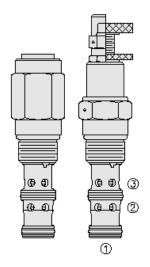


Overview



Description

The PR12-36X is a spool type, pilot operated, hydraulic pressure reducing/relieving valve with internal pilot and internal spring chamber drain, designed to act as a pressure regulating device for secondary circuits.

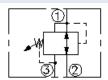
Operation

In its steady state, the PR12-36X allows flow to pass bidirectionally from port 2 to port 1, with the spring chamber constantly drained at port 3. Upon attainment of a predetermined pressure at port 1, the spool shifts to restrict inlet flow from port 2, thereby regulating pressure at port 1. In this mode the valve will also relieve port 1 to port 3.

note: tank pressure is additive to regulated pressure.

- · Adjustments cannot be backed out of the valve.
- · Adjustments prohibit springs from going solid.
- Optional spring ranges to 207 bar (3000 psi).

Symbol



Ratings

<u>Pr</u>	<u>е</u>	s	s	u	r	e	F	₹.	<u>a</u>	t	į	r	1	g	S

Pressure rating	241.3 bar (3500 psi)	Note: Port 1
ū	241.3 bar (3500 psi)	- Note: Port 2
	103.4 bar (1500 psi)	- Note: Port 3
Proof pressure	517.1 bar (7500 psi)	- Note: At all ports
Burst pressure	1034 bar (15000 psi)	

Flow Ratings

189.2 lpm (50 gpm) Flow rating

0.170 lpm (0.045 gpm) - **Note:** inlet pressure of 241 bar (3500 psi) - Note: With maximum adjustment setting and with Maximum pilot flow

Temperature Ratings

-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature

-40 to 70 °C (-40 to 160 °F) Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature

Other Ratings

960 hr salt spray per ASTM b117 (gpr12-36x) Corrosion protection

Operating Parameters

Mineral based or synthetic with lubricating properties Fluids

7.4 to 420 cSt Fluid viscosity range

Maximum operating contamination 18/16/13 per ISO 4406 - Note: All surfaces in contact with working fluid to

meet jds-g169, 5.6 cleanliness level level

0.5 mm (0.02 in) - Note: Absolute maximum particle size. Packaging to

maintain cleanliness level during shipping and handling - Note: Maximum allowable contaminant

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Properties

Unit weight

0.41 kg (0.90 lb)

0.43 kg (0.94 lb)

0.45 kg (0.99 lb)

0.46 kg (1.01 lb)

- Note: PR12-36A

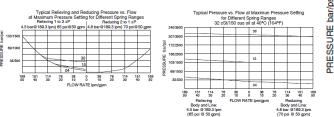
- Note: PR12-36B

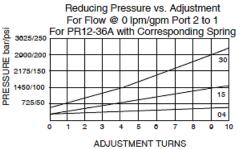
- Note: Pr12-36c/l

- Note: Pr12-36f/h

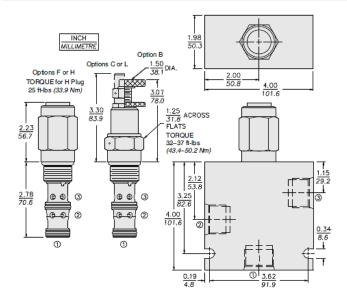
Internal wetted surface area 260 cm 2 (40.3 in 2) - Note: Pr12-36a/b/c/l 279 cm 2 (43.2 in 2) - Note: Pr12-36f/h

Performance





Dimensions



Installation Specifications

Cavity VC12-3

Cartridge installation torque 44.8 to 50.2 N-m (33 to 37 ft-lb)

H style plug torque 33.9 N-m (25 ft-lb)

Orientation restriction None

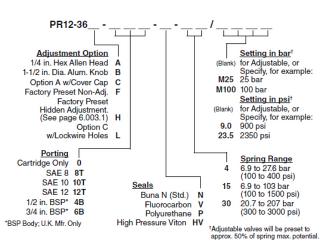
Accessories

Seal kit SK12-3X-BM - Note: X=seal options

Order Code

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Model Options

PR12-36DFG-H-J-R/S

D Rapid Response Option

CODE	DESCRIPTION
BLANK	Standard
R	Rapid Response

F Adjustment Option

CODE	DESCRIPTION
Α	1/4" Hex Allen Head
В	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
С	1/4" Hex Allen Head with Cover Cap
F	Factory Preset Non-Adjustable
Н	Factory Preset Hidden Adjustment
L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes

H Line Body

CODE	DESCRIPTION
0	No Body
8T	Aluminum SAE 8
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12
6B	Aluminum BSPP 3/4" (6)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

R Spring

CODE	DESCRIPTION
04	6.9 to 27.6 bar (100 to 400 psi) Spring Range

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CODE	DESCRIPTION
15	10.3 to 103 bar (150 to 1500 psi) Spring Range
30	20.7 to 207 bar (300 to 3000 psi) Spring Range

S Setting

CODE	DESCRIPTION
MXXX	Spring Setting in XXX bar
xx	Spring Setting in XX psi (x 100)

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