



BLAZE



Pressure Relief Valve

Model : BT 5931A

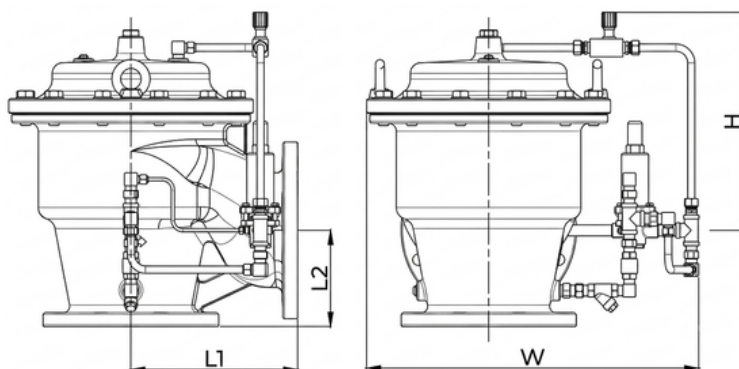
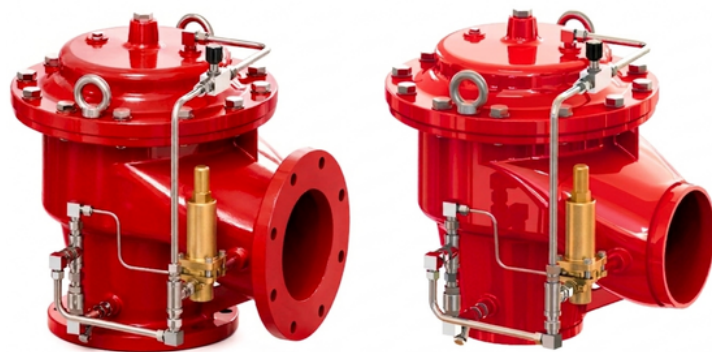
Description:

The BT 5931A Angle Pressure Relief Valve is a pilot-operated automatic control valve designed to protect fire protection pumping systems from excessive pressure. Installed in an angle-pattern body, it automatically relieves excess discharge pressure and maintains a constant system pressure as flow demand changes. Its accurate pressure regulation ensures reliable system performance, protects pumps and piping from overpressure, and enhances overall system safety. The valve is manufactured from high-quality materials for long service life and is available with an epoxy-coated body for superior corrosion resistance in demanding fire protection applications.

The BT 5931A Pressure Relief Valve delivers highly stable pressure control while operating smoothly over a wide flow range. Additionally, its advanced hydraulic design features quick opening capabilities to immediately relieve dangerous pressure spikes, paired with an adjustable closing speed to prevent water hammer and protect the system from sudden shocks.

Specifications :

Size	DN80-DN200 (3" - 8")
Maximum Working Pressure	20.7 bar (300 psi)
Temperature Range	0° C to 80°C (32°F to 176°F)
Approvals	UL 1478 Listed and FM 1361 Approved.
End Connection	Flanged to ANSI Class 150 RF (*ANSI Class 125 / PN 16 Available on Request) Grooved Ends to AWWA C606 Standard.
Coating	FBE Coating in accordance with ANSI / AWWA C550. Average Coating Thickness 250 Microns
Pressure Adjustment Range	65 psi to 300 psi



Dimensions (Angle Type):

Order Code	Size	L1 (mm / inch)	L2 (mm / inch)	H (mm / inch)	W (mm / inch)
BT-5931A-080-300-RF / -GG	3"	149 / 5.9"	110 / 4.3"	265 / 10.5"	455 / 18.0"
BT-5931A-100-300-RF / -GG	4"	185 / 7.3"	130 / 5.1"	310 / 12.2"	470 / 18.5"
BT-5931A-125-300-RF / -GG	5"	218 / 8.6"	140 / 5.5"	360 / 14.2"	490 / 19.3"
BT-5931A-150-300-RF / -GG	6"	265 / 10.4"	155 / 6.1"	380 / 15.0"	540 / 21.3"
BT-5931A-200-300-RF / -GG	8"	326 / 12.8"	190 / 7.5"	450 / 17.8"	590 / 23.2"

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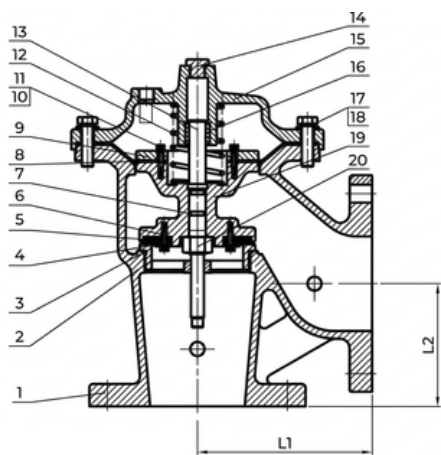


Fig. FL x FL

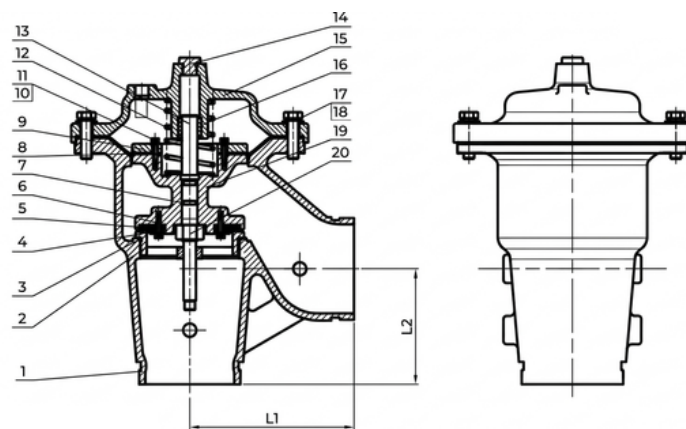


Fig. GR x GR

Material Specifications :

Item	Part Name	Material	ASTM Specification
1	Body	Ductile Iron	A536 Gr. 65-45-12
2	Seat Ring	Stainless Steel	CF8
3	O-Ring	Rubber	EPDM
4	Seal Gland	Stainless Steel	CF8
5	Seal Disc	Rubber	EPDM
6	Bolt	Stainless Steel	ASTM A193 B8
7	O-Ring	Rubber	EPDM
8	Diaphragm	Nylon Reinforced Natural Rubber (NBR optional)	
9	Diaphragm Disc	Ductile Iron	A536 Gr. 65-45-12
10	Screw	Alloy Steel	ASTM A193 B8

Item	Part Name	Material	ASTM Specification
11	Washer	Stainless Steel	ASTM A276 304
12	Spring	Stainless Steel	ASTM A276 304
13	Stem	Stainless Steel	ASTM A276 304
14	Plug	Brass	
15	Bonnet	Ductile Iron	A536 Gr. 65-45-12
16	Guide sleeve	Bronze	B148 C95800
17	Bolt	Stainless Steel	
18	Washer	Stainless Steel	
19	Diaphragm Adapter	Ductile Iron	A536 Gr. 65-45-12
20	Nut	Stainless Steel	ASTM A194 Grade 8

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