part No.	Description		Pallet Qty.		Product Class
Box & Cover					
M4-SG	8" x 14" Box, Drop-in Cover - Control Valve	Black/Green	96	4.6	20ND

NDS 10" x 15" Rectangular Valve Boxes

Specifications: NDS 10" x 15" x 10" body is tapered and has a minimum wall thickness of 0.130". The body has a double wall at the top cover seat area with a minimum thickness of 0.200". The cover seat area has 12 structural support ribs on the underside of the seat, each with a minimum thickness of 0.130". The bottom of the body has a 0.750" flange. The D1000 cover has an average thickness of 0.187". NDS D1000 valve boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed.



Part No.	Description	Color (Box/Cover)	Pallet Qty.	Weight Ea. (Ibs.)	Product Class
Box & Cover					
D1000-SG	10" x 15" x 10" Box, Drop-in Cover - Valve Box	Black/Green	96	4.8	20ND
Cover Only					
D1000-SGL	10" x 15" Drop-in Cover - Valve Box	Green	360	1.4	20ND
Box Only					
D1000-B/0	10" x 15" x 10" Box	Black	96	3.4	20ME

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107C BLK	199	113BCS	201	120	202	314B	195	323CR	198
107C BRN	199	113BC SAND	201	121BB	197	314BBLK	195	323CS	198
107CH	199	113BCW	201	311B	194	314BC	195	324B	198
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111BCBW	200	115TBC	201	312B	194	317C BLK	196	D109-B/0	203
111BC CTN	200	116	201	312BC	194	317C BRN	196	D109-G	203
111BCR	200	116-SAND	201	312BCB	194	317CR	196	D109-GBOX	203
111BCR BLK	200	116TBC	201	312BCB ELEC	194	317CS	196	D109-GL	203
111BCS	200	116TBC SAND	201	312BCBS	194	317CSAND	196	D109-P	203
111BC SAND	200	117-6	202	312BC ELEC	194	317CW	196	D109-PL	203
111BCW	200	117B	202	312BCRBLK	194	318B	196	D1000-B/0	203
1110	200	117BC	202	312BCRG	194	318B BLK	196	D1000-SG	204
111C BRN	200	117BC BLK	202	312BCS	194	318BC	196	D1000-SGL	204
111CR	200	117BCD	202	312BCSAND	194	318BCB	196	M2-SG	204
111CRG	200	117BCR	202	312BCW	194	318BCBRBLK	196	M2-SG-LID	203
111CS	200	117BCS	202	312PB	194	318BCBRG	196	M2-SG	203
111C SAND	200	117BC SAND	202	312PBCBR	194	318BCBS	196	MH-00	204
111CW	200	117BCW	202	312PBCR	194	318BCBSAND	196		
111CW BLK	200	117C	202	313BC	194	318BCBW	196		
111PBCR	200	117CB	202	313BCB	195	318CW	196		
112B	200	117CB 117C BRN	202	313BCBBLK	195	3180W 318PB	196		
112BC	200	117C BRN 117CR	202	313BCBR	195				
112BCB	200	117CR 117CS	202	313BCBRBLK	195	318PBCBR	196 196		
I I ZDUD	200	11/65	202	313DUDRDLK	195	318PBCR	190		





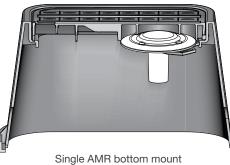
Superior signal transmission versus products made of concrete materials or cast iron.

Lighter weight material eases installation and lowers freight and handling costs.

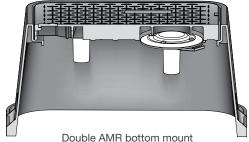
Designed specifically for the Automatic Meter reading industry, the newest line of AMR boxes builds on the NDS tradition of strength, durability and value. Like our current automatic Meter Reading products, this new line of AMR boxes and covers are injection-molded of polyoefins and contain UV inhibitors to prevent discoloration and cracking.

Bottom Mounts

- Concealed antennae are completely protected from landscape equipment damage and are less likely to draw attention from vandals
- Exceptional antennae signal transmissions
- Offset cavities eliminate the physical interference between antennae and meter
- Bracket accommodates a majority of the industry antennae



(pre-assembled bracket)



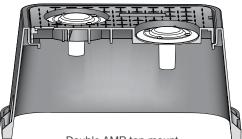
(pre-assembled bracket)

Top Mounts

- Recess reduces the probability of damage caused by landscape equipment and vandals
- Offset recesses eliminate the physical interference between the antennae and meter
- Recess and holes accommodate most of the industry antennae
- · Compatible with many of the industry Touch Read antennae



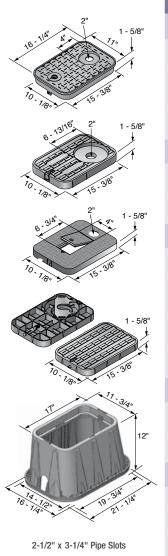




Double AMR top mount

NDS 14" x 19" AMR Meter Boxes & Covers

Specifications: NDS 14" x 19" AMR meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. NDS 14" x 19" x 12" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.187". The cover seat area has 30 structural support ribs on the underside of the seat, each with a minimum thickness of 3/16". The bottom of the body has a 1" flange. The 14" x 19" cover has a minimum thickness of 0.250".



		Color	Pallet	Wt. Ea.	Product
Part No.	Description - Marking	(Box/Cover)	Qty.	lbs.	Class
Drop-in Box & Cover					
D12-BAMR	14" x 19" x 12" Box, Drop-in Locking Solid Plastic, Single Bottom Mount AMR Bracket Cover - Water Meter	Black/Black	72	8.90	20ME
D12-TAMR	14" x 19" x 12" Box, Drop-in Locking Solid Plastic, Single 2" AMR/TR Hole w/ 7" Top Recess Cover - Water Meter	Black/Black	72	9.22	20ME
D1200-DITR	14" x 19" x 12" Box, Drop-in Solid Plastic, Single 2" AMR/TR Hole Cover - Water Meter	Black/Black	72	9.00	20ME
Overlapping Box & Co	ver				
D12AMR-OLLOCTRBLUL	14" x 19" Blue Overlapping Solid Plastic, Single 1.75" AMR/ TR Hole w/ 4" Top Recess Cover - Water Meter	Blue	100	2.80	20ME
D1200-0LTR	14" x 19" x 12" Box, Overlapping Solid Plastic, Single 2" AMR/TR Hole Cover - Water Meter	Black/Black	72	9.20	20ME
Drop-in Cover Only					
D12-BAMRL	14" x 19" Drop-in Locking Solid Plastic, Single Bottom Mount AMR Bracket Cover - Water Meter	Black	100	2.10	20ME
D12-TAMRL	14" x 19" Drop-in Locking Solid Plastic, Single 2" AMR/TR Hole w/ 7" Top Recess Cover - Water Meter	Black	100	2.42	20ME
D1200-DITRL	14" x 19" Drop-in Solid Plastic, Single 2" AMR/TR Hole Cover - Water Meter	Black	100	2.20	20ME
D12-TAMRBLUL	12" x 17" AMR Top Mount Locking Lid	Blue	100	2.42	20ME
Overlapping Cover Onl	У				
D12AMR-OLLOCL	14" x 19" Overlapping Solid Plastic, Single 4" Top Recess Cover - Water Meter	Black	100	2.80	20ME
D12AMR-OLLOCTRL	14" x 19" Overlapping Solid Plastic, Single 1.75" AMR/TR Hole w/ 4" Top Recess Cover - Water Meter	Black	100	2.80	20ME
Box Only					
D1200-B/0	14" x 19" x 12" Box	Black	72	6.80	20ME
D600E-EXT	14" x 19" x 6" Extension	Black	42	4.20	20ME
D1800-B/0	14" x 19" x 18" Box	Black	48	10.00	20ME
Box with Overlapping	Cover				
D600E-DISG	12" x 6" Extension Drop-in Solid Plastic Cover	Black/Green	42	6.40	20ME

METER BOXES



NDS 13" x 20" AMR Boxes & Covers

Specifications: NDS 13" x 20" AMR meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.187". The cover seat area has 30 structural support ribs on the underside of the seat, each with a minimum thickness of 3/16". The bottom of the body has a 1" flange. The 14" x 19" cover has an average thickness of 0.250".

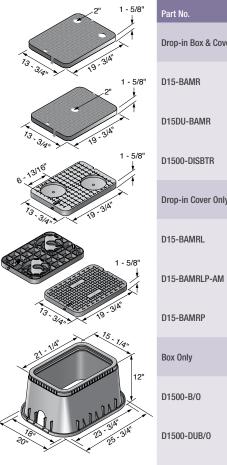
1 - 5/8"	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
15-318	Drop-in Box & Cover					
7 , 1 - 5/8"	D15AMR2-DI	13" x 20" x 12" Jumbo AMR Box, Drop-in Solid Plastic Cover - Water Meter	Black/Black	48	16.20	20ME
15-38	D1200-DICIRBLU	12" x 17" Box with Drop-in Plastic Cover with cast Iron Meter Reader	Black/Blue	72	10.20	20ME
1 - 1/2"	Overlapping Box & Cov	/er				
15-318	D15AMR2-OLLOC	13" x 20" x 12" Jumbo AMR Box, Overlapping Locking Solid Plastic Cover - Water Meter	Black/Black	48	16.60	20ME
1- 1/2"	D15AMR2-0LR	13" x 20" x 12" Jumbo AMR Box, Overlapping Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	48	16.40	20ME
	Drop-in Cover Only					
15-314	D1200-DISBL	14" x 19" Drop-in Solid Plastic Cover - Water Meter	Black	216	2.20	20ME
77 1 - 1/2"	D1200-DIRBL	14" x 19" Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black	216	2.20	20ME
15.38	D1200-DICIRLID	14" x 19" Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	216	3.40	20ME
15	Overlapping Cover Onl	у				
×15.1/4"	D1200-OLSBL	14" x 19" Overlapping Solid Plastic Cover - Water Meter	Black	216	2.40	20ME
TURNALINA	D1200-OLLOCBLD	14" x 19" Overlapping Locking Solid Plastic Cover - Water Meter	Black	100	2.60	20ME
L L L	Box Only					
23 - 3 - 3 4	D15AMR2-B/0	13" x 20" x 12" Jumbo AMR Box with No Pipe Slots	Black	48	12.09	20ME
'4" Pipe Slots	D15AMR2-DU B/0	13" x 20" x 12" Jumbo AMR Box with Dual Pipe Slots Reader End	Black	48	10.20	20ME
	D15AMR2-PS B/0	Jumbo AMR Box with Pipe Slots	Black	48	10.20	20ME

2-1/2" x 3-1/4" Pipe Slot

10

NDS 13" x 20" Jumbo Boxes & AMR Covers

Specifications: NDS 13" x 20" meter boxes and AMR covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.187". The cover seat has 56 structural support ribs on the underside of the seat, each with a minimum thickness of 1/50". The body has a 1" flange. The 13" x 20" cover has an average thickness of 0.25".



3" x 4" F	Pipe Slots
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Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
Drop-in Box & Cover					
D15-BAMR	13" x 20" x 12" Jumbo Box, Drop-in Locking Solid Plastic w/Double Bottom Mount AMR Brackets Cover - Water Meter	Black/Black	48	24.40	20ME
D15DU-BAMR	13" x 20" x 12" Dual Pipe Slot Box, Drop-in Locking Solid Plastic w/ Double Bottom Mount AMR Brackets Cover - Water Meter	Black/Black	48	23.91	20ME
D1500-DISBTR	13" x 20" x 12" Jumbo Box, Drop-in Solid Plastic w/ Single Custom AMR/TR Hole Cover - Water Meter	Black/Black	48	13.20	20ME
Drop-in Cover Only					
D15-BAMRL	13" x 20" Drop-in Locking Solid Plastic w/ Double Bottom Mount AMR Brackets Cover - Water Meter	Black	96	15.00	20ME
D15-BAMRLP-AM	13" x 20" x 12" Drop in Solid Plastic Cover - Reclaimed Water	Purple	96	15.00	20ME
D15-BAMRP	13" x 20" x 12" Drop in Solid Plastic Cover with Lid - Reclaimed Water	Purple/Purple	48	15.00	20ME
Box Only					
D1500-B/0	13" x 20" x 12" Jumbo Box	Black	48	9.40	20ME
D1500-DUB/0	13" x 20" x 12" Dual Pipe Slot Box	Black	48	8.91	20ME
D750E-EXT	13" x 20" x 6" Extension	Black	36	5.60	20ME



NDS D109 Meter Boxes

Specifications: NDS 6" round meter boxes and covers are injection molded of recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 6" round body is tapered and has a minimum wall thickness of 0.13". The body has a double wall at the top cover seat area with a minimum thickness of 0.125" The bottom of the body has a 0.250" flange. The 6" round cover has an average thickness of 0.15".



Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
Box & Cover					
D109-B	6" Round Box, Overlapping Solid Plastic Cover - Water Meter	Black/Black	900	1.21	20ME
D109-P	6" Round Box, Overlapping Solid Plastic Cover - Reclaimed Water	Purple/Purple	900	1.21	20ME
Cover Only					
D109-PL	6" Round Overlapping Solid Plastic Cover - Reclaimed Water	Purple	900	0.40	20ME
D1100-SPL	10" Overlapping Cover - Reclaimed	Purple	350	0.80	20ME
Box Only					
D109-B/0	6" Round Box	Black	600	0.80	20ME

NDS D1000 Meter Boxes

Specifications: NDS D1000 meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. NDS 10" x 15" x 10" body is tapered and has a minimum wall thickness of 0.13". The body has a double wall at the top cover seat area with a minimum thickness of 0.20". The cover seat area has 12 structural support ribs on the underside of the seat, each with a minimum thickness of 0.13". The body has a 0.75" flange.

	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
8"	Drop-in Box & Cover					
1 - 3/16"	D1000-SB	10" x 15" x 10" Box, Drop-in Solid Plastic Cover - Water Meter	Black/Black	96	5	20ME
· · · · · · · · · · · · · · · · · · ·	D1000-RB	10" x 15" x 10" Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	96	5	20ME
	Drop-in Cover Only					
	D1000-SBL	10" x 15" Drop-in Meter Solid Plastic Cover - Water Meter	Black	300	1.4	20ME
17-112	D1000-RBL	10" x 15" Drop-in Meter Reader w/ Plastic Reader Cover - Water Meter	Black	300	1.6	20ME

2" x 3" Pipe Slot

NDS D1200 Meter Boxes

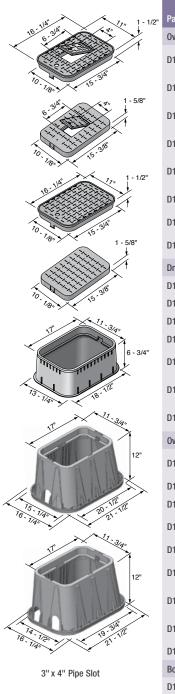
Specifications: NDS D1200 meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. NDS 14" x 19" x 12" body is tapered and has a minimum wall thickness of 0.25". The body has a double wall at the top cover seat area with a minimum thickness of 0.187". The cover seat area has 30 structural support ribs on the underside of the seat, each with a minimum thickness of 3/16". The bottom of the body has a 1" flange. The D1200 cover has a minimum thickness of 0.250".

	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
2-3 ¹ / ₁ - 5/8"	Drop-in Box & Cover					
38	D1200-DISB	14" x 19" x 12" Standard Box, Drop-in Solid Plastic Cover - Water Meter	Black/Black	72	9.00	20ME
7, 1 - 1/2"	D1200-DUDISB	14" x 19" x 12" Standard Dual Pipe Slot Box, Drop-in Solid Plastic Cover - Water Meter	Black/Black	72	9.00	20ME
8	D1200-DISBSWR	14" x 19" x 12" Standard Box, Drop-in Solid Plastic Cover - Sewer	Black/Black	72	9.00	20ME
15-314 ⁴	D1200-DISGSWR	14" x 19" x 12" Standard Box, Drop-in Solid Plastic Cover - Sewer	Black/Green	72	9.00	20ME
11.34"	D1200G-DISGSWR	14" x 19" x 12" Standard Box, Drop-in Solid Plastic Cover - Sewer	Green/Green	72	9.00	20ME
6 - 3/4"	D1200-DISBLU	14" x 19" x 12" Standard Box, Drop-in Solid Plastic Cover - Water Meter	Black/Blue	72	9.00	20ME
18.12	D1200-DIRB	14" x 19" x 12" Standard Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	72	9.00	20ME
11.3.q.	D1200-DUDIRB	14" x 19" x 12" Standard Dual Pipe Slot Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	72	9.00	20ME
12"	D1200-DIBLRD	14" x 19" x 12" Standard Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Blue	72	9.00	20ME
	D1200-DIRG	14" x 19" x 12" Standard Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Green	72	9.00	20ME
19-3 ¹⁴ 21-12	D1200-DICIR	14" x 19" x 12" Standard Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	72	10.20	20ME
3" x 4" Pipe Slot	D1200-DUDICIR	14" x 19" x 12" Standard Dual Pipe Slot Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	72	10.20	20ME
	D1200P-DICIRP	14" x 19" x 12" Standard Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Reclaimed Water	Purple/Purple	72	10.20	20ME
	Cover Only					
	D1200-DISBLUL	12" Drop in Solid Plastic Cover - Meter Reader	Blue	216	2.20	20ME

METER BOXES



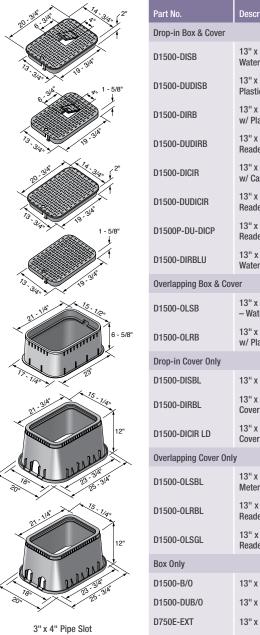
NDS D1200 Meter Boxes (continued)



Overapping Data ServiceVersionVersionVersionD1200-0LS0"Ark 19" x 12" Standard Dox, Overapping Solid Plastic CoverBlack/Black7.29.200.200D1200-0LLC0Solid Plastic Cover-Water MeterBlack, Vallesk7.29.400.200D1200-0LLC014" x 19" x 12" Standard Dox, Overapping Locking SolidBlack/Black7.29.4000.200D1200-0LLC014" x 19" x 12" Standard Dox, Overapping Nuller ReaderBlack/Black7.29.400200D1200-0LLC014" x 19" x 12" Standard Dox, Overapping Meter ReaderBlack/Black7.29.000200D1200-0LLC014" x 19" x 12" Standard Dox, Overapping Meter ReaderBlack/Black7.29.000200D1200-0LC014" x 19" x 12" Standard Dox, Overapping Meter ReaderBlack/Black7.29.000200D1200-0LC014" x 19" x 12" Standard Dox, Overapping Meter ReaderBlack/Black7.29.000200D1200-0LC012" Overapping Cover with Plastic Meter ReaderBlack16.22.0200D1200-0LS114" x 19" rop-in Solid Plastic Cover - Meter MeterBlack16.22.0200D1200-0LS114" x 19" rop-in Solid Plastic Cover - Near MeterBlack16.22.02.0D1200-0LS114" x 19" rop-in Meter ReaderBlack16.22.02.02.0D1200-0LS114" x 19" rop-in Meter Reader with Plastic Reader CoverBlack16.22.02.0D1200-0LS114" x 19" rop-in Meter Reader With Plastic Reader Cover <th>Part No.</th> <th>Description - Marking</th> <th>Color (Box/Cover)</th> <th>Pallet Qty.</th> <th>Wt. Ea. Ibs.</th> <th>Product Class</th>	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
D1 200-0LSB Water Mater BidD/Biol 72 9.00 2008 D1 200-0LUCB 14" x 19" x 12" Standard Dax Pipe Slot Box, Overlapping Biack/Black 72 9.00 2004 D1 200-0LUCB 14" x 19" x 12" Standard Dax, Overlapping Solid Cast Iron Biack/Black 72 9.00 2004E D1 200-0LUCB 14" x 19" x 12" Standard Box, Overlapping Solid Cast Iron Biack/Black 72 9.00 2004E D1 200-0LURB 14" x 19" x 12" Standard Box, Overlapping Meter Reader Biack/Black 72 9.00 2004E D1 200-0LUR 14" x 19" x 12" Standard Box, Overlapping Meter Reader Biack/Black 72 9.00 2004E D1 200-0LUR 12" Overlapping Cover with Plastic Meter Reader Biack/Black 72 9.00 2004E D1 200-0LUR 12" Overlapping Cover with Plastic Meter Reader Biack/Black 72 9.00 2004E D1 200-0LISB 14" x 19" Drop-in Solid Plastic Cover - Mater Meter Black 216 2.00 2004E D1 200-DISBL 14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water Meter 216 2.00	Overlapping Box & Cov	ver				
D1200-D0LSB Solid Plastic Cover - Water Meter Bidd/Black 72 9.00 20Me D1200-OLLOCB 14" x 19" x 12" Standard Box, Overlapping Solid Cast Iron Cover - Water Meter Black/Black 72 9.00 20ME D1200-OLLOCB 14" x 19" x 12" Standard Box, Overlapping Meter Reader Plastic with Plastic Reader Cover - Water Meter Black/Black 72 9.00 20ME D1200-OLCRB 14" x 19" x 12" Standard Box, Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water Meter Black/Black 72 9.00 20ME D1200-OLCR 14" x 19" x 12" Standard Box, Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water Meter Black/Black 72 9.20 20ME D1200-DLCR 14" x 19" x 12" Standard Box, Overlapping Meter Reader Black/Black 72 9.20 20ME D1200-DISBL 12" Overlapping Cover with Plastic Neter Reader Black 216 2.00 20ME D1200-DISBL 14" x 19" Drop-in Solid Plastic Cover - Sever Black 216 2.00 20ME D1200-DISBLW 14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water Meter Black 216 2.00 20ME	D1200-0LSB		Black/Black	72	9.20	20ME
D1200-DLC00s Plastic Cover - Water Meter Plastic Cover	D1200-DU0LSB		Black/Black	72	9.20	20ME
D1200-CI Cover - Water Meter Black/Black 72 19.00 20Me D1200-OLGR 14" x 19" x 12" standard Box, Overlapping Meter Reader Black/Black 72 9.20 20ME D1200-OLGR 14" x 19" x 12" standard Box, Overlapping Meter Reader Black/Black 72 9.20 20ME D1200-OLGR 14" x 19" x 12" standard Box, Overlapping Meter Reader Black/Black 72 9.20 20ME D1200-OLGR 14" x 19" x 12" standard Box, Overlapping Meter Reader Black/Black 72 9.20 20ME D1200-CIGR 14" x 19" orp-in Solid Plastic Cover - Water Meter Black/Black 72 10.28 20ME D1200-DISS 14" x 19" orp-in Solid Plastic Cover - Water Meter Black 216 2.20 20ME D1200-DISS 14" x 19" orp-in Solid Plastic Cover - Sever Green 216 2.20 20ME D1200-DISS 14" x 19" orp-in Meter Reader with Plastic Reader Cover - Black 216 2.20 20ME D1200-DISSWR 14" x 19" orp-in Meter Reader with Plastic Reader Cover - Black 216 2.40 20ME	D1200-OLLOCB		Black/Black	72	9.40	20ME
D12.00-0LRB Plastic with Plastic Reader Cover - Water Meter Diack Statust 7.2 9.20 20/12 D1200-0LCIR 14* x 19* x 12* Standard Box, Overlapping Meter Reader Black/Black 72 10.60 20ME D1200-0LCRBL 12* 0verlapping Cover with Plastic Meter Reader Black/Black 72 10.20 20ME D1200-CICIR 14* x 19" x 12* Standard Box, Overlapping Meter Reader Case Black/Black 72 10.20 20ME D1200-CICIR 14* x 19" Drop-in Solid Plastic Cover - Water Meter Black 72 2.00 20ME D1200-DISGL 14* x 19" Drop-in Solid Plastic Cover - Water Meter Black 216 2.00 20ME D1200-DISGL 14* x 19" Drop-in Solid Plastic Cover - Sewer Green 216 2.00 20ME D1200-DISGL 14* x 19" Drop-in Meter Reader with Plastic Reader Cover - Black 216 2.00 20ME D1200-DIGLDL 14* x 19" Drop-in Meter Reader with Cast Iron Reader Cover - Black 216 3.40 20ME D1200-DIGLDLD 14* x 19" Drop-in Meter Reader Solid Plastic Cover - Black 216	D1200-Cl	· · · · · · · · · · · · · · · · · · ·	Black/Black	72	19.00	20ME
D1200-0LCM Plastic with Cast Iron Reader Cover – Water Meter Black Rick 7.2 10.00 20/16 D1200-0LRBLU 12° Overlapping Over with Plastic Meter Reader Black/Black 72 9.20 20ME D1200-CICIR 14* x 19" x 12" Standard Box, Overlapping Meter Reader Black/Black 72 10.28 20ME Drop-in Cover Onty 2.20 20ME 20ME D1200-DISBL 14* x 19" Drop-in Solid Plastic Cover – Water Meter Black 216 2.20 20ME D1200-DISGL 14* x 19" Drop-in Solid Plastic Cover – Sever Green 216 2.20 20ME D1200-DISGL 14* x 19" Drop-in Meter Reader with Plastic Reader Cover Black 216 2.20 20ME D1200-DISGL 14* x 19" Drop-in Meter Reader with Plastic Reader Cover – Black 216 2.20 20ME D1200-DICRLD 14* x 19" Drop-in Meter Reader with Cast Iron Reader Cover – Black 216 2.40 20ME D1200-DICRLD 14* x 19" Overlapping Cover with Solid Plastic Cover – Water Meter Black 216 2.40 20ME </td <td>D1200-0LRB</td> <td></td> <td>Black/Black</td> <td>72</td> <td>9.20</td> <td>20ME</td>	D1200-0LRB		Black/Black	72	9.20	20ME
D1200-CICIR Id ^a ''s 12" Standard Box, Overlapping Meter Reader Cass Black/Black 72 10.28 20ME Drop-in Cover Only	D1200-OLCIR		Black/Black	72	10.60	20ME
D1200-CLCIR Pron w/ Cast Iron Reader Cover – Water Meter Black/Diack P2 P12.80 Z0ME Drop-in Cover Only 2.20 2.001 <td< td=""><td>D1200-OLRBLU</td><td>12" Overlapping Cover with Plastic Meter Reader</td><td>Black/Blue</td><td>72</td><td>9.20</td><td>20ME</td></td<>	D1200-OLRBLU	12" Overlapping Cover with Plastic Meter Reader	Black/Blue	72	9.20	20ME
D1200-DISBL 14" x 19" Drop-in Solid Plastic Cover – Water Meter Black 216 2.20 20ME D1200-DISBSWRL 14" x 19" Drop-in Solid Plastic Cover – Sever Black 216 2.20 20ME D1200-DISGS 14" x 19" Drop-in Solid Plastic Cover – Sever Green 216 2.20 20ME D1200-DISGSWRL 14" x 19" Drop-in Solid Plastic Cover – Sever Green 216 2.20 20ME D1200-DIRBL 14" x 19" Drop-in Meter Reader with Plastic Reader Cover – Water Meter Black 216 2.20 20ME D1200-DIBLRDL 14" x 19" Drop-in Meter Reader with Plastic Reader Cover – Water Meter Black 216 2.40 20ME D1200-DICRLD 14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader Cover – Water Meter Black 216 2.40 20ME D1200-CICIR LD 14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader Green 216 2.40 20ME D1200-CICIR LD 14" x 19" Overlapping Solid Plastic Cover – Water Meter Black 216 2.40 20ME D1200-OLSBL 14" x 19" Overlapping Meter Reader Plastic Cover – Black 216<	D1200-CICIR		Black/Black	72	10.28	20ME
D1200-DISBSWRL14" x 19" Drop-in Solid Plastic Cover – SeverBlack2162.2020MED1200-DISGN14" x 19" Drop-in Solid Plastic Cover – SeverGreen2162.2020MED1200-DISGSWRL14" x 19" Drop-in Meter Reader with Plastic Reader Cover – Water MeterBlack2162.2020MED1200-DIBLRDL14" x 19" Drop-in Meter Reader with Plastic Reader Cover – Water MeterBlue2162.2020MED1200-DICIRLD14" x 19" Drop-in Meter Reader with Cast Iron Reader Cover – Water MeterBlack2162.4020MED1200-DICIRLD14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-DISSL14" x 19" Overlapping Cost Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-DISSL14" x 19" Overlapping Cost Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-OLSSL14" x 19" Overlapping Cost Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-OLSSL14" x 19" Overlapping Solid Plastic Cover – Water MeterBlack2162.4020MED1200-OLGRLD14" x 19" Overlapping Meter Reader Plastic with PlasticBlack2162.4020MED1200-OLLCGRLD14" x 19" Overlapping Meter Reader Plastic with PlasticBlack2162.4020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Cast IronBlack2163.8020ME <tr< tr=""><td< td=""><td>Drop-in Cover Only</td><td></td><td></td><td></td><td></td><td></td></td<></tr<>	Drop-in Cover Only					
D1200-DISGL 12° Drop in Solid Plastic Cover - Meter Reader Green 216 2.00 20ME D1200-DISGSWRL 14" x 19" Drop-in Solid Plastic Cover - Sewer Green 216 2.00 20ME D1200-DIBRL 14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water Meter Black 216 2.00 20ME D1200-DIBLRDL 14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water Meter Blue 216 2.00 20ME D1200-DICIRLD 14" x 19" Drop-in Meter Reader with Cast Iron Reader Cover - Water Meter Black 216 2.40 20ME D1200-DICIRLD 14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader - Water Meter Black 216 2.40 20ME D1200-OLSBL 14" x 19" Overlapping Cover with Solid Plastic Cover - Water Meter Black 216 2.40 20ME D1200-OLSBL 14" x 19" Overlapping Locking Solid Plastic Cover - Water Meter Black 216 2.40 20ME D1200-OLSBL 14" x 19" Overlapping Meter Reader Solid Cast Iron Cover - Water Meter Black 216 2.40 20ME D1200-OLLCGBLD 14" x 19" Overlapping Me	D1200-DISBL	14" x 19" Drop-in Solid Plastic Cover – Water Meter	Black	216	2.20	20ME
D1200-DISGSWRL14" x 19" Drop-in Solid Plastic Cover - SewerGreen2162.2020MED1200-DIRBL14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water MeterBlue2162.2020MED1200-DIGRLDL14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water MeterBlue2162.2020MED1200-DICIRLD14" x 19" Drop-in Meter Reader with Cast Iron Reader Cover Water MeterBlack2163.4020MED1200-CICIRLD14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader - Water MeterBlack2162.4020MED1200-CICIRLD14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack2162.4020MED1200-CICIRLD14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack2162.4020MED1200-CICIRLD14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack1002.6020MED1200-CILCRLD14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack1002.6020MED1200-CILRLD14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover - Water MeterBlack2162.4020MED1200-CILRLD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2162.002.00ED1200-CILRLD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2163.802.0MED1200-CILRLD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cove	D1200-DISBSWRL	14" x 19" Drop-in Solid Plastic Cover – Sewer	Black	216	2.20	20ME
D1200-DIRBLH ⁴ " x 19" Drop-in Meter Reader with Plastic Reader Cover - Water MeterBlack2162.2020MED1200-DIBLRDL14" x 19" Drop-in Meter Reader with Plastic Reader Cover - Water MeterBlue2162.0020MED1200-DICIRLDD14" x 19" Drop-in Meter Reader with Cast Iron Reader Cover - Water MeterBlack2163.0020MED1200-DICIRLDD14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader - Water MeterBlack2162.0020MED1200-DLCBL14" x 19" Overlapping Cover - Water MeterBlack2162.0020MED1200-DLSBL14" x 19" Overlapping Cover with Solid Plastic Cover - Water MeterBlack2162.0020MED1200-DLCBLD14" x 19" Overlapping Cover with Solid Plastic Cover - Water MeterBlack1002.6020MED1200-DLCBLD14" x 19" Overlapping Locking Solid Plastic Cover - Water MeterBlack1002.6020MED1200-DLCBLD14" x 19" Overlapping Meter Reader Solid Cast Iron Cover - Water MeterBlack1162.0020MED1200-DLCRLD14" x 19" Overlapping Meter Reader Plastic with PlasticBlack2162.0020MED1200-DLCRLD14" x 19" Overlapping Meter Reader Plastic with Cast IronBlack2163.8020MED1200-DLCRLD14" x 19" Overlapping Meter Reader Plastic with Cast IronBlack2163.8020MED1200-DLCRLD14" x 19" Overlapping Meter Reader Plastic with Cast IronBlack2163.8020ME<	D1200-DISGL	12" Drop in Solid Plastic Cover - Meter Reader	Green	216	2.20	20ME
D1200-DIABLWater MeterDiack2162.202.0MED1200-DIBLRDL14" x 19" Drop- in Meter Reader with Plastic Reader Cover – Water MeterBlue2162.4020MED1200-DICIRLID14" x 19" Drop- in Meter Reader with Cast Iron Reader Cover - Water MeterBlack2163.4020MEDvertapping Cover ONV14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-CICIR LD14" x 19" Overlapping Cost Iron Lid with Cast Iron ReaderBlack2162.4020MED1200-OLSBL14" x 19" Overlapping Cover with Solid Plastic Cover – Water MeterBlack2162.4020MED1200-OLSGL12" Overlapping Cover with Solid Plastic Cover – Water MeterBlack1002.6020MED1200-OLSBL14" x 19" Overlapping Locking Solid Plastic Cover – Water MeterBlack1002.6020MED1200-OLLOBLD14" x 19" Overlapping Meter Reader Solid Cast Iron Cover – Water MeterBlack2162.4020MED1200-OLLR14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlack2162.4020MED1200-OLCR LD14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlack2163.8020MED1200-OLCR LD14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlack726.8020MED1200-OLCR LD14" x 19" Coverlapping Meter Reader Plastic with Plastic Reader Cover – Water	D1200-DISGSWRL	14" x 19" Drop-in Solid Plastic Cover – Sewer	Green	216	2.20	20ME
D1200-DIGLRLDWater MeterBlue2162.202.0MED1200-DICIRLD14" x 19" Drop-in Meter Reader with Cast Iron Reader Cover - Water MeterBlack2163.4020MEOverlapping Cover ontUverlapping Cover apping Cast Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-CICIR LD14" x 19" Overlapping Cover - Water MeterBlack2162.4020MED1200-DLSBL14" x 19" Overlapping Cover with Solid Plastic Cover – Water MeterBlack2162.4020MED1200-OLLCGLD12" Overlapping Cover with Solid Plastic Cover – Water MeterGreen2162.4020MED1200-OLLOCBLD14" x 19" Overlapping Locking Solid Plastic Cover – Water MeterBlack1002.6020MED1200-OLLOCBLD14" x 19" Overlapping Meter Reader Solid Cast Iron Cover – Water MeterBlack2162.4020MED1200-OLL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover – Water MeterBlack2162.4020MED1200-OLL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlack2163.8020MED1200-OLCRLD14" x 19" verlapping Cover with Cast Iron Meter Reader Iron Reader Cover – Water MeterBlack2163.8020MED1200-OLCRLLD14" x 19" x 12" Standard BoxBlack7210.3320MED1200-DLGRLD14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200	D1200-DIRBL		Black	216	2.20	20ME
D1200-DICIRLID-water MeterBiack2163.4020MEOverlapping Cover OntD1200-CICIR LD14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader – Water MeterBlack2162.4020MED1200-OLSBL14" x 19" Overlapping Cover with Solid Plastic Cover – Water MeterBlack2162.4020MED1200-OLSGL12" Overlapping Cover with Solid Plastic Cover – Water MeterBlack2162.4020MED1200-OLSGL14" x 19" Overlapping Locking Solid Plastic Cover – Water MeterBlack1002.6020MED1200-OLLOCBLD14" x 19" Overlapping Solid Plastic Cover – Water MeterBlue2162.4020MED1200-OLBLL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover – Water MeterBlack2162.4020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlack2162.4020MED1200-OLCRLD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover – Water MeterBlack2163.8020MED1200-OLCRLD14" x 19" Overlapping Cover with Cast Iron Meter ReaderBlack720.03320MED1200-OLCRLD14" x 19" x 12" Standard BoxBlackBlack726.8020MED1200-B/O14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-DUB/O14" x 19" x 12" Standard BoxGreen726.8020MED1200-B/O14" x 19" x 12" Standard Box <t< td=""><td>D1200-DIBLRDL</td><td></td><td>Blue</td><td>216</td><td>2.20</td><td>20ME</td></t<>	D1200-DIBLRDL		Blue	216	2.20	20ME
D1200-CICIR LD14" x 19" Overlapping Cast Iron Lid with Cast Iron Reader - Water MeterBlack2162.4020MED1200-OLSBL14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack2162.4020MED1200-OLSGL12" Overlapping Cover with Solid Plastic Cover - Water MeterGreen2162.4020MED1200-OLLOCBLD14" x 19" Overlapping Locking Solid Plastic Cover - Water MeterBlack1002.6020MED1200-OLLOCBLD14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack1002.6020MED1200-OLBLL14" x 19" Overlapping Solid Plastic Cover - Water MeterBlack2162.4020MED1200-OLBLL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover - Water MeterBlack2162.4020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover - Water MeterBlue2162.4020MED1200-OLCIR LD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2163.8020MED1200-OLCIR LD14" x 19" Overlapping Cover with Cast Iron Meter ReaderBlack2163.8020MED1200-OLCIR LD14" x 19" X12" Standard BoxBlack726.8020MED1200-B/O14" x 19" x 12" Standard Dual Pipe Slot Box D1200-GLOG-B/O14" x 19" x 12" Standard BoxBlack726.8020ME	D1200-DICIRLID		Black	216	3.40	20ME
D1200-CLICH LDWater MeterWater MeterD1200 </td <td>Overlapping Cover Onl</td> <td>у</td> <td></td> <td></td> <td></td> <td></td>	Overlapping Cover Onl	у				
D1200-0LSGL12" Overlapping Cover with Solid Plastic Meter ReaderGreen2162.4020MED1200-0LL0CBLD14" x 19" Overlapping Locking Solid Plastic Cover - Water MeterBlack1002.6020MED1200-0LBLL14" x 19" Overlapping Solid Plastic Cover - Water MeterBlue2162.4020MED1200-0LBLL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover - Water MeterBlack21612.2020MED1200-0LRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover - Water MeterBlue2162.4020MED1200-0LCRLD14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover - Water MeterBlue2162.4020MED1200-0LCIR LD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2163.8020MED1200-0LCIRSS12" Overlapping Cover with Cast Iron Meter ReaderBlack/Black7210.3320MED1200-0LCIRSS12" Overlapping Cover with Cast Iron Meter ReaderBlack726.8020MED1200-BI/O14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-DUB/O14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-BI/O14" x 19" x 12" Standard BoxGreen726.8020ME	D1200-CICIR LD		Black	216	2.40	20ME
D1200-OLLOCBLD14" x 19" Overlapping Locking Solid Plastic Cover – Water MeterBlack1002.6020MED1200-OLBLL14" x 19" Overlapping Solid Plastic Cover – Water MeterBlue2162.4020MED1200-CIL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover – Water MeterBlack21612.2020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlue2162.4020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover – Water MeterBlue2162.4020MED1200-OLCIR LD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover – Water MeterBlack2163.8020MED1200-OLCIR SS12" Overlapping Cover with Cast Iron Meter ReaderBlack/Black7210.3320MED1200-OLCIRS D14" x 19" x 12" Standard BoxBlack726.8020MED1200-DUB/O14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-BLO14" x 19" x 12" Standard BoxGreen726.8020ME	D1200-OLSBL	14" x 19" Overlapping Solid Plastic Cover – Water Meter	Black	216	2.40	20ME
D1200-OLLOCELDWater MeterWater MeterD1200-OL <td>D1200-0LSGL</td> <td>12" Overlapping Cover with Solid Plastic Meter Reader</td> <td>Green</td> <td>216</td> <td>2.40</td> <td>20ME</td>	D1200-0LSGL	12" Overlapping Cover with Solid Plastic Meter Reader	Green	216	2.40	20ME
D1200-CIL14" x 19" Overlapping Meter Reader Solid Cast Iron Cover - Water MeterBlack21612.2020MED1200-OLRBLUL14" x 19" Overlapping Meter Reader Plastic with Plastic Reader Cover - Water MeterBlue2162.4020MED1200-OLCIR LD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2163.8020MED1200-OLCIR LD12" Overlapping Cover with Cast Iron Meter ReaderBlack2163.8020MED1200-OLCIRSS12" Overlapping Cover with Cast Iron Meter ReaderBlack /Black7210.3320MEB1200-OLCIRSS14" x 19" x 12" Standard BoxBlack726.8020MED1200-DUB/O14" x 19" x 12" Standard BoxBlack726.8020MED1200-B/O14" x 19" x 12" Standard BoxBlack726.8020MED1200-B/O14" x 19" x 12" Standard BoxBlack726.8020ME	D1200-OLLOCBLD		Black	100	2.60	20ME
D1200-CILWater MeterConstraint of the constraint o	D1200-0LBLL	14" x 19" Overlapping Solid Plastic Cover – Water Meter	Blue	216	2.40	20ME
D1200-OLRBLDLReader Cover - Water MeterBide2162.4020MED1200-OLCIR LD14" x 19" Overlapping Meter Reader Plastic with Cast Iron Reader Cover - Water MeterBlack2163.8020MED1200-OLCIRSS12" Overlapping Cover with Cast Iron Meter ReaderBlack/Black7210.3320MEBox Only500 Only500 Only500 Only500 Only500 Only500 Only500 OnlyD1200-DUB/O14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-BJO14" x 19" x 12" Standard Dual Pipe Slot BoxBlack726.8020MED1200-BJO14" x 19" x 12" Standard BoxGreen726.8020ME	D1200-CIL		Black	216	12.20	20ME
D1200-OLCIR LD Reader Cover – Water Meter Black 216 3.80 20ME D1200-OLCIRSS 12" Overlapping Cover with Cast Iron Meter Reader Black/Black 72 10.33 20ME Box Only 500 14" x 19" x 12" Standard Box Black 72 6.80 20ME D1200-DUB/O 14" x 19" x 12" Standard Dual Pipe Slot Box Black 72 6.80 20ME D1200-BJO 14" x 19" x 12" Standard Dual Pipe Slot Box Black 72 6.80 20ME D1200-BJO 14" x 19" x 12" Standard Box Green 72 6.80 20ME	D1200-OLRBLUL		Blue	216	2.40	20ME
Box Only Black 72 6.80 20ME D1200-B/O 14" x 19" x 12" Standard Box Black 72 6.80 20ME D1200-DUB/O 14" x 19" x 12" Standard Dual Pipe Slot Box Black 72 6.80 20ME D1200G-B/O 14" x 19" x 12" Standard Box Green 72 6.80 20ME	D1200-OLCIR LD		Black	216	3.80	20ME
D1200-B/O 14" x 19" x 12" Standard Box Black 72 6.80 20ME D1200-DUB/O 14" x 19" x 12" Standard Dual Pipe Slot Box Black 72 6.80 20ME D1200-B/O 14" x 19" x 12" Standard Box Green 72 6.80 20ME	D1200-OLCIRSS	12" Overlapping Cover with Cast Iron Meter Reader	Black/Black	72	10.33	20ME
D1200-DUB/O 14" x 19" x 12" Standard Dual Pipe Slot Box Black 72 6.80 20ME D1200G-B/O 14" x 19" x 12" Standard Box Green 72 6.80 20ME	Box Only					
D1200G-B/O 14" x 19" x 12" Standard Box Green 72 6.80 20ME	D1200-B/0	14" x 19" x 12" Standard Box	Black	72	6.80	20ME
	D1200-DUB/0	14" x 19" x 12" Standard Dual Pipe Slot Box	Black	72	6.80	20ME
D600E-EXT 14" x 19" x 6" Extension Only Black 42 4.20 20ME	D1200G-B/0	14" x 19" x 12" Standard Box	Green	72	6.80	20ME
	D600E-EXT	14" x 19" x 6" Extension Only	Black	42	4.20	20ME

NDS D1500 Meter Boxes

Specifications: NDS 13" x 20" meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.187". The cover seat area has 30 structural support ribs on the underside of the seat, each with a minimum thickness of 1/50". The bottom of the body has a 1" flange. The 13" x 20" cover has an average thickness of 0.250".

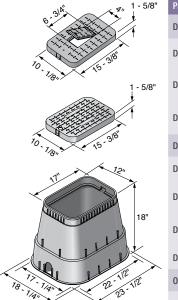


Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
Drop-in Box & Cover					
D1500-DISB	13" x 20" x 12" Jumbo Box, Drop-in Solid Plastic Cover – Water Meter	Black/Black	48	13.20	20ME
D1500-DUDISB	13" x 20" x 12" Dual Pipe Slot Jumbo Box, Drop-in Solid Plastic Cover – Water Meter	Black/Black	48	13.49	20ME
D1500-DIRB	13" x 20" x 12" Jumbo Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover – Water Meter	Black/Black	48	13.20	20ME
D1500-DUDIRB	13" x 20" x 12" Dual Pipe Slot Jumbo Box, Drop-in Meter Reader Plastic with Plastic Reader Cover – Water Meter	Black/Black	48	13.49	20ME
D1500-DICIR	13" x 20" x 12" Jumbo Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover – Water Meter	Black/Black	48	14.40	20ME
D1500-DUDICIR	13" x 20" x 12" Dual Pipe Slot Jumbo Box, Drop-in Meter Reader Plastic with Cast Iron Reader Cover – Water Meter	Black/Black	48	13.20	20ME
D1500P-DU-DICP	13" x 20" x 12" Dual Pipe Slot Jumbo Box, Drop-in Meter Reader Plastic with Cast Iron Reader Cover – Water Meter	Purple/Purple	48	14.60	20ME
D1500-DIRBLU	13" x 20" Drop-in Plastic Cover with Plastic Meter Reader – Water Meter	Blue/Blue	48	11.60	20ME
Overlapping Box & Cov	/er				
D1500-0LSB	13" x 20" x 12" Jumbo Box, Overlapping Solid Plastic Cover – Water Meter	Black/Black	48	13.20	20ME
D1500-0LRB	13" x 20" x 12" Jumbo Box, Overlapping Meter Reader Plastic w/ Plastic Reader Cover – Water Meter	Black/Black	48	13.20	20ME
Drop-in Cover Only					
D1500-DISBL	13" x 20" Drop-in Solid Plastic Cover – Water Meter	Black	96	3.80	20ME
D1500-DIRBL	13" x 20" Drop-in Meter Reader Plastic with Plastic Reader Cover – Water Meter	Black	96	3.80	20ME
D1500-DICIR LD	13" x 20" Drop-in Meter Reader Plastic with Cast Iron Reader Cover – Water Meter	Black	96	5.00	20ME
Overlapping Cover Onl	у				
D1500-OLSBL	13" x 20" Jumbo Overlapping Solid Plastic Cover – Water Meter	Black	96	3.80	20ME
D1500-OLRBL	13" x 20" Overlapping Plastic Cover with Plastic Meter Reader – Water Meter	Black	96	3.80	20ME
D1500-OLSGL	13" x 20" Overlapping Plastic Cover with Plastic Meter Reader – Water Meter	Green	96	3.80	20ME
Box Only					
D1500-B/0	13" x 20" x 12" Jumbo Box	Black	48	9.40	20ME
D1500-DUB/0	13" x 20" x 12" Dual Pipe Slot Jumbo Box	Black	48	8.91	20ME
D750E-EXT	13" x 20" x 6" Extension Only	Black	36	5.60	20ME
D1500-DICIRBLU	13" x 20" Drop-in Meter Reader Cover, Blue Plastic with Cast Iron Reader Cover – Water Meter	Blue	96	5.00	20ME



NDS D1800 Meter Boxes

Specifications: NDS 14" x 19" x 18" meter boxes and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 14" x 19" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.22". The cover seat area has 26 structural support ribs on the underside of the seat, each with a minimum thickness of 0.12". The bottom of the body has a 0.50" flange. The 14" x 19" cover has an average thickness of 0.20".



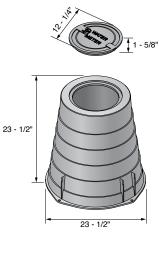
Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
Drop-in Box & Cover					
D1800-DISB	14" x 19" x 18" Box, Drop-in Solid Plastic Cover - Water Meter	Black/Black	48	12.20	20ME
D1800-DIRB	14" x 19" x 18" Box, Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	48	12.20	20ME
D1800-DICIR	14" x 19" x 18" Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	48	13.40	20ME
Drop-in Cover Only					
D1200-DISBL	14" x 19" Drop-in Box Solid Plastic Cover - Water Meter	Black	216	2.20	20ME
D1200-DIRBL	14" x 19" Drop-in Meter Reader w/ Plastic Reader Cover - Water Meter	Black	216	2.20	20ME
D1200-DICIRLID	14" x 19" Drop-in Meter Reader w/ Cast Iron Reader Cover - Water Meter	Black	216	3.40	20ME
D1200-DISBSWRL	14" x 19" Drop-in Solid Plastic Cover - Sewer	Black	216	2.20	20ME
Overlapping Cover Only	y .				
D1800-OLSG	14" x 19" Overlapping Cover - ICV	Black/Green	48	12.40	20ME
Box Only					
D1800-B/0	14" x 19" x 18" Box	Black	48	10.00	20ME
D1800-B/0 NH	14" x 19" x 18" Box, No Pipe Slots	Black	48	10.00	20ME
D1800-B/0 WHT	14" x 19" Box	White	48	10.00	20ME

3" x 4" Pipe Slot

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NDS D2400 Meter Boxes

Specifications: NDS 16" round meter pits and covers are injection molded of structural foam recycled polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 16" round meter pit body is tapered and has a minimum wall thickness of 0.2615". The body has a double wall at the top cover seat area with a minimum thickness of 0.2780". The cover seat area has 8 structural support ribs on the underside of the seat, each with a minimum thickness of 0.0995". The bottom of the body has a 1/2" flange which flares to 1-1/4" at bolt hole. The 12-3/8" cover has an average thickness of 0.375".



Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
Box & Cover					
D2400-18L0CSB	18" Meter Pit, Overlapping Locking Solid Plastic Cover - Water Meter	Black/Black	52	11.40	20ME
D2400-LOCSB	24" Meter Pit, Overlapping Locking Solid Plastic Cover - Water Meter	Black/Black	52	17.53	20ME
Cover Only					
D2400-LOCSWBL	Overlapping Locking Solid Plastic Cover - Water Meter	Black	52	1.60	20ME
Box Only					
D2400-18 B/0	18" Meter Pit	Black	52	9.80	20ME
D2400-B/0	24" Meter Box	Black	52	14.00	20ME

NDS Replacement Parts

Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
DKEY	Brass Locking Key	Brass	1	0.50	20ME

9'

10 - 1/2"

NDS PRO SERIES METER BOXES - PREMIUM COMMERCIAL GRADE

NDS 6" Round Meter Boxes

Specifications: The NDS 6" round meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 6" round body is tapered and has a minimum wall thickness of 0.20". The body has a double wall at the top cover seat area with a minimum thickness of 0.13". The bottom of the body has a 0.250" flange. The 6" round cover has an average thickness of 0.187".

6 - 1/2"	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
	Box & Cover					
. 6 - 1/2" .	107BCW	6" Round Box, Overlapping Solid Plastic Cover - Water Meter	Black/Green	250	1.50	20NM
	107BCR	6" Round Box, Overlapping Solid Plastic Cover - Reclaimed Water	Black/Purple	250	1.50	20ND
	107PBCR	6" Round Box, Overlapping Solid Plastic Cover - Reclaimed Water	Purple/Purple	250	1.50	20ND
	107BCS	6" Round Box, Overlapping Solid Plastic Cover - Sewer	Black/Green	250	1.50	20NM
	208BCS	6" Round Box, Round Overlapping Solid Plastic Cover - Sewer	Green/Green	250	1.50	20PR
	Cover Only					
	107CW	6" Overlapping Solid Plastic Cover - Water Meter	Green	800	0.40	20NM
	107CR	6" Overlapping Solid Plastic Cover - Reclaimed Water	Purple	800	0.40	20ND
7 - 5/8"	107CS	6" Overlapping Solid Plastic Cover - Sewer	Green	800	0.40	20NM
8 - 3/8"	Box Only					
3/4" x 2-3/8" Pipe Slot	107B	6" Round Box	Black	250	1.23	20ND

NDS 10" Round Meter Boxes

Specifications: The NDS 10" round meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 10" round body is tapered and has a minimum wall thickness of 0.30". The cover seat area has 8 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.50" flange. The 10" round cover has an average thickness of 0.30". The meter box has a 3/8" 304 Brass nut for the bolt-down as a standard feature.

No.	Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class
	Box & Cover			wey	1501	
	211PBCR	10" Round Box, Overlapping Reclaimed Solid Plastic Cover - Water Meter	Purple/Purple	120	4.50	20PR
9 - 1/8"	111BCS	10" Round Box, Overlapping Solid Plastic Cover - Sewer	Black/Green	180	3.00	20NM
9 - 3/4"	212BCS	10" Round Box, Round Overlapping Solid Plastic Cover - Sewer	Green/Green	120	4.50	20PR
	212BCBS	10" Round Box, Round Overlapping Bolt-Down Solid Plastic Cover - Sewer	Green/Green	120	4.50	20PR
The states	212BC ELEC	10" Round Box, Overlapping Solid Plastic Cover - Electrical	Gray/Gray	120	4.50	20PR
	212BCB ELEC	10" Round Box, Overlapping Bolt-Down Solid Plastic Cover - Electrical**	Gray/Gray	120	4.50	20PR
	Cover Only					
	211CW	10" Overlapping Water Solid Plastic Cover - Water Meter	Black	200	1.34	20PR
	211CR	10" Overlapping Reclaimed Solid Plastic Cover - Water Meter	Purple	200	1.50	20PR
	111CS	10" Round Overlapping Solid Plastic Cover - Sewer	Green	300	1.00	20NM
11 - 5/8"	211CRG	10" Round Overlapping Solid Plastic Cover - Reclaimed Water	Green	200	1.34	20PR
13"	211CS	10" Round Overlapping Solid Plastic Cover - Sewer	Green	200	1.50	20PR
2-1/2" x 2-3/4" Pipe Slot	211C ELEC	10" Overlapping Solid Plastic Cover - Electrical	Gray	200	1.50	20PR
	Box Only					
	212B	10" Round Box	Green	120	3.00	20PR
	211BB	Bolt for 10" Cover	Steel	(Bag of 10)	0.05	20PR

**Note – Installer responsible for ensuring product meets local building/electrical code requirements.

NDS PRO SERIES METER BOXES – PREMIUM COMMERCIAL GRADE

NDS 14" x 19" Meter Boxes

Specifications: The NDS 14" x 19" meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 14" x 19" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The cover seat area has 16 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 0.50" flange. The 12" x 20" cover shall have an average thickness of 0.250". The meter box has a 3/8" 304 Brass nut for the bolt-down as a standard feature.



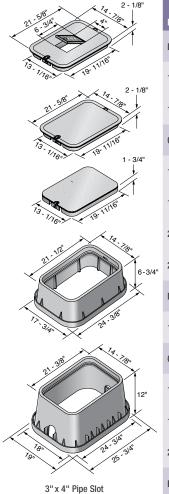
**Note – Installer responsible for ensuring product meets local building/electrical code requirements.



NDS PRO SERIES METER BOXES - PREMIUM COMMERCIAL GRADE

NDS 13" x 20" Meter Boxes

Specifications: The NDS 13" x 20" meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 13" x 20" body is tapered and has a minimum wall thickness of 0.250". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The cover seat area has 16 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The body has a 0.50" flange. The 13" x 20" cover has an average thickness of 0.250". The meter box has a 3/8" 304 Brass nut for the bolt-down as a standard feature.

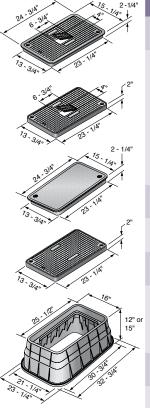


Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class				
Drop-in Box & Cover									
117BCDW	13" x 20" x 12" Box, Drop-in Solid Plastic Cover - Water	Black/Black	56	13.25	20NM				
117DBCDMCIF	13" x 20" x 12" Dual Outlet Box, Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	56	14.50	20NM				
Overlapping Box & Cover									
117BCS	13" x 20" x 12" Box, Overlapping Solid Plastic Cover - Sewer	Black/Green	56	14.00	20NM				
117B12CW	13" x 20" x 12" Valve Box with Overlapping Cover - Water	Black	56	14.00	20NM				
217PBCR	13" x 20" Jumbo Box, Overlapping Solid Plastic Cover - Reclaimed Water	Purple	56	13.69	20PR				
218BCS	13" x 20" Jumbo Box, Overlapping Solid Plastic Cover - Sewer	Green/Green	56	14.00	20PR				
Drop-in Cover Only									
117CDMCIF	13" x 20" Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	180	7.50	20NM				
Overlapping Cover (Inly								
117CW	13" x 20" Overlapping Solid Plastic Cover - Water Meter	Black	180	5.00	20NM				
117CS	13" x 20" Overlapping Solid Plastic Cover - Sewer	Green	180	5.00	20NM				
217CR	13" x 20" Jumbo Overlapping Solid Plastic Cover - Reclaimed Water	Purple	180	4.51	20PR				
Box Only									
117B	13" x 20" x 12" Box, Single Inlet, Single Outlet	Black	56	8.14	20NM				
117-6	13" x 20" Jumbo Extension	Black	32	6.88	20ND				
113BB	2-1/2" x 3/8" SS Bolt	Steel	(Bag of 10)	0.10	20NM				

NDS PRO SERIES METER BOXES - PREMIUM COMMERCIAL GRADE

NDS 13" x 24" Meter Boxes

Specifications: The NDS 13" x 24" meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 13" x 24" body is tapered and has a minimum wall thickness of 0.27". The body has a double wall at the top cover seat area with a minimum thickness of 0.27". The body has a double wall at the top cover seat area with a minimum thickness of 0.27". The body has a double wall at the top cover seat area with a minimum thickness of 0.27". The body has a double wall at the top cover seat area with a minimum thickness of 0.27". The body has a double wall at the top cover seat area with a minimum thickness of 0.250". The bottom of the body has a 1" flange. The 13" x 24" cover has an average thickness of 0.32". The meter box has a 3/8" 304 Brass nut for the bolt-down as a standard feature.



Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class				
Drop-in Box & Cover									
121BCDWB	13" x 24" x 12" Box, Bolt-Down Drop-in Solid Plastic Cover - Water Meter	Black/Black	12	22.78	20NM				
121BCDMCIFB	13" x 24" x 15" Box, Bolt-Down Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	12	23.13	20NM				
125BCDMCIFB	13" x 24" x 12" Box, Bolt-Down Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	12	26.13	20NM				
	**Note – Installer responsible for ensuring product meets local building/electrical code requirements. Insulate bolt with 1/2" x 2-3/4" heat shrink tube and/or a ground rod clamp (such as Thomas & Betts Part Number 63) to reduce the chance of electrical shock.								
Overlapping Box & Cover									
125PBCRB	13" x 24" x 15" Box, Bolt-Down Overlapping Solid Plastic Cover - Reclaimed Water	Purple/Purple	12	26.44	20ND				
Drop-in Cover Only									
121CDM	13" x 24" Drop-in Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black	125	5.81	20NM				
121CDMCIF	13" x 24" Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	125	7.13	20NM				
Box Only									
125B	13" x 24" x 15" Box	Black	12	19.00	20NM				

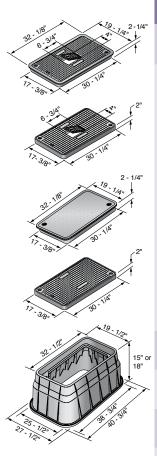
**Note – Installer responsible for ensuring product meets local building/electrical code requirements.



NDS PRO SERIES METER BOXES - PREMIUM COMMERCIAL GRADE

NDS 17" x 30" Meter Boxes

Specifications: The NDS 17" x 30" meter boxes and covers are injection molded of structural foam polyolefin material with a melt index between 10-12. Coloring and UV stabilizers are added, along with processing lubricants when needed. The 17" x 30" body is tapered and has a minimum wall thickness of 0.32". The body has a double wall at the top cover seat area with a minimum thickness of 0.32". The cover seat area has 20 structural support ribs on the underside of the seat, each with a minimum thickness of 0.250". The bottom of the body has a 1" flange. The 17" x 30" cover has an average thickness of 0.35". The meter box has a 3/8" 304 SS Brass for the bolt-down as a standard feature.



Part No.	Description - Marking	Color (Box/Cover)	Pallet Qty.	Wt. Ea. Ibs.	Product Class				
Drop-in Box & Cover									
124BCDWB	17" x 30" x 15" Box, Bolt-Down Drop-in Solid Plastic Cover - Water Meter	Black/Black	12	34.70	20NM				
126BCDWB	17" x 30" x 18" Box, Bolt-Down Drop-in Solid Plastic Cover - Water Meter	Black/Black	10	37.65	20NM				
126BCDMB	17" x 30" x 18" Box, Bolt-Down Drop-in Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	10	41.00	20NM				
124BCDMCIFB	17" x 30" x 15" Box, Bolt-Down Drop-in Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	12	33.70	20NM				
126BCDMCIFB	17" x 30" x 18" Box, Bolt-Down Drop-in Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	10	37.65	20NM				
226BCDB ELEC	17" x 30" x 18" Box, Bolt-Down Drop-in Solid Plastic Cover - Electric**	Gray/Gray	10	37.05	20PR				
Overlapping Cover Only									
223CR	17" x 30" Overlapping Solid Plastic Cover - Reclaimed Water	Purple	75	11.60	20ND				
Drop-in Cover Only									
123CDMCIF	17" x 30" Drop In Cover with Cast Iron Meter Reader	Black	75	10.30	20NM				
123CDW	17" x 30" Drop in Cover - Water	Black	75	1.50	20NM				
Box Only									
124B	17" x 30" x 15" Box	Black	12	20.00	20NM				
126B	17" x 30" x 18" Box	Black	10	23.80	20NM				

**Note – Installer responsible for ensuring product meets local building/electrical code requirements.

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Terms: Standard terms are NET 30 days. All invoices are to be paid in US Currency. Title and risk of loss pass to buyer upon shipment.

Freight Allowance: Freight prepaid on orders of \$1250.00 NET or more, with the exception of shipments to HI, Canada, AK, and PR Prepaid freight levels are based on shipments to one location only. It is the responsibility of the customer to determine if his purchase order meets the minimum freight allowance required. NDS reserves the right to select the carrier and point of shipment.

Canada, Hawaii, Puerto Rico & Alaska orders that include EZflow must be a minimum of \$4000 for prepaid freight Terms.

Canada, Puerto Rico & Alaska: Freight prepaid on orders of \$2500.00 (US\$) NET or more.

Hawaii Orders: Freight prepaid on orders of \$3500 NET or more.

Errors & Claims: All claims for shortage in shipment or damaged material must be noted on the "Bill of Lading" and a written request for credit submitted to NDS within 15 days of shipment. NDS responsibility ceases upon delivery to the carrier.

Returned Goods: Returned goods will be accepted only after written approval and shipping instructions are received from NDS. A return goods authorization number is required and must be on all cartons, documents, and correspondence. All returns are subject to a 25% restocking charge, freight cost of returned goods (plus "out freight if applicable"). A higher restocking charge may be assessed against any return requiring extraordinary handling costs.

Minimum Order: \$100.00 minimum order net billing.

Broken Box Charge: A 25% broken box charge will be added for other than full box quantities. 21DI Drip Components, 25DS Dura Slope Channel and 25FC Filcoten Channel are excluded from this policy.

Limited One Year Warranty: The liabilities of NDS are limited solely and exclusively to replacement as set forth in our standard "Statement of Warranty", alone and do not include any liability for incidental, consequential or other damage of any kind whatsoever, whether any claim is based upon theories of contract, warranty, negligence or tort and without any limitations and do not include shipping charges, labor, installation or any other losses or expenses incurred in operation of any replacement specialty item or fitting. NDS drainage products are designed to be used for exterior surface drainage only.

Limited Lifetime Warranty: NDS warrants to the original owner of its NDS catch basins, grates, channel and Pro Series valve boxes, subject to the conditions set forth in this warranty, that NDS catch basins, grates, channel and Pro Series valve boxes will remain free from manufacturing defects.

All NDS products are guaranteed against defects resulting from faulty workmanship or materials. Claims for labor costs and other expenses required to replace defective products or repair of any damage resulting from the use thereof will not be allowed by NDS. Our liability is limited to replacement of products acknowledged by NDS to be defective.

Exclusive Warranties and Remedies: The foregoing remedies are exclusive and are given and accepted in lieu of (I) any and all other warranties, expressED or implied, including without limitation the implied warranties of merchantability and fitness for particular purpose; and (ii) any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from NDS, Inc.'s negligence, actual or imputed. The remedies of customer shall be limited to those provided herein to the exclusion of any and all other remedies including, without limitation, incidental or consequential damages. No agreement varying or extending the foregoing warranties or these limitations will be binding on NDS, Inc., unless such is signed in writing by an authorized officer of NDS, Inc.

The liability of NDS, Inc., hereunder shall be limited to restoring to good working order, provided that NDS, Inc., is not required to restore the product to good working order when such failure is due to causes beyond NDS, Inc.'s control, including but not limited to, acts of God, acts of civil or military authority, priorities, strikes, floods, epidemics, war, riots, and other causes that are beyond the manufacturers control.

These provisions are complete and exclusive statements of all terms and conditions between NDS, Inc., and the consumer. These provisions may not be varied, supplemented, qualified or interpreted by any prior course of dealings, written or oral or by trade usage. No NDS, Inc. agent, officer or employee has authority to make any representation, promise or warranty concerning these provisions.

FOR TECHNICAL INFORMATION, CONTACT: Technical Services, (888) 825-4716, TechService@ndspro.com

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Product Catalog 2021



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California Prop 65 Warning To meet the requirements of California Proposition 65, it is our responsibility to inform you of the following:

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