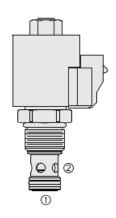
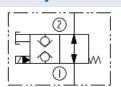


#### **Overview**



## **Symbol**



#### **Description**

The HSV12-29X is a high pressure 2-way, piloted, poppet-type, normally open, bidirectional, 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 HSV12-29X 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**

- · Bi-directional operation.
- · Continuous-duty rated solenoid.
- · Hardened seat for long life and low leakage.
- · Optional coil voltages and terminations.
- Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- · Manual override option.
- · Waterproof E-Coils rated up to IP69K.
- · Corrosion-resistant plating.
- · Unitized, molded coil design.
- · Cost effective cavity.
- All HyPerformanceâ, ¢ products are tested to NFPA specification T2.6.1.
- and are tested at a verification level of 90% and an assurance of 99%.

#### **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

113.6 lpm (30 gpm) Flow rating

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

#### Other Ratings

One million cycles Cycle life

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

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

#### **Operating Parameters**

Temperature Ratings

Mineral based or synthetic hydraulic fluid with lubricating properties Fluids

7.4 to 420 cSt Fluid viscosity range

Maximum operating contamination 18/16/13 per ISO 4406

level

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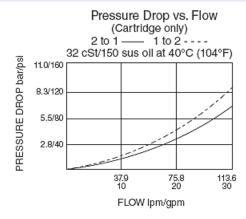


### **Properties**

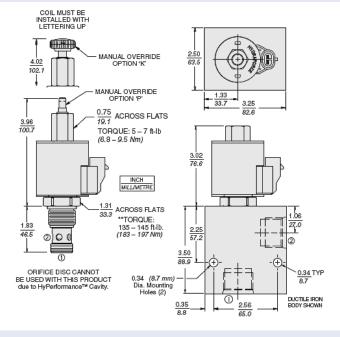
Unit weight 0.29 kg (0.63 lb) - **Note:** Without coil and nut Internal wetted surface area 212 cm² (32.9 in²) - **Note:** HSV12-29

214 cm<sup>2</sup> (33.2 in<sup>2</sup>) - **Note**: Hsv12-29p/29k

#### **Performance**



#### **Dimensions**



## **Installation Specifications**

Cavity HVC12-2

Cartridge installation torque

183 to 196 N-m (135 to 145 ft-lb)

- Note: Steel/ductile iron cavity

122 to 136 N-m (90 to 100 ft-lb) - **Note**: Aluminum cavity

Orientation restriction None

#### **Accessories**

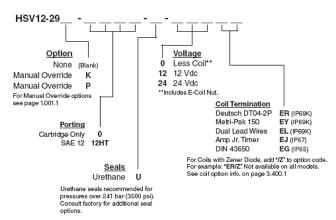
Seal kit SK12-2N-M - Note: Buna N SK12-2V-M - Note: Fluorocarbon

SK12-2U-O - Note: Urethane

## **Order Code**

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#### **Model Options**

#### HSV12-29E-H-J-L

#### **E Manual Override**

CODE	DESCRIPTION
BLANK	NONE
K	Momentary Push Override, Knob
Р	Momentary Push Override, Button

#### **H Line Body**

CODE	DESCRIPTION
0	No Body
12HT	Ductile Iron SAE 12

#### J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
U	PPDI Urethane

## L Coil

CODE	DESCRIPTION
0	No Coil
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
12EG	12 VDC, E-Coil, DIN 43650
12EJ	12 VDC, E-Coil, AMP Jr.
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12EY	12 VDC, E-Coil, Metri-Pack 150
12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
20ER	20 VDC, E-Coil, Deutsch

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



CODE	DESCRIPTION
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24EY	24 VDC, E-Coil, Metri-Pack 150
24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode

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