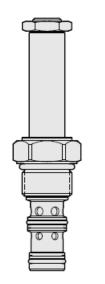


Overview



Description

The HSPEC10-34X is a high pressure, proportional solenoid-operated, poppet type, restrictive type, pressure compensated, normally closed flow control, screw-in hydraulic cartridge valve with built-in damping and load holding features.

Operation

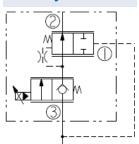
With inlet at port 3 the valve will regulate flow out of port 2 regardless of load pressure with flow rate proportional to current applied to the solenoid. Port 1 must be connected to port 3 to provide load sense function for the compensator. When de-energized, the valve blocks flow from port 3 to port 2 while allowing free flow in opposite direction.

Note: Do not use an orifice disc wth this product.

Features

- Industry-common cavity.
- · Continuous-duty rated coils.
- · Reduced manifold space claim.
- Efficient wet-armature construction.
- o Optional waterproof E-Coils rated up to IP69K.
- · Patented high-strength solenoid tube
- All HyPerformanceâ,¢ valves are tested to the rigorous standards of NFPA specification T2.6.1 and are tested at a verification level of 90% and an assurance of 99%

Symbol



Ratings

Ρ	re	S	s	u	r	е	R	а	ti	n	g	s	,

350 bar (5075 psi) Pressure rating

420 bar (6090 psi)

- Note: 10% cycle life 690 bar (10000 psi)

1380 bar (20000 psi) Burst pressure

Flow Ratings

Proof pressure

34 lpm (9 gpm) Flow rating

- Note: With 350 bar (5075 psi) at port 3 7 drops/min Maximum internal leakage

5.7 lpm (1.50 gpm) - Note: Maximum Hysteresis

Temperature Ratings

-40 to 100 °C (-40 to 212 °F) Operating fluid temperature

-26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F)

-40 to 70 °C (-40 to 160 °F)

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

- Note: With buna N seals - Note: With fluorocarbon seals

- Note: With urethane seals

Operating Parameters

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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SOLENOID PROPORTIONAL FLOW CONTROL VALVE, POPPET, NORMALLY CLOSED, PRESSURE COMPENSATED



Properties

Unit weight 0.19 kg (0.43 lb) - Note: HSPEC10-34 without coil and nut 0.20 kg (0.45 lb) - Note: HSPEC10-34T without coil and nut

- Note: Coil 24 V

Internal wetted surface area 186.8 cm² (28.95 in²) - Note: HSPEC10-34 191.2 cm² (29.64 in²) - Note: HSPEC10-34T

Electrical Parameters

Note With size 10 E-series coil

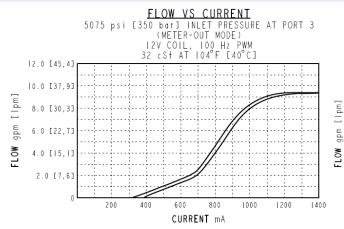
Maximum control current 1300 mA - Note: Coil 12 V

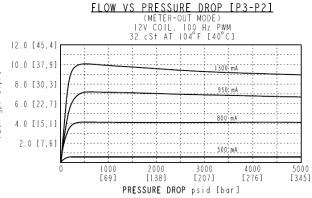
Threshhold current 300 to 500 mA - **Note**: 12 V coil 150 to 250 mA - **Note**: 24 V coil

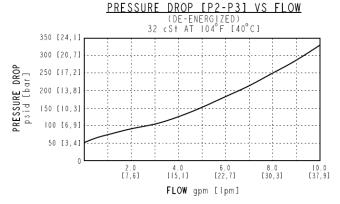
650 mA

Dither PWM frequency 100 to 200 Hz

Performance





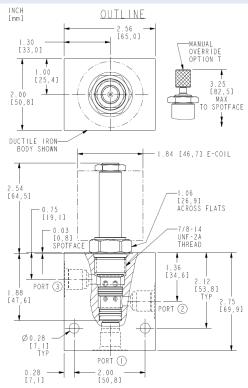


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Dimensions



NOTE: ORIFICE DISC SHOULD NOT BE USED WITH THIS PRODUCT ALL DIMENSIONS ARE FOR REFERENCE ONLY

Installation Specifications

Cavity HVC10-3

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

81 to 88 N-m (60 to 65 ft-lb) - Note: Aluminum cavity

Coil nut torque 7 to 10 N-m (5 to 7 ft-lb)

Orientation restriction None

Accessories

Seal kit HSK10-3N-TB - Note: Buna N SK10-3V-TB - Note: Fluorocarbon

SK10-3U-OO - Note: Urethane

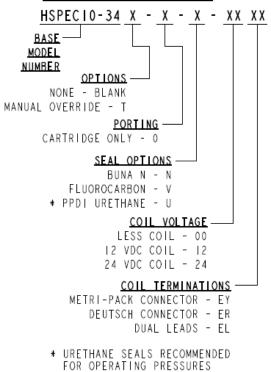
Order Code

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Model Options

HSPEC10-34E-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
Т	Variable Position Override, Red Knurled Knob

ABOVE 3500 psi [241 bar].

H Line Body

CODE	DESCRIPTION
0	No Body
8HT	Ductile iron SAE 8

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
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

SOLENOID PROPORTIONAL FLOW CONTROL VALVE, POPPET, NORMALLY CLOSED, PRESSURE COMPENSATED



CODE	DESCRIPTION
12ER	12 VDC, E-Coil, Deutsch
12EY	12 VDC, E-Coil, Metri-Pack 150
20ER	20 VDC, E-Coil, Deutsch
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
24ER	24 VDC, E-Coil, Deutsch
24EY	24 VDC, E-Coil, Metri-Pack 150

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