



BLAZE



Pressure Relief Valve

Model : BT 5931G

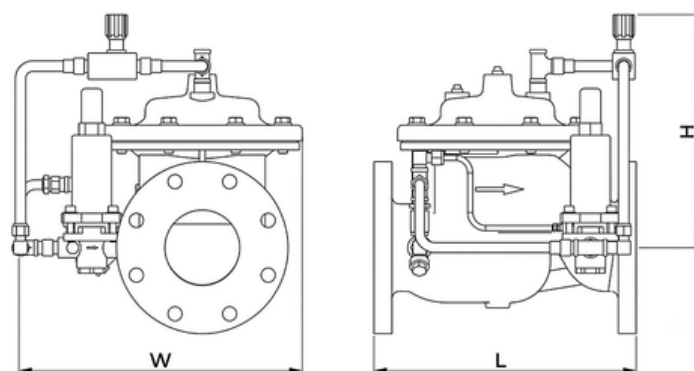
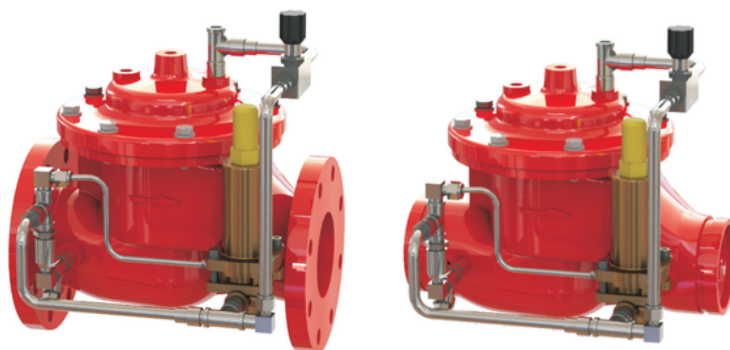
Description:

The BT 5931G Pressure Relief Valve is a hydraulically operated automatic control valve designed to protect fire protection and water distribution systems by relieving excess pressure or maintaining a minimum upstream pressure. It provides stable pressure control over a wide flow range, ensuring reliable system performance. The valve is available with Flanged × Flanged, Flanged × Grooved, and Grooved × Grooved end connections and is coated with Fusion Bonded Epoxy (FBE) for excellent corrosion resistance and long service life.

The BT 5931G 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	DN40-DN300 (1 ½" - 12")
Maximum Working Pressure	20.7 bar (300 psi)
Temperature Range	0° C to 80°C (32°F to 176°F)
Approvals	UL 1478 Listed.
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 (Straight Type):

Order Code	Size	L (mm / inch)			H (mm / inch)	W (mm / inch)
		FL x FL	FL x GR	GR x GR		
BT-5931G-040-300-RF / -GG	1 ½"*	200 / 7.87"	210 / 8.26"	220 / 8.66"	180 / 7.1"	410 / 16.2"
BT-5931G-050-300-RF / -GG	2"*	230 / 9.05"	236 / 9.26"	241 / 9.48"	200 / 7.9"	420 / 16.6"
BT-5931G-065-300-RF / -GG	2 ½"	290 / 11.42"	290 / 11.42"	290 / 11.42"	215 / 8.46"	440 / 17.35"
BT-5931G-080-300-RF / -GG	3"	310 / 12.2"	318 / 12.5"	325 / 12.8"	265 / 10.45"	455 / 18"
BT-5931G-100-300-RF / -GG	4"	350 / 13.78"	366 / 14.4"	381 / 15"	310 / 12.2"	470 / 18.5"
BT-5931G-125-300-RF / -GG	5"	400 / 15.75"	410 / 16.15"	419 / 16.5"	360 / 14.2"	490 / 19.3"
BT-5931G-150-300-RF / -GG	6"	480 / 18.9"	494 / 19.4"	508 / 20"	380 / 15"	540 / 21.25"
BT-5931G-200-300-RF / -GG	8"	600 / 23.6"	623 / 24.5"	645 / 25.4"	450 / 17.75"	590 / 23.23"
BT-5931G-250-300-RF / -GG	10"*	730 / 28.75"	746 / 29.37"	762 / 30"	570 / 22.45"	640 / 25.2"
BT-5931G-300-300-RF / -GG	12"*	850 / 33.46"	875 / 34.44"	900 / 35.43"	690 / 27.2"	690 / 27.2"

Note : Size 1 ½", 2", 10" & 12" are Only FM Approved.

BLAZETECH SYSTEMS LTD.



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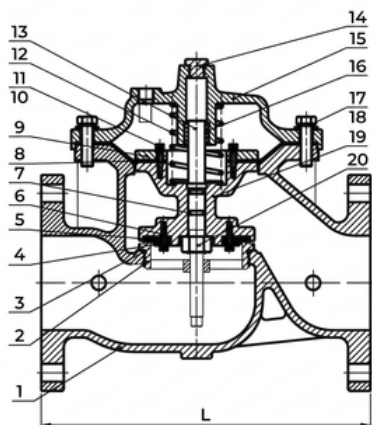


Fig. FL x FL

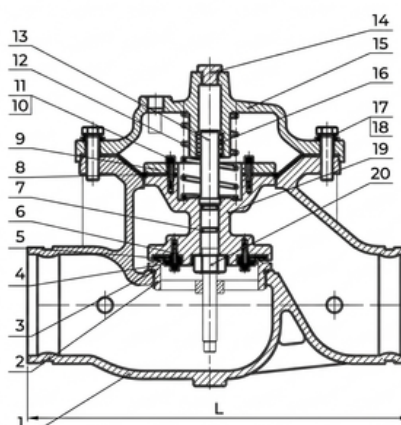
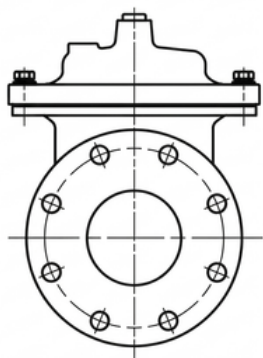
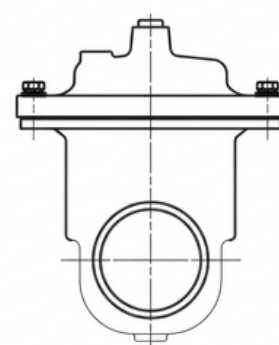


Fig. GR x GR



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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