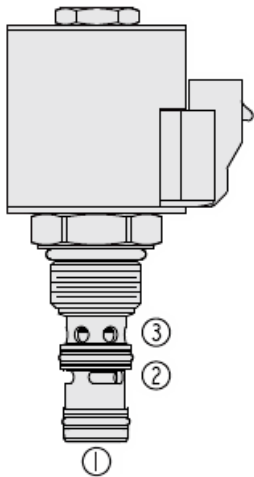




Overview



Description

A proportional solenoid-operated, 3-way, normally closed flow control, screw-in hydraulic cartridge valve intended for post-compensated applications with load sense systems. In post-compensated systems the load sense (port 1) of each of HSPEC10-32 valve is connected to highest load which maintains flow sharing when flow demand exceeds flow supply. Pressure compensation value of the valve defined as pressure difference between inlet and load sense ports is provided by appropriate setup of a pump load sense control or by additional pressure compensator valve, one for the whole system, in case if the pump is non-adjustable.

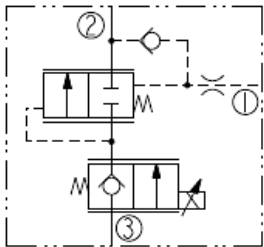
Operation

When de-energized, the hspec10-32xx blocks flow from port 3 to port 2. The valve will regulate flow out of port 2 regardless of load pressure with flow rate proportional to current applied to the solenoid.

Features

- Integral post-compensator.
- Integral load-sense.
- Reduced manifold space claim.
- Continuous-duty rated coils.
- Optional "A" type linear metering poppet.
- Manual override option.
- E-Coils rated up to IP69K.
- Flow sharing possible
- All HyPerformance 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

Pressure Ratings

Pressure rating	350 bar (5075 psi)	- Note: 10% cycle life
	420 bar (6090 psi)	
Proof pressure	690 bar (10000 psi)	
Burst pressure	1380 bar (20000 psi)	

Flow Ratings

Flow rating	34.0 lpm (9.0 gpm) (160 psi)	- Note: Hspec10-32/32t (compensation value 11 bar
	37.9 lpm (10.0 gpm) (160 psi)	- Note: Hspec10-32a/32at (compensation value 11 bar
Maximum internal leakage	7 drops/min	- Note: With at port 3 or port 1 350 bar (5075 psi)

Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	- Note: With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- Note: With fluorocarbon seals
	-54 to 107 °C (-65 to 225 °F)	- Note: With urethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

Operating Parameters

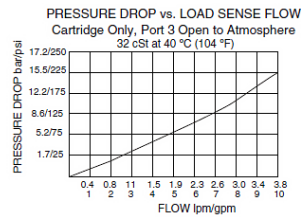
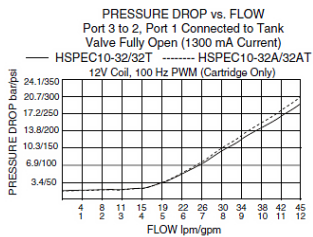
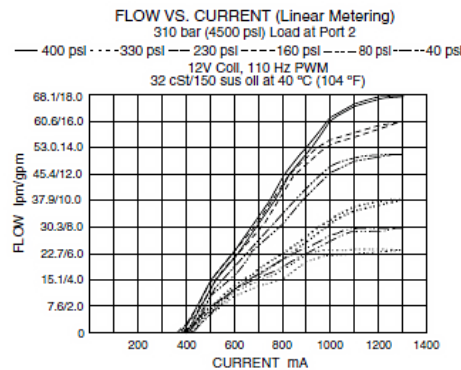
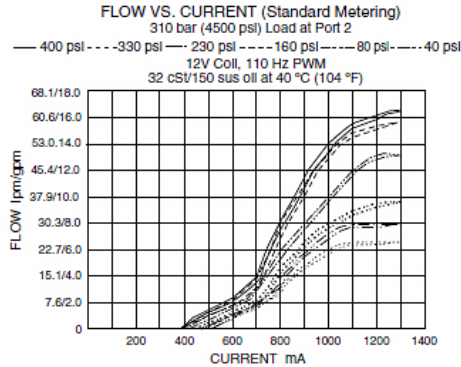
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	18/16/13 per ISO 4406



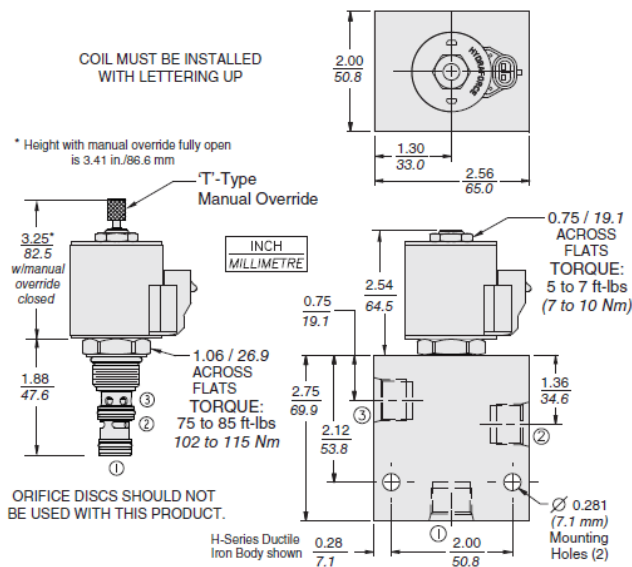
Properties

Unit weight	0.19 kg (0.41 lb) 0.20 kg (0.43 lb)	- Note: HSPEC10-32X without coil and nut - Note: HSPEC10-32XT without coil and nut
Internal wetted surface area	182.3 cm ² (28.26 in ²) 173.1 cm ² (26.83 in ²)	- Note: Hspec1032xt - Note: Hspec1032x

Performance



Dimensions



Installation Specifications

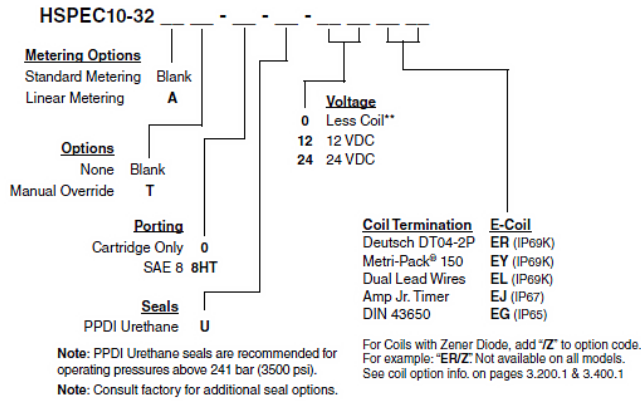
Cavity	HVC10-3	
Cartridge installation torque	102 to 115 N-m (75 to 85 ft-lb) 81 to 88 N-m (60 to 65 ft-lb)	- Note: Steel/ductile iron cavity - Note: Aluminum cavity
Coil nut torque	7 to 10 N-m (5 to 7 ft-lb)	
Orientation restriction	None	



Accessories

Seal kit	SK10-3N-MM	- Note: Buna N
	SK10-3V-MM	- Note: Fluorocarbon
	SK10-3U-OO	- Note: Urethane

Order Code



Model Options

HSPEC10-32DE-H-J-L

D Poppet Metering

CODE	DESCRIPTION
A	Linear Poppet Metering
BLANK	Standard Poppet Metering

E Manual Override

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

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



CODE	DESCRIPTION
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
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