



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)
DN25 - DN 300 FM Approved
DN350- DN 5000 on request
175 psi /250 psi
-10°C/+550°C
Fixed Flanged, Welded End, Grooved, Threaded
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 Material
Elbow and Turn Material
Connection Material

Stainless Steel AISI 321 (Opt. 304, 316L, 316Ti, 309)
Stainless Steel AISI 304
DN25 - DN 300 FM Approved
DN350- DN 600 on request
175 psi /250 psi
-10°C/+550°C
Flanged, Welded End, Grooved, Threaded
Carbon Steel St. 37.2
Carbon Steel St. 37.2
Carbon Steel St. 37.2

FIRE PROTECTION HOSES ► SPRINKLER CONNECTION HOSES

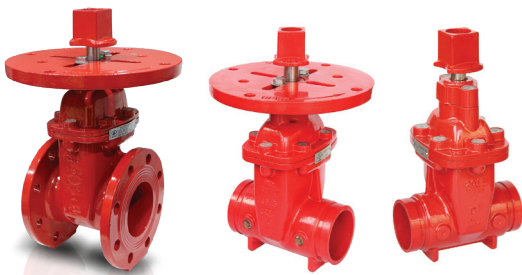


FM, Vds Approved, UL Type

Hose Type Standard corrugated metal hose
Hose Material Stainless Steel AISI 316L
Braiding Material Stainless Steel AISI 3047
Fittings Types Inlet 1" Male Outlet 1/2" Female
Fittings Material Galvanized Coated Carbon Steel St. 37.2
Min. Bending Radius 200 mm

Hose Dimensions			
(UL Approved)		(FM and Vds Approved)	
Connection	Length (mm)	Connection	
Main Pipeline	Sprinkler	Main Pipeline	Sprinkler
DN 20 (1") x 1/2" DN 25 1" x 1/2"	500	DN20 (3/4") x 1/2" DN20 (1") x 1/2"	
	700		
	1000		
	1200	DN25 (3/4") x 1/2" DN25 (1") x 1/2"	
	1500		
	2000		

FIRE PROTECTION VALVES ► NRS GATE VALVE



Size 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
Body ASTM A536, 65-45-12
Stem Stainless Steel
Disc ASTM A536, 65-45-12 & EPDM
O-Ring NBR
Connection Flange diameter and thickness according to ANSI B16.1 Class 125
EN1092-2 PN10 or EN1092-2 PN16
Grooved metric or AWWA C606 standard
Working Pressure 20,7 bar (300psi)
Max. Test Pressure 41,4 bar (600psi)
Working Temperature 0 - 80 °C

FIRE PROTECTION VALVES ► OS&Y GATE VALVE



Size :2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
Body ASTM A536, 65-45-12
Stem AISI 420
Disc ASTM A536, 65-45-12 & EPDM
O-Ring EPDM
Working Pressure 20,7 bar (300psi)
Max. Test Pressure 41,4 bar (600psi)
Working Temperature 0 - 80°C
Connection: Flange diameter and thickness according to ANSI B16.1 Class 125,
EN1092-2 PN10 or EN1092-2 PN16"
Grooved metric or AWWA C606 standard

OUTSIDE SCREW & YOKE BRONZE GATE VALVES ► BRONZE THREADED OS&Y GATE VALVE



Size
Body
Stem
Disc
Working Pressure
Max. Test Pressure
Working Temperature

¾", 1", 1 ¼", 1 ½", 2"
Bronze ASTM C83600
Brass
Bronze ASTM C83600
12 bar (175psi)
24 bar (350psi)
0 - 80°C



FIRE PROTECTION VALVES ► GROOVED BUTTERFLY VALVES



Body
Disc
Stem
O-Ring
Size
Working Pressure
Max. Test Pressure
Max. Working Temperature
Connection
Specifications

ASTM A536,65-45-12
ASTM A536,65-45-12+EPDM
SS431
Commercial
2", 2 ½", 3", 4", 5", 6", 8", 10", 12"
20.7 bar (300psi)
41.3 bar (600psi)
0-80°C (32-176°F)
Grooved ISO 6182
Fusion bonded epoxy coating complies with ANSI/AWWA C550



FIRE PROTECTION VALVES ► WAFER TYPE BUTTERFLY VALVES



Body
Disc
Stem
O-Ring
Size
Working Pressure
Max. Test Pressure
Max. Working Temperature
Connection
Specifications

ASTM A536,65-45-12
ASTM A536,65-45-12+EPDM
SS431
Commercial
2", 2 ½", 3", 4", 5", 6", 8", 10", 12"
20.7 bar (300psi)
41.3 bar (600psi)
0-80°C (32-176°F)
Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16
Fusion bonded epoxy coating complies with ANSI/AWWA C550



FIRE PROTECTION VALVES ► BRONZE BUTTERFLY VALVES



Body:
Disc:
Handwheel:
Seat:
Working Pressure:
Max. Test Pressure:
Working Temperature:
Size:

Bronze ASTM 584 C83600
SS304 SHEET STAMPING
ASTM A216 WCB/ DUCTILE IRON ASTM A536
ASTM D2000 VITON
20.7 bar(300psi)
41.2 bar(600psi)
0-80 °C (32-176 ° F)
1 1/4" - 2 1/2" Grooved Type
1"- 2 1/2" Threaded Type



FIRE PUMP FLOWMETER SYSTEM ► VENTURI FLOW TEST METER



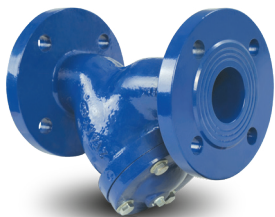
Body
Operation
Accuracy
Temperature
Pressure
Weight
Size

Aluminium
Diaphragm
+%2 Full Scale
80°C
500 PSI
1.7 kg
4" Dial



FIRE PROTECTION PRODUCTS

VALVES ► PTY-30 STRAINERS



Body and Cover
Filter
Gasket
Connection
Max. Working Pressure
Max. Working Temperature

Ductile Iron
AISI 304 Stainless Steel
Graphite
Flanged
16 bar
200 °C

SUPERVISORY SWITCHES ► OS&Y SUPERVISORY SWITCH



Max. Operating Pressure: 300 psi
Maximum Adjustment Pressure Range 4 to 20 psi



FIRE PROTECTION VALVES ► WET ALARM VALVE & SYSTEM



Size
Max. Working Pressure
Mounting
Flange Connection
Test Pressure
End Connection

3", 4", 6" & 8":
17.5 bar (250 PSI)*
Vertical
ANSI B16.42 #150
35 bar (500PSI)
Flange X Flange
Flange X Groove Groove X Groove

System Components

Wet Alarm valve
Pressure Switch
Retarding Chamber
Trim Set
Sprinkler Alarm



CHECK VALVES ► SWING CHECK VALVE FLANGED



Size
Body
Disc
Washer
Seat Ring
Connection

2", 2 1/2", 3", 4", 6", 8", 10", 12"
ASTM A536 65-45-12
ASTM A536 65-45-12
ASTM B62
ASTM B62
Flange diameter and thickness according to ANSI B16.1 Class 125,
EN1092-2 PN10 or EN1092-2 PN16
Working Pressure 20,7 bar (300psi)
Max. Test Pressure 41,4 bar (600psi)
Working Temperature 0 - 80°C

Working Pressure
Max. Test Pressure
Working Temperature



FIRE PROTECTION VALVES ► GROOVED CHECK VALVES

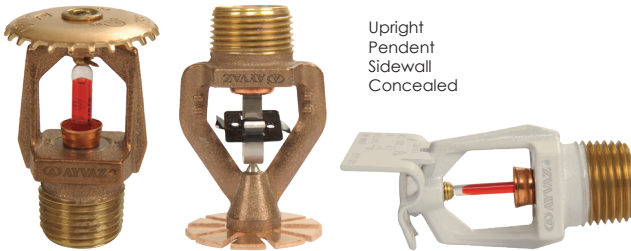


Body
Clapper
Seat Ring
Spring
Connection
metric or AWWA C606

ASTM A 536 GR. 65-45-12
EPDM coated ductile iron
ASTM B62 C83600
AISI 304
Grooved joint dimensions are made in accordance with



FIRE PROTECTION EQUIPMENT ► SPRINKLERS



Upright
Pendent
Sidewall
Concealed

Size
K Factor
Installation Position
Temperature
Surface

1/2" npt
5.6(80)
Pendent, Upright, Sidewall
57 °C(135 °F), 68 °C(155°F), 79 °C(175°F), 93 °C(200°F)
Brass, Chrome, White Polyester

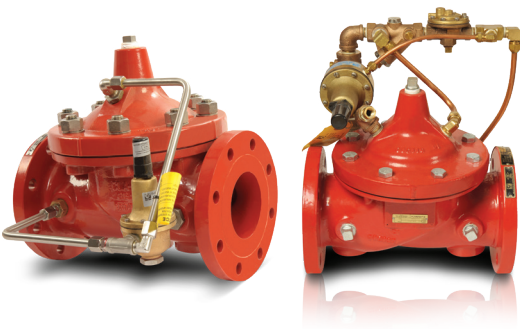
FIRE PROTECTION EQUIPMENT ► SYSTEM SENSOR FLOW SWITCH



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 VALVES ► CLA-VAL PRESSURE RELIEF & REDUCING VALVE FLANGED



Main Valve Body & Cover
Main Valve Internal Trim
Pilot Control System & Pilot Control Valve
Pressure Adjustment Range

Temperature Range
Sizes:

Ductile Iron - ASTM A536
Bronze ASTM B61
Bronze ASTM B62 with Stainless Steel 303 internal trim
Class 175 lb. 30 - 165PSI
Class 300 lb. 30 - 165PSI
Water to 82°C (180°F) Max.
Class 175 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)
Class 300 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)

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



Main Valve Body & Cover
Main Valve Internal Trim
Pilot Control System & Pilot Control Valve
Pressure Adjustment Range

Temperature Range
Sizes:

Ductile Iron - ASTM A536
Bronze ASTM B61
Bronze ASTM B62 with Stainless Steel 303 internal trim
Class 175 lb. 30 - 165PSI
Class 300 lb. 30 - 165PSI
Water to 82°C (180°F) Max.
Class 175 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)
Class 300 lb. 40 mm - 200 mm (Globe) 50 mm - 150 mm (Angle)

FIRE PROTECTION PRODUCTS

TEST AND DRAIN VALVES ► TEST AND DRAIN VALVE / MODEL STDV



Body
Ball
Ball Seat
Connection
Rated Pressure
Size

Brass
Brass
TFM
Threaded (F x F)
300PSI
1" - 1 1/4" - 1 1/2" - 2"

TEST AND DRAIN VALVES ► TEST AND DRAIN VALVE / MODEL GTDV



Body
Ball
Ball Seat
Connection
Rated Pressure
Size

Brass
Brass
TFM
Grooved
300PSI
1 1/4" - 1 1/2" - 2"

FIRE HOSE CABINETS ► OUTDOOR FIRE HYDRANT CABINETS



SPRINKLER ACCESSORIES



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



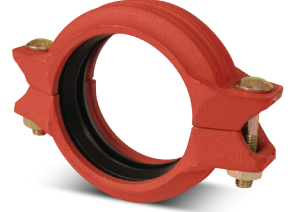
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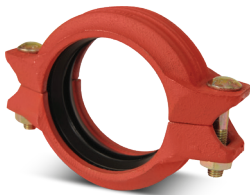
CONCENTRIC REDUCERS



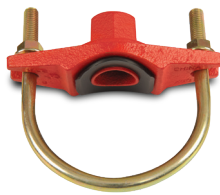
RIGID COUPLINGS



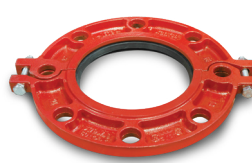
FLEXIBLE COUPLINGS



U-BOLTS



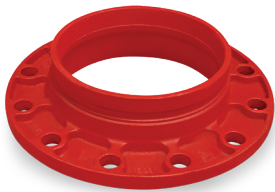
GROOVED FLANGES



REDUCING COUPLINGS



FLANGE ADAPTERS



ELBOWS



GROOVED MECHANICAL T



THREADED 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

Size Available
Working Pressure
BODY

1 1/2" - 2 1/2"
20.6 (300psi)
ASTM B584 C85700

STORZ COUPLINGS



FIRE PROTECTION PRODUCTS



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