

High Pressure Relief Valves

SHRV Series - 20,000 and 60,000 psi

Features

SHRV20 Series

- Soft seat relief valves.
- Set pressure : 1,500 to 20,000psig (103.4 to 1378.9 bar).
- Working temperature : 32°F (0°C) to 400°F (204°C).
- Liquid or gas service. Provide bubble tight shut-off of gas.
- Pressure settings are made at the factory and valves are tagged accordingly.
- Lock wire secure cap to maintain set pressure.
- Easily exchangeable seat.

SHRV60 Series

- Metal seat relief valves.
- Set pressure : 3,000 to 60,000psig (206.8 to 4136.8 bar).
- Working temperature : -110°F (-79°C) to 500°F (260°C).
- Liquid or gas service. Provide shut-off of liquids and gases under pressure to commercial tightness standards.
- Pressure settings are made at the factory and valves are tagged accordingly.
- Lock wired secure cap to maintain set pressure.
- Easily exchangeable seat.



Technical Data

SHRV20 Series

Grade	Inlet		Outlet Connection Type	Orifice Size In. (mm)	Cv	Pressure Rating psig (bar) @ 100°F (38 °C)		
	Tube O.D In.	Connection Type				Minimum Set Pressure	Maximum Set Pressure	Maximum Back Pressure
1A	9/16"	MP9	F.NPT 3/4"	0.312 (7.92)	1.2	1500 (103.4)	5000 (344.7)	500 (34.5)
2A				0.250 (6.35)	0.8	5000 (344.7)	10,000 (689.5)	
3A				0.156(3.96)	0.3	10,000 (689.5)	20,000 (1378.9)	

* Maximum system operation pressure should not exceed 90% of relief valve set pressure.

SHRV60 Series

Grade	Inlet		Outlet Connection Type	Orifice Size In. (mm)	Cv	Pressure Rating psig (bar) @ 100°F (38 °C)		
	Tube O.D In.	Connection Type				Minimum Set Pressure	Maximum Set Pressure	Maximum Back Pressure
1A	9/16"	MP9	F.NPT 3/4"	0.312 (7.92)	1.2	3000 (206.8)	5000 (344.7)	500 (34.5)
2A				0.250 (6.35)	0.8	5000 (344.7)	10,000 (689.5)	
3A				0.188 (4.78)	0.45	10,000 (689.5)	15,000 (1034.2)	
4A				0.156 (3.96)	0.3	15,000 (1034.2)	20,000 (1378.9)	
5A	3/8"	HP6	F.NPT 3/4"	0.125 (3.18)	0.2	20,000 (1378.9)	30,000 (2068.4)	500 (34.5)
6A				0.093 (2.36)	0.1	25,000 (1723.7)	45,000 (3102.6)	
7A				0.078 (1.98)	0.07	30,000 (2068.4)	60,000 (4136.8)	

* Maximum system operation pressure should not exceed 90% of relief valve set pressure.

Ordering Information

Example : **SHRV20 - MP9 - F12N - 3A - SS**

1
2
3
4
5

1. Valve Series

- SHBV20 : 20,000 psi
- SHBV60 : 60,000 psi

2. Inlet Tube O.D

- MP9 : Medium Pressure 9/16"
- HP6 : High Pressure 3/8" (SHRV60 only)

3. Outlet Connection Size

- F12N : Female 3/4" NPT

4. Grade (Set Pressure)

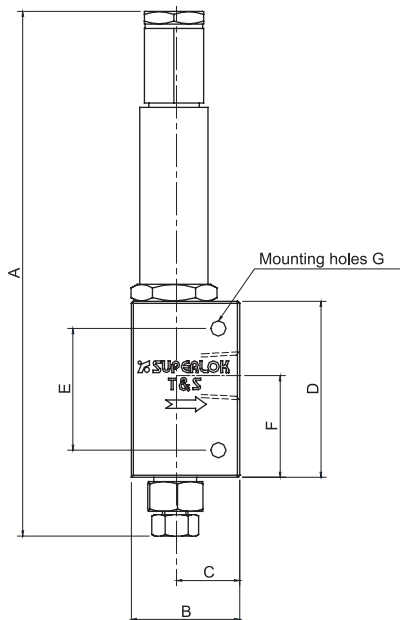
- Nil : O-Ring Check Valve
- BP : Ball Check Valve

1A	1500 ~ 5000 psig SHRV20 Series
	3000 ~ 5000 psig SHRV60 Series
2A	5000 ~ 10,000 psig
3A	10,000 ~ 15,000 psig
4A	15,000 ~ 20,000 psig
5A	20,000 ~ 30,000 psig
6A	25,000 ~ 45,000 psig
7A	30,000 ~ 60,000 psig

5. Body Material

- SS : Stainless Steel

Table of dimensions



Dimensions, inches (mm)						
A	B	C	D	E	F	G
9.46 (240.4)	2 (50.8)	1.19 (30.2)	3.25 (82.6)	2.25 (57.1)	1.94 (49.3)	0.28 (7.1)

All dimensions are for reference only, subject to change.