Hikelok®
Solution Provider For Fluid Systems

High Pressure Relief Valves

20RV Series, 20,000 psi (1379 bar)

- Soft seat relief valves.
- Set pressure: 1500 to 20,000 psig (103 to1379 bar).
- Working temperature: 32°F to 400°F (0°C to 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.
- State the required set pressure with the order please.
- Lock wired secure cap to maintain set pressure.
- Easily exchangeable seat.
- Free assembly positions.

Features

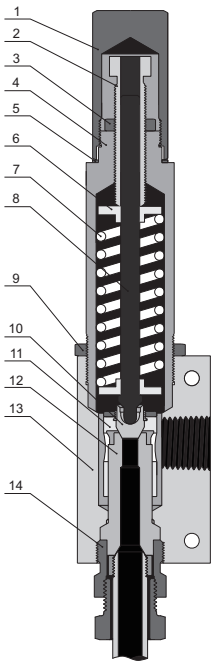
- Soft seat relief valves.
- Set pressure: 1500 to 20,000 psig (103 to1379 bar).
- Working temperature: 32°F to 400°F (0°C to 204°C).
- Liquid or gas service. Provide bubble tight shut-off of gas.
- Pressure settings are made at the factory and valves are tagged accordingly. State the required set pressure with the order please.
- Lock wired secure cap to maintain set pressure.
- Easily exchangeable seat.
- Free assembly positions.
- Field adjustable and soft seat relief valves.

Technical Data

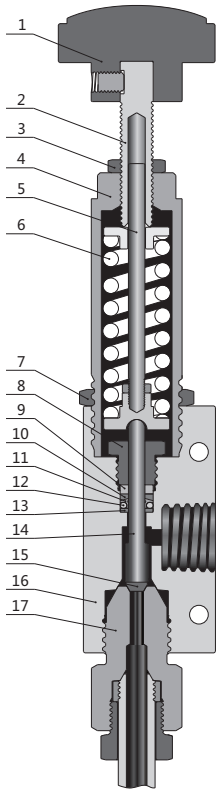
Ordering Number	Inlet		Outlet Connection Type	Orifice Size in. (mm)	Cv	Pressure Rating psig (bar)@100°F (38°C)		
	Tube OD in.	Connection Type				Minimum Set Pressure	Maximum Set Pressure	Maximum Back Pressure
20RV-MPF9-FNPT12-5-	9/16	MPF9	FNPT12	0.312 (7.92)	1.2	1500 (103)	5000 (345)	500 (34.5)
20RV-MPF9-FNPT12-10-	9/16	MPF9	FNPT12	0.25 (6.35)	0.8	5000 (345)	10,000 (690)	500 (34.5)
20RV-MPF9-FNPT12-20-	9/16	MPF9	FNPT12	0.156 (3.96)	0.3	10,000 (690)	20,000 (1379)	500 (34.5)

NOTE:
Maximum system operating pressure should not exceed 90% of relief valve set pressure.

Standard Materials of Construction

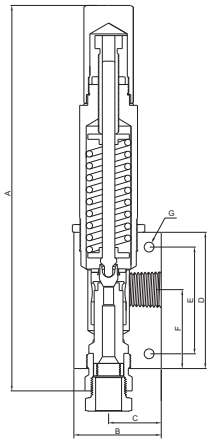


Item	Component	Valve Material
1	Cap	316 SS/A479
2	Adjusting Bolt	316 SS/A479
3	Lock Nut	316 SS/A479
4	Spring Cylinder	316 SS/A479
5	Gasket	316L SS/A276
6	Spring Washer	316 SS/A479
7	Spring	17-7PH/AMS5678
8	Spindle	316 SS/A479
9	Lock Nut	316 SS/A276
10	Plug	PEEK
11	Plug Guide	316 SS/A479
12	Seat	316 SS/A479
13	Valve Body	316 SS/A479
14	Seat Gland	316 SS/A479
	Lubricant	Molybdenum Disulfide



Item	Component	Valve Material
1	Handle	6061/B211
2	Set Screw	316SS/A479
3	Lock Nut	316SS/A276
4	Bonnet	316SS/A479
5	Upper Stem	316SS/A479
6	Spring	17-7PH/AMS5678
7	Lock Nut	316SS/A276
8	Packing Gland	C63000/B150
9	Washer	C63000/B150
10	Backing Ring	PEEK
11	Backing Ring	PTFE
12	O-ring	Fluorocarbon FKM
13	Ring	PEEK
14	Lower Stem	316SS/A479
15	Plug	PEEK
16	Body	316SS/A479
17	Seat	316SS/A479
	Lubricant	Molybdenum Disulfide

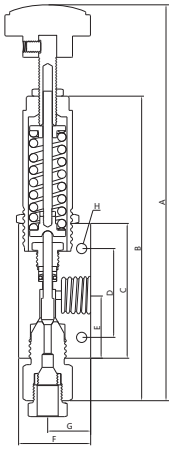
Dimensions



Relief Valves Dimensions

A	B	C	D	E	F	G
in. (mm)						
9.46 (240.4)	2.00 (50.8)	1.19 (30.2)	3.25 (82.6)	2.25 (57.1)	1.94 (49.3)	0.28 (7.1)

NOTE:
1. G is the dimension of Mounting Holes.
2. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or Hikelok Group.



A	B	C	D	E	F	G	H
in. (mm)							
10.98 (278.8)	8.45 (214.6)	3.74 (95.0)	2.46 (62.6)	1.75 (44.4)	2.00 (50.8)	1.19 (30.3)	0.28 (7.1)

NOTE:
1. H is the dimension of mounting Holes.
2. All dimensions are reference only and are subject to change. For dimensions not shown above, please contact the authorizedrepresentative or Hikelok Group.

How to Order

20RV— HPF9 — FNPT12 — 10 — A — 316

Series	Intel Type and Size	Outel Type and Size	Spring Designato	Adjustable	Body Material
20RV	**MPF9** 9/16"	**FNPT12** 3/4 Female NPT	**5** 1500-5000 psi **10** 5000-10000 psi **20** 10000-20000 psi	None **A** Adjustable	**316** 316 S.S.