

Proportional Relief Valves

RV4 Series



- ❖ Set pressure from 5 to 550 psig (0.34 to 37.9 bar)
- ❖ Liquid or gas service
- ❖ Zero friction poppets
- ❖ Spring adjusts to provide desired set pressure
- ❖ Variety of end connections
- ❖ Variety of body and seal materials

Features

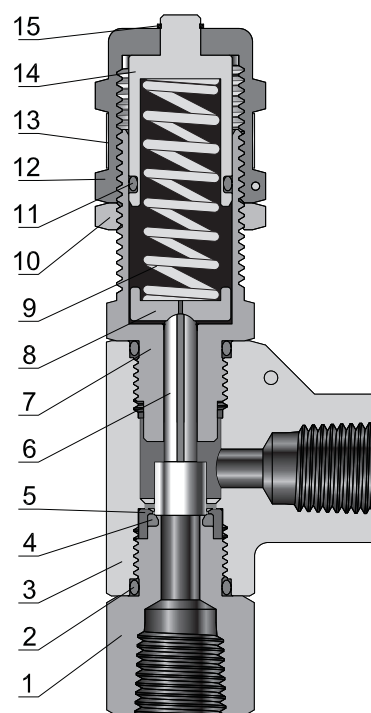
- ❖ Liquid or gas service
- ❖ Set pressure from 5 to 550 psig (0.34 to 37.9 bar)
- ❖ Maximum outlet pressure up to 2800 psig (193 bar)
- ❖ Spring adjusts to provide desired set pressure
- ❖ Zero friction poppets increases accuracy of cracking pressure and reseal pressure

Seal Materials

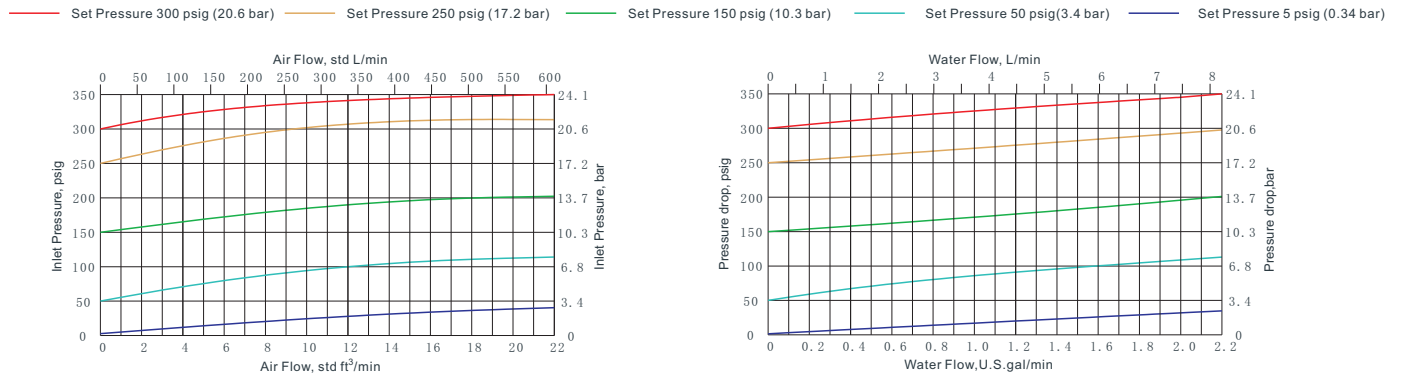
Seal Material	Temperature Range °F (°C)
Fluorocarbon FKM	-20 to 400 (-29 to 204)
Buna N	-65 to 275 (-54 to 135)
Neoprene	-40 to 300 (-40 to 148)
Ethylene propylene	-65 to 300 (-54 to 148)

Standard Materials of Construction

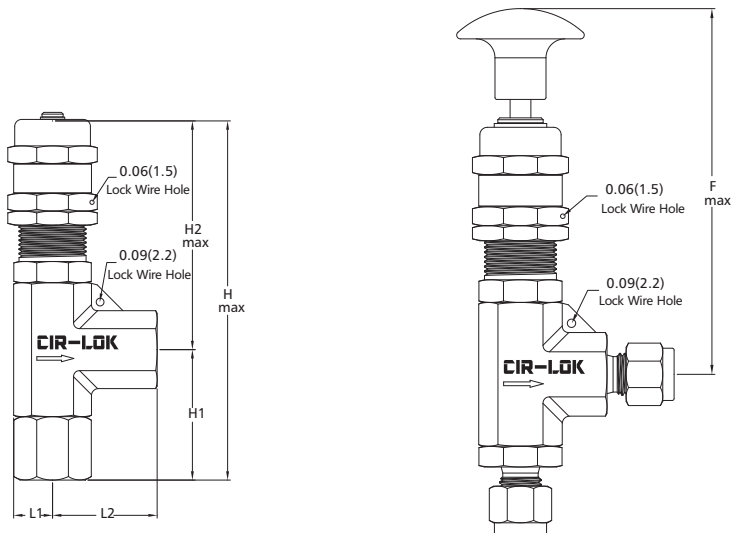
Component	Material Grade/ASTM Specification	
1	Connector	316 S.S./A479
2	O-ring	Fluorocarbon FKM
3	Body	316 S.S./A182
4	O-ring	Fluorocarbon FKM
5	Shroud Ring	316 S.S./A479
6	Stem	316 S.S./A479
7	Bonnet	316 S.S./A479
8	Spring support	316 S.S./A276
9	Spring	S17700 S.S./AMS 5678
10	Lock nut	316 S.S./A276
11	O-ring	Fluorocarbon FKM
12	Cap	316 S.S./A479
13	Label	Polyester
14	Spring Holder	316 S.S./A276
15	Retaining Ring	304 S.S.



Flow Data at 70°F (20°C)



Dimensions



Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Dimension, in. (mm)					
			L1	L2	H1	H2	H	F
RV4-F4-05-	1/4" CIR-LOK	0.23 (5.8)	0.43 (10.9)	1.60 (40.6)	1.60 (40.6)	2.70 (68.6)	4.30 (109.2)	4.09 (104)
RV4-F6-05-	3/8" CIR-LOK		0.50 (12.7)	1.72 (43.7)	1.87 (47.7)	4.09 (103.9)	5.96 (151.6)	5.37 (136)
RV4-F8-05-	1/2" CIR-LOK		0.43 (10.9)	1.60 (40.6)	1.60 (40.6)	2.70 (68.6)	4.30 (109.2)	4.09 (104)
RV4-M6-05-	6 mm CIR-LOK		0.50 (12.7)	1.83 (46.5)	2.00 (50.5)	4.09 (103.9)	6.07 (154.4)	5.37 (136)
RV4-M8-05-	8 mm CIR-LOK		0.43 (10.9)	1.38 (34.9)	1.53 (38.9)	2.70 (68.6)	4.23 (107.5)	4.09 (104)
RV4-M12-05-	12 mm CIR-LOK		0.50 (12.7)	1.43 (36.3)	1.58 (40.3)	4.09 (103.9)	5.67 (144.2)	5.37 (136)
RV4-FNPT4-05-	1/4 Female NPT		0.43 (10.9)	1.17 (29.7)	1.34 (34.2)	2.70 (68.6)	4.04 (102.8)	4.09 (104)
RV4-FNPT8-05-	1/2 Female NPT		0.50 (12.7)	1.43 (36.3)	1.58 (40.3)	4.09 (103.9)	5.67 (144.2)	5.37 (136)
RV4-NPT4-05-	1/4 Male NPT		0.50 (12.7)	1.43 (36.3)	1.58 (40.3)	4.09 (103.9)	5.67 (144.2)	5.37 (136)
RV4-NPT8-05-	1/2 Male NPT							

How to Order

RV4 — **NPT8** — **FNPT8** — **05V** — **GM** — **316**

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice	Seal Material	Spring KitColor	Manual Override Handle	Body Material
RV4	FNPT Female NPT	2 1/8 in.	Same as inlet type and inlet size		05 0.23 in. (5.8 mm)	V Fluorocarbon FKM	G Green 5~300 psig	None	316 316 S.S.
	NPT Male NPT	4 1/4 in.				B Buna N			316L 316L S.S.
	FBT Female BSPT	6 3/8 in. or 6mm	If outlet and inlet are the same, eliminate the outlet designator	E Ethylene propylene		O Orange 300~550 psig	M Manual Override Handle	304 304 S.S.	
	MBT Male BSPT	8 1/2 in. or 8mm		N Neoprene				304L 304L S.S.	
	FMS Female ISO 261	10 10 mm		Z Kalrez					
	MS Male ISO 261	12 3/4 in. or 12mm							
	FBP Female BSPP								
	MBP Male BSPP								
	F Fractional Tube Fitting								
	M Metric Tube Fitting								