

## APPLICATIONS

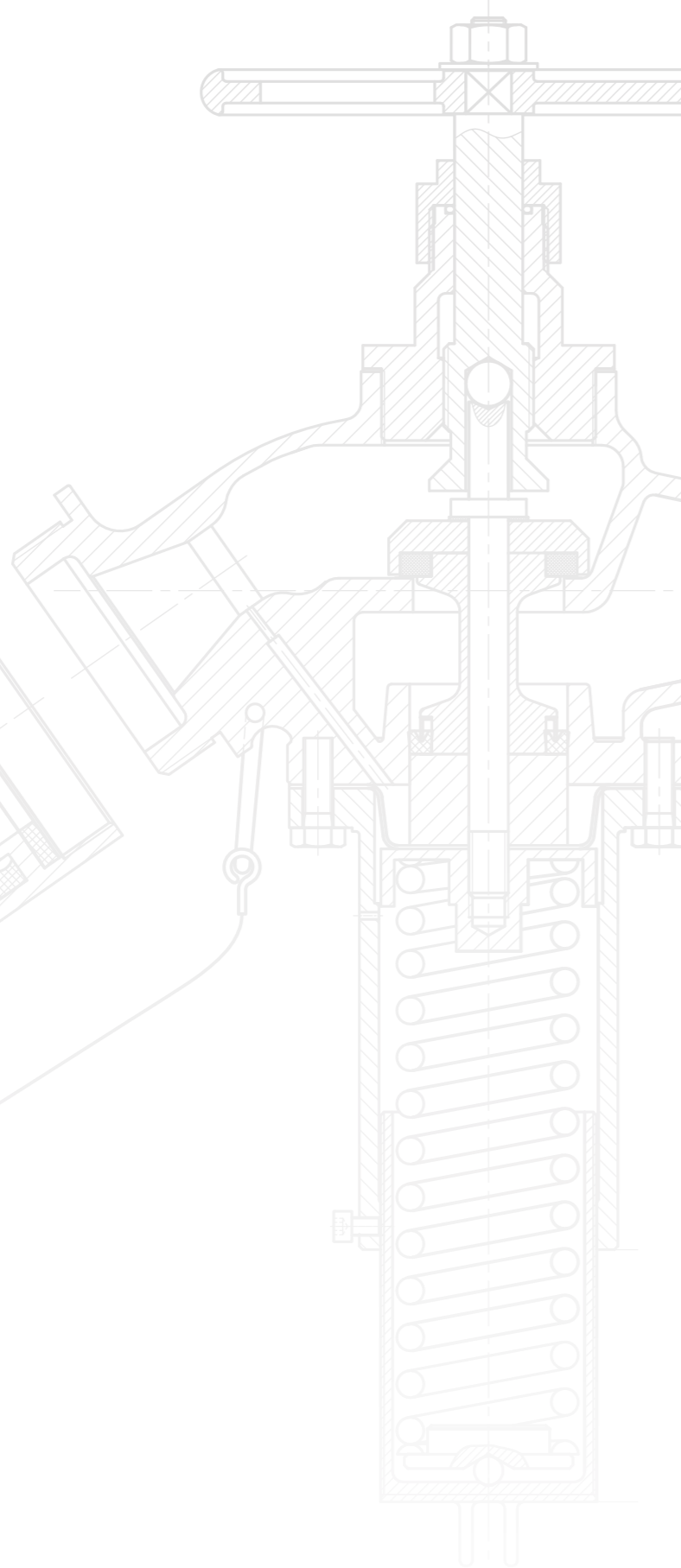
The Class F hose pressure regulator is suitable for:

- Fire mains systems in high rise buildings.
- High pressure systems on oil rig platforms and in oil refineries and chemical plants.
- Hand held hoses and fixed monitors, where individual pressure requirements vary.
- Applications with high pressure drops caused by the length of water mains.
- Applications with low pressure condition produced by pump characteristics.
- Floating production, storage and off-loading (FPSO) vessels.

## FEATURES AND BENEFITS

Designed to meet the needs of modern fire protection technology.

- Maintains a uniform fire fighting pressure at every hydrant in a fire protection system, irrespective of location.
- Accurate pressure control is maintained despite varying flow levels and inlet pressures.
- Greatly reduces installation costs by completely eliminating expensive relief piping systems.
- Individual floor level pressure requirements met by quick and easy in-situ regulator adjustment.
- Sea-water resistant trim incorporated as standard.
- Available in a wide variety of material options, to suit particular applications.



# WHERE SOLIDARITY AND COOPERATION COME TOGETHER.

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# Hose Pressure Regulator

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# Hose Pressure Regulator.

S297

🔧 EASY MAINTENANCE

🔧 ZERO LEAKAGE

🔧 LOW TORQUE

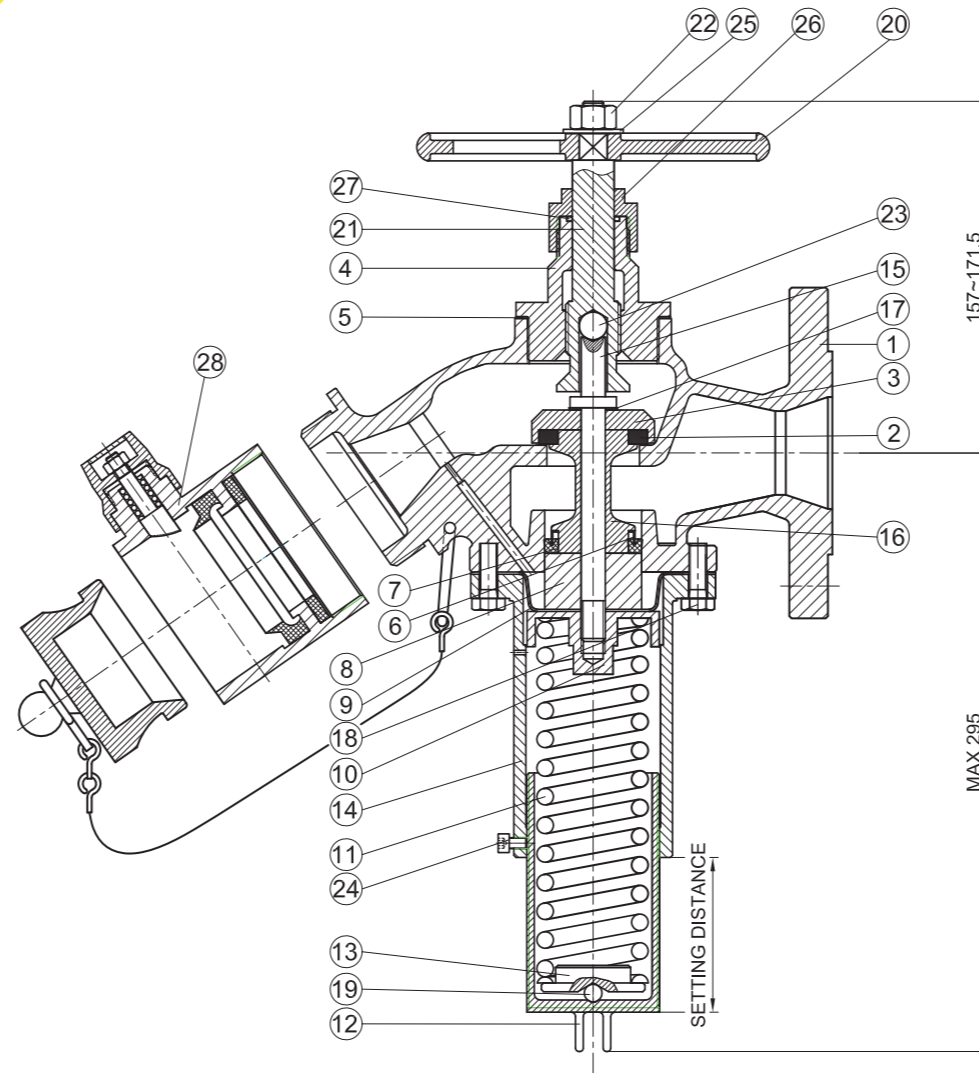
🔧 LONG LIFE TIME

## CLASS F HOSE PRESSURE REGULATOR

The Class F Hose Pressure Regulator combines the features of a fire hydrant valve and a direct acting water pressure regulator, to give a single unit which protects the fire crew from excess pressure in the fire hose which could cause difficulties in handling the hose. High pressure fire systems are to be found in high rise buildings, oil, gas and chemical facilities.

### OPERATION

The Class F hose pressure regulator incorporates a spring loaded "balanced" pressure reducing valve combined with a hydrant stop valve. The stop valve element is operated in exactly the same way as a conventional hydrant stop valve (clockwise rotation to close, anti-clockwise rotation to open). The reducing valve element is opened by the load applied to the pressure adjusting spring and closed by the reduced pressure acting upon the underside of the diaphragm. Under working conditions the balance of these two forces determines the degree of valve opening required to maintain a steady outlet pressure. Accurate pressure control is achieved by a venturi section in the outlet flow area, which ensures that there is a minimal rise in outlet pressure between the fully open and fully closed positions. Under conditions of varying flow rates, the close control of the Class F ensures a uniform fire fighting pressure is maintained at any hydrant in a fire protection system.



### TECHNICAL SPECIFICATION

<b>Size</b>	Valve size is always 1 1/2"	<b>Max</b>	OperatingC 80°C Temperature(°C)
<b>Connections</b>		<b>Test</b>	API 598
<b>Inlet</b>	Standard Flanged 1 1/2" Options Flanged 2, 2 1/2, 3" Available as ANSI 150/300 Flange Connection ASME B16.5 Class 150/300	<b>Inlet Pressure Range</b>	4.8 to 20.7 Barg
<b>Outlet</b>	Standard 2 1/2" BS336 Instantaneous female coupling. Options Screwed 2 1/2" BSP male. To suit internationally recommended adaptors. Thread Connection BSP	<b>Outlet Pressure Range</b>	4.1 to 8.3 Barg
		<b>Materials</b>	The standard valve construction is bronze with aluminium bronze trim, which is used for both fresh water and sea water. This is also available in Titanium and AB2. Our Technical Department will be pleased to advise on other required materials.

### DIMENSIONS

SETTING DISTANCE FOR RANGE OF WORKING PRESSURES			
WORKING PRESSURE	SETTING DISTANCE	WORKING PRESSURE	SETTING DISTANCE
4.1Bar	60.3mm	4.5Bar	55.75mm
5Bar	50mm	5.5Bar	44.25mm
6Bar	38.5mm	6.5Bar	32.75mm
7Bar	27mm	7.5Bar	21.25mm
8Bar	15.5mm	8.3Bar	12.1mm

### MATERIAL LIST

ITEM	QTY	PART NAME	MATERIAL
1	1	Body	6A
2	1	Valve Disc	NBR
3	1	Disc Holder	S32760
4	1	Bonnet	S32760
5	1	Bonnet Joint	NBR
6	1	H.P. Seal Ring	S32760
7	1	High Pressure Seal	NBR
8	1	Distance Piece	S32760
9	1	Diaphragm	NBR+Fabric
10	1	Piston	S32760
11	1	Spring	17-7PH
12	1	Adjusting Screw	CA40
13	1	Adjusting Screw Plate	S.S.316
14	1	Spring Chamber	CF8M
15	1	Valve Stem	S32760
16	1	Valve Stem Sleeve	S32760
17	1	Valve Stem Joint	NBR
18	1	Bolt	S32760
19	1	Adjusting Screw Ball	SILICON NITRIDE
20	1	Handwheel	CF8M
21	1	Handwheel Stem	TA2
22	1	Handwheel Nut	S32760
23	1	Handwheel Stem Ball	SILICON NITRIDE
24	1	Lock Screw	S32760
25	1	Handwheel Washer	S32760
26	1	Gland	S.S.316
27	1	O-ring	NBR
28	1	Quick Coupling	Component