

RELIEF VALVES

WVWF

Western Valve & Fitting

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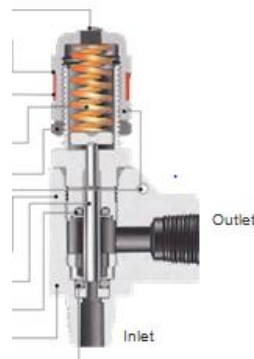
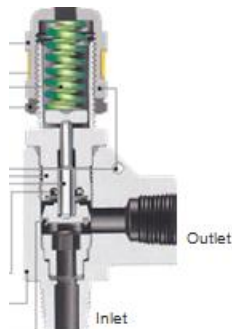
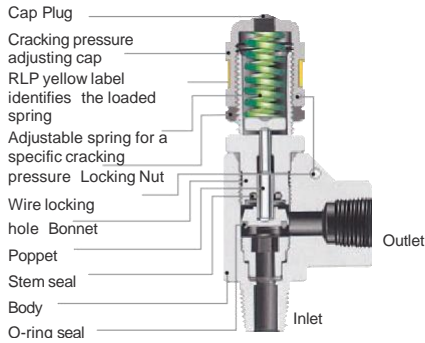


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RLP Series for working pressure 300 psig (20.6



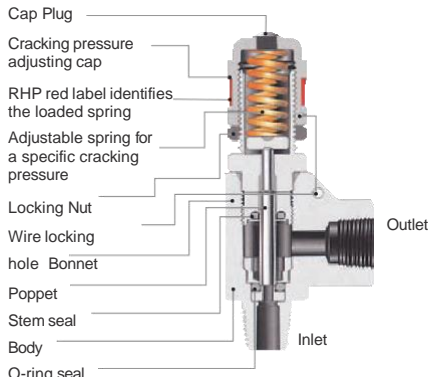
Technical Data

RLP Series Technical Data

- Maximum working pressure : 300 psig @ 68°F (20.6 bar @ 20°C)
- Cracking pressure range : 10 to 225 psig (0.68 to 15.5 bar) Table 1. RLP Series Spring Designator

Spring Designator	Cracking Pressure		Color Code
	psig	bar	
LPS	10 to 225	0.68 to 15.5	Red

RHP Series for working pressure 6,000 psig (413



RLP/RHP Series Temperature Rating

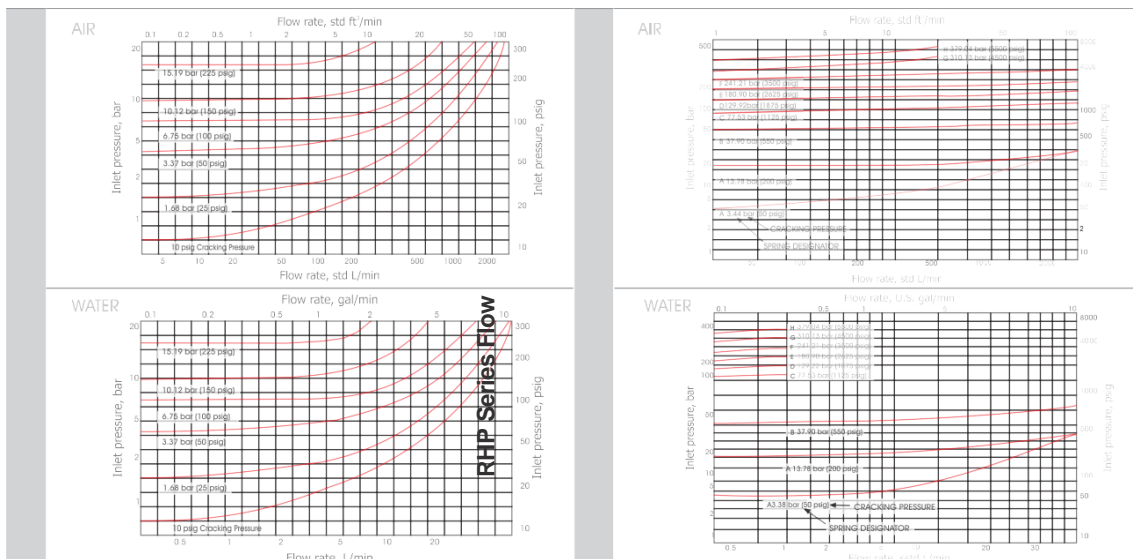
Seal Material	Temperature Rating, °C (°F)	
	RLP Series	RHP Series
FKM (Viton)	-12 ~ -135 (10.4 ~ 275)	-4 ~ 121 (24.8 ~ 250)
Buna N	-23 ~ 148 (-9.4 ~ 298)	-17 ~ 121 (1.4 ~ 250)
Ethylene Propylene (EPDM)	-40 ~ 148 (-40 ~ 298)	-1 ~ 121 (30.2 ~ 250)

RHP Series Technical Data

- Maximum working pressure : 6,000 psig @ 68°F (413 bar @ 20°C)
- Orifice size : 3.4 mm (0.13 in.)
- Cracking pressure range : 220 to 6,000 psig (15.1 to

413 bar) Table 2. RHP Series Spring Designators

Spring Designator	Cracking Pressure		Color Code	Spring Designator	Cracking Pressure		Color Code
	psig	bar			psig	bar	
HPS-1	220 to 350	15.1 to 24	WHITE	HPS-5	2250 to 3000	155 to 206	GREEN
HPS-2	350 to 750	24 to 51.6	BLUE	HPS-6	3000 to 4000	206 to 275	YELLOW
HPS-3	750 to 1500	51.6 to 103	CLEAR	HPS-7	4000 to 5000	275 to 344	BROWN
HPS-4	1500 to 2250	103 to 155	BLACK	HPS-8	5000 to 6000	344 to 413	ORANGE



RLP Series Flow

Factory

Material of Construction	
Cap Plug	Polypropylene
Adjusting Cap	ASTM A276 / A479 Type 316
Spring	Stainless Steel 302
Locking Nut	ASTM A276 / A479 Type 316
Bonnet	
Poppet	
Stem & O-ring seal	Standard Viton, optional EPDM and Buna N
Body	ASTM A182 F316

Basic Ordering Number	End Connections		Orifice mm (in.)	Dimensions mm (in.)			
	Inlet	Outlet		H	B	L	
RLP- and RHP-	C-1/4	1/4 in. Compression		RLP : 4.8 (0.19)	100 (3.93)	37	39
	C-6MM	6 mm Compression				(1.45)	(1.53)
	C-8MM	8 mm Compression				38 (1.49)	40 (1.57)
	C-1/2	1/2 in. Compression		RHP : 3.4 (0.13)	105 (4.13)	44	42
	C-12MM	12 mm Compression				(1.73)	(1.65)
	MC-1/2x1/2	1/2 Male NPT	1/2 Compression	98 (3.85)	36 (1.41)	42 (1.65)	
	MCM-1/2x12	1/2 Male NPT	12 mm Compression				
	MF-1/4x1/4	1/4 Male NPT	1/4 Female NPT	94 (3.70)	32 (1.25)	30	
	MIFI-1/4x1/4	1/4 Male ISO 7/1	1/4 Female ISO 7/1			(1.18)	
	MF-3/8x3/8	3/8 Male NPT	3/8 Female NPT			35 (1.37)	
	MIFI-3/8x3/8	3/8 Male ISO 7/1	3/8 Female ISO 7/1	98 (3.85)	36 (1.41)	38	
	MF-1/2x1/2	1/2 Male NPT	1/2 Female NPT			(1.49)	
MIFI-1/2x1/2	1/2 Male ISO 7/1	1/2 Female ISO					



Model Shown :
RHP-MF-1/4x1/4

All dimensions shown are for reference only and are subject to change. Dimensions when Compression nuts are in finger-tight position.

How to order

Please select the desired valve basic ordering number, the applicable seal, spring designator and CE certified option from the table below.

Example : RHP-C-1/2

- BN ↓	- B ↓	- CE ↓
Seat Designator	Spring Designator	CE certified
Nil : Standard Viton BN : Buna N EP : EPDM	Refer to Table 1, Table 2 for spring designator	CE : valve to 97/23/EC

Factory pressure set valve

To order, specify the set pressure on the valve ordering number.
Example : RHP-C-1/2-60BAR or RHP-C-1/2-870PSI

Valve without spring installed

To order, do not specify spring designator on the ordering number. Example : RHP-D-4T

Note : The valve with no spring installed is supplied with the label stated "NO SPRING INSTALLED" on the adjusting cap.

Spring for field assembly

To order, select an applicable spring from the spring designator table 1 & 2. Spring kit includes spring, sticker and wire
Example : HPS-1

Safe Valve Selection

The selection of a valve for any application or system design must be considered to ensure safe performance. Valve function, valve rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. We accept no liability for any improper selection, installation, operation or maintenance.

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