AquaFuse®

HDPE Piping Systems

Golf Products Catalog

CMF GLOBAL

www.cmfglobal.com

Since 2002, **CMF Global** has supplied and shipped irrigation systems and component products to more than 60 countries, including the USA. Areas of specialty include supplying complete irrigation systems and products to the golf irrigation industry as well as High Density Polyethylene (HDPE) water systems.

In 2010 CMF Global premiered the AquaFuse® brand of High-Performance HDPE pipeline components, introducing the industry to peace of mind through our 25-year warranty against manufacturing defects and our comprehensive AquaFUSION® training.

Since 2010, we have expanded the AquaFuse brand to include new proprietary components designed specifically for water related applications of HDPE: the AquaSaddle Fusible Branch Saddles, the AquaFuse ControlFlo Ductile Iron Gate Valve with HDPE Ends, the water hammer eliminating AquaFuse ControlFlo 360 HDPE Ball Valve, and the AquaFuse Swing Joint which mates directly to our AquaSaddle Fusible Branch Saddles.

CMF Global can supply a zero-leak, fully-heat-fused, HDPE irrigation piping system from the discharge of the pump station to the last sprinkler's swing joint.

All AquaFuse HDPE components carry our 25-year limited warranty against manufacturing defects. CMF Global maintains products liability insurance coverage both internationally and domestically giving our customers added peace of mind. Additionally, CMF Global offers its Field Logistics Extended Technical Service to expedite and improve the installation of HDPE irrigation systems.

Our goal is to simplify and encourage the use of HDPE components in the design and installation of long-lived and reliable pipeline systems.

AquaFuse®

www.aqua-fuse.com

AquaFuse®

HDPE Piping Systems

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AQUAFUSE PROPRIETARY ITEMS

AquaFuse by CMF GLOBAL

AQUAFUSE CONTROLFLO 360 VALVES

NSF/ANSI Standard 61 - Drinking Water System Components

AquaFuse ControlFlo 360 Series Ball Valves	
Part No.	**Description**
AFBV0200Y-MFN0-360	AquaFuse ControlFlo 2" IPS 360 Ball Valve PE4710/PE100 DR11 Full Port
AFBV0063M-MFN0-360	AquaFuse ControlFlo 63mm 360 Ball Valve PE4710/PE100 DR11 Full Port
AFBV0300Y-MFN0-360	AquaFuse ControlFlo 3" IPS 360 Ball Valve PE4710/PE100 DR11 Full Port
AFBV0090M-MFN0-360	AquaFuse ControlFlo 90mm 360 Ball Valve PE4710/PE100 DR11 Full Port
AFBVK	360/SBV Telescoping Ball Valve Key 19"/482mm - 30"/762mm

Construction and Materials	
Component	**Material**
Body	Polyethylene
End	Polyethylene
Ball Seal	Nitrile
Ball	Polypropylene
P.G. Operator	Acetal (POM)
Stem	Acetal (POM)
Weather Seal	Nitrile
Stem Seal	Nitrile
Retainer	Polypropylene

IPS & Metric Valve Sizes and Dimensions (approx.)

Nominal Valve Size/SDR	D inch/mm	L inch/mm	H inch/mm	C inch/mm	I inch/mm	Port Type	Cv Factor US gal/min @ 1 psi loss	E inch/mm	Weight lbs/kg
2 IPS / SDR 11	2.37 / 60.30	19.60 / 498	9.65 / 250	7.01 / 178	1.77 / 45	Full	164	6.69 / 170	4.19 / 1.90
63mm / SDR 11	2.48 / 63	19.60 / 498	9.65 / 250	7.01 / 178	1.77 / 45	Full	164	6.69 / 170	4.19 / 1.90
3 IPS / SDR 11	3.50 / 88.90	21.26 / 540	11.28 / 286.50	7.81 / 198.5	2.52 / 64	Full	375	7.00 / 178	8.60 / 3.90
90mm / SDR 11	3.54 / 90	21.26 / 540	11.28 / 286.50	7.81 / 198.5	2.52 / 64	Full	375	7.00 / 178	8.60 / 3.90

AquaFuse ControlFlo 360 Series Ball Valves	
Item	**Engineering Features**
Serviceable Design	Patented gear design is easily replaced if needed, and with the valve fully open or closed, and subjected to fully-rated working pressure, thus Eliminating the need to replace the entire valve.
Water Hammer Prevention	Prevents lateral line water hammer protecting swing joints, sprinklers, and surrounding turf from damage.
Anti-Break Stem Design	Unique protected stem design eliminates over torquing issues and stem breakage, unlike that of other valves
Valve Position Indicator	Clear visual indicator shows valves working position "Open-Throttle-Close"
Extremely Low Operating Torque	Valve can be fully operated from open to closed by hand while under fully-rated working pressure.
Design Application	Water, Irrigation, Agriculture, Sewer
Sizes	2" IPS & 3" IPS / 63mm & 90mm
Design/Testing	NSF-61, EN12201-4:2001, ASME B16.40, Compatible with AWWA C901
Materials (PE)	High Density bimodal PE 4710 & PE100, NSF-14, ANSI/NSF-61
Notch Tensile (PENT) (PE)	> 10,000 hrs, ASTM Method F1473
Operating Pressure	ASTM Standard SDR 11 (200 PSI), ISO Standard 16 BAR (232 PSI)
Temperature Range	-20° F to 140° F / -29° C to 60° C
Port Type	Full Port
Pipe Connections	Butt Fusion, Socket Fusion, or Electrofusion
Actuation	Gear 360° Turn to Open to Close

Note: All AquaFuse ControlFlo ball valves far exceed the minimum requirements set forth by ANSI/NSF-61 & NSF-14, EN12201-4:2001, ASME B16.40, and compatible with AAWWA C901 & AWWA C906 where applicable. PE4710/PE100 bimodal resin with a PENT value at 2.4 MPa and 80 °C of >10,000 hours per ASTM F1473 and it is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, ANSI/NSF Standard 61, CSA B137.1 and CSA 137.4.

AQUAFUSE CONTROLFLO GATE VALVES

MADE IN USA

NSF/ANSI Standard 61 - Drinking Water System Components

ISO 9001

AquaFuse Resilient Wedge IPS Gate Valves	
Part Number	**Description***
OPERATING NUT OPERATOR	
AF263802901175009	AquaFuse ControlFlo 2" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263803901175009	AquaFuse ControlFlo 3" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263804901175009	AquaFuse ControlFlo 4" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263806901175009	AquaFuse ControlFlo 6" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263808901175009	AquaFuse ControlFlo 8" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263810901175009	AquaFuse ControlFlo 10" IPS Resilient Wedge Gate Valve DR11 Op-Nut
AF263812901175009	AquaFuse ControlFlo 12" IPS Resilient Wedge Gate Valve DR11 Op-Nut
HAND-WHEEL OPERATOR	
AF263802901275009	AquaFuse ControlFlo 2" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263803901275009	AquaFuse ControlFlo 3" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263804901275009	AquaFuse ControlFlo 4" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263806901275009	AquaFuse ControlFlo 6" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263808901275009	AquaFuse ControlFlo 8" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263810901275009	AquaFuse ControlFlo 10" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel
AF263812901275009	AquaFuse ControlFlo 12" IPS Resilient Wedge Gate Valve DR11 Hand-Wheel

***Metric sizes available upon request.**

AquaFuse Resilient Wedge IPS Gate Valves	
Item	**Operating Feature**
STANDARD MATERIALS	
Body & Cover	Ductile Iron to ASTM A 536, 70-50-5
Coating	Heat Fused Epoxy to meet AWWA C550
Operating Nut	Iron to ASTM A126, CLASS B
Stem	Bronze ASTM B584, C86700
Wedge	Ductile Iron ASTM A536 / EPDM Encapsulated
Stuffing Box	Ductile Iron ASTM A536, Grade 70-50-5
Stem Nut	Bronze (NDZ) ASTM B763, Alloy C99500
Bolts & Nuts	Stainless Steel ASTM F593C / F594
O-rings	EPDM
OPTIONAL MATERIALS	
Pipe	Pipe 4710 to AWWA C906 in DR9, DR11, DR13.5 or DR17 IPS suitable for Butt Fusion or Electrofusion joining
Bolts & Nuts	316 Stainless available
Stem	Stainless Steel
Wedge	Ductile Iron ASTM A536 / EPDM Encapsulated

- AquaFuse ControlFlo gate valves are cast, machined, assembled, and tested 100% in the United States of America by Clow Valve.
- Stem nut independent of wedge for non-binding operation.
- Bolt and nut design instead of recessed socket head capscrews for ease of maintenance.
- Newest, state-of-the-art machining and coating technology.
- Meets all AWWA C509, C550, and NSF 61 standards.

AQUAFUSE CONTROLFLO BALL VALVES

NSF/ANSI Standard 61 - Drinking Water System Components

AquaFuse ControlFlo High-Performance IPS Ball Valves	
Part Number	**Description***
HIGH PERFORMANCE TYPE 1/4 TURN	
AFBV0070Y-MFN0-000	AquaFuse ControlFlo 1" IPS Ball Valve DR11 PE4710/PE100 Full Port NPC
AFBV0080Y-MSN0-000	AquaFuse ControlFlo 1.25" IPS IPS Ball Valve DR11 PE4710/PE100 STD Port NPC
AFBV0090Y-MSN0-000	AquaFuse ControlFlo 1.50" IPS Ball Valve DR11 PE4710/PE100 STD Port NPC
AFBV0200Y-MFN0-000	AquaFuse ControlFlo 2" IPS Ball Valve DR11 PE4710/PE100 Full Port NPC
AFBV0300Y-MFN0-000	AquaFuse ControlFlo 3" IPS Ball Valve DR11 PE4710/PE100 Full Port NPC
AFBV0400Y-MFN0-000	AquaFuse ControlFlo 4" IPS Ball Valve DR11 PE4710/PE100 Full Port NPC
HIGH PERFORMANCE TYPE 1/4 TURN WITH BYPASS SYSTEM	
AFBV0400Y-MFB0-009	AquaFuse ControlFlo 4" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV0600Y-MFB0-009	AquaFuse ControlFlo 6" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV0800Y-MFB0-009	AquaFuse ControlFlo 8" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV1000Y-MFB0-009	AquaFuse ControlFlo 10" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV1200Y-MFB0-009	AquaFuse ControlFlo 12" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV1400Y-MFB0-009	AquaFuse ControlFlo 14" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass
AFBV1600Y-MFB0-009	AquaFuse ControlFlo 16" IPS Ball Valve DR11 PE4710/PE100 Full Port PC With ByPass

***Metric sizes available upon request.**

AquaFuse® – Ask for it by name!

AquaFuse ControlFlo High-Performance IPS Ball Valves	
Item	**Operating Feature**
Design Application	Water, Irrigation, Agriculture, Sewer
Sizes	1" IPS up to 16" IPS
Design/Testing	NSF-61, EN12201-4:2001, ASME B16.40, Compatible with AWWA C901 & C906
Materials (PE)	High Density bimodal PE 4710 & PE100, NSF-14, ANSI/NSF-61
Notch Tensile (PENT) (PE)	> 10,000 hrs, ASTM Method F1473
Operating Pressure	ASTM Standard 200 PSI
Temperature Range	-20° F to 140° F
Port Type	Full and Standard Port
Pipe Connections	Butt Fusion, Socket Fusion, or Electrofusion
Actuation	¼ Turn to Open to Close

Construction and Materials	
Component	**Material**
Body	Polyethylene
End	Polyethylene
Ball Seal	Nitrile
Ball	Polypropylene
Operator	Acetal (POM)
Stem	Acetal (POM)
Weather Seal	Nitrile
Stem Seal	Nitrile
Retainer	Polypropylene

Note: All AquaFuse ControlFlo ball valves far exceed the minimum requirements set forth by ANSI/NSF-61 & NSF-14, EN12201-4:2001, ASME B16.40, and compatible with AAWWA C901 & AWWA C906 where applicable. PE4710/PE100 bimodal resin with a PENT value at 2.4 MPa and 80 °C of >10,000 hours per ASTM F1473 and it is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, ANSI/NSF Standard 61, CSA B137.1 and CSA B137.4.

AQUAFUSE SADDLES

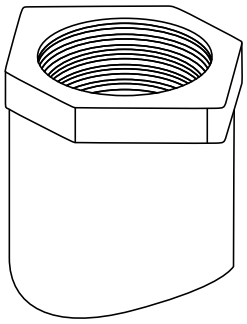
AquaFuse Fusible Service Saddle for Swing Joints	
Part No.	**Description***
AFAS150-020	AquaSaddle 2" IPS Pipe
AFAS150-030	AquaSaddle 3" IPS Pipe
AFAS150-040	AquaSaddle 4" IPS Pipe
AFAEL150-000	AquaSaddle End Of Line 1 ½" IPS Pipe
AFAS150-063	AquaSaddle 63mm Pipe
AFAS150-075	AquaSaddle 75mm Pipe
AFAS150-090	AquaSaddle 90mm Pipe
AFGELL-150	Transition Elbow: Female AquaSaddle X 1 ½" Female ACME Thread (shown bottom left)

****Note:** PE4710 bimodal resin with a PENT value at 2.4 MPa and 80°C of >10,000 hours per ASTM F1473 and it is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, ANSI/NSF Standard 61, CSA B137.1 and CSA B137.4

- 100% Corrosion resistant with NO Metal Components
- PE4710 bimodal resin with a PENT value of >10,000 hours per ASTM F1473**
- Pressure Rated at 335 PSI
- Double O-ring Seal
- For use on DR17 through DR7 PE4710 or PE100 pipe
- Used with Integrated AquaFuse Swing Joints
- Optional Proprietary PVC Transition Elbow for other brand Swing Joints
- Eliminates Mechanical Saddle and Compression Service Tee Leaks
- Available in Imperial and Metric Sizes
- For use with exclusive AquaFuse Service Saddle Machine

***Metric sizes available upon request.**

AquaFuse ¾" Landscape Fusible Service Saddle		
Part No. IPS	**Description**	**PE4710 DR**
AFLS07-010	AquaSaddle 1 IPS 0.75 FIPT PE4710 BS ROUND BASE	7-11
AFLS07-012	AquaSaddle 1.25 IPS 0.75 FIPT PE4710 BS ROUND BASE	7-11
AFLS07-015	AquaSaddle 1.5 IPS 0.75 FIPT PE4710 BS ROUND BASE	7-13.5
AFLS07-020	AquaSaddle 2 IPS 0.75 FIPT PE4710 BS ROUND BASE	7-17
AFLS07-030	AquaSaddle 3 IPS 0.75 FIPT PE4710 BS ROUND BASE	7-17
AFEL07-010	AquaSaddle End of Line 1 IPS 0.75 FIPT PE4710 BS FLAT	7-17
Part No. Metric	**Description**	**PE100 DR**
AFLS07-040	Aquasaddle 40 Metric 0.75 FIPT PE4710 BS ROUND BASE	7.4-11
AFLS07-050	Aquasaddle 50 Metric 0.75 FIPT PE4710 BS ROUND BASE	7.4-13.6
AFLS07-063	Aquasaddle 63 Metric 0.75 FIPT PE4710 BS ROUND BASE	7.4-17
AFLS07-075	Aquasaddle 75 Metric 0.75 FIPT PE4710 BS ROUND BASE	7.4-17
AFLS07-090	Aquasaddle 90 Metric 0.75 FIPT PE4710 BS ROUND BASE	7.14-17

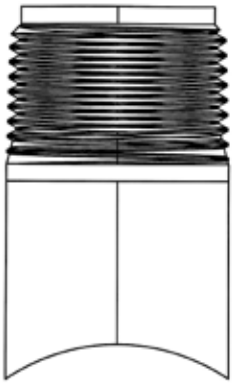


MADE IN USA

- 100% Corrosion resistant with NO Metal Components.
- PE4710 bimodal resin with a PENT value of >10,000 hours per ASTM F1473**
- Pressure Rated at 335 PSI
- For use on PE4710 or PE100 pipe
- Eliminates Mechanical Saddle and Compression Service Tee Leaks
- Available in Imperial and Metric Sizes

****Note:** PE4710 bimodal resin with a PENT value at 2.4 MPa and 80 °C of >10,000 hours per ASTM F1473 and it is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, ANSI/NSF Standard 61, CSA B137.1 and CSA B137.4

AQUAFUSE SADDLES



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AquaFuse 1" Landscape Fusible Service Saddle		
Part No. IPS	**Description**	**PE4710 DR**
AFLS010-010	AquaSaddle 1 IPS 1 MIPT PE4710 BS ROUND BASE	7-11
AFLS010-012	AquaSaddle 1.25 IPS 1 MIPT PE4710 BS ROUND BASE	7-11
AFLS010-015	AquaSaddle 1.5 IPS 1 MIPT PE4710 BS ROUND BASE	7-13.5
AFLS010-020	AquaSaddle 2 IPS 1 MIPT PE4710 BS ROUND BASE	7-17
AFLS010-030	AquaSaddle 3 IPS 1 MIPT PE4710 BS ROUND BASE	7-17
AFLS010-000	AquaSaddle End of Line 1 IPS 1 MIPT PE4710 BS FLAT	7-17
Part No. Metric	**Description**	**PE100 DR**
AFLS010-040	AquaSaddle 40mm 1 MIPT PE4710 BS ROUND BASE	7.4-11
AFLS010-050	AquaSaddle 50mm 1 MIPT PE4710 BS ROUND BASE	7.4-13.6
AFLS010-063	AquaSaddle 63mm 1 MIPT PE4710 BS ROUND BASE	7.4-17
AFLS010-075	AquaSaddle 75mm 1 MIPT PE4710 BS ROUND BASE	7.4-17
AFLS010-090	AquaSaddle 90mm 1 MIPT PE4710 BS ROUND BASE	7.4-17

100% Corrosion resistant with NO Metal Components.

- PE4710 bimodal resin with a PENT value of >10,000 hours per ASTM F1473**
- Pressure Rated at 335 PSI
- For use on PE4710 or PE100 pipe
- Eliminates Mechanical Saddle and Compression Service Tee Leaks
- Available in Imperial and Metric Sizes

****Note:** PE4710 bimodal resin with a PENT value at 2.4 MPa and 80 °C of >10,000 hours per ASTM F1473 and it is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, ANSI/NSF Standard 61, CSA B137.1 and CSA B137.4

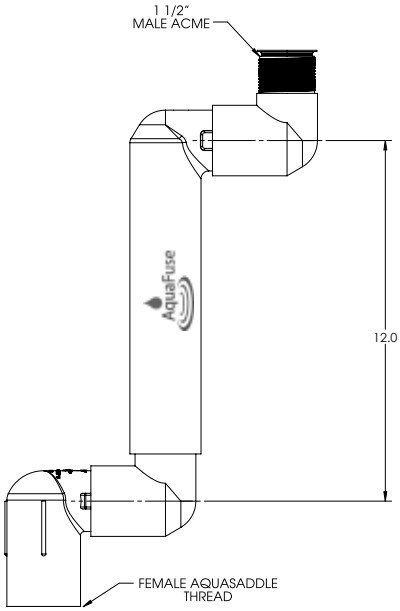
EXCLUSIVE AquaSaddle Fusion Machine	
Golf Machines	
Part No.	**Description**
AFGFP-020	AquaSaddle Fusion Machine 2" IPS Pipe 115VAC
AFGFP-030	AquaSaddle Fusion Machine 3" IPS Pipe 115VAC
AFGFP-040	AquaSaddle Fusion Machine 4" IPS Pipe 115VAC
Landscape Machines	
Part No.	**Description**
AFLFP-002	AquaFuse 1 ½", 2" Fusion Machine Package
AFLFP-003	AquaFuse 1", 1 ½", 2" Fusion Machine Package
AFLFP-004	AquaFuse 1 ¼", 1 ½", 2" Fusion Machine Package

MADE IN USA

- Side Wall Fusion made simple
- Innovative design provides precise, repeatable AquaSaddle fusion
- Fuses golf saddles or landscape saddles with an optional adapter
- Preset pressure and no-adjust clamping for ease of use
- Preset Heater Controller and quick disconnect for interchangeability

Note: For 240 volt, metric, and landscape applications or other accessories please contact CMF Global.

AQUAFUSE SWING JOINTS



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AquaFuse Swing Joints						
Specifying Information (AFXAX-XXX)						
AF	**Body Style**	**Aquafuse Inlet**	**Outlet**	**-**	**Style**	**Lay Length**
AF	1 = 1" 2 = 1¼" 3 = 1½"	A	0 = ACME 2 = MIPT C = 1" Reducing E = ½" MIPT F = ¾" MIPT S = Brass MIPT	-	2 = Standard Unitized 4 = Triple Top	08 = 8" Lay 12 = 12" Lay 18 = 18" Lay

Examples:
1" Body, 1" ACME Outlet, Standard Style, and 12" Lay Length = **AF1A0-212**
1" Body, 1" Brass MIPT Outlet, Standard Style, and 12" Lay Length = **AF1AS-212**
1 1/4" Body, 1 ¼" ACME Outlet, Standard Style, and 8" Lay Length = **AF2A0-208**
1 1/4" Body, 1 ¼" ACME Outlet, Triple Top, and 18" Lay Length = **AF2A0-418**
1 1/2" Body, 1" Reducing Outlet, Triple Top, and 8" Lay Length = **AF3AC-408**
1 1/2" Body, 1 ½" ACME Outlet, Triple Top, and 12" Lay Length = **AF3A0-412**

Specifications:
AquaFuse Swing Joint Products shall be rated for use with water at 315 p.s.i. maximum working pressure @ 73°F when tested in accordance with A STM D3139 & F1970. AquaFuse Swing Joint Products shall be molded of rigid poly(vinyl) chloride (PVC). Type I, Cell classification 12454-B per ASTM specification D 1784, with pipe sockets per ASTM D 2464.

Suggested Swing Joint Specifications:
Swing Joints shall have AquaFuse thread inlet and modified stub ACME threads with elastomeric O-ring seals at each rotating joint and meets ASTM Standard F2768 (Standard Specification for Modified Stub ACME Thread Joint with Elastomeric Seal in plastic piping components). Each rotating joint shall be sealed with an elastomeric O-ring, installed pre-compressed in a sealing groove free of parting lines to prevent leakage as produced by CMF Global.

AquaFuse HDPE Carbide Tooth Core Bit				
Core Bit	**Shank**	**Center Drill**	**Description**	**Suggested mm**
AFPCC20C	AFPCSKS200	Do Not Use	¾" & 1" AquaFuse Landscape Saddle	20mm
AFPCC28C	AFPCSKS200	Do Not Use	1½" AquaFuse Golf Saddle	28mm
AFPCC45C	AFPCSKS200	AFPCCCDS	2" Round Base Branch Saddle	45mm
AFPCC70C	AFPCSKL200	AFPCCCDL	3" Round Base Branch Saddle	70mm
AFPCC90C	AFPCSKL200	AFPCCCDL	4" Round Base Branch Saddle	90mm

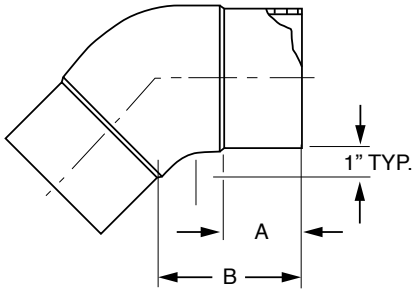
- Carbide-tipped core bit is designed specifically for HDPE applications, minimizing drill shavings and debris
- Long shank provides ease of coring by elevating the drill motor as high as possible above dirt and sand when working "in trench"

Specifications:

- Sizes available, diameter:
  20mm - 210mm
- Shank diameter: Poly-clic shank "S" / "L"
  – S shank: 20mm – 45mm
  – L shank: 50mm – 210mm

GENERAL FITTINGS

AquaFuse by CMF GLOBAL



MADE IN USA

25 YEAR WARRANTY

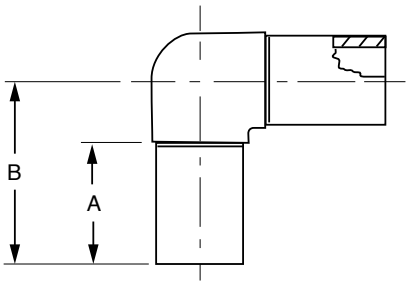
NSF

NSF/ANSI Standard 61 - Drinking Water System Components

AquaFuse 45° Elbow Butt PE4710 SDR11 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
2	11	AF360004405	2.42	3.23	10	1.500
3	11	AF360029267	3.13	5.00	10	2.000
4	11	AF360029039	3.00	5.00	10	3.020
6	11	AF360028266	4.38	7.00	2	8.620
8	11	AF360019868	6.00	11.00	2	18.629
10	11	AF360000052	6.00	13.25	1	41.491
12	11	AF360000178	7.50	15.75	1	60.010

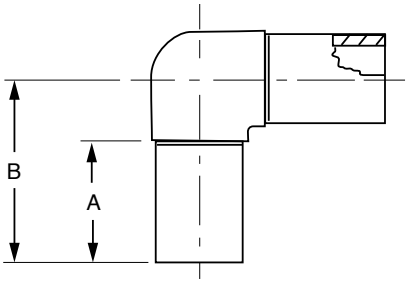
AquaFuse 45° Elbow Butt PE4710 SDR13.5 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
2	13.5	Upon Request	2.42	3.23	10	1.500
3	13.5	AF360044941	3.13	5.00	10	2.000
4	13.5	AF360029040	3.00	5.00	10	3.020
6	13.5	AF360029043	4.38	7.00	2	8.620
8	13.5	AF360028220	6.00	11.00	2	18.629
10	13.5	AF360000169	6.00	13.25	1	41.491
12	13.5	AF360000180	7.50	15.75	1	60.010

AquaFuse 45° Elbow Butt PE4710 SDR17 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
2	17	AF360019854	2.42	3.23	10	1.500
3	17	AF360000189	3.46	5.00	10	1.521
4	17	AF360029042	3.00	5.00	10	2.535
6	17	AF360029044	4.38	7.00	2	8.047
8	17	AF360028219	6.00	11.00	2	17.725
10	17	AF360000173	6.00	13.25	1	38.008
12	17	AF360000184	7.50	15.90	1	58.996

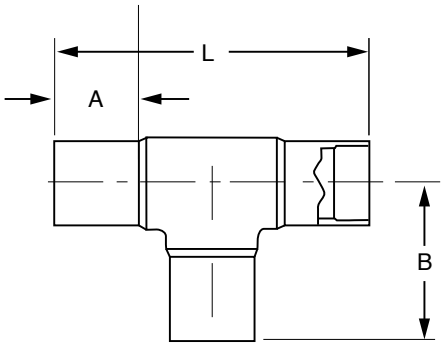


AquaFuse 90° Elbow Butt PE4710 SDR11 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
¾	11	AF360000228	1.75	3.06	100	0.088
1	11	AF360000234	1.75	3.19	100	0.132
1¼	11	AF360000238	1.80	3.38	100	0.265
1½	11	AF360000241	2.33	4.02	80	0.331
2	11	AF360000040	2.52	4.68	10	0.661
3	11	AF360000041	3.12	5.63	10	1.631
4	11	AF360029251	3.87	6.90	10	3.241
6	11	AF360000043	4.64	9.18	2	7.848
8	11	AF360000044	6.33	11.95	2	17.240
10	11	AF360000045	6.00	13.25	1	35.803
12	11	AF360000046	7.50	15.88	1	59.701

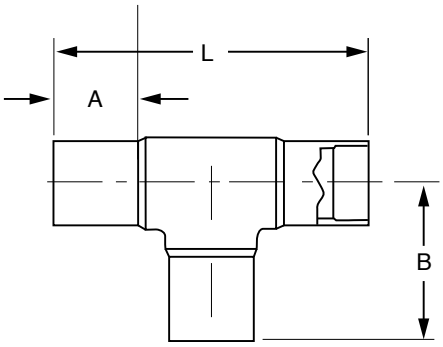
AquaFuse 90° Elbow Butt PE4710 SDR13.5 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
2	13.5	AF360019884	2.52	4.68	10	0.661
3	13.5	AF360019888	3.12	5.63	10	1.631
4	13.5	AF360045068	3.87	6.90	10	3.241
6	13.5	AF360019899	4.64	9.18	2	7.848
8	13.5	AF360000301	6.33	11.95	2	17.240
10	13.5	AF360000248	6.00	13.25	1	35.803
12	13.5	AF360000259	7.50	15.88	1	59.701



AquaFuse 90° Elbow Butt PE4710 SDR17 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	Box Qty	Weight (lb)
2	17	AF360000268	2.52	4.68	10	0.529
3	17	AF360000271	3.16	5.99	10	1.521
4	17	AF360029250	3.87	6.90	10	3.395
6	17	AF360000289	4.64	9.18	2	7.297
8	17	AF360000304	6.33	11.95	2	16.006
10	17	AF360000252	6.00	13.25	1	33.003
12	17	AF360000263	7.50	15.88	1	52.007

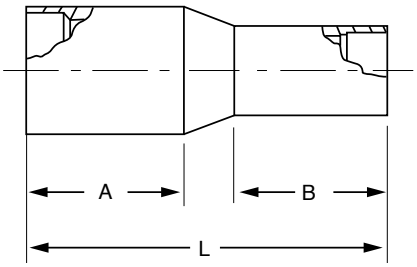


AquaFuse Tee Butt PE4710 SDR11 IPS - Molded							
Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
¾	11	AF360000477	1.64	3.06	6.12	50	0.044
1	11	AF360000482	1.63	3.19	6.38	100	0.198
1¼	11	AF360000486	1.76	3.38	6.76	50	0.419
1½	11	AF360000487	2.18	4.25	8.50	40	0.419
2	11	AF360000514	2.81	4.61	9.28	10	0.904
3	11	AF360000519	3.16	5.99	11.98	10	2.205
4	11	AF360029052	3.90	6.87	13.73	8	4.762
6	11	AF360000538	4.38	9.00	18.00	1	10.560
8	11	AF360000551	6.19	12.00	24.00	1	29.895
10	11	AF360000053	6.00	13.25	26.50	1	50.001
12	11	AF360000504	7.50	15.88	31.75	1	77.007



AquaFuse Tee Butt PE4710 SDR13.5 IPS - Molded							
Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
2	13.5	AF360020014	2.81	4.61	9.28	10	0.904
3	13.5	AF360020018	3.16	5.99	11.98	10	2.205
4	13.5	AF360045067	3.90	6.87	13.73	8	4.762
6	13.5	AF360020027	4.38	9.00	18.00	1	10.560
8	13.5	AF360029053	6.19	12.00	24.00	1	29.895
10	13.5	AF360000495	6.00	13.25	26.50	1	50.001
12	13.5	AF360000506	7.50	15.88	31.75	1	77.007

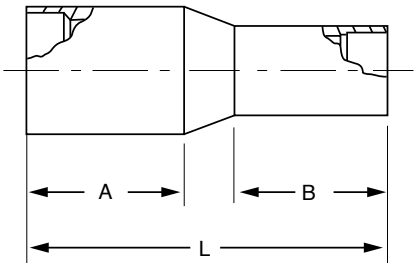
AquaFuse Tee Butt PE4710 SDR17 IPS - Molded						
Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Weight (lb)
2	17	AF360000517	2.81	4.61	9.28	0.992
3	17	AF360000521	3.16	5.99	11.98	2.094
4	17	AF360029305	3.90	7.30	14.60	4.390
6	17	AF360000542	4.38	9.00	18.00	13.492
8	17	AF360000555	6.19	12.00	24.00	22.994
10	17	AF360000499	6.00	13.25	26.50	44.495
12	17	AF360000510	7.50	15.88	31.75	71.011



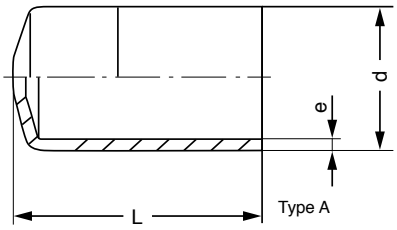
AquaFuse Reducer Bushing Butt PE4710 SDR11 IPS - Molded						
Size	SDR	Part No.	A (inch)	B (inch)	L (inch)	Weight (lb)
1¼ x 1	11	AF360000391	1.86	1.92	4.25	0.110
1½ x 1	11	AF360062336	2.50	2.28	5.75	0.154
3 x 2	11	AF360003439	3.35	2.56	7.15	1.000
4 x 2	11	AF360003440	3.50	2.75	7.88	1.000
4 x 3	11	AF360000069	3.50	3.00	7.63	1.323
6 x 3	11	Upon Request	5.12	3.94	11.42	2.000
6 x 4	11	AF360000066	4.38	3.75	9.50	3.042
8 x 6	11	AF360000068	4.75	5.06	11.81	7.011
10 x 6	11	AF360018393	6.00	6.00	12.00	14.595
10 x 8	11	AF360003453	6.00	6.00	16.00	13.977
12 x 8	11	AF360029046	6.00	6.25	16.59	18.298
12 x 10	11	AF360003455	6.50	6.25	14.75	20.194

AquaFuse Reducer Bushing Butt PE4710 SDR13.5 IPS - Molded						
Size	SDR	Part No.	A (inch)	B (inch)	L (inch)	Weight (lb)
3 x 2	13.5	AF360019980	3.35	2.56	7.15	1.000
4 x 2	13.5	AF360019985	3.50	2.75	7.88	1.000
4 x 3	13.5	AF360019987	3.50	3.00	7.63	1.323
6 x 4	13.5	AF360019994	4.38	3.75	9.50	3.042
8 x 6	13.5	AF360003498	4.75	5.06	11.81	7.011
10 x 8	13.5	AF360019960	6.00	6.00	16.00	13.977
12 x 8	13.5	AF360029048	6.00	6.25	16.59	18.298
12 x 10	13.5	AF360029047	6.50	6.25	14.75	20.194

AquaFuse Reducer Bushing Butt PE4710 SDR17 IPS - Molded						
Size	SDR	Part No.	A (inch)	B (inch)	L (inch)	Weight (lb)
3 x 2	17	AF360000440	3.35	2.56	7.15	1.000
4 x 2	17	AF360062337	2.96	2.75	7.16	1.000
4 x 3	17	AF360003490	3.50	3.00	7.63	1.190
6 x 3	17	Upon Request	5.12	3.94	11.42	2.000
6 x 4	17	AF360000035	4.38	3.75	9.50	3.000
8 x 6	17	AF360003497	5.06	4.75	11.81	7.000
10 x 8	17	AF360019962	6.62	6.25	14.86	12.610
12 x 8	17	AF360029050	6.00	6.25	16.59	16.000
12 x 10	17	AF360029049	6.50	6.25	14.75	17.924



AquaFuse Caps PE4710 Butt SDR 11 - Molded						
Size	SDR	Part No.	d (inch)	L (inch)	e (inch)	Weight (lb)
2	11	AF360000334	2.38	2.95	0.22	0.500
3	11	AF360000338	3.50	7.43	0.32	0.794
4	11	AF360000343	4.50	7.75	0.42	1.367
6	11	AF360000352	6.63	6.44	0.60	2.579
8	11	AF360000363	8.63	7.95	0.79	5.975
10	11	AF360003452	10.75	10.05	0.98	11.83
12	11	AF360003454	12.75	11.93	1.16	19.643



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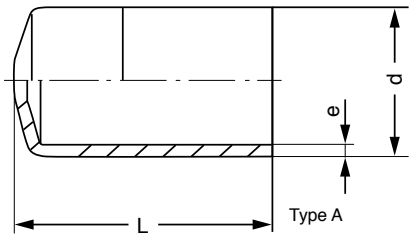
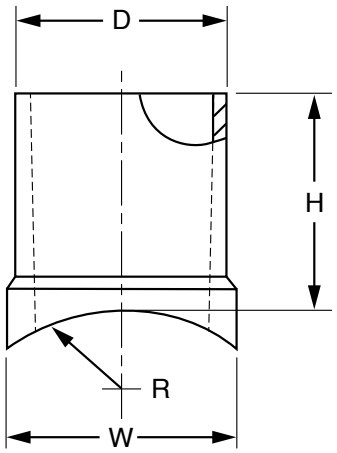


AquaFuse Caps PE4710 Butt SDR 13.5 - Molded						
Size	**SDR**	**Part No.**	**d** (inch)	**L** (inch)	**e** (inch)	**Weight** (lb)
2	13.5	Upon Request	2.38	2.95	0.22	0.500
3	13.5	Upon Request	3.50	7.43	0.32	0.794
4	13.5	Upon Request	4.50	7.75	0.42	1.367
6	13.5	Upon Request	6.63	6.44	0.60	2.579
8	13.5	AF360003499	8.63	7.95	0.79	5.975
10	13.5	AF360003502	10.75	10.05	0.98	
12	13.5	AF360003495	12.75	11.93	1.16	19.643

AquaFuse Caps PE4710 Butt SDR 17 - Molded						
Size	**SDR**	**Part No.**	**d** (inch)	**L** (inch)	**e** (inch)	**Weight** (lb)
2	17	AF360000336	2.38	2.95	0.14	0.450
3	17	AF360000339	2.88	7.43	0.21	0.838
4	17	AF360000347	3.00	7.75	0.27	1.279
6	17	AF360003442	6.63	6.44	0.39	2.337
8	17	AF360003500	8.63	7.95	0.51	5.556
10	17	AF360015444	10.75	10.05	0.63	
12	17	AF360015448	12.75	12.44	0.75	18.000



AquaFuse Round Base Branch Saddle PE4710 Butt 2" Outlet SDR 11

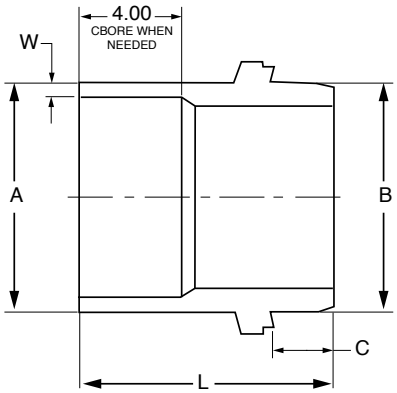
Size	SDR	Part No.	H (inch)	W (inch)	D (inch)	Weight (lb)
2	11	AF360003581	3.00	2.63	2.37	0.265
3	11	AF360000572	3.00	2.63	2.37	0.220
4	11	AF360000586	3.00	2.63	2.37	0.220
6	11	AF360000601	3.00	2.63	2.37	0.220
8	11	AF360000614	3.00	2.63	2.37	0.220
10	11	AF360003583	3.00	2.63	2.37	0.198
12	11	AF360003049	3.00	2.63	2.37	0.198
14	11	AF360003586	3.00	2.63	2.37	0.198
16	11	AF360003587	3.00	2.63	2.37	0.220
18	11	AF360003589	3.00	2.63	2.37	0.220
24	11	AF360000565	3.00	2.63	2.37	0.198

AquaFuse Round Base Branch Saddle PE4710 Butt 3" Outlet SDR 11

Size	SDR	Part No.	H (inch)	W (inch)	D (inch)	Weight (lb)
4	11	AF360000592	4.00	3.88	3.50	0.683
6	11	AF360000607	4.00	3.88	3.50	0.617
8	11	AF360000620	4.00	3.88	3.50	0.639
10	11	AF360003590	4.00	3.88	3.50	0.639
12	11	AF360003592	4.00	3.88	3.50	0.617
14	11	AF360003594	4.00	3.88	3.50	0.639
16	11	AF360003595	4.00	3.88	3.50	0.705
18	11	AF360003596	4.00	3.88	3.50	0.595
20	11	AF360003597	4.00	3.88	3.50	0.705
24	11	AF360000566	4.00	3.88	3.50	0.617

AquaFuse Round Base Branch Saddle PE4710 Butt 3" Outlet SDR 17

Size	SDR	Part No.	H (inch)	W (inch)	D (inch)	Weight (lb)
10	17	AF360003591	4.00	3.88	3.50	0.661
12	17	AF360003593	4.00	3.88	3.50	0.661



AquaFuse MJ Adapter PE4710 IPS SDR11 - With Stiffener

Size (inch)	SDR	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
3	11	AF360022236	3.50	3.96	2.25	9.00	2	2.116
4	11	AF360022238	4.50	4.80	2.25	10.25	4	3.395
6	11	AF360022243	6.63	6.90	2.25	11.31	4	6.570
8	11	AF360003506	8.63	9.05	2.25	12.00	1	11.199
10	11	AF360022231	10.75	11.10	2.25	13.56	1	17.924
12	11	AF360022235	12.75	13.20	2.25	13.00	1	22.994

Note: Beveled for Butterfly Valves available upon request. Standard 45° bevel unless otherwise specified by customer. Due to variations in valve dimensions, the installer should verify proper function of the valve at the time of installation.

- Approval: NSF-61
- Approval: AWWA C901
- Approval: ASTM D3261

AquaFuse MJ Adapter PE4710 IPS SDR11 - Without Stiffener

Size (inch)	SDR	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
3	11	AF360003462	3.50	3.90	2.25	9.00	2	2.116
4	11	AF360003464	4.50	4.80	2.34	10.25	6	3.395
6	11	AF360022242	6.63	6.90	2.31	11.31	4	6.570
8	11	AF360003467	8.63	9.05	2.34	11.94	3	11.199
10	11	AF360004432	10.75	11.10	2.25	13.56	1	17.924
12	11	AF360003483	12.75	13.20	2.25	13.00	1	22.994

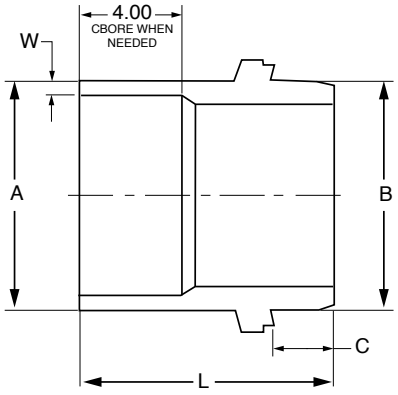
Note: Beveled for Butterfly Valves available upon request. Standard 45° bevel unless otherwise specified by customer. Due to variations in valve dimensions, the installer should verify proper function of the valve at the time of installation.

- Approval: NSF-61
- Approval: AWWA C901
- Approval: ASTM D3261

AquaFuse MJ Adapter PE4710 IPS SDR17 - With Stiffener

Size (inch)	SDR	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
3	17	AF360001923	3.50	3.96	2.25	9.00	2	1.870
4	17	AF360029093	4.50	4.80	2.25	10.25	4	2.910
6	17	AF360001959	6.62	6.90	2.25	11.31	4	5.660
8	17	AF360029104	8.62	9.05	2.25	12.00	1	10.000
10	17	AF360001793	10.75	11.10	2.25	13.56	1	15.800
12	17	AF360001813	12.75	13.20	2.25	13.00	1	21.200

Note: Beveled for Butterfly Valves available upon request. Standard 45° bevel unless otherwise specified by customer. Due to variations in valve dimensions, the installer should verify proper function of the valve at the time of installation.
- Approval: NSF-61
- Approval: AWWA C901
- Approval: ASTM D3261



AquaFuse MJ Adapter PE4710 IPS SDR17 - Without Stiffener

Size (inch)	SDR	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
3	17	AF360044914	3.50	3.96	2.25	9.00	2	1.870
4	17	AF360022239	4.50	4.80	2.25	10.25	4	2.910
6	17	AF360029098	6.63	6.90	2.25	11.31	4	5.660
8	17	AF360029103	8.63	9.05	2.25	12.00	1	10.000
10	17	AF360022232	10.75	11.10	2.25	13.56	1	15.800
12	17	AF360004433	12.75	13.20	2.25	13.00	1	21.200

Note: Beveled for Butterfly Valves available upon request. Standard 45° bevel unless otherwise specified by customer. Due to variations in valve dimensions, the installer should verify proper function of the valve at the time of installation.
- Approval: NSF-61
- Approval: AWWA C901
- Approval: ASTM D3261

AquaFuse MJ Accessory Kit - With Ductile Iron Gland Ring, IPS/DIPS				
Size (inch)	**Part No.**	**# of Bolts**	**Box Qty**	**Weight** (lb)
3	AF360000664	4	1	5.952
4	AF360000665	4	1	7.804
6	AF360001775	6	1	12.181
8	AF360003513	6	1	
10	AF360000657	8	1	18.980
12	AF360000658	8	1	22.154

Note: 3" - 12" IPS/DIPS MJ Accessory Kit Includes: Ductile iron gland ring; Rubber gasket; T-bolts; Hex nuts.
- Approval: ANSI A21.11
- Approval: AWWA C111

AquaFuse MJ Accessory Kit - Without Gland Ring, IPS/DIPS				
Size (inch)	**Part No.**	**# of Bolts**	**Box Qty**	**Weight** (lb)
3	AF360000664	4	1	5.952
4	AF360000665	4	1	7.804
6	AF360001775	6	1	12.181
8	AF360003513	6	1	
10	AF360000657	8	1	18.980
12	AF360000658	8	1	22.154

Note: 3" - 12" IPS/DIPS MJ Accessory Kit Includes: Ductile iron gland ring; Rubber gasket; T-bolts; Hex nuts.
- Approval: ANSI A21.11
- Approval: AWWA C111

AquaFuse MJ Accessory Kit - Carbon Steel Gland Ring, IPS/DIPS

Size (inch)	Part No.	# of Bolts	Box Qty	Weight (lb)
14	AF360014236	10	1	47.995
16	AF360014238	12	1	54.800
18	AF360014240	12	1	66.125
20	AF360014242	14	1	79.505
24	AF360014244	16	1	108.002

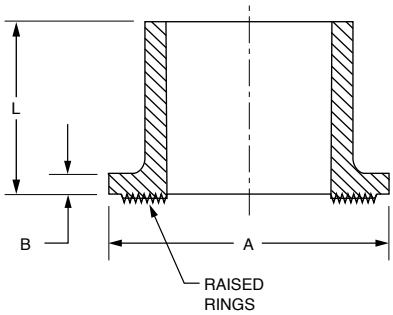
Note: 14" - 24" IPS/DIPS MJ Accessory Kit Includes: Rubber gasket; T-bolts; Heavy flat washers; Hex nuts. Does not include gland ring - black carbon steel ring must be ordered separately.
- Approval: ANSI A21.11
- Approval: AWWA C111

AquaFuse MJ Accessory Kit - Without Gland Ring, IPS/DIPS

Size (inch)	Part No.	# of Bolts	Box Qty	Weight (lb)
14	AF360014235	10	1	14.136
16	AF360014237	12	1	16.541
18	AF360014239	12	1	16.685
20	AF360014241	14	1	19.696
24	AF360014243	16	1	22.436

Note: 14" - 24" IPS/DIPS MJ Accessory Kit Includes: Rubber gasket; T-bolts; Heavy flat washers; Hex nuts. Does not include gland ring - black carbon steel ring must be ordered separately.
- Approval: ANSI A21.11
- Approval: AWWA C111

FLANGE ADAPTERS



AquaFuse Flange Adapters PE 3408/PE4710 SDR11

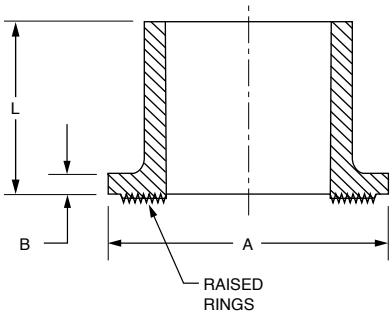
Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
2	11	AF360000054	3.94	0.39	6.00	10	0.463
3	11	AF360000055	5.00	0.63	6.00	10	0.926
4	11	AF360000056	6.00	0.54	6.00	8	
6	11	AF360000057	8.50	0.78	8.00	2	4.431
8	11	AF360000058	10.63	1.00	11.00	2	10.097
10	11	AF360003451	12.75	1.28	9.10	2	11.684
12	11	AF360001440	15.00	1.54	12.00	2	
14	11	AF360001452	17.50	1.50	12.00	1	27.999
16	11	AF360001469	20.00	1.75	12.00	1	
18	11	AF360001482	21.38	1.88	12.00	1	
20	11	AF360016782	23.47	2.27	12.00		58.641
22	11	AF360016792	25.59	2.50	12.00		75.597
24	11	AF360016800	25.59	2.50	12.00		98.002

- Approval: NSF-61
- Approval: AWWA C906
- Approval: ASTM D2513 D3261

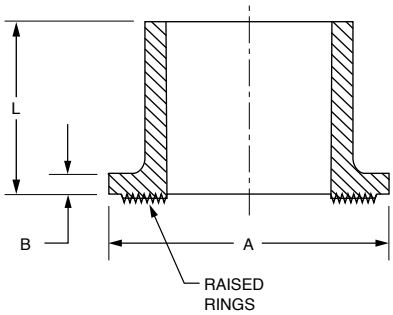
AquaFuse Flange Adapters PE 3408/PE4710 SDR13.5

Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
2	13.5	Upon Request	3.94	0.39	6.00	10	0.463
3	13.5	Upon Request	5.00	0.63	6.00	10	0.926
4	13.5	AF360001553	6.00	0.54	6.00	8	
6	13.5	AF360001572	8.50	0.78	8.00	2	4.431
8	13.5	AF360001590	10.63	1.00	11.00	2	10.097
10	13.5	AF360021845	12.75	1.28	9.10	2	11.684
12	13.5	AF360061586	15.00	1.54	12.00	2	
14	13.5	AF360001455	17.50	1.50	12.00	1	27.999
16	13.5	AF360001472	20.00	1.75	12.00	1	
18	13.5	AF360001484	21.38	1.88	12.00	1	
20	13.5	AF360045482	23.47	2.27	12.00		58.641
22	13.5	Upon Request	25.59	2.50	12.00		75.597
24	13.5	AF360016801	25.59	2.50	12.00		98.002

- Approval: NSF-61
- Approval: AWWA C906
- Approval: ASTM D2513 D3261



FLANGE ADAPTERS



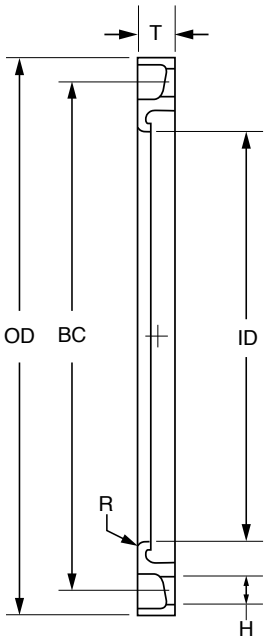
AquaFuse Flange Adapters PE 3408/PE4710 SDR17

Size (inch)	SDR	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
2	17	AF360003508	3.94	0.39	6.00	10	0.375
3	17	AF360003509	5.00	0.63	6.00	10	0.750
4	17	AF360001556	6.00	0.54	6.00	8	1.543
6	17	AF360000017	8.50	0.78	7.75	2	4.167
8	17	AF360001594	10.63	1.00	9.25	2	10.097
10	17	AF360004436	12.75	1.28	9.10	2	8.774
12	17	AF360001443	15.00	1.54	12.00	2	14.969
14	17	AF360001457	17.50	1.50	12.00	1	19.996
16	17	AF360001474	20.00	1.75	12.00	1	28.770
18	17	AF360001486	21.38	1.88	12.00	1	34.921
20	17	AF360016783	23.47	2.27	12.00		40.091
22	17	AF360016793	25.59	2.50	12.00		54.939
24	17	AF360016802	25.59	2.50	12.00		68.002

- Approval: NSF-61
- Approval: AWWA C906
- Approval: ASTM D2513 D3261

AquaFuse Ductile Iron Backing Rings PC 335 PSI 2" – 24" - SDR7

Size (inch)	SDR	OD (inch)	T (inch)	ID (inch)	Bolt Count	Bolt Hole Size (H)	Bolt Hole Circle (BC)	R	Weight (lb)
2	7	6.00	0.75	2.46	4	0.75	4.75	0.31	2.300
3	7	7.50	0.94	3.60	4	0.75	6.00	0.40	4.200
4	7	9.00	0.94	4.60	8	0.75	7.50	0.40	5.000
6	7	11.00	1.00	6.75	8	0.88	9.50	0.40	7.100
8	7	13.50	1.12	8.75	8	0.88	11.75	0.40	10.600
10	7	16.00	1.19	10.92	12	1	14.25	0.40	15.700
12	7	19.00	1.50	12.92	12	1	17.00	0.40	24.000
14	7	21.00	1.63	14.18	12	1.13	18.75	0.40	35.700
16	7	23.50	1.88	16.19	16	1.14	21.25	0.40	53.600
18	7	25.00	1.90	18.20	16	1.25	22.75	0.40	49.800
20	7	27.50	2.13	20.38	20	1.25	25.00	0.31	61.200
22	7	29.50	2.30	22.38	20	1.38	27.25	0.31	78.500
24	7								



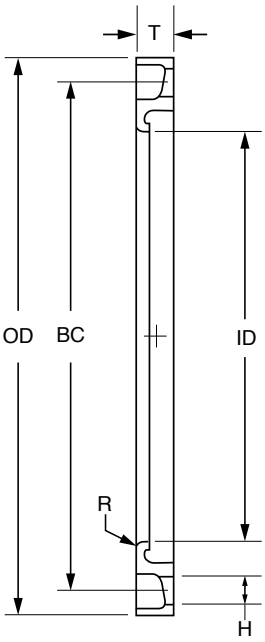
****OTHER SIZES, MATERIALS, AND COATINGS AVAILABLE UPON REQUEST**

- Pressure Class (PC) 335, FM(250psi)
- Approval: GR 65/45/12
- Approval: ASTM A536
- Approval: FM 1613
- Standard: Convoluted Type, Ductile Iron, 150 lb. Drilling; Finish: Red Oxide Primer.

When requesting a quotation on Backing Rings please state the following:

1. State the size of the Backing Ring.
2. State the DR (7 or 11) or Pressure Class (335 PSI or 200 PSI).
3. State the material type.
   a) Ductile Iron Backing Rings
   b) Epoxy Coated Ductile Iron Backing Rings
   c) Stainless Steel 316 Backing Rings
   d) Polypropylene Encapsulated Ductile Iron Backing Rings

Example: 12" DR7 Epoxy Coated Ductile Iron Backing Rings.



AquaFuse Ductile Iron Backing Rings PC 200 PSI 2" – 24" - SDR11

Size (inch)	SDR	OD (inch)	T (inch)	ID (inch)	Bolt Count	Bolt Hold Size (H)	Bolt Hole Circle (BC)	R	Weight (lb)
2	11	6.00	0.50	2.63	4	0.75	4.75	0.20	1.500
3	11	7.50	0.53	3.75	4	0.75	6.00	0.28	2.500
4	11	9.00	0.55	4.75	8	0.75	7.50	0.28	3.500
6	11	11.00	0.63	6.88	8	0.88	9.50	0.28	4.500
8	11	13.50	0.85	8.88	8	0.88	11.75	0.28	8.000
10	11	16.00	0.98	11.00	12	1.00	14.25	0.31	12.000
12	11	19.00	1.25	13.13	12	1.00	17.00	0.28	20.000
14	11	21.00	1.38	14.38	12	1.13	18.75	0.31	30.000
16	11	23.50	1.65	16.38	16	1.13	21.25	0.35	40.000
18	11	25.00	1.67	18.38	16	1.25	22.75	0.35	41.000
20	11	27.50	1.81	20.38	20	1.25	25.00	0.40	53.000
22	11	29.50	2.00	22.38	20	1.38	27.25	0.37	65.000
24	11								

****OTHER SIZES, MATERIALS, AND COATINGS AVAILABLE UPON REQUEST**

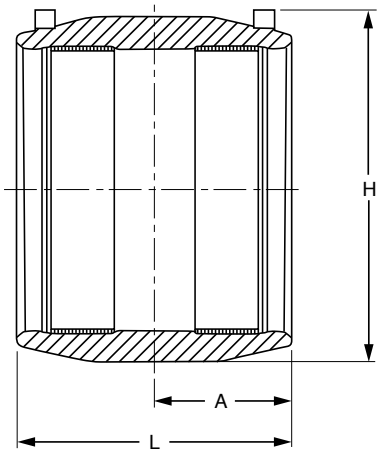
- Pressure Class (PC) 200, FM(200psi)
- Approval: GR 65/45/12
- Approval: ASTM A536
- Approval: FM 1613
- Standard: Convoluted Type, Ductile Iron, 150 lb. Drilling; Finish: Red Oxide Primer.

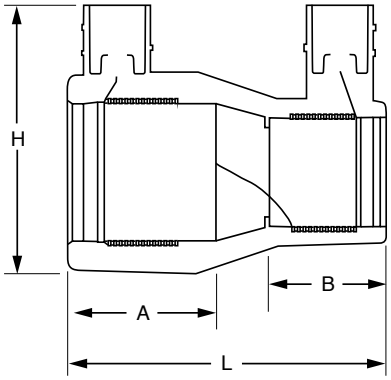
When requesting a quotation on Backing Rings please state the following:

1. State the size of the Backing Ring.
2. State the DR (7 or 11) or Pressure Class (335 PSI or 200 PSI).
3. State the material type.
   a) Ductile Iron Backing Rings
   b) Epoxy Coated Ductile Iron Backing Rings
   c) Stainless Steel 316 Backing Rings
   d) Polypropylene Encapsulated Ductile Iron Backing Rings

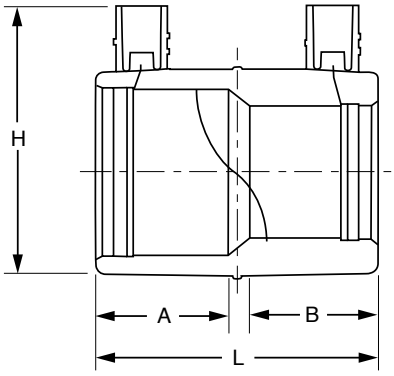
Example: 12" DR7 Epoxy Coated Ductile Iron Backing Rings.

AquaFuse Electrofusion Coupler PE4710 - SDR 11/17					
Size (inch)	**Part No.**	**H** (inch)	**L** (inch)	**A** (inch)	**Weight** (lb)
½	AF360000885	1.88	2.88	1.44	0.132
¾	AF360000889	2.48	3.47	1.74	0.220
1	AF360000893	2.63	3.47	1.75	0.132
1½	AF360000899	3.36	4.33	2.17	0.331
2	AF360000920	3.77	4.72	2.36	0.375
3	AF360000933	5.10	5.63	2.82	1.168
4	AF360000936	6.22	6.14	3.07	1.676
6	AF360000939	8.70	8.35	4.10	4.497
8	AF360000944	11.20	9.48	4.70	8.444
10	AF360000902	13.15	10.39	5.20	15.741
12	AF360000905	15.82	11.50	5.75	23.104
14	AF360000909	17.24	12.13	6.06	35.186
16	AF360000913	19.65	13.54	6.77	47.091
18	AF360000917	22.13	14.96	7.48	65.610
20	AF360000924	24.57	16.46	8.23	91.007
22	AF360000926	27.21	17.95	8.98	117.991
24	AF360000930	30.59	19.50	9.75	177.009
26	AF360000932	28.27	19.51	9.76	155.007





STYLE #1



STYLE #2

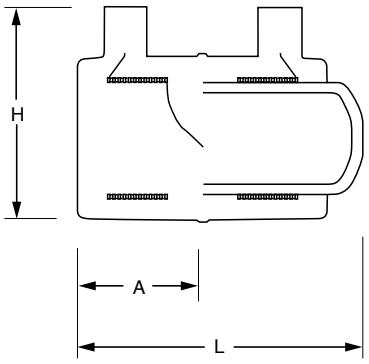
AquaFuse Electrofusion Reducer PE4710 - Molded

Size (inch)	Part No.	H (inch)	L (inch)	A (inch)	B (inch)	Box Qty	Weight (lb)
¾ x ½	AF360021360	2.50	3.28	1.25	1.47	40	0.132
1 x ½	AF360001071	2.60	3.28	1.46	1.53	30	0.154
1 x ¾	AF360001073	2.63	3.28	1.42	1.43	30	0.198
1¼ x 1	AF360001081	3.00	3.71	1.88	1.57	40	0.309
2 x 1¼	AF360021371	3.90	4.60	2.14	1.65	25	0.639

- Approval: ASTM D2513
- Approval: ASTM F1055
- Pin Type: 4.7R (4.7 Pin with Resistor)
- Approval: AWWA C906

AquaFuse Electrofusion Cap PE4710

Size (inch)	Part No.	H (inch)	L (inch)	A (inch)	Box Qty	Weight (lb)
¾	AF360000860	1.36	3.52	2.32	50	0.220
1	AF360000862	1.57	3.82	2.56	40	0.220
1¼	AF360000866	1.82	5.13	3.00	40	0.353
2	AF360000869	2.09	4.94	3.82	25	0.595
3	AF360000871	2.72	10.30	5.18	10	2.138
4	AF360000874	3.00	10.89	6.51	4	3.064
6	AF360000876	4.10	14.71	8.70	4	8.951
8	AF360000879	4.70	15.61	11.20	1	7.011
12	AF360000868	5.75	17.68	15.70	1	23.900

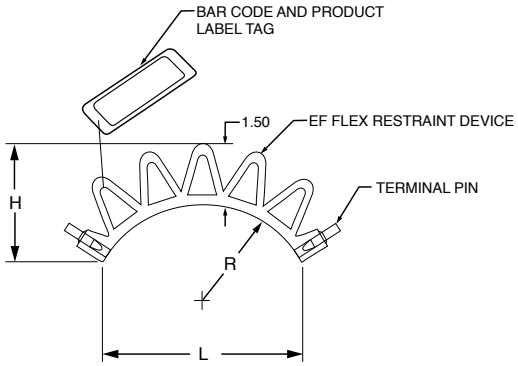


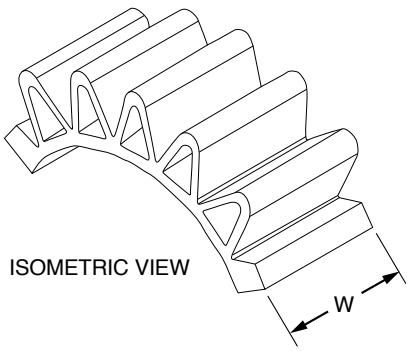
AquaFuse Electrofusion Flex Restraint Fitting

Size (inch)	Part No.	H (inch)	W (inch)	L (inch)	Box Qty	Weight (lb)
6 - 36	AF360000070	2.91	2.56	4.92	40	0.419

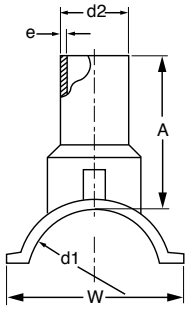
Note: Works on solid wall pipe 6" IPS and larger.

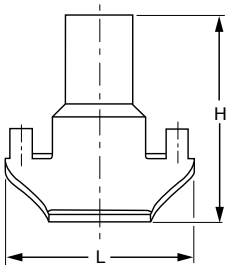
• Pin Type: 4.7S (4.7 Solid Pin)





Bottom Clamp
STYLE 1

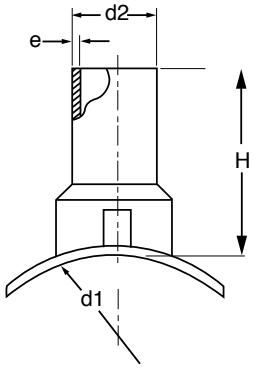




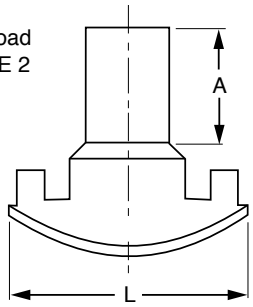
AquaFuse Electrofusion Branch Saddle SDR11

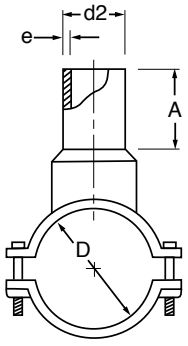
Size (inch)	SDR	Part No.	A (inch)	d2 (inch)	H (inch)	W (inch)	L (inch)	Style	Weight (lb)
2 x 2	11	AF360000759	3.28	2.38	6.65	3.59	6.63	3	0.899
3 x 2	11	AF360000763	3.28	2.38	6.65	4.60	6.63	3	0.970
4 x 2	11	AF360000772	3.28	2.38	7.27	6.26	6.63	3	1.135
6 x 2	11	AF360000780	3.28	2.38	8.43	8.68	6.63	3	2.000
8 x 2	11	AF360000785	3.28	2.38	5.29	6.75	6.75	2	1.041
10 x 2	11	AF360000741	3.28	2.38	5.53	6.75	6.75	2	1.219
12 x 2	11	AF360000751	3.28	2.38	5.70	6.75	6.75	2	1.135
4 x 4	11	AF360000768	3.85	4.50	6.00	7.00	8.38	1	2.116
6 x 4	11	AF360000774	4.14	4.50	7.20	9.63	9.13	1	3.858
8 x 4	11	AF360000787	3.85	4.50	6.00	9.56	10.40	1	15.565
10 x 4	11	AF360000742	3.85	4.50	6.00	12.84	15.03	3	21.451
12 x 4	11	AF360000752	3.85	4.50	6.00	14.78	17.16	3	26.963
8 x 6	11	AF360000788	4.62	6.63	10.17	10.94	13.16	3	16.799
10 x 6	11	AF360000743	4.62	6.63	10.99	12.82	15.03	3	27.646
12 x 6	11	AF360000753	4.62	6.63	11.82	14.78	17.16	3	27.999
10 x 8	11	AF360000745	5.29	8.63	11.66	12.84	15.03	3	
12 x 8	11	AF360000756	5.29	8.63	12.49	14.80	17.16	3	

- Approval: NSF-61
- Approval: AWWA C906
- Approval: ASTM F1055
- Approval: ASTM D3261
- Approval: ASTM D2513
- Full Pressure
- Outlet Wall: DR11
- Pin Type: 4.7S (4.7 Solid Pin)

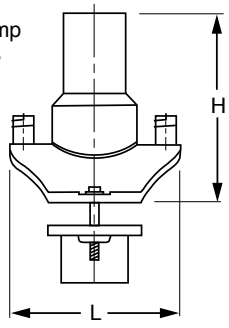


Top Load
STYLE 2





Under Clamp
STYLE 3

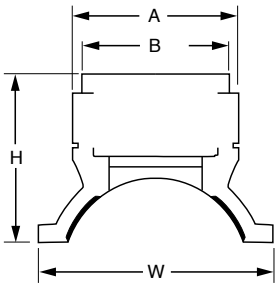


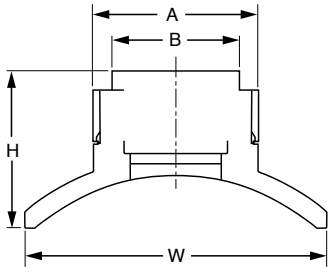
AquaFuse Electrofusion Saddle Brass 360 Female Thread - NPT Outlet

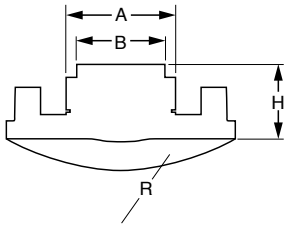
Size (inch)	SDR	Part No.	A (inch)	B (inch)	H (inch)	W (inch)	R (inch)	Box Qty	Weight (lb)
2 x ¾	11	AF360001137	3.25	2.50	3.27	3.59	1.19	10	2.161
3 x ¾	11	AF360001152	3.25	2.50	3.25	4.50	1.75	10	2.315
4 x ¾	11	AF360001167	3.25	2.50	3.80	6.26	2.35	5	2.337
6 x ¾	11	AF360001184	3.25	2.50	4.50	9.00	3.34	5	2.579
8 x ¾	11	AF360001209	3.25	2.50	2.50	6.10	4.31	10	2.579
10 x ¾	11	AF360001111	3.25	2.50	2.50	6.10	5.38	10	2.756
12 x ¾	11	AF360001129	3.25	2.50	2.50	6.10	6.38	10	2.579
3 x 1	11	AF360001155	3.25	2.50	3.25	4.50	1.75	10	2.006
4 x 1	11	AF360001170	3.25	2.50	3.25	6.26	2.35	5	2.183
6 x 1	11	AF360001187	3.25	2.50	4.50	9.00	3.34	5	2.425
8 x 1	11	AF360001213	3.25	2.50	2.50	6.10	4.31	10	2.028
2 x 1½	11	AF360001146	3.25	2.87	3.25	3.59	1.75	10	2.006
3 x 1½	11	AF360001161	3.25	2.87	3.25	4.50	1.75	10	2.050
6 x 1½	11	AF360001193	3.25	2.87	4.50	9.00	3.34	5	2.535
8 x 1½	11	AF360001218	3.25	2.87	2.50	6.10	4.31	10	2.161
10 x 1½	11	AF360001117	3.25	2.87	2.50	6.10	5.38	10	5.370
12 x 1½	11	AF360003709	3.25	2.87	2.50	6.10	6.38	5	2.094
8 x 2	11	AF360001207	3.50	3.25	2.50	6.10	4.53	5	4.277
10 x 2	11	AF360001119	3.50	3.25	2.50	6.10	5.38	5	4.431
12 x 2	11	AF360001134	3.50	3.25	2.50	6.10	6.38	5	2.227

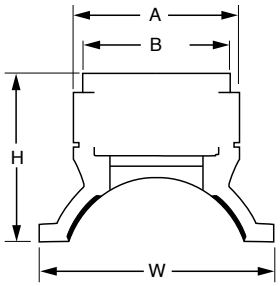
Outlet Material: Brass 360 Alloy Compression Ring Material: Stainless 304

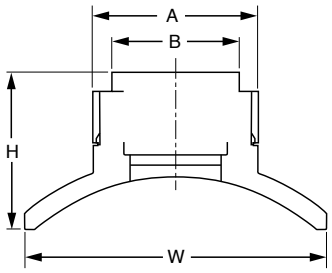
- Approval: NSF-61
- Pin Type: 4.7R (4.7 Pin with Resistor)
- Approval: ASTM F1055
- Approval: AWWA C906
- *Approval: ANSI B1.20.1

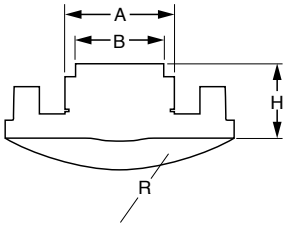












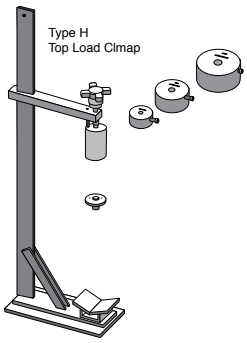
AquaFuse Electrofusion Saddle 316SS Female Thread - NPT Outlet

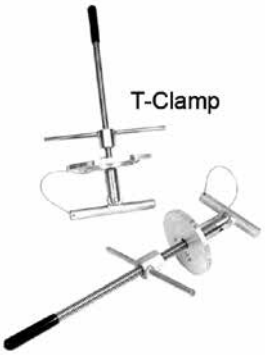
Size (inch)	SDR	Part No.	A (inch)	B (inch)	H (inch)	W (inch)	R (inch)	Box Qty	Weight (lb)
3 x ¾	11	AF360001153	3.25	2.50	3.18	4.60	1.25	10	2.315
4 x ¾	11	AF360001168	3.25	2.50	3.80	6.26	2.35	5	2.337
6 x ¾	11	AF360001185	3.25	2.50	4.96	8.68	3.34	5	2.579
8 x ¾	11	AF360001210	3.25	2.50	2.96	5.92	4.31	10	2.579
10 x ¾	11	AF360001103	3.25	2.50	2.21	6.10	5.55	15	2.756
3 x 1	11	AF360001156	3.25	2.88	3.25	4.50	1.75	10	2.006
4 x 1	11	AF360001171	3.25	2.88	3.80	6.26	2.35	5	2.183
6 x 1	11	AF360001188	3.25	2.88	4.50	9.00	3.34	5	2.425
8 x 1	11	AF360001214	3.25	2.88	2.50	6.10	4.31	10	2.028
12 x 1	11	AF360001132	3.25	2.50	2.50	6.10	6.38	10	
2 x 1½	11	AF360001147	3.25	2.87	3.25	3.59	1.19	10	2.006
3 x 1½	11	AF360001162	3.25	2.87	3.25	4.50	1.75	10	2.050
4 x 1½	11	AF360001177	3.25	2.87	3.80	6.26	2.35	5	
6 x 1½	11	Upon Request	3.25	2.87	4.50	9.00	2.34	5	2.535
8 x 1½	11	AF360001219	3.25	2.87	2.50	6.10	4.31	5	2.161
2 x 2	11	AF360001148	3.50	3.25	3.25	3.59	1.19	5	
3 x 2	11	AF360001163	3.50	3.25	3.25	4.50	1.75	5	
4 x 2	11	AF360021413	3.50	3.25	3.80	6.26	2.34	5	
6 x 2	11	AF360001196	3.50	3.25	4.50	9.00	3.34	5	
8 x 2	11	AF360001222	3.50	3.25	2.50	6.10	4.31	5	4.431
10 x 2	11	AF360021398	3.50	3.25	2.50	6.10	5.38	5	2.227

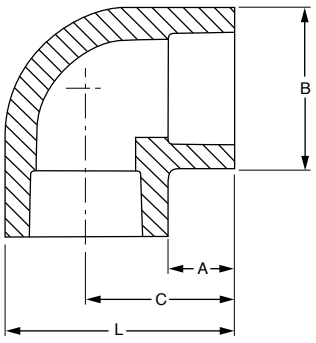
Outlet Material: Stainless 316 Compression Ring Material: Stainless 304

- Approval: ASTM D2513
- Approval: NSF-61
- Pin Type: 4.7R (4.7 Pin with Resistor)
- Approval: ASTM F1055
- Approval: AWWA C906
- Standard: ANSI B1.20.1

AquaFuse Electrofusion Side Wall Clamp				
Size (inch)	**Part No.**	**Description**	**Clamp Style**	**Weight** (lb.)
1¼" IPS	AF360002058	Saddle (Under) Clamp	A	1.190
1½" IPS	AF360002057	Saddle (Under) Clamp	AA	1.918
2" CTS	AF360002059	Saddle (Under) Clamp	AB	2.579
2" IPS	AF360002060	Saddle (Under) Clamp	B	2.006
3" IPS	AF360002061	Saddle (Under) Clamp	C	0.992
4" IPS	AF360002063	Saddle (Under) Clamp	D	2.866
4" DIPS	AF360002062	Saddle (Under) Clamp	L	3.682
6" IPS	AF360002066	Saddle (Under) Clamp	E	2.998
6" DIPS	AF360002065	Saddle (Under) Clamp	M	4.255
4" x 4"	AF360002064	Saddle (Under) Clamp	F	4.894
6" x 4"	AF360002067	Saddle (Under) Clamp	G	13.162
8" IPS x 12" DIPS, 200MM x 400MM	AF360003062	Top Load Clamp	H	22.002
4" PSM and 4" IPS	AF360003699	T-Clamp	J	7.672
6" IPS, 6" PSM, 8" IPS	AF360002948	T-Clamp	K	10.119
1" x 12'	AF360009217	Ratchet Tie-Down Nylon Straps	N	1.951
8" IPS and Larger		Top Load Clamp, EF Tooling Strap Style, w/Fitting Adapters		5.960



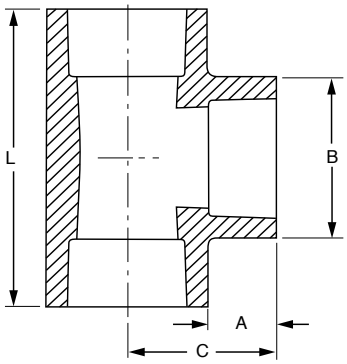




AquaFuse Socket Fusion 90° Elbow

Size (inch)	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
½	AF360002093	0.66	1.20	1.31	1.91	100	0.066
¾	AF360002095	0.75	1.50	1.63	2.38	100	0.110
1	AF360002099	0.77	1.83	1.69	2.61	60	0.154
1¼	AF360002101	0.95	2.27	2.09	3.23	100	0.265
1½	AF360002103	0.98	2.63	2.33	3.65	70	0.419
2	AF360002105	1.00	3.28	2.73	4.37	50	0.728
3	AF360002107	1.17	5.21	4.13	6.74	8	3.285
4	AF360002109	1.34	6.40	5.50	8.70	8	5.930

- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683



AquaFuse Socket Fusion Tee

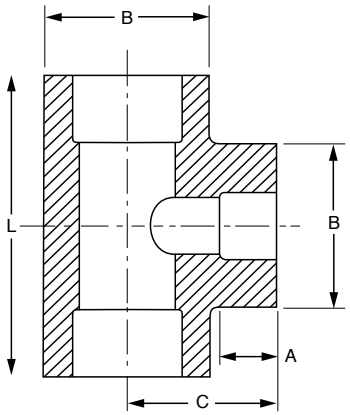
Size (inch)	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
½	AF360002195	0.64	1.19	1.31	2.66	100	0.066
¾	AF360002198	0.73	1.49	1.63	3.25	100	0.154
1	AF360002205	0.75	1.84	1.69	3.41	100	0.132
1¼	AF360002207	0.98	2.30	2.10	4.22	100	0.375
1½	AF360002210	0.97	2.65	2.34	4.67	40	0.573
2	AF360002212	0.97	3.26	2.78	5.40	30	0.948
3	AF360002215	1.19	5.25	4.20	8.28	8	4.079

- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683

AquaFuse Socket Fusion Reducing Tee

Size (inch)	Part No.	A (inch)	B (inch)	C (inch)	L (inch)	Box Qty	Weight (lb)
¾ x ½	AF360002197	0.65	1.50	1.63	3.25	100	0.265
1 x ½	AF360002202	0.65	1.85	1.69	3.38	100	0.265
1¼ x ¾	AF360003129	0.65	1.40	2.14	4.22	80	0.353
1¼ x 1	AF360003130	0.91	1.74	2.14	4.22	80	0.375
1½ x ¾	AF360003770	0.65	1.40	2.40	4.67	50	0.420
1½ x 1¼	AF360003772	0.98	2.21	2.54	4.67	30	0.772
2 x ¾	AF360003132	0.65	1.40	2.75	5.40	30	0.772
2 x 1¼	AF360003133	0.98	2.21	2.95	5.40	30	0.816

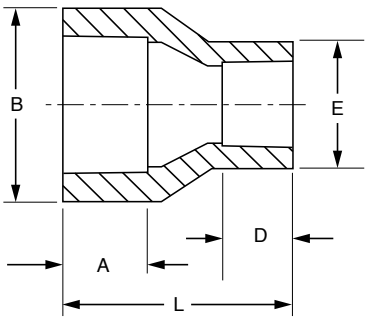
- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683

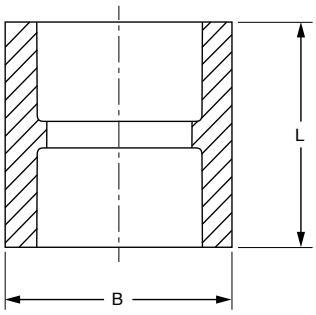


AquaFuse Socket Fusion Reducer Bushing

Size (inch)	Part No.	A (inch)	B (inch)	D (inch)	E (inch)	L (inch)	Box Qty	Weight (lb)
1 x ½	AF360002162	0.78	1.83	0.65	1.21	2.16	100	0.880
1 x ¾	AF360002164	0.75	1.83	0.68	1.46	1.98	100	0.880
1¼ x ¾	AF360002170	1.00	2.26	0.72	1.46	2.18	100	0.132
1¼ x 1	AF360002172	0.96	2.26	0.81	1.83	2.27	100	0.141
1½ x 1	AF360002175	0.96	2.56	0.77	1.84	2.15	100	0.154
1½ x 1¼	AF360002177	0.97	2.56	0.95	2.30	2.16	100	0.176
2 x 1	AF360002180	0.99	3.27	0.76	1.83	2.52	100	0.265
2 x 1¼	AF360002182	1.00	3.28	0.96	2.28	2.55	100	0.287
2 x 1½	AF360002185	0.99	3.27	0.97	2.55	2.56	100	0.287
3 x 2	AF360002186	1.19	5.04	0.98	3.50	3.18	10	1.014
4 x 2	AF360002188	1.29	6.48	0.97	3.54	4.14	10	1.874
4 x 3	AF360002190	1.29	6.41	1.17	5.00	4.48	5	2.227

- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683

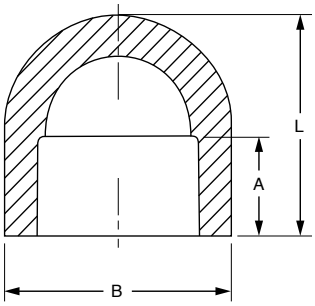




AquaFuse Socket Coupling PE3408/PE4710

Size (inch)	Part No.	B (inch)	L (inch)	Box Qty	Weight (lb)
½	AF360002131	1.20	2.19	100	0.044
¾	AF360002133	1.46	2.19	100	0.066
1	AF360002137	1.82	2.19	100	0.110
1¼	AF360002139	2.27	2.19	100	0.154
1½	AF360002141	2.55	2.18	100	0.176
2	AF360002143	3.27	2.36	100	0.331
3	AF360002145	5.07	2.81	10	1.168
4	AF360002147	6.48	3.18	10	2.050

- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683



AquaFuse Socket Fusion Cap

Size (inch)	Part No.	A (inch)	B (inch)	L (inch)	Box Qty	Weight (lb)
½	AF360002113	0.66	1.23	1.37	100	0.022
¾	AF360002115	0.74	1.45	1.56	100	0.485
1	AF360002118	0.78	1.83	1.78	100	0.088
1¼	AF360002120	0.98	2.28	2.23	100	0.154
1½	AF360002122	0.98	2.55	2.00	100	0.176
2	AF360002124	0.99	3.28	2.23	100	0.309
3	AF360002126	1.19	5.05	3.05	10	1.124

- Approval: ASTM D2513
- Approval: AWWA C906
- Approval: ASTM D2683

FABRICATED FITTINGS

AquaFuse by CMF GLOBAL

Fabricated Fittings – Size Range and Handling	
Description	**Size**
Minimum Diameters	½" - 2"
Maximum Diameters	54" IPS main lines
Maximum Assembly Dimensions	50' L X 8.5' W X 8.0' H (determined by truck loading limits)

• Loads wider than 102" will require special permitting

Applicable Fabricated Product Standards:
- ASTM F713
- ASTM D2513
- ASTM D3350
- ASTM D3261
- ASTM F2206
- AWWA C901/C906
- NSF-61
- Factory Mutual (FM) Approved
- API

Fabricated Elbows	
Description	**Size** (inch)
IPS 3-Segment 90 Elbow (¼ Bend)	4”-54”
IPS 5-Segment 90 Elbow (¼ Bend)	4”-54”
IPS 2-Segment 45 Elbow (⅛ Bend)	4”-54”
IPS 3-Segment 45 Elbow (⅛ Bend)	4”-54”
IPS 2-Segment 22.5 Elbow (1/16 Bend)	4”-54"

Fabricated Tees	
Description	**Size** (inch)
IPS Fabricated Line Tee	4″-54″
IPS Branch Saddle Reducing Tee	4″-24″

Fabricated Reducer Bushings	
Description	**Size** (inch)
IPS Reducers Bushings	2″-24″

When requesting a quotation on fabricated fittings please state the following:

1. State the working pressure (WPR) of the irrigation system.
2. State the DR rating of the pipe being fused to the fitting.
3. State the size of the fittings.
4. State the desired fitting/segments, elbow, tee, or reducer bushing etc.

Example: The working pressure of the irrigation system is 120 PSI according to the irrigation designer. The pipe being used is IPS DR13.5 PE4710. The irrigation designer or contractor wants a IPS 5-Segment 90 Elbow:
**120PSI/IPS DR13.5/5-SEG ELBOW/14″

Based on the above we will quote the correct fitting required for your application.

TRANSITION FITTINGS

AquaFuse by CMF GLOBAL

CAT 3 TRANSITIONS

AquaFuse 304SS CAT 3 Transition Fitting			
Size (inch)	**SDR**	**Part No.**	**Description**
¾	11	AF360002498	Transition Fitting CAT3, TE, 304SS, 0.75, MPT, 0.75, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1	11	AF360002499	Transition Fitting CAT3, TE, 304SS, 1, MPT, 1, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1¼	11	AF360002500	Transition Fitting CAT3, TE, 304SS, 1.25, MPT, 1.25, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1½	11	AF360002501	Transition Fitting CAT3, TE, 304SS, 1.5, MPT, 1.5, IPS, DR11, PE4710, BLK, ANSI B1.20.1
2	11	AF360002502	Transition Fitting CAT3, TE, 304SS, 2, MPT, 2, IPS, DR11, PE4710, BLK, ANSI B1.20.1
3	11	AF360002503	Transition Fitting CAT3, TE, 304SS, 3, MPT, 3, IPS, DR11, PE4710 ,BLK, ANSI B1.20.1
4	11	AF360002504	Transition Fitting CAT3,TE,304SS, 4, MPT, 4, IPS, DR11, PE4710, BLK, ANSI B1.20.1

AquaFuse Brass CAT 3 Transition Fitting			
Size (inch)	**SDR**	**Part No.**	**Description**
¾	11	AF360002487	Transition Fitting CAT3, TE, BRS, 0.75, MPT, 0.75, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1	11	AF360002488	Transition Fitting CAT3, TE, BRS, 1, MPT, 1, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1¼	11	AF360002489	Transition Fitting CAT3, TE, BRS, 1.25, MPT, 1.25, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1½	11	AF360002490	Transition Fitting CAT3, TE, BRS, 1.5, MPT, 1.5, IPS, DR11, PE4710, BLK, ANSI B1.20.1
2	11	AF360002491	Transition Fitting CAT3, TE, BRS, 2, MPT, 2, IPS, DR11, PE4710, BLK, ANSI B1.20.1
3	11	AF360002492	Transition Fitting CAT3, TE, BRS, 3, MPT, 3, IPS, DR11, PE4710, BLK, ANSI B1.20.1
4	11	AF360003677	Transition Fitting CAT3, TE, BRS, 4, MPT, 4, IPS, DR11, PE4710, BLK, ANSI B1.20.1

AquaFuse Carbon Steel CAT 3 Transition Fitting			
Size (inch)	**SDR**	**Part No.**	**Description**
¾	11	AF360002493	Transition Fitting CAT3, TE, CS, 0.75, MPT, 0.75, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1	11	AF360002494	Transition Fitting CAT3, TE, CS, 1, MPT, 1, IPS, DR11, PE4710, BLK,ANSI B1.20.1
1¼	11	AF360002495	Transition Fitting CAT3, TE, CS, 1.25, MPT, 1.25, IPS, DR11, PE4710, BLK, ANSI B1.20.1
1½	11	AF360003678	Transition Fitting CAT3, TE, CS, 1.5, MPT, 1.5, IPS, DR11, PE4710, BLK,ANSI B1.20.1
2	11	AF360002496	Transition Fitting CAT3, TE, CS, 2, MPT, 2, IPS, DR11, PE4710, BLK, ANSI B1.20.1
3	11	AF360002497	Transition Fitting CAT3, TE, CS, 3, MPT, 3, IPS, DR11, PE4710, BLK, ANSI B1.20.1
4	11	AF360003679	Transition Fitting CAT3, TE, CS, 4, MPT, 4, IPS, DR11, PE4710, BLK, ANSI B1.20.1

AQUAFUSE HDPE PIPING SYSTEMS

AquaFuse by CMF GLOBAL

AQUAFUSE HDPE PIPE

AquaFuse® High-density polyethylene (HDPE) pipe is the perfect choice of piping materials for many applications serving irrigation, oil & gas gathering, potable water, wastewater, mining & industrial systems, and natural gas distribution. HDPE pipe resists chemicals, corrosion, physical damage, and more to provide a long-term, cost-effective piping system.

With AquaFuse, we specialize in producing HDPE pipe that meets the needs of our customers and complies with strict industry and safety regulations. With access to various state of the art manufacturing locations across the United States capable of producing over 1 billion pounds of HDPE pipe each year. This enables AquaFuse to produce a high-quality product at the lowest cost so that customer orders are fulfilled quickly and efficiently.

Municipal piping systems need to comply with strict NSF, AWWA, ASTM, and ISO standards to transport potable water to homes across their communities safely. Our HDPE piping is safe, leak-free, requires little-to-no maintenance, reliable performance, resistant to disinfectants, and has a 100-Year Service Life. AquaFuse HDPE pipes are designed to optimize system flow rates in potable water transmission and distribution systems.

AquaFuse pipe is available in diameters from 1" to 54", as well as larger sizes upon request. Pipe can be ordered in coils, reels, or sticks. Longer coil lengths eliminate multiple joints. AquaFuse is rated for recurring pressure surges of 1.5 times the rated pressure, and occasional pressure surges of 2 times the rated pressure. This eliminates the water hammer concerns that can cause other piping systems to fail.

AquaFuse HDPE Piping Systems

IPS Size (inch)	AVG OD	DR	7	7.3	9	11	13.5	15.5	17	19	21	26	32.5
		PR	336	320	252	202	161	139	126	112	101	81	64
1	1.315	Min Wall	0.188	0.180	0.146	0.120							
		Avg ID	0.917	0.933	1.005	1.062							
		lb/ft	0.288	0.278	0.232	0.195							
1 ¼	1.660	Min wall	0.237	0.227	0.184	0.151							
		Avg ID	1.157	1.178	1.269	1.340							
		lb/ft	0.459	0.442	0.369	0.310							
1½	1.900	Min wall	0.271	0.260	0.211	0.173							
		Avg ID	1.325	1.348	1.452	1.534							
		lb/ft	0.600	0.580	0.485	0.406							
2	2.375	Min wall	0.339	0.325	0.264	0.216	0.176	0.153	0.140				
		Avg ID	1.656	1.685	1.816	1.917	2.002	2.050	2.079				
		lb/ft	0.939	0.906	0.758	0.634	0.526	0.462	0.425				
2½	2.875	Min wall	0.411	0.394	0.319	0.261	0.213	0.185	0.169				
		Avg ID	2.004	2.040	2.198	2.321	2.424	2.482	2.516				
		lb/ft	1.377	1.329	1.109	0.928	0.771	0.677	0.622				
3	3.500	Min wall	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.184	0.167		
		Avg ID	2.440	2.484	2.676	2.825	2.950	3.021	3.064	3.109	3.147		
		lb/ft	2.040	1.968	1.646	1.376	1.141	1.006	0.923	0.830	0.757		
4	4.500	Min wall	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.237	0.214	0.173	0.138
		Avg ID	3.137	3.193	3.440	3.633	3.793	3.885	3.939	3.998	4.046	4.133	4.206
		lb/ft	3.372	3.253	2.720	2.275	1.887	1.660	1.526	1.374	1.247	1.018	0.819
5	5.563	Min wall	0.795	0.762	0.618	0.506	0.412	0.359	0.327	0.293	0.265	0.214	0.171
		Avg ID	3.878	3.947	4.253	4.491	4.689	4.802	4.869	4.942	5.001	5.109	5.200
		lb/ft	5.154	4.975	4.156	3.479	2.886	2.540	2.328	2.100	1.909	1.557	1.254

Table continues next page.

AquaFuse HDPE Piping Systems (continued)

IPS Size (inch)	AVG OD	DR	7	7.3	9	11	13.5	15.5	17	19	21	26	32.5
		PR	336	320	252	202	161	139	126	112	101	81	64
6	6.625	Min wall	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.349	0.315	0.255	0.204
		Avg ID	4.619	4.701	5.064	5.348	5.585	5.719	5.799	5.886	5.956	6.085	6.193
		lb/ft	7.305	7.059	5.894	4.930	4.095	3.599	3.307	2.978	2.703	2.209	1.781
7	7.125	Min wall							0.419	0.375	0.339	0.274	0.219
		Avg ID							6.236	6.330	6.406	6.544	6.660
		lb/ft							3.821	3.442	3.128	2.553	2.057
8	8.625	Min wall	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.454	0.411	0.332	0.265
		Avg ID	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.663	7.754	7.922	8.062
		lb/ft	12.385	11.963	9.988	8.359	6.939	6.100	5.597	5.044	4.591	3.744	3.012
10	10.750	Min wall	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.566	0.512	0.413	0.331
		Avg ID	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.551	9.665	9.873	10.049
		lb/ft	19.245	18.581	15.515	12.983	10.774	9.490	8.695	7.838	7.128	5.805	4.689
12	12.750	Min wall	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.671	0.607	0.490	0.392
		Avg ID	8.889	9.047	9.747	10.293	10.748	11.006	11.160	11.327	11.463	11.710	11.918
		lb/ft	27.062	26.138	21.837	18.267	15.155	13.348	12.238	11.021	10.023	8.169	6.587
14	14.000	Min wall	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.737	0.667	0.538	0.431
		Avg ID	9.760	9.934	10.702	11.302	11.801	12.085	12.254	12.438	12.587	12.858	13.087
		lb/ft	32.635	31.511	26.329	22.030	18.279	16.082	14.763	13.292	12.093	9.848	7.952
16	16.000	Min wall	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.842	0.762	0.615	0.492
		Avg ID	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.215	14.385	14.695	14.956
		lb/ft	42.629	41.157	34.364	28.777	23.872	21.005	19.269	17.355	15.789	12.866	10.375
18	18.000	Min wall	2.571	2.466	2.000	1.636	1.333	1.161	1.059	0.947	0.857	0.692	0.554
		Avg ID	12.549	12.773	13.760	14.531	15.173	15.538	15.755	15.992	16.183	16.532	16.826
		lb/ft	53.940	52.089	43.513	36.403	30.210	26.584	24.395	21.959	19.977	16.286	13.142

Table continues next page.

AquaFuse HDPE Piping Systems (continued)

IPS Size (inch)	AVG OD	DR	7	7.3	9	11	13.5	15.5	17	19	21	26	32.5
		PR	336	320	252	202	161	139	126	112	101	81	64
20	20.000	Min wall	2.857	2.740	2.222	1.818	1.481	1.290	1.176	1.053	0.952	0.769	0.615
		Avg ID	13.943	14.192	15.289	16.145	16.859	17.265	17.506	17.768	17.981	18.369	18.695
		lb/ft	66.599	64.307	53.715	44.947	37.294	32.820	30.102	27.129	24.658	20.109	16.211
22	22.000	Min wall	3.143	3.014	2.444	2.000	1.630	1.419	1.294	1.158	1.048	0.846	0.677
		Avg ID	15.337	15.611	16.818	17.760	18.545	18.991	19.256	19.545	19.779	20.206	20.565
		lb/ft	80.591	77.812	64.991	54.391	45.149	39.712	36.433	32.818	29.858	24.335	19.629
24	24.000	Min wall	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.263	1.143	0.923	0.738
		Avg ID	16.731	17.030	18.347	19.375	20.231	20.717	21.007	21.322	21.577	22.043	22.434
		lb/ft	95.916	92.603	77.365	64.735	53.726	47.260	43.369	39.049	35.525	28.963	23.344
26	26.000	Min wall		3.562	2.889	2.364	1.926	1.677	1.529	1.368	1.238	1.000	0.800
		Avg ID		18.449	19.876	20.989	21.917	22.444	22.758	23.099	23.375	23.880	24.304
		lb/ft		110.769	92.535	77.440	64.261	56.532	51.856	46.701	42.486	34.648	27.940
28	28.000	Min wall			3.111	2.545	2.074	1.806	1.647	1.474	1.333	1.077	0.862
		Avg ID			21.404	22.604	23.603	24.170	24.508	24.876	25.173	25.717	26.174
		lb/ft			107.312	89.785	74.522	65.563	60.154	54.189	49.266	40.187	32.421
30	30.000	Min wall			3.333	2.727	2.222	1.935	1.765	1.579	1.429	1.154	0.923
		Avg ID			22.933	24.218	25.289	25.897	26.259	26.653	26.971	27.554	28.043
		lb/ft			123.183	103.076	85.543	75.264	69.068	62.196	56.585	46.135	37.196
32	32.000	Min wall			3.556	2.909	2.370	2.065	1.882	1.684	1.524	1.231	0.985
		Avg ID			24.462	25.833	26.975	27.623	28.009	28.429	28.770	29.391	29.913
		lb/ft			140.183	117.285	97.324	85.672	78.557	70.755	64.370	52.494	42.340
34	34.000	Min wall				3.091	2.519	2.194	2.000	1.789	1.619	1.308	1.046
		Avg ID				27.447	28.661	29.350	29.760	30.206	30.568	31.228	31.782
		lb/ft				132.411	109.905	96.714	88.700	79.865	72.657	59.264	47.773

Table continues next page.

AquaFuse HDPE Piping Systems (continued)													
IPS Size (inch)	AVG OD	DR	7	7.3	9	11	13.5	15.5	17	19	21	26	32.5
		PR	336	320	252	202	161	139	126	112	101	81	64
36	36.000	Min wall				3.273	2.667	2.323	2.118	1.895	1.714	1.385	1.108
		Avg ID				29.062	30.347	31.076	31.511	31.983	32.366	33.065	33.652
		lb/ft				148.454	123.208	108.424	99.457	89.571	81.446	66.444	53.581
36	36.000	Min wall				3.273	2.667	2.323	2.118	1.895	1.714	1.385	1.108
		Avg ID				29.062	30.347	31.076	31.511	31.983	32.366	33.065	33.652
		lb/ft				148.454	123.208	108.424	99.457	89.571	81.446	66.444	53.581
42	42.000	Min wall					3.111	2.710	2.471	2.211	2.000	1.615	1.292
		Avg ID					35.404	36.255	36.762	37.314	37.760	38.575	39.260
		lb/ft					167.675	147.568	135.372	121.925	110.874	90.393	72.893
48	48.000	Min wall						3.097	2.824	2.526	2.286	1.846	1.477
		Avg ID						41.435	42.014	42.644	43.154	44.086	44.869
		lb/ft						192.774	176.813	159.198	144.833	118.082	95.233
54	54.000	Min wall							3.176	2.842	2.571	2.077	1.662
		Avg ID							47.266	47.975	48.549	49.597	50.478
		lb/ft							223.713	201.502	183.253	149.464	120.556

* For pipes larger than 54", please call **CMF Global** at **1-619-869-8919** for specifications and availability.

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