

NSF/ANSI Standard 61 -  
Drinking Water System Components

## HDPE Ball Valve Series

AquaFuse® brand provides you with a full line of High Density PE Ball Valves for Water, Agricultural, Irrigation and Sewer applications.

A full range of valves are available in Standard and Full port configuration. AquaFuse valves are available in sizes from 1/2 CTS through 16 IPS.

### ENGINEERING SPECIFICATION

#### AquaFuse Valve Sample Engineering Spec

All valves shall be ball valve type constructed from High Density Polyethylene PE 4710 and manufactured in accordance with ASTM D2513 ASMEB16.40, CFR 49 Part 192 and CSAB137.4. Manufacturing facility must be ISO 9001 certified. All valves must be serialized for complete material and process traceability. Valve should maintain a bubble tight seal throughout the entire pressure and temperature range and provide blow-out proof stem and Seal design. Valves shall be temperature rated -20°F – 140°F Valve body must provide resistance to mechanical and thermal loads as supplied by AquaFuse.



### REFERENCE INFORMATION

Part Number	Description
AFBV0050Y-MFN0-000	AquaFuse .5" IPS Ball Valve 4710 DR11 Full Port
AFBV0060Y-MFN0-000	AquaFuse .75" IPS Ball Valve 4710 DR11 Full Port
AFBV0070Y-MFN0-000	AquaFuse 1" IPS Ball Valve 4710 DR11 Full Port
AFBV0080Y-MFN0-000	AquaFuse 1.25" IPS Ball Valve 4710 DR11 Full Port
AFBV0090Y-MFN0-000	AquaFuse 1.5" IPS Ball Valve 4710 DR11 Full Port
AFBV0200Y-MFN0-000	AquaFuse 2" IPS Ball Valve 4710 DR11 Full Port
AFBV0300Y-MFN0-000	AquaFuse 3" IPS Ball Valve 4710 DR11 Full Port
AFBV0400Y-MFN0-000	AquaFuse 4" IPS Ball Valve 4710 DR11 Full Port
AFBV0600Y-MFN0-OBP	AquaFuse 6" IPS Ball Valve 4710 DR11 Full Port W/ByPass
AFBV0800Y-MFN0-OBP	AquaFuse 8" IPS Ball Valve 4710 DR11 Full Port W/ByPass
AFBV1000Y-MFN0-OBP	AquaFuse 10" IPS Ball Valve 4710 DR11 Full Port W/ByPass
AFBV1200Y-MFN0-OBP	AquaFuse 12" IPS Ball Valve 4710 DR11 Full Port W/ByPass
AFBV1400Y-MFN0-OBP	AquaFuse 14" IPS Ball Valve 4710 DR11 Full Port W/ByPass
AFBV1600Y-MFN0-OBP	AquaFuse 16" IPS Ball Valve 4710 DR11 Full Port W/ByPass

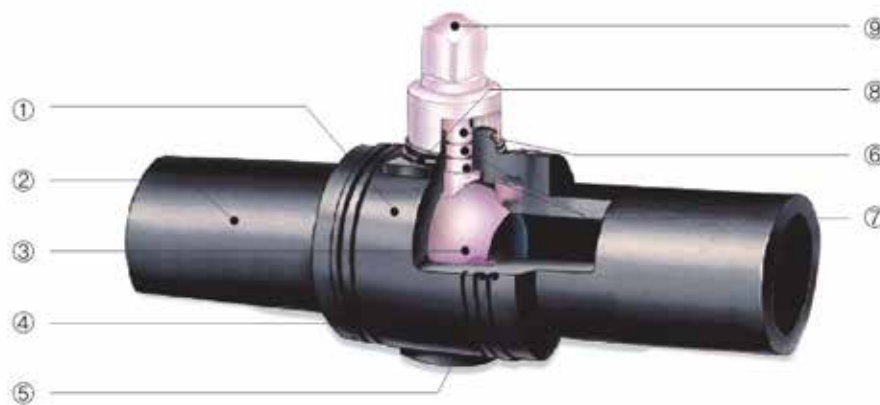


**NOTE:** All AquaFuse ball valves far exceed the minimum requirements set forth by ASME B16.40, AWWA C901 and AWWA C906. Please contact your AquaFuse representative for a complete Test Data Package (TDP) that includes more detail on the testing that was performed.

**Fusion We Trust™** AquaFuse™ by CMF GLOBAL [www.aqua-fuse.com](http://www.aqua-fuse.com)  
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 PRODUCT INSTALLATION TRAINING AVAILABLE



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## MATERIALS OF CONSTRUCTION

Number	Component	Material	Operating Feature
1	Body	Polyethylene	PE 4710 (PE 100)
2	End	Polyethylene	PE 4710 (PE 100)
3	Ball	Acetal/polypropylene	Excellent Strength & Thermal Resistance
4	Retainer	Polypropylene	Positive Seal under any condition, retains
5	Ball Seat	Nitrile (Hnbr)	Reliable Sealing from -20° F to 140° F
6	Stem	Acetal	Excellent Durability & Strength
7	Stem Seal	Nitrile (Hnbr)	Redundant Sealing with Dual O-rings
8	Weather Seal	Nitrile (Hnbr)	Protects from Ground Water and Dirt
9	Operator Nut	Polypropylene	2 inch (50mm) Square or Hexagon

## GENERAL INFORMATION

Item	Operating Feature
Sizes	All standard 1/2 through 1-1/4 CTS and 1/2 through 16 IPS sizes All standard 20mm through 400mm Metric sizes
Designed/Tested	ASTM D 2513, ASME B16.40, CFR 49, Part 192, CSA B137.4
Materials	High Density PE 4710
Operating Pressure (SDR11)	PE 4710 200 psi
Temperature	From -20 F to 140 F, From -20 F to 140 F
Bore	Standard (Reduced) Port and Full Port
Pipe Connection	Butt Fusion, Socket Fusion, Electrofusion
Operation	90 Degree Operating Standard (360 Optional)
Valve Boxes	AquaFuse Valves are supported by all the leading Valve Box Manufacturers

**NOTE:** The AquaFuse valve utilizes specially compounded Nitrile (HNBR) seals, unique in the industry. HNBR = Hydrogenated Nitrile Rubber, known for its excellent high temperature performance, high tensile strength, as well as high resistance to fuels, oils, solvents and ozone.