

94630

Pilot Operated Relief Valve (Magnetic Pilot)

SHAND & JURS

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The Shand & Jurs 94630 Pilot Operated Relief Valves are designed to meet low pressure applications within a relief range from 1.0 psi thru 15 psi. These **Magnavalves** are ideally suited for land or marine use, specifically marine cargo tankers transporting LNG, cryogenic or low temperature liquids.

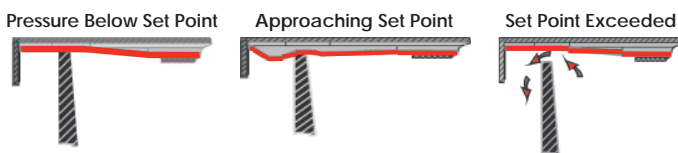
Available in 2" through 12" sizes, the 94630 provides extreme reliability by utilizing a magnetic pilot design. The magnetic pilot assures positive pressure relief at set pressure with no overpressure required and resets itself at the preset blowdown.

The main valve consists of a stainless steel bellows, which is not affected by temperature variations as are conventional diaphragm relief valves. The full area bellows provides for high lift and excellent flow characteristics. Provisions are also available for vacuum relief.

Expanda-Seal

Shand & Jurs "Expanda-Seal" option is available on all pressure pallet assemblies. This feature significantly reduces leakage. The ballooning effect of the Teflon diaphragm effectively seals the valve.

The "Expanda-Seal" feature ensures less than .5 SCFH of air at 95% of the set point.



Features

- Magnetic pilot opens fully, instantly, at set pressure with no overpressure required
- Heavy duty design suitable for severe environments
- Stainless steel construction NOT affected by low temperature variations
- Adjustable blowdown pilot design provides adjustment for extremely low blowdown
- Full area bellows provides for high lift and excellent flow
- Vacuum capability

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Specifications:

Pressure Setting:

1.0 psi to 15 psi

Accuracy:

1.0 psi to 9.9 psi ± 0.1 psi
10.0 psi to 15.0 psi ± 0.2 psi

Reset Pressure Range:

External Pilot Valve Supply (1 to 4 psi):

0.2 to 0.4 psi less than nominal set pressure

Pilot Valve Supply (4 to 15 psi):

90%-95% of nominal set pressure

Internal Pilot Valve Supply (1 to 15 psi):

85% to 95% of nominal set pressure

Standard Blowdown:

5%

Temperature Range:

-300°F to +450°F (-20°F Steel)

Body Construction:

Aluminum, Steel, Stainless Steel

Bellows:

Stainless Steel

Type of Seal:

Soft Seat

Flange Connection:

150 lb. ANSI, DIN sizes available

Leakage, Max:

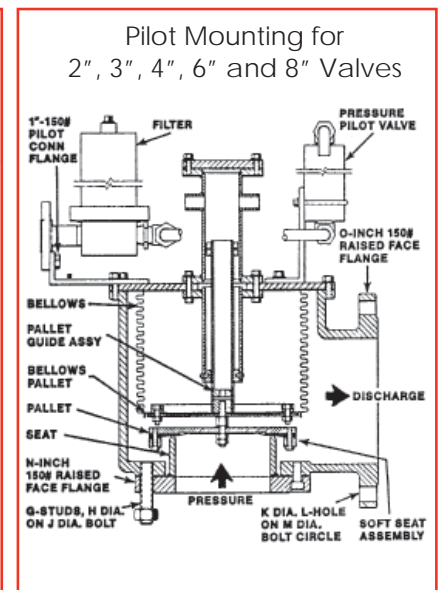
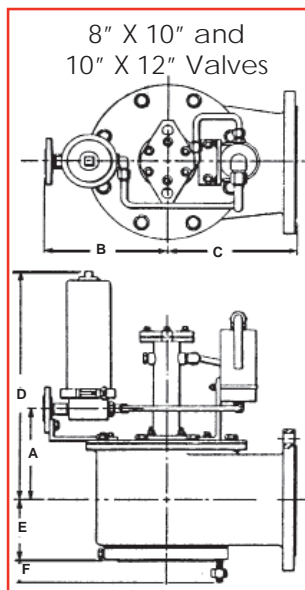
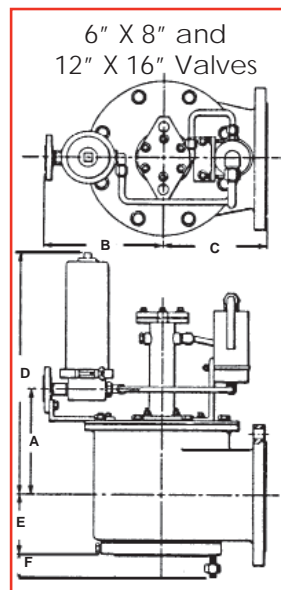
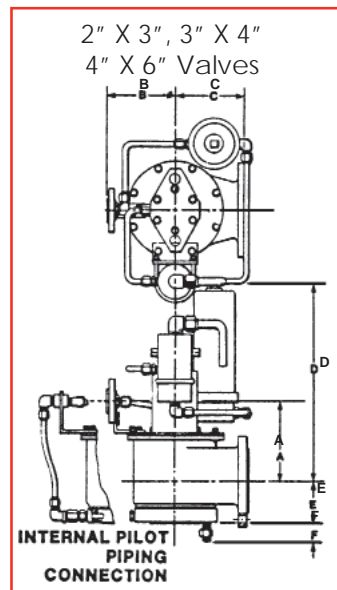
0.2 SCFH, Soft Seat

*Vacuum Operation: This relief valve may operate under vacuum conditions, unless the vacuum preventer option is selected. The 94630 may be mounted on top of a specially configured 94110 vacuum relief valve where precise vacuum control is desired. Consult Factory for specific vacuum setting requirements.

Dimensions:

Valve Size	Approximate Dimensions in Inches					
	A	B	C	D	E	F
2x3	8 ¾	6 ⅞	6 ⅞	23 ½	3 ½	1 ⅞
3x4	8 ⅞	6 ⅞	7 ⅞	23	4 ⅞	1 ⅞
4x6	10 ⅞	8 ⅞	8 ¼	25 ¾	5 ⅞	2
6x8	10 ⅞	10 ⅞	9 ¾	24 ½	6	3 ⅞
8x10	12 ¾	11 ⅞	13	26 ¾	7 ⅞	2 ⅞
10x12	10 ⅞	12 ⅞	15 ⅞	25 ⅞	8 ⅞	2 ⅞
12x16	11 ½	12 ⅞	18 ½	25 ¾	10 ⅞	2 ¼

Pressure Flange				Discharge Flange				Approx. Weight
G	H	J	N	K	L	M	O	
4	⅝	4 ¾	2	¾	4	6	3	90
4	⅝	6	3	¾	8	7 ½	4	135
8	⅝	7 ½	4	⅞	8	9 ½	6	150
8	¾	9 ½	6	⅞	8	11 ½	8	195
8	¾	11 ¾	8	1	12	14 ½	10	245
12	⅞	14 ½	10	1	12	17	12	375
12	⅞	17	12	1 ⅞	16	21 ¼	16	520



All designs subject to change. Certified dimensions and specifications available upon request.