



# Safety Relief Valve

*An Obvious Choice*

## Design Features

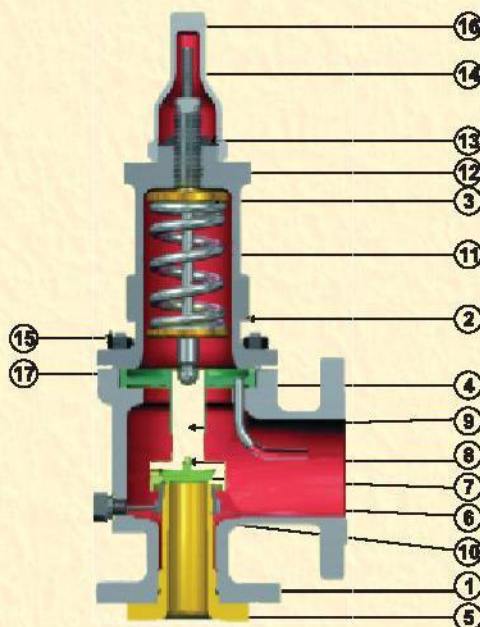
- Manufacturing standard as per : API 526
- Tested as per : API 527
- Ends flanged (drilled & undrilled) as per ANSI : 16.5 Class - 150 R.F.
- Body hydrostatic test pressure twice the set pressure
- Temperature - 425 °C

## While enquiry please specify

- Set pressure
- Flow medium
- Flow rate



Technical Parameters						
Valve Size	Orifice Code	Orifice Dia (mm)	A	B	C	Min. Valve Lift (mm)
25X50	D	9.5	105	114.5	470	3.0
25X50	E	12.5	105	114.5	470	4.0
25X50	G	23.0	105	114.5	470	6.0
40X50	F	16.0	124	120.5	520	4.0
40X65	G	3.0	124	120.5	530	5.0
40X80	H	28.0	130	124.0	530	7.0
40X80	J	32.5	130	124.0	575	8.0
50X80	H	28.0	133	124.0	530	7.0
50X80	J	32.5	133	124.0	575	8.5
65X100	J	32.5	136.5	143.0	595	8.5
80X100	K	41.5	155.5	162.0	690	10.5
80X100	L	50.0	155.5	165.0	690	13.5
100X150	P	72.5	181.0	228.5	900	25.0
150X200	Q	95.5	239.5	241.5	1445	25.0
150X200	R	115.0	239.5	241.5	1445	30.0
200X250	T	146.0	276.0	279.5	1500	37.0



Material of construction			
No.	Parts	Material	Qty.
1.	Body	CF8 / CF8M / WCB	1
2.	Bonnet	CF8 / CF8M / WCB	1
3.	Spring Washer	304 / 316 / M.S.	2
4.	Guide	304 / 316 / M.S.	1
5.	Nozzle	304 / 316	1
6.	Popping Ring	CF8 / CF8M	1
7.	Valve Seat	304 / 316	1
8.	Ball	316	1
9.	Seat Holder	304 / 316 / M.S.	1
10.	Popping Ring Screw	304 / 316	1
11.	Spring	Spring Steel	1
12.	Setting Screw	304 / 316	1
13.	Setting Nut	304 / 316	1
14.	Spindle	304 / 316	1
15.	Stud & Nut	M.S. / S.S.	4
16.	Cap	C.I.	1
17.	Gasket	PTFE / Asbestos	2





### Technical Specification

Application	:	Air/Liquid / Gas / Steam
Valve Size	:	1" to 4, 150# to 300#
Inlet Pressure - Min / Max	:	10 PSI / 300 PSI
Outlet Pressure - Min / Max	:	5 PSI / 150 PSI
Temperature Range	:	150°F
Body Material	:	C.I. / C.S. / S.S.
Trim	:	S.S. 316 / 304

### VALVE FUNCTION

Inlet pressure acts upward on small balancing diaphragm (or piston in 2 1/2 - 3" sizes) to equalize downward pressure on valve disc, providing fully balanced action. Inlet pressure variations are equalized without affecting set - point. When the adjusting spring is compressed, it opens the main valve to admit fluid to downstream side.

When the downstream pressure under the large diaphragm equals the force exerted by the adjusting spring, equilibrium is restored and the main valve maintains flow of the set downstream pressure.

PRV designed, is slated for a long, trouble - free life. Standard renewable parts never need special fitting or machining. Here's rugged regulator built to absorb hydraulic system shocks that upset ordinary valves.



**PRESSURE REDUCING VALVE**

A Self-actuating / Pilot Operated Type, Cage Guided, Double Seated, Low Down-Stream Pressure Control Valve (LPRV) suitable for many types of fluid control.

### Features & Benefits

#### Construction

Glandless Design Construction eliminates hysteresis, resulting high sensitivity change in downstream pressure & ensure repeatability of the valve.

#### Flow

Two Port design allows very high flow rate.

#### Precise Control

Due to large Actuating Area (Diaphragm Area) the down stream pressure is precisely controlled even at low pressure settings.

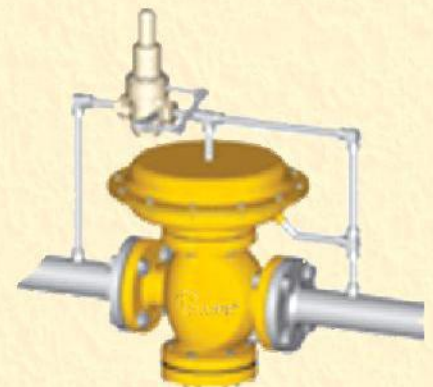
#### Low Pressure Settings

The downstream pressure can be as low as 25 mmwc.

#### Tight Shut-off

The main valve disc assembly is provided with soft sealing which gives leakage in class VI (Tight Shut-off).

#### Manufacturer



**SELF PRESSURE REGULATOR VALVE**

## TAURUS ENGINEERING INDUSTRIES

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