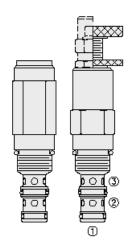


Overview



Description

The PS10-34 is a screw in, cartridge style, spool type, hydraulic sequence valve with internal pilot and spring chamber drain.

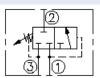
Operation

In its steady state, the PS10-34 blocks flow from port 1 to port 2, with the spring chamber drained at port 3. On attainment of a predetermined pressure at port 1, the cartridge shifts to open port 1 to port 2. The valve will remain shifted until the pressure in the circuit falls below the pressure setting. Note that the back pressure on port 3 adds to the spring setting value.

Features

- Adjustments cannot be backed out of the valve.
- · Adjustments prohibit springs from going solid.
- Optional spring ranges to 117.2 bar (1700 psi).
- · Hardened spool and cage for long life.
- · Industry-common size.

Symbol



Ratings

Pressure Ratings

Pressure rating 206.8 bar (3000 psi) - **Note:** Ports 1, 2 103.4 bar (1500 psi) - **Note:** Port 3

Proof pressure 517.1 bar (7000 psi)
Burst pressure 965.3 bar (14000 psi)

Crack pressure defined Pressure evident at 0.95 lpm (0.25 gpm) attained port 1 to port 2

Flow Ratings

Flow rating 56.8 lpm (15 gpm)

Maximum internal leakage 82 ml/min (5 in³/min) - Note: At port 3, to 85% of nominal setting

Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)

- Note: With buna N seals
- Note: With viton seals

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

Operating Parameters

Fluids Mineral based or synthetic with lubricating properties

Fluid viscosity range 7.4 to 420 cSt
Maximum operating contamination 18/16/13 per ISO 4406

level

Properties

Unit weight 0.25 kg (0.56 lb) - **Note**: PS10-34A

0.30 kg (0.66 lb) - **Note:** PS10-34C PS10-34L

0.33 kg (0.73 lb) - **Note:** PS10-34B

0.24 kg (0.54 lb) - Note: PS10-34F PS10-34H

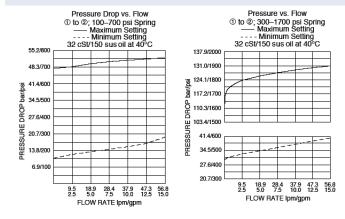
Internal wetted surface area 172 cm² (26.6 in²) - Note: PS10-34A PS10-34B PS10-34C PS10-34L

196 cm² (30.3 in²) - **Note**: PS10-34F PS10-34H

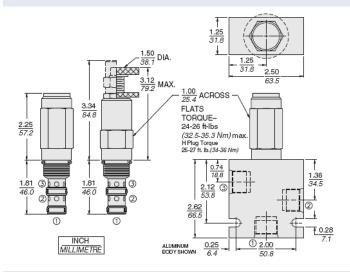
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Performance



Dimensions



Installation Specifications

Cavity VC10-3

Cartridge installation torque 32.5 to 35.3 N-m (24 to 26 ft-lb)

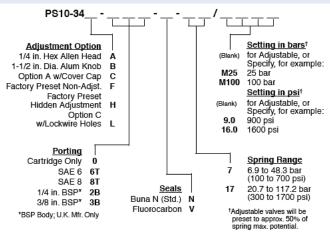
H style plug torque 33.9 N-m (25 ft-lb)

Orientation restriction None

Accessories

Seal kit SK10-3X-BM - Note: X=seal options

Order Code



Model Options

PS10-34F-H-J-R/S

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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
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

J Seal

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

R Spring

CODE	DESCRIPTION
07	6.9 to 48.3 bar (100 to 700 psi) Spring Range
17	20.7 to 117.2 bar (300 to 1700 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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