



NDS[®]
We put water in its place

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](https://www.ndspro.com)

MADE IN
USA

PROFESSIONAL IRRIGATION

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 (lbs.)	Product Class
A 675CT	Battery Hose Bib Timer	Blue	1/10	1.25	21DI

Universal Conversion Kit & Cap Off

Patented



Part No.	Description	Color	Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class
FR2 17-710	Spray-to-Drip Conversion Kit 17mm-.710	Black	1	–	21DI
CAP POP/5	Universal Cap-Off	Black	5	–	21DI
CAP POP/25	Universal Cap-Off	Black	25	–	21DI

Pressure-Regulating Wye Filter



Part No.	Description	Color	Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class
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



Part No.	Description	Bag Qty./Box Qty.	Wt. Each (lbs.)	Product Class
CZK 100-30	1" Control Zone Kit with 30 PSI Pressure Regulating Filter	1/10	1.26	21DI
CZK 100-30F	1" Control Zone Kit with 30 PSI Pressure Regulating Filter and Flow Control	1/10	1.30	21DI
CZK 100-40	1" Control Zone Kit with 40 PSI Pressure Regulating Filter	1/10	1.26	21DI
CZK 100-40F	1" Control Zone Kit with 40 PSI Pressure Regulating Filter and Flow Control	1/10	1.30	21DI
CZK 100-40VB1	1" Control Zone Kit with 40 PSI Pressure Regulating Filter in 10"x15" Green Valve Box	1/25	5.35	21DI

Drip Zone Kit

Part No.	Description	Bag Qty./Box Qty.	Wt. per 100 (lbs.)	Product Class
DZK 700/710	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



Features	Benefits
All parts in one kit	No need to purchase or source additional parts
Easy installation	Saves time
Fits .680" – .710" OD PE Tubing	One kit used for a wide range of PE tubing, saving the need to have additional products
3/4" or 1" Inlet	Easily installed on 3/4" or 1" discharges
150 Mesh Filter	Prevents debris entering drip system
30 PSI Regulator	Will operate a wide range of micro products

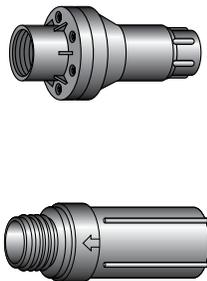
POINT OF CONNECTION

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 O-Ring for YS Filter Element	Black	10/100	.01	21DI

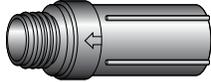
Pressure Regulators



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

POINT OF CONNECTION

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" Filter 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

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Swing Pipe Fittings



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

Use with Flexee or Super Flexee pipe. (See page 137)
Swing Riser Assemblies available. (See page 106)

POINT OF CONNECTION

Swing Joints

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PVC Sch. 80
Swing Assembly
GRAY



PVC Sch. 40
Swing Assembly
WHITE



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	PVC Rated @ 315 PSI @ 72°F
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	
TSA-1000-BB	1" (BSP x BSP)	Gray	25	42TS	
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	PVC Rated @ 315 PSI @ 72°F
WSA-0750-TT	3/4" (T x T)	White	50	42TS	
WSA-1000-TT	1" (T x T)	White	25	42TS	
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 Swing Joints					
TSE-0500-6	1/2" x 6" MIPT x MIPT	Black	100	42TS	Rated @ 70 PSI @ 72°F
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	
TSE-0507-12	1/2" x 3/4" x 12" MIPT x MIPT	Black	50	42TS	
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 Additional Inlet Elbow

POINT OF CONNECTION

Landscape Sprinkler Products

	Part No.	Description	Ctn. Qty.	Product Class	Specifications
Cutoff Risers 	Cut-Off Risers				
	FCO-0500	1/2" x 6" Flex Cut-Off	50	42LS	Rated @ 70 PSI @ 72°F
	FCO-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Flex-Cutoff	500	42LS	
	MCO-0500	1/2" x 6" MIPT x MIPT Multi-Cutoff	500	42LS	
	MCO-0500-12	1/2" x 12" MIPT x MIPT Multi-Cutoff	250	42LS	
	MCO-0750	3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS	
	MCO-0750-R	1/2" x 3/4" x 6" MIPT x MIPT Multi-Cutoff	500	42LS	
Flex Risers 	Flex Risers				
	FR-0500-4	1/2" x 4" MIPT x MIPT Flex Riser	100	42LS	Rated @ 70 PSI @ 72°F
	FR-0500-4F	1/2" x 4" MPT x FPT Flex Riser	100	42LS	
	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	
	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 Extension				
	CRE-0500-3	1/2" x 3" FIPT x MIPT Cutoff Riser Extension	200	42LS	Rated @ 70 PSI @ 72°F
CRE-0750-4	3/4" x 4" FIPT x MIPT Cutoff Riser Extension	200	42LS		
Street Elbows 	Street Elbows				
	STL-0500	1/2" 90° FIPT x MIPT Street Elbow	1600	42LS	Rated @ 70 PSI @ 72°F
STL-0750	3/4" 90° FIPT x MIPT Street Elbow	1000	42LS		
Swing Pipe Fittings 	Swing Pipe Fittings				
	FPA-0500	Swing Pipe Adapter .490BARB x 1/2"	50	42LS	
	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	
	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

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Backwater Valves



See list of products on pages 178-179.

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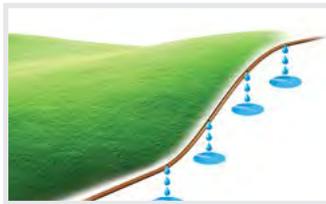
- Reduces water use by 30% or more compared to overhead irrigation
- Complies with new water conservation legislation
- Highly efficient solution for landscape plantings & turfgrass
- Chemical-free root intrusion protection
- Longest run lengths in the industry
- Comprehensive offering from NDS Pressure 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

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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

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17MM Dura Flo™ CV

Shrink Wrapped Packaging



0.660" OD
Inline Check Valve

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
SFCV-BR-6212-01S	0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
SFCV-BR-6212-025S	0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
SFCV-BR-6212-05S	0.6 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
SFCV-BR-6412-01S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
SFCV-BR-6412-025S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
SFCV-BR-6412-05S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 12" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
SFCV-BR-6418-01S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 18" spacing	Brown	100'/ Wrapped Coil	3.3	21DF
SFCV-BR-6418-025S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 18" spacing	Brown	250'/ Wrapped Coil	3.3	21DF
SFCV-BR-6418-05S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 18" spacing	Brown	500'/ Wrapped Coil	3.3	21DF
SFCV-BR-6424-05S	0.9 gph, 17mm Dura Flo™ Inline Check Valve Dripline (0.560" ID x 0.660" OD), 24" spacing	Brown	500'/ Wrapped Coil	3.3	21DF

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

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

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17MM Dura Flo™ PC

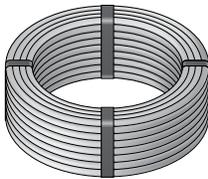
Shrink Wrapped
Packaging



PROFESSIONAL IRRIGATION



0.660" OD
Pressure Compensative



0.660" OD
Pressure Compensative

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" OD), 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" OD), 18" spacing	Brown	250'/ Wrapped Coil	3.9	21DF
SFPC-BR-17218-05S	1/2 gph, 17mm Dura Flo™ Pressure Compensating Dripline (0.560" ID x 0.660" OD), 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
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
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

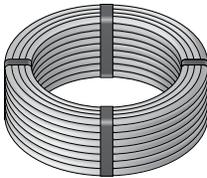
Note: 1,000' Coils are Available Made to Order.

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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

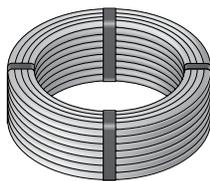
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18MM Dura Flo™ PC



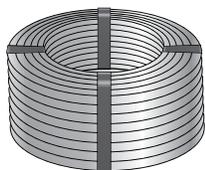
0.700" OD
Pressure Compensative



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 Flo™ 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" OD), 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" OD), 12" spacing	Black	500'/Coil	4.7	21DF
SFPC-BR-7218-05	1/2 gph, 18mm Dura Flo™ 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 Flo™ 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" OD), 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" OD), 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" OD), 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" OD), 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" OD), 18" spacing	Brown	250'/Coil	3.3	21DF

DRIPLINE – TECHNICAL INFORMATION

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

Initial Pressure	12" SPACING			18" SPACING			24" SPACING		
	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'	779'	650'	473'	947'	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 Dripplerline	DS 20			1.7 gph	1.9 gph	2.0 gph	2.2 gph	2.5 gph	2.1 gph
	DS 30			3.0 gph	3.3 gph	3.6 gph	3.6 gph	3.6 gph	3.0 gph
Dura Flo™ PC Dripplerline	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	
	SFPC-XX-68XX-XX	1.40 gph	1.60 gph	1.65 gph					
	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					
Dura Flo™ Dripplerline	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	
	SF-XX-62XX-XX	0.36 gph	0.40 gph	0.51 gph	0.60 gph	0.68 gph	0.78 gph		
	SF-XX-64XX-XX	0.63 gph	0.78 gph	0.92 gph	1.08 gph	1.21 gph	1.41 gph		
Mini Flo™ Emitter	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		
	SF-XX-74XX-XX	0.71 gph	0.86 gph	1.01 gph	1.19 gph	1.35 gph	1.56 gph		
Laser Drilled Soaker Hose	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				
	MIL 10	0.86 gph	1.06 gph	1.22 gph	1.36 gph				
	ALT 6/12	1.0 gph	1.30 gph	1.6 gph					

PROFESSIONAL IRRIGATION

Maximum Recommended Length of Run (Feet)

Model	Nominal Flow Rate	Initial Pressure	I.D. of Tubing (inches)									
			.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"	.520"	.600"
			Spacing Between Emitters (inches)									
			18"		24"		36"		48"		60"	
PC Plus™ Emitter	0.5 gph	20 PSI	350'	440'	415'	535'	530'	68'	640'	820'	740'	970'
		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)

Model	Nominal Flow Rate	Initial Pressure	Spacing Between Emitters (inches)																	
			12"			18"			24"			36"			48"			60"		
			Tubing Size																	
.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD	.630" OD	.710" OD	.830" OD
Dura Flo™ Emitter-line	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
	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
Dura Flow PCT™ Emitter-line	0.5 gph	15 PSI	180'	210'	315'	255'	300'	495'	325'	380'	560'	455'	525'	780'	560'	650'	950'	655'	760'	1,090'
		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'
	1.0 gph	15 PSI	130'	155'	215'	185'	220'	315'	240'	280'	380'	330'	380'	540'	410'	475'	660'	480'	555'	755'
		25 PSI	195'	230'	330'	280'	330'	460'	355'	420'	575'	485'	570'	840'	615'	715'	970'	720'	835'	1,080'
		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'
	2.0 gph	15 PSI	85'	100'	150'	125'	145'	200'	155'	180'	250'	215'	245'	350'	260'	305'	430'	300'	355'	495'
		25 PSI	125'	150'	215'	180'	215'	300'	230'	270'	380'	315'	365'	520'	400'	455'	640'	470'	530'	730'
		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'

PROFESSIONAL IRRIGATION

Model	Nominal Flow Rate	Initial Pressure	Spacing Between Emitters (inches)				
			12"	18"	24"	30"	36"
Mini Flo™ Emitter	0.5 gph	20 PSI	20'	25'	30'	35'	40'
	1.0 gph	20 PSI	12'	15'	18'	21'	24'

Model	Nominal Flow Rate	Spacing	Maximum Run	Model	Nominal Flow Rate	Spacing	Maximum Run
Dura Flo™ JR Mini Dripperline	0.5 gph	6"	19 ft.	Laser Drilled Soaker Hose (1/4")	1.0 gph	6"	12 ft.
	0.5 gph	12"	33 ft.		1.0 gph	12"	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

$$\text{Application Rate (inches per hour)} = \frac{231 \times \text{Emitter Flow Rates (gph)}}{\text{Spacing between Poly Laterals (inches)} \times \text{Spacing between Emission Device (inches)}}$$

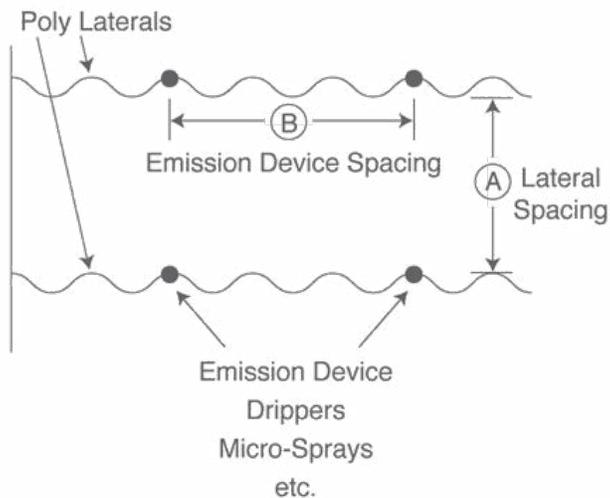
(A)
(B)

Example

Emitter Flow Rate = 1 gph

Spacing between Emission Device = 18"

Spacing between Poly Laterals = 16"



Question

What is the application rate?

Solution

$$\text{Application Rate} = \frac{231 \times 1}{16 \times 18} = 0.80\text{"/hr}$$

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

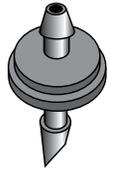
Emitter Spacing	1/2 gph										
	Spacing between Poly Laterals										
	12"	13"	14"	15"	16"	17"	18"	19"	20"	22"	24"
12"	.80	.74	.69	.64	.60	.57	.53	.51	.48	.44	.40
18"	.53	.49	.46	.43	.40	.38	.36	.34	.32	.29	.27
24"	.40	.37	.34	.32	.30	.28	.26	.25	.24	.22	.20

Emitter Spacing	1 gph										
	Spacing between Poly Laterals										
	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

Emitter Spacing	2 gph										
	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

SINGLE-OUTLET DEVICES

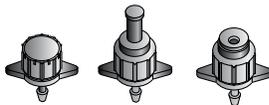
Pressure Compensating



ACCUFLOW™

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

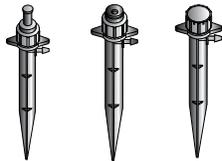
Non-Pressure Compensating



360
180

BUB

FAN



BUB

FAN

360
180

DIAL-A-FLO™

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

SINGLE-OUTLET DEVICES

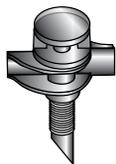
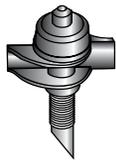
Non-Pressure Compensating (continued)



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

SINGLE-OUTLET DEVICES

RootWise™



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

Non-Pressure Compensating



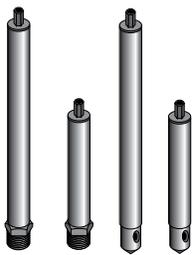
MICRO-FLO™



TRI-FLO™

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
Micro-Flo™					
MFA	0-25 gph, Micro-Flo™ Adjustable Micro-Sprinkler with Shutoff (10-32 NPT Inlet)*	Red	50/300	1.2	21DI
*Uses SAJ Adapter (page 117)					
Tri-Flo™					
TFS 9	3 Flow Tri-Flo™ Spraystick, 90° Pattern	Blue	100/2,000	0.6	21DI
TFS 16	3 Flow Tri-Flo™ Spraystick, 160° Pattern	Green	100/2,000	0.7	21DI
Use with 1/8" tubing A 185 (page 135). Not recommended for vinyl tubing.					

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

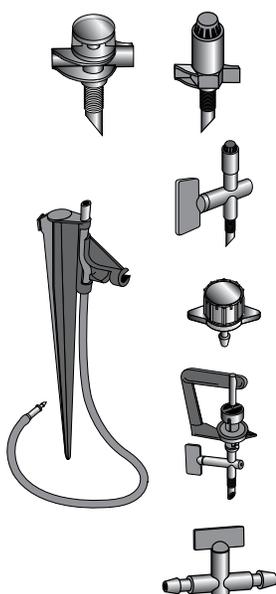
SINGLE-OUTLET DEVICES

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" OD)	Black	100/2,000	1.0	21DI
R 8	8" Riser Extension (0.160" ID x 0.300" OD)	Black	100/1,500	1.4	21DI
R 12	12" Riser Extension (0.160" ID x 0.300" OD)	Black	100/1,000	2.1	21DI
R 18	18" Riser Extension (0.160" ID x 0.300" OD)	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
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



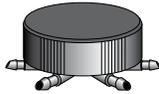
Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
TA 24-1XY	Jet Assembly Comprising 2-Piece Hydro-Flo™ Jet, 24" Vinyl Tubing with Connector and S 12 Stake X=F (For 360°), H (For 180°), Q (For 90°) Y=3 (Black Base), 4 (Blue Base), 5 (Green Base) 6 (Red Base), 7 (White Base)	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™

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

Adjustable Flow Rate Devices



HYDROPORT™

Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
Hydroport™					
HPAM 4	0-20 gph, Adjustable Flow, 1/2" FIPT, 4 Port Outlet Hydroport™ Adjustable Manifold	Black	10/30	30.0	21DI
HPAM 8	0-20 gph, Adjustable Flow, 1/2" FIPT, 8 Port Outlet Hydroport™ Adjustable Manifold	Black	10/30	30.0	21DI

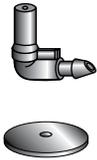
MULTI-OUTLET DEVICES

Bubbler Accessories

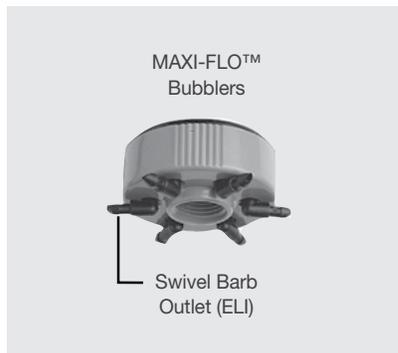


Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
PC 250	Port Cap for Unused Outlets on Maxi-Flo™ (MFBL), Cuatro-Flo™ (CFL)	Black	100/2,500	0.1	21DI
OP 250	Outlet Plug for up to 2 Unused Outlets on Cuatro-Flo™ (CF) Drip Bubbler	Black	100/2,000	0.1	21DI

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

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

Radius (Feet)	Discharge (gph)		
	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

Micro-Flo™
Micro-Sprinkler Model MFA

Radius (Feet)	Discharge (gph)
1 FT.	—
2 FT.	—
3 FT.	4.7 gph
4 FT.	6.6 gph
5 FT.	8.2 gph
6 FT.	9.8 gph
7 FT.	11.3 gph
8 FT.	13.2 gph
9 FT.	14.8 gph
10 FT.	16.4 gph

Dial-a-Flo™ Emitters

Part No.	Pattern
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	
	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	2"	4.8 gph	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	
	Discharge	Radius	Discharge	Radius	Discharge	Radius
0	0 gph	0"	0 gph	0"	0 gph	0"
1	1.8 gph	4"	2.3 gph	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"
5	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"

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

Position	20 PSI		30 PSI		40 PSI	
	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	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"
5	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

Position	20 PSI		30 PSI		40 PSI	
	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	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

Orifice	Initial Pressure	I.D. of Tubing (inches)												
		.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	.600"	.820"	1.040"	
		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 Node	Initial Pressure	I.D. of Tubing (inches)									
			.600"	.820"	.600"	.820"	.600"	.820"	.600"	.820"	.600"	.820"
			Average Spacing Between Spray Sticks (inches)									
			12"		24"		36"		48"		60"	
TFS 9	Low	20 PSI	75'	140'	115'	220'	150'	285'	180'	340'	210'	400'
	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'
TFS 16	Low	20 PSI	55'	105'	85'	160'	110'	205'	135'	250'	155'	290'
	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)

Model	Part No.	15 PSI		20 PSI		25 PSI		30 PSI		40 PSI		45 PSI	
		Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius	Discharge	Radius
Hydro-Flo™ Jet	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'				
	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'					
Micro-Flo™ Micro-Sprinkler	MF 35 (Orange)	6.6 gph	6.0'	7.7 gph	7.0'	8.6 gph	8.0'	9.4 gph	8.0'				
	MF 40 (Blue)	8.6 gph	7.0'	10.0 gph	8.0'	11.3 gph	9.0'	12.4 gph	9.0'				
	MF 50 (Green)	13.6 gph	8.0'	16.0 gph	9.0'	17.9 gph	10.0'	19.7 gph	10.0'				
Tri-Flo™ Spray Stick	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'						
	TFS 9 - High	9.5 gph	3.0'	10.6 gph	3.5'	12.0 gph	4.0'						
	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'	6.3 gph	7.0'

PROFESSIONAL IRRIGATION

Model	Part No.	Pattern	Model	Part No.	Pattern
Hydro-Flo™ Jet	TFC 360		Tri-Flo™ Spray Stick	TFS 9	
	TFC 300			TFS 16	
	TFC 180, TF 318, TF 418, TF 518, TF 618				
	TFC 90, TF 39, TF 49, TF 59, TF 69				
	TF 336, TF 436, TF 536, TF 636				
	TFC 33				

Flushing Characteristics 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

PROFESSIONAL IRRIGATION



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
CMAH 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



FITTINGS & ACCESSORIES

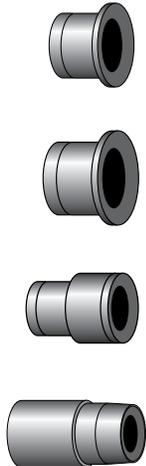
17MM Insert Fittings



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

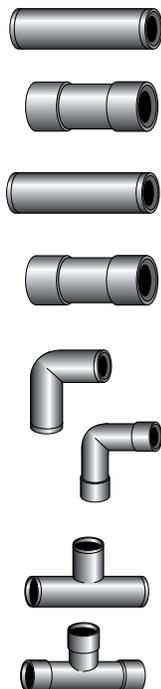
FITTINGS & ACCESSORIES

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 Tubing (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 Tubing (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 Tubing (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 Tubing (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 Tubing (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 Tubing (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 Tubing (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 Tubing (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 Tubing (1/2" Tubing)					

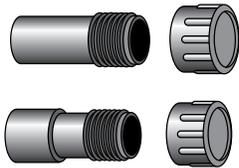
Compression Fittings



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

FITTINGS & ACCESSORIES

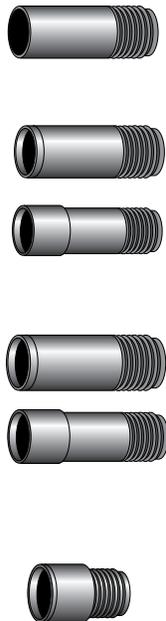
Compression End Caps



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 unscrewing caps.

Compression Male Adapters

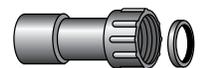
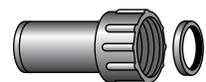
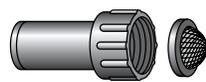


Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
CMAH	3/4" MHT x 1/2" Slip Socket Adapter	Black	50/1,000	1.8	21DI
CMAH 600	3/4" MHT Adapter (Fits .610" to .640" OD Tubing i.e. A 620)	Green	50/1,000	2.3	21DI
CMAH 700	3/4" MHT Adapter (Fits .680" to .704" OD Tubing i.e. A 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

FITTINGS & ACCESSORIES

Compression 3/4" Swivel Fittings

PROFESSIONAL IRRIGATION



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 include 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

FITTINGS & ACCESSORIES

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™ (page 102), Dial-a-Flo™ (page 101), Micro-Flo™ Jets (page 103) (1/2" FIPT x 10-32 NPT)	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

FITTINGS & ACCESSORIES

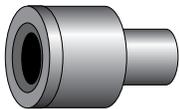
Compression 1/2" Riser Adapters

PROFESSIONAL IRRIGATION



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 filter.					
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 washer.					
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 filter.					
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

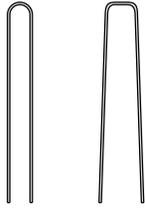
Figure 8 End Enclosures



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

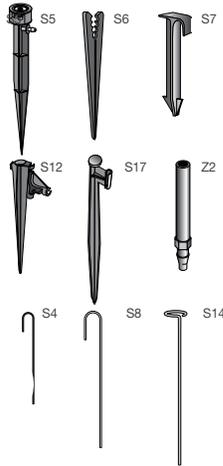
FITTINGS & ACCESSORIES

Sod Staples



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
FW6	6" Sod Staple Flat Top	N/A	N/A/1,000	3.5	21DT
FW6/100	6" Sod Staple Flat Top	N/A	100/N/A	3.5	21DT
FW6/25	6" Sod Staple Flat Top	N/A	25/N/A	3.5	21DT
SW6	6" Sod Staple Round Top	N/A	N/A/1,000	3.4	21DT
SW6/100	6" Sod Staple Round Top	N/A	100/N/A	3.4	21DT
SW6/25	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 NPT 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

Valves



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	Product Class
MV 25	1/4" Flow Controlling Valve (Barb x Barb) (Fits .160" to .170" ID Tubing i.e. A 250)	Black	100/500	0.4	21DI
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	21DI
BV 75	3/4" FHT x 3/4" MHT Ball Valve	Black	25/150	3.8	21DI
FC 500	1/2" Flow Controlling Valve (Fits .455" to .480" OD Tubing i.e. A 455)	Red	25/200	5.8	21DI
FC 600	1/2" Flow Controlling Valve (Fits .610" to .630" OD Tubing i.e. A 620)	Green	25/200	5.6	21DI
FC 700	1/2" Flow Controlling Valve (Fits .680" to .704" OD Tubing i.e. A 700)	Black	25/200	5.4	21DI
FC 710	1/2" Flow Controlling Valve (Fits .704" to .710" OD Tubing i.e. A 710)	Blue	25/200	5.4	21DI
Note: Not to be used as a shutoff valve.					
FC 800	3/4" Flow Controlling Valve (Fits .830" OD Tubing)	Black	25/125	7.6	21DI
FC 900	3/4" Flow Controlling Valve (Fits .940" OD Tubing i.e. A 940)	Grey	25/125	7.5	21DI

FITTINGS & ACCESSORIES

Air/Vacuum Valves



Part No.	Description	Color	Bag Qty./ Box Qty.	Wt. per 100 (lbs.)	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 125PRO	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

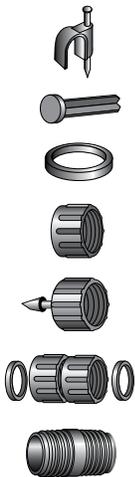


Emitter Access Boxes



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
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
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

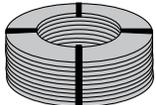
DISTRIBUTION TUBING

Distribution & Supply Tubing

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



Self Coil



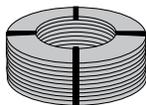
Plastic Hub (1") w/Chipboard Flanges



Sunburst Cardboard Spool



Self Coil



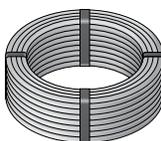
Sunburst cardboard spool



Plastic hub (1") with chipboard flanges



Bucket



Supply Tubing

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
A 185	1/8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	2,000'/Spool	0.6	21DT
A 185/500	1/8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	500'/Spool	0.6	21DT
A 185/1000	1/8" Polyethylene Tubing (0.125" ID x 0.185" OD)	Black	1,000'/Spool	0.6	21DT
A 185V	1/8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	2,000'/Spool	1.0	21DT
A 185V/100	1/8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	100'/Coil	1.0	21DT
A 185V/1000	1/8" Vinyl Tubing (0.125" ID x 0.185" OD)	Black	1,000'/Spool	1.0	21DT
A 220	1/4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	1,500'/Spool	0.7	21DT
A 220/100	1/4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	100'/Coil	0.7	21DT
A 220/500	1/4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	500'/Spool	0.7	21DT
A 220/1000	1/4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	1,000'/Spool	0.7	21DT
A 220/2500	1/4" Polyethylene Tubing (0.160" ID x 0.220" OD)	Black	2,500'/Spool	0.7	21DT
A 220V	1/4" Vinyl Tubing (0.160" ID x 0.220" OD)	Black	1,500'/Spool	1.2	21DT
A 220V/100	1/4" Vinyl Tubing (0.160" ID x 0.220" OD)	Black	100'/Coil	1.2	21DT
A 220V/500	1/4" Vinyl Tubing (0.160" ID x 0.220" OD)	Black	500'/Spool	1.2	21DT
A 220V/1000	1/4" Vinyl Tubing (0.160" ID x 0.220" OD)	Black	1,000'/Spool	1.2	21DT
A 220V/2500	1/4" Vinyl Tubing (0.160" ID x 0.220" OD)	Black	2,500'/Spool	1.2	21DT
A 250	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	1,250'/Spool	1.1	21DT
A 250/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	50'/Coil	1.1	21DT
A 250BR/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Brown	50'/Coil	1.1	21DT
A 250GR/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Green	50'/Coil	1.1	21DT
A 250RD/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Redwood	50'/Coil	1.1	21DT
A 250SD/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Sand	50'/Coil	1.1	21DT
A 250WT/50	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	White	50'/Coil	1.1	21DT
A 250/100	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	100'/Coil	1.1	21DT
A 250BR/100	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Brown	100'/Coil	1.1	21DT
A 250/500	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	500'/Spool	1.1	21DT
A 250/1000	1/4" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	1,000'/Spool	1.1	21DT
A 250/1000B	1/4" 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" Polyethylene Tubing (0.170" ID x 0.250" OD)	Black	2,500'/Spool	1.1	21DT
A 250V	1/4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	1,250'/Spool	1.6	21DT
A 250V/50	1/4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	50'/Coil	1.6	21DT
A 250V/100	1/4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	100'/Coil	1.6	21DT
A 250V/500	1/4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	500'/Spool	1.6	21DT
A 250V/1000	1/4" Vinyl Tubing (0.170" ID x 0.250" OD)	Black	1,000'/Spool	1.6	21DT
A 250V/1000B	1/4" 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" Polyethylene Tubing (0.375" ID x 0.455" OD)	Black	100'/Coil	2.2	21DT
A 455/500	3/8" Polyethylene Tubing (0.375" ID x 0.455" OD)	Black	500'/Coil	2.2	21DT

PROFESSIONAL IRRIGATION

DISTRIBUTION TUBING

Distribution & Supply Tubing

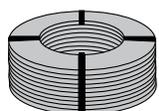
All 17mm Coils in Shrink Wrapped Packaging



PROFESSIONAL IRRIGATION



Self Coil



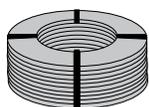
Plastic Hub (1")
w/Chipboard Flanges



Sunburst
Cardboard Spool



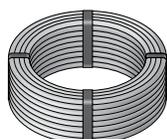
Self Coil



Sunburst Cardboard Spool



Plastic Hub (1")
w/ Chipboard Flanges

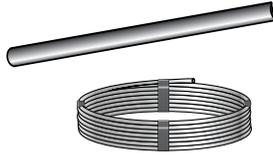


Supply Tubing

Part No.	Description	Color	Coil Size/Type	Wt. per 100' (lbs.)	Product Class
A 620	1/2" Polyethylene Tubing (0.520" ID x 0.620" OD)	Black	1,000'/Coil	3.6	21DT
A 620/100	1/2" Polyethylene Tubing (0.520" ID x 0.620" OD)	Black	100'/Coil	3.6	21DT
A 620BR/100	1/2" Polyethylene Tubing (0.520" ID x 0.620" OD)	Brown	100'/Coil	3.6	21DT
A 620/500	1/2" Polyethylene Tubing (0.520" ID x 0.620" OD)	Black	500'/Coil	3.6	21DT
A 620BR/500	1/2" Polyethylene Tubing (0.520" ID x 0.620" OD)	Brown	500'/Coil	3.6	21DT
A 660BR/100S	17mm Polyethylene Tubing (0.560" ID x 0.660" OD)	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" OD)	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" OD)	Black/ Green Stripe	500'/Coil	3.8	21DT
A 710PS	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black/ Purple Stripe	500'/Coil	3.8	21DT
A 710RDS	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black/ Red Stripe	500'/Coil	3.8	21DT
A 710WHS	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black/ White Stripe	500'/Coil	3.8	21DT
A 710YS	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black/ Yellow Stripe	500'/Coil	3.8	21DT
A 710SH	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black	500'/Wrapped Coil	3.8	21DT
A 710/50	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black	50'/Coil	3.8	21DT
A 710/100	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black	100'/Coil	3.8	21DT
A 710/100RDS	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black/ Red Stripe	100'/Coil	3.8	21DT
A 710/100SH	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	Black	100'/Wrapped Coil	3.8	21DT
A 710/1000	1/2" Polyethylene Tubing (0.620" ID x 0.710" OD)	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" OD)	Black/ Red Stripe	500'/Coil	6.4	21DT
A 940WHS	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	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" OD)	Purple Stripe	N/A	N/A	21DT
A 940GRS	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	Green Stripe	500'/Coil	6.4	21DT
A 940/100	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	Black	100'/Coil	6.4	21DT
A 940/1000	3/4" Polyethylene Tubing (0.830" ID x 0.940" OD)	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" OD, 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" Flexee™ Swing Riser Pipe (0.490" ID x 0.690" OD), 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				
	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 Number	
	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

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

Flow	Part Number		
	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

“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

TECHNICAL INFORMATION – CONVERSION FACTORS

To Convert From	To	Multiply by
AREA		
Acres	Sq. Feet	43,560
Acres	Sq. Meters	4,046.8
Sq. Centimeters	Sq. Feet	0.00108
Sq. Centimeters	Sq. Inches	0.1550
Sq. Feet	Sq. Centimeters	929.03
Sq. Feet	Sq. Inches	144
Sq. Feet	Sq. Meters	0.0929
Sq. Feet	Sq. Yards	0.1111
Sq. Inches	Sq. Centimeters	6.4516
Sq. Inches	Sq. Feet	0.00694
Sq. Inches	Sq. Meters	0.000645
Sq. Meters	Sq. Feet	10.764
Sq. Meters	Sq. Yards	1.196
Sq. Yards	Sq. Feet	9
Sq. Yards	Sq. Meters	0.8361
ENERGY AND POWER		
Foot Pounds	BTU	0.001285
Foot Pounds	Joules	1.3558
Foot Pounds	Kilogram-Meters	0.13826
Foot Pound per Minute	Horsepower	0.0000303
Horsepower	BTU per Minute	42.41
Horsepower	Foot Pound per Minute	33,000
Horsepower	Foot Pound per Second	550
Horsepower	Kilowatts	0.7457
FLOW		
Cubic Feet per Minute	Cubic Meters per Second	0.0004719
Cubic Feet per Second	Cubic Meters per Second	0.02832
Cubic Yards/Minute	Cubic Meters per Second	0.01274
Gallons/Minute	Cubic Meters per Second	0.0000631
Gallons/Minute	Cubic Meters per Hour	0.22716
LENGTH		
Centimeters	Inches	0.3937
Centimeters	Yards	0.01094
Feet	Inches	12
Feet	Meters	0.30481
Feet	Yards	0.333
Inches	Centimeters	2.540
Inches	Feet	0.08333
Inches	Meters	0.02540
Inches	Microns	25.400
Inches	Millimeters	25.400
Inches	Yards	0.2778
Kilometers	Feet	3.281
Kilometers	Miles (Nautical)	0.5336
Kilometers	Miles (Statue)	0.6214
Kilometers	Yards	1.094
Meters	Feet	3.2809
Meters	Yards	1.0936
Miles (Statue)	Feet	5.280
Miles	Kilometers	1.6093
Miles (Statue)	Meters	1,609.34
Miles (Statue)	Yards	1,760
Miles (Nautical)	Kilometers	1,852
Miles (Nautical)	Meters	1.8520
Millimeters	Inches	0.03937
Rods	Meters	5.0292
Yards	Centimeters	0.9144
Yards	Feet	3
Yards	Inches	36
Yards	Meters	0.9144

To Convert From	To	Multiply by
PRESSURE		
Kilograms/Sq. Cm.	Pounds per Sq. Inch	14,223
Kilograms/Sq. Meter	Pounds per Sq. Foot	0.2048
Kilograms/Cubic Meter	Pounds per Cubic Foot	0.0624
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		
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
Gallons	Quarts	4
Liters	Cubic Feet	0.03531
Liters	Cubic Inches	61.017
Liters	Gallons	0.2642
Liters	Pints	2.1133
Liters	Quarts	1.057
Liters	Cubic Meters	0.0010

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