



FIRE PROTECTION PRODUCTS





FIRE PROTECTION PRODUCTS

ANGULAR EXPANSION JOINTS ► GIMBAL TYPE SEISMIC EXPANSION JOINTS



Bellow Material
 Nominal Diameter
 Operating Pressure
 Operating Temperature
 Connection Types
 Flange Material
 Intermediate Pipe

Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
 DN15 (1/2") - DN4000 (160")
 175 psi
 -80°C/+600°C
 Fixed Flanged, Welded Ended, Grooved
 Carbon Steel St. 37.2 as standard*
 Carbon Steel St. 37.2 as standard*



BRAIDED LOOP JOINTS ► FIRE PROTECTION EXPANSION JOINTS



Bellow Material
 Braiding Material
 Nominal Diameter
 Operating Pressure
 Operating Temperature
 Connection Types
 Fittings Materials
 Elbow and Turn Material
 Connection Material

Stainless Steel AISI 316L / AISI 321
 Stainless Steel AISI 304
 DN15 (1/2") - DN300 (12")
 175 / 250 psi
 -80°C/+600°C
 Flange, Welded ends, Grooved
 Carbon Steel St. 37.2*
 Carbon Steel St. 37.2*
 Carbon Steel St. 37.2*



FIRE PROTECTION HOSES ► SPRINKLER CONNECTION HOSES



FM, VdS Approved, UL Type

Hose Type
 Hose Material
 Braiding Material
 Fittings Types
 Fittings Materials
 Min. Bending Radius

Standard corrugated metal hose
 Stainless Steel AISI 316L
 Stainless Steel AISI 304
 Male-Internal threaded pipe
 Carbon Steel St. 37.2/Stainless Steel
 200mm



Conn. Size	Hose Dia.
1" x 1/2" - 3/4"	DN20
1" - 1/2"	DN25

FIRE PROTECTION VALVES ► NRS GATE VALVE (DIN EN 1171)



Body
 Stem
 Disc
 O-Ring
 Connection
 Flange
 Grooved Ends
 Max. Operating Temp.
 Max. Operating Pressure
 Coating
 Sizes

EN-GJS-450-10
 SS 420
 EN-GJS-450-10 + EPDM
 NBR (EPDM Optional)
 Flange-Flange, Flange-Grooved, Grooved-Grooved
 DIN EN 1092-2:1997
 ISO 6182
 80 °C
 PN 10/16
 Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
 DN 40 (1 1/2") - DN 400 (16")



FIRE PROTECTION VALVES ► OS&Y GATE VALVE (DIN EN 1171)



Body
 Stem
 Disc
 O-Ring
 Connection
 Flange
 Grooved Ends
 Max. Operating Temp.
 Max. Operating Pressure
 Coating
 Sizes

EN-GJS-450-10
 SS 420
 EN-GJS-450-10 + EPDM
 NBR (EPDM Optional)
 Flange-Flange, Flange-Grooved, Grooved-Grooved
 DIN EN 1092-2:1997
 ISO 6182
 80 °C
 PN 10/16
 Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
 DN 50 (2") - DN 300 (12")



FIRE PROTECTION VALVES ► Y-TYPE STRAINER



Body
 Screen
 Gasket
 Bonnet
 Connection
 Max. Operating Temp.

 Max. Operating Pressure
 Coating
 Sizes

EN-GJS-450-10
 SS 304 Perforated, (Perforated double screen in SS 304 and SS 316 available)
 EPDM, (Graphite + Acanthopore plate available)
 EN-GJS-450-10
 Flanged, DIN EN 1092-2:1997
 80 °C (Rubber Gasket)
 350 °C (Graphite gasket)
 PN 10/16
 Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
 DN 40 (1½") - DN 400 (16")



FIRE PROTECTION VALVES ► SWING CHECK VALVE DIN EN 12334



Body
 Disc
 Washer
 Seat Ring
 Connection
 Max. Operating Temp.

 Max. Operating Pressure
 Coating
 Sizes

EN-GJS-450-10
 EN-GJS-450-10 + EPDM
 SS 420
 Brass Hpb 59-1 Pressed fit, (Pressed fit or threaded SS 304 or 316 available)
 Flanged, DIN EN 1092-2:1997
 80 °C (Rubber Gasket)
 350 °C (Graphite gasket)
 PN 10/16
 Fusion Bonded Epoxy coating in accordance with ANSI/AWWA C550
 DN 40 (1½") - DN 400 (16")



FIRE PROTECTION VALVES ► BRONZE BUTTERFLY VALVES



Body
 Disc
 Upper and Lower Stem
 O-Rings (All)
 Connection
 Max. Operating Temp.
 Max. Operating Pressure
 Sizes

ASTM B-505 or SUS 304
 ASTM B-584 EPDM Encapsulated
 ASTM A-564 Type XM 12
 EPDM Grade E
 Threaded, BT
 120 °C
 175 Psi
 DN 25 (1") - DN 65 (2½")



FIRE PROTECTION VALVES ► GROOVED BUTTERFLY VALVES



Body
 Disc
 Upper and Lower Stem
 Worm Gear Shaft
 Connection
 Max. Operating Temp.
 Max. Operating Pressure
 Sizes

ASTM A-536 Nylon-11 or Epoxy coated
 ASTM A-536 EPDM Encapsulated
 SS, AISI 420
 SS, AISI 410
 HPG Grooved End
 120 °C
 300 Psi
 DN 65 (2½") - DN 300 (12")



FIRE PROTECTION VALVES ► WAFER TYPE BUTTERFLY VALVES



Body
 Disc
 Upper and Lower Stem
 Worm Gear Shaft
 Connection
 Max. Operating Temp.
 Max. Operating Pressure
 Sizes

ASTM A-536 Nylon-11 or Epoxy coated with EPDM Gasket
 ASTM A-536 EPDM Encapsulated
 SS, AISI 420
 SS, AISI 410
 Wafer
 120 °C
 300 Psi
 DN 65 (2½") - DN 200 (8")



FIRE PROTECTION VALVES ► GROOVED CHECK VALVES



Body
 Clapper

 Seat Ring
 Spring
 Connection
 Max. Operating Temp.
 Max. Operating Pressure
 Sizes

Ductile Iron conforming to ASTM A536, Epoxy coated
 2"-5" Type 304 or 302 Stainless Steel acc to ASTM A167
 6"-8" Ductile Iron conforming to ASTM A536 Grade 65-45-12
 SS, AISI 304
 Type 302 stainless steel to ASTM A 269
 Grooved End
 120 °C
 300 Psi
 DN 50 (2") - DN 200 (8")





FIRE PROTECTION PRODUCTS

FIRE PROTECTION VALVES ► WET ALARM VALVE & SYSTEM



Body (Wet alarm Valve)
 Seat (Wet alarm Valve)
 Clapper Bush (Wet alarm Valve)
 Connection
 Max. Operating Pressure
 Sizes

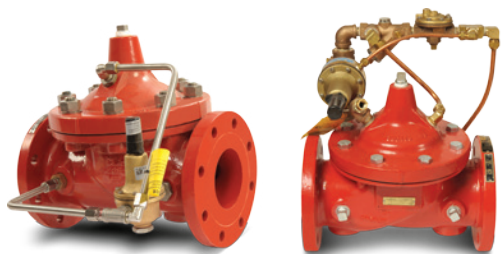
System Components

Ductile Iron
 Bronze
 Brass
 Flange-Flange, Flange-Grooved, Grooved-Grooved
 250 Psi
 DN 80 (3") - DN 200 (8")

Wet Alarm valve
 Pressure Switch
 Retarding Chamber
 Trim Set
 Sprinkler Alarm



FIRE PROTECTION VALVES ► CLA-VAL PRESSURE RELIEF & REDUCING VALVE



Main valve body & cover
 Main valve internal trim
 Pilot control system
 Adjustment pressure range

Temperature Range
 Sizes

Flange

Ductile Iron ASTM A-536
 Bronze ASTM B61
 Bronze ASTM B62 with 303 Stainless Steel trim
 150 class - 30-165 psi
 300 class - 30-165 psi
 Water, to +180°F max.
 Globe: 3" - 8"
 Angle: 3" - 8"
 150 and 300 ANSI B16.42



FIRE PROTECTION VALVES ► TEST DRAIN VALVE

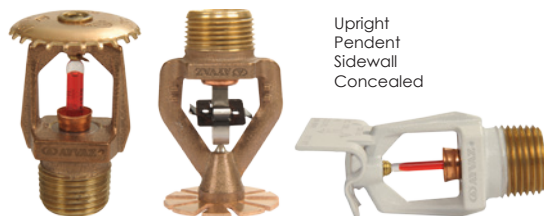


Body
 Ball
 Seat
 Connection
 Max. Operating Pressure
 Sizes

Forged Brass
 Chrome Plated
 Teflon
 NPT Threaded, Female
 300 Psi
 1"-1 1/4"-1 1/2"-2"



FIRE PROTECTION EQUIPMENT ► SPRINKLERS



Upright
 Pendent
 Sidewall
 Concealed

Connection Dia
 Installation Pos.
 K-Factor
 Temperature
 Surface

1/2", 3/4", 1" npt
 Pendent, Upright, Sidewall
 40, 80, 115, 160, 200, 242, 320, 363
 57 °C, 68 °C, 74 °C, 96 °C ... 260 °C
 Brass, White, Chrome



FIRE PROTECTION EQUIPMENT ► SYSTEM SENSOR FLOW SWITCH



Sizes

Pressure Rating
 Accessories
 Minimum Flow Rate for Alarm
 Maximum Surge
 Contact Ratings

Conduit Entrances

Steel Pipe schedules 10 to 40, sizes 1" to 8"
 BS 1387 pipe 50mm thru 200mm
 Up to 450 PSI (31 bar)
 A Conventional Trim Trim package for use with the Model F-1 Deluge Valve.
 10 GPM (38 LPM)
 18 FPS (5,5 m/s)
 10.0 Amps at 125/250VAC
 2.5 Amps at 6/12/24VDC Resistive
 Two knockouts provided for 1/2" conduit





FIRE PROTECTION PRODUCTS

FIRE PROTECTION EQUIPMENT ► 100 TONG GROOVED PIPING PRODUCTS

Body
Gasket
Bolt and Nuts
Temperature Range

GGG 40.3 Ductile Iron
EPDM (Standard)
Galvanized Carbon Steel
-50/+150 °C



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CONCENTRIC REDUCERS



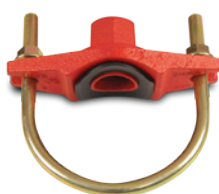
RIGID COUPLINGS



FLEXIBLE COUPLINGS



U-BOLTS



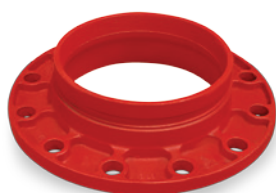
GROOVED FLANGES



REDUCING COUPLINGS



FLANGE ADAPTERS



ELBOWS



GROOVED MECHANICAL T



THEADED MECHANICAL T



Gasket Material	Temperature	Application Areas
EPDM	-34 °C +150 °C	Cold and hot water, non-oil gas, diluted acid, alkaline salt
Silicon	-40 °C +177 °C	Drinking water, hot water, high-temperature air and some high-temperature chemicals
Nitrile	-29 °C +82 °C	Oil, oil-gas, mineral oil, vegetable oil, hot water, water with temperature of not than 65°C are forbidden

FIRE PROTECTION EQUIPMENT ► FIRE HYDRANTS



Body & Elbow
Stem
Gasket
Size
Pressure Class

Cast Iron GG-25
Stainless Steel
EPDM
DN 100
PN 16

FIRE HOSE VALVES



Body
Size
Accessories

Brass
2½" NPT, threaded
Storz Coupling (1)

STORZ COUPLINGS



FIRE PROTECTION PRODUCTS



HEAD OFFICE - FACTORY

Atatürk Sanayi Bölgesi Hadımköy Mahallesi Mustafa İnan Caddesi No: 44 Arnavutköy - İSTANBUL
Tel: +90 212 771 01 45 (pbx) | Fax: +90 212 771 25 60

Caserta/Italy
Tel: +39 0823 187 3988
rmolaro@ayvaz.com

Moscow/Russia
Tel: +74959951728
ayvazrus@ayvaz.com

Viernheim/Germany
Tel: +49 62046014399
germany@ayvaz.com

Kiev/Ukraine
Tel: +380 44 390 57 57
info@ayvaz.com.ua

Sao Paulo/Brazil
Tel: +551 194 500 4123
brazil@ayvaz.com

Dubai /U.A.E
Tel: +971 48808671
+971 501306871
mideast@ayvaz.com

info@ayvaz.com | www.ayvaz.com