

Proportional Relief Valves

RV3 Series



- ❖ Set pressure from 50 to 1500 psig (3.4 to 103 bar)
- ❖ Spring adjusts to provide desired set pressure
- ❖ Variety of end connections
- ❖ Variety of body and seal materials

Features

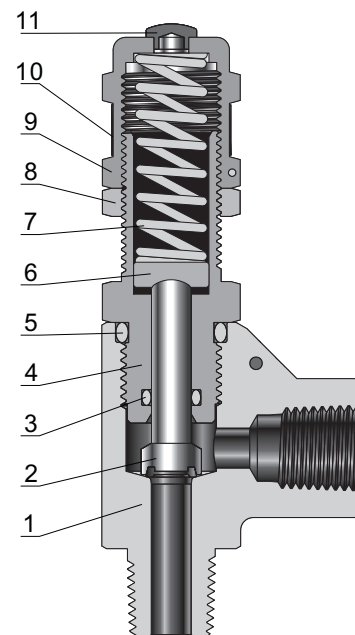
- ❖ Liquid or gas service
- ❖ Set pressure from 50 to 1500 psig (3.4 to 103 bar)
- ❖ Maximum outlet pressure up to 2500 psig (172 bar)
- ❖ Spring adjusts to provide desired set pressure

Seal Materials

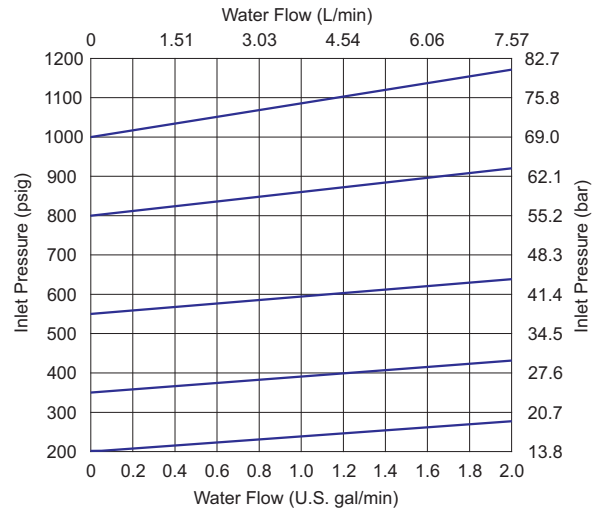
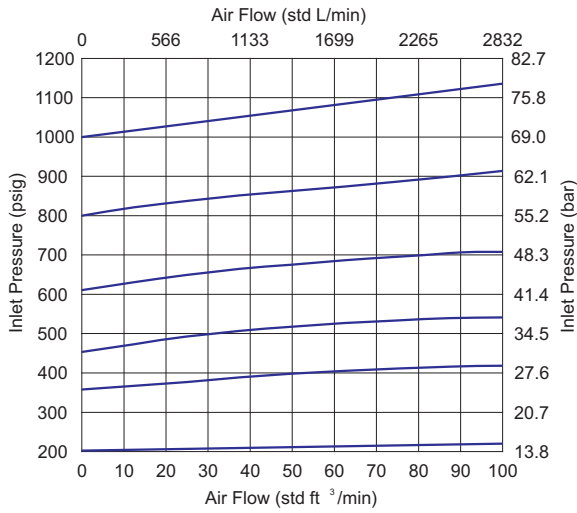
Seal Material	Temperature Range °F (°C)
Fluorocarbon FKM	25 to 300 (-4 to 148)
Buna N	50 to 300 (10 to 148)
Neoprene	50 to 250 (10 to 121)
Ethylene Propylene	50 to 250 (10 to 121)

Standard Materials of Construction

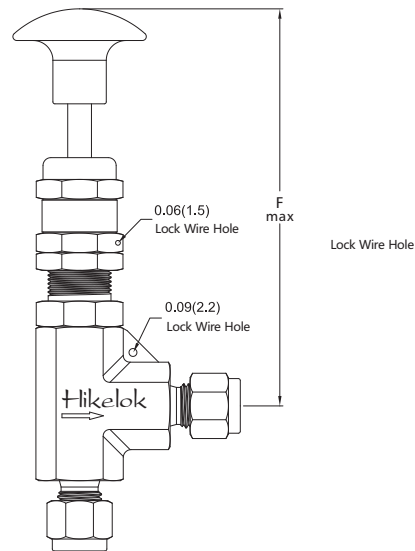
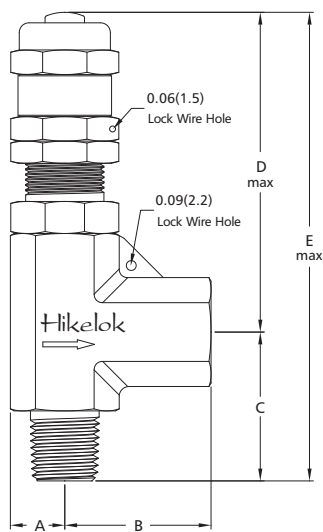
Component	Material Grade/ASTM Specification
1 Body	316 S.S./A182
2 Stem	Fluorocarbon FKM-bonded 316 S.S./A479
3 O-ring	Fluorocarbon FKM
4 Bonnet	316 S.S./A479
5 O-ring	Fluorocarbon FKM
6 Spring Support	316 S.S./A276
7 Spring	S17700 S.S./AMS 5678
8 Lock Nut	316 S.S./A276
9 Cap	316 S.S./A479
10 Label	Polyester
11 Plug	316 S.S./A276



Flow Data at 70°F (20°C)



Dimensions



Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Dimension, in. (mm)							
			A	B	C	D	E	F		
RV3-F8-06-	1/2" Hikelok	0.25 (6.4)	0.5 (12.7)	1.43 (36.3)	1.83 (46.5)	4.09 (104)	5.92 (150)	5.37 (136)		
RV3-M12-06-	12 mmHikelok			1.43 (36.3)	1.44 (36.6)		5.52 (140)			
RV3-NPT8-06-	1/2 Male NPT									
RV3-MBT8-06-	1/2 Male BSPT									
RV3-FNPT8-06-	1/2 Female NPT									
RV3-FBT8-06-	1/2 Female BSPT									

How to Order

RV3 — **FNPT8** — **M8** — **06V** — **GM** — **316**

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice	Seal Material	Spring KitColor	Manual Override Handle	Body Material
RV3	FNPT Female NPT	8 1/2in. or 8mm	Same as inlet type and inlet size		06 0.25 in. (6.4 mm)	V Fluorocarbon FKM	G Green 50~350 psig	None	316 316 S.S.
	NPT Male NPT	10 10 mm				B Buna N	O Orange 350~750 psig	M Manual Override Handle	316L316L S.S.
	FBT Female BSPT	12 3/4 in. or 12mm	If outlet and inlet are the same, eliminate the outlet designator			E Ethylene propylene	Y Yellow 750~1500 psig		304 304 S.S.
	MBT Male BSPT					N Neoprene			304L 304L S.S.
	FMS Female ISO 261								
	MS Male ISO 261								
	FBP Female BSPP								
	MBP Male BSPP								
	F Fractional Tube Fitting								
	M Metric Tube Fitting								