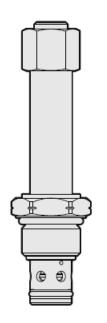


Overview



Description

The HSV10-29X is a high pressure 2-way, piloted, poppet-type, normally open, bi-directional, screw-in hydraulic cartridge valve designed to function as a load holding or blocking valve in applications requiring low internal leakage bi-directionally.

Operation

When de-energized, THE HSV10-29X allows flow in both directions. when energized, the valve blocks flow in both directions.

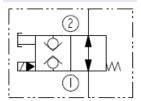
Manual Override Operation

To shift the valve manually, push and hold down manual override button/knob. Note: The manual override features is intended for emergency use, not for continuous-duty operation.

Features

- · Continuous-duty rated coil.
- Hardened seat for long life and low leakage.
- · Optional coil voltages and terminations.
- Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- Waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- 960-hour salt-spray rated solenoid tubes and coils.
- All HyPerformance products are tested to NFPA specification T2.6.1 and are tested at a verification level of 90% and an assurance of 99%.

Symbol



Ratings

Pressure	Ratings

Pressure rating 350 bar (5075 psi) 420 bar (6090 psi) - **Note:** 10% cycle life

Proof pressure 690 bar (10000 psi)
Burst pressure 1380 bar (20000 psi)

Flow Ratings

Flow rating 75.7 lpm (20 gpm)

Maximum internal leakage 5 drops/min - Note: With 350 bar (5075 psi)

Other Ratings

Cycle life One million cycles

Temperature Ratings

Operating fluid temperature
-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)
-80te: With buna N seals
- Note: With fluorocarbon seals
- Note: With urethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 90 °C (-40 to 194 °F)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination level 18/16/13 per ISO 4406

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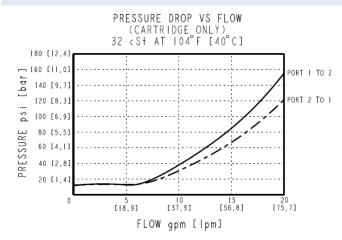


Properties

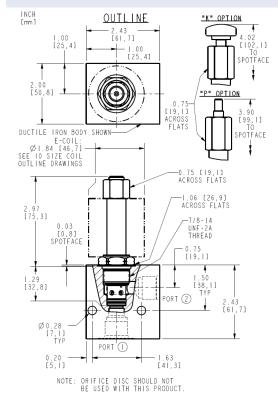
Unit weight 0.18 kg (0.4 lb)

Internal wetted surface area 161 cm² (24.9 in²) - **Note**: HSV10-29 - **Note**: HSV10-29P/29K

Performance



Dimensions



ALL DIMENSIONS ARE FOR REFERENCE ONLY

Installation Specifications

Cavity HVC10-2

Cartridge installation torque 102 to 115 N-m (75 to 85 ft-lb) - **Note:** Steel/ductile iron cavity - **Note:** Aluminum cavity - **Note:** Aluminum cavity

81 to 88 N-m (60 to 65 ft-lb) - Note: Aluminum cavi
Orientation restriction None

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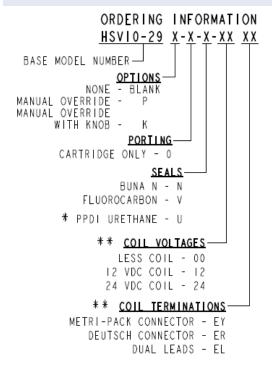


Accessories

Seal kit SK10-2N-M - Note: Buna N SK10-2V-M - Note: Fluorocarbon SK10-2U-0 - Note: Urethane

Housings Coils

Order Code



* URETHANE SEALS RECOMMENDED FOR OPERATING PRESSURES ABOVE 3500 psi [241 bar].

POSITION	CODE	
POSITION	CODE	DESCRIPTION
		HSV10-A29AE-H-J-L-M
Α		Position Sensor Option
Α	29	Standard
Α	P29A	Position Indicator Switch with Resticted Flow
Е		Manual Override
Е	BLANK	NONE
E	K	Momentary Push Override, Knob
Е	Р	Momentary Push Override, Button
Н		Line Body
Н	0	No Body
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	U	PPDI Urethane
L		Coil
L	0	No Coil
L	10EL	10 VDC, E-Coil, Dual Lead Wires
L	10ER	10 VDC, E-Coil, Deutsch
L	10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode

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HIGH PRESSURE SOLENOID VALVE, PILOTED, 2-WAY, POPPET TYPE, NORMALLY OPEN



POSITION	CODE	DESCRIPTION
L	12EG	12 VDC, E-Coil, DIN 43650
L	12EJ	12 VDC, E-Coil, AMP Jr.
L	12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
L	12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
L	12ER	12 VDC, E-Coil, Deutsch
L	12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
L	12EY	12 VDC, E-Coil, Metri-Pack 150
L	12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
L	20ER	20 VDC, E-Coil, Deutsch
L	24EG	24 VDC, E-Coil, DIN 43650
L	24EJ	24 VDC, E-Coil, AMP Jr.
L	24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
L	24ER	24 VDC, E-Coil, Deutsch
L	24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
L	24EY	24 VDC, E-Coil, Metri-Pack 150
L	24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
М		Position Sensor Termination
М	BLANK	No Position Sensor
М	M3	Neutral Sense, M12-4P, Dual Output NC/NO
M	N3	Neutral Sense, DT04-4P, Dual Output NC/NO

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