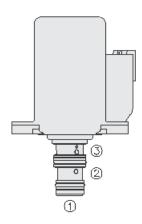
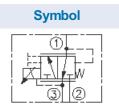


Overview





Description

This is a direct-acting, spool-type, proportional, pressure-reducing/relieving valve. It is a drop-in, flange mounted cartridge type valve for use with mineral based or synthetic (with lubricating properties) hydraulic fluids. The coil is an integral part of the valve an is not serviceable. The regulated pressure is proportional to the input electrical current in the pressure ranges shown.

<u>Operation</u>

The EHPR98-T35 allows free flow from 1 to 3 when no current is applied to the coil. When the coil is energized, 2 is connected to 1. Increasing current applied to the coil will increase the control (reduced) pressure proportionally. If pressure at 1 exceeds the setting induced by the coil, pressure from 1 is relieved to 3.

Note: Back pressure on port 3 becomes additive to the pressure setting at a 1:1 ratio.

Manual Override Operation

Rotate manual override screw clockwise until desired regulated pressure is achieved.

<u>Features</u>

- 10, 12, 20 or 24 VDC coils.
- 960 hour salt spray protection.
- Economical drop-in style.
- Several push-on termination options.
- Higher inlet pressure option A available.
- Manual override and screen options.

Application Notes

- Newer G3 products have better pull-in/drop-out performance, lower current draw, and improved hysteresis.
- G3 products install into a new cavity, however an adapted mounting plate is available for use with the T cavity.
- For new applications consider using:
- EHPR98-G35 for inlet pressures below 103 bar (1500 psi).
- EHPR98-G35A for inlet pressures above 103 bar (1500 psi).

Ratings

Pressure Ratings

Pressure rating Control pressure at maximum control	103 bar (1500 psi) 34.5 bar (500 psi) 17.2 bar (250 psi) 20.7 bar (300 psi)	 Note: Maximum supply pressure Note: Maximum tank port pressure (standard valve) Note: Maximum tank port pressure (manual override option) 	
current			
Flow Ratings			
Flow rating	5.7 lpm (1.5 gpm)		
Hysteresis per cent	4 %		
Maximum internal leakage	75 ml/min (4.58 in³/mir SUS)	• Note: At de-energized, oil 25 bar (365 psi) 32 cSt (150	
	125 ml/min (7.63 in³/m	in) - Note: Energized at imax, at 25 bar (365 psi)	
Temperature Ratings			
Operating fluid temperature	-40 to 120 °C (-40 to 250 °F)		
Storage temperature	-40 to 80 °C (-40 to 176 °F)		
Ambient temperature	-40 to 80 °C (-40 to 17	6 °F)	
<u>Other Ratings</u>			
Corrosion protection	960 hour Salt-spray		



Operating Parameters

FluidsMineral based or synthematicFluid viscosity range7.4 to 420 cSt (50 to 20Maximum operating contamination level20/18/14 per ISO 4406

Mineral based or synthetic hydraulic fluid with lubricating properties 7.4 to 420 cSt (50 to 2000 SUS)

Properties

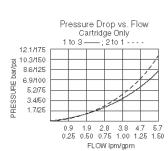
Unit	weight
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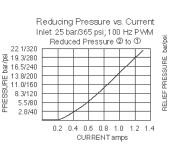
0.20 kg (0.44 lb)

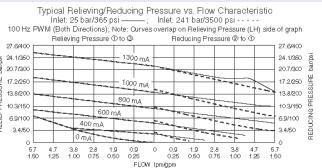
Electrical Parameters

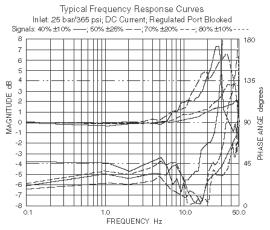
Maximum control current	1.38 A - Note: 10 V 1.30 A - Note: 12 V 0.69 A - Note: 20 V 0.65 A - Note: 24 V
Note	For other voltages, consult HydraForce
Dither PWM frequency	100 Hz
Valve inductance	80 mH - Note: 12 V coil

Performance

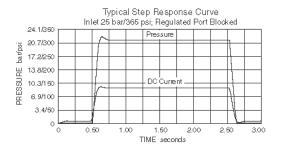






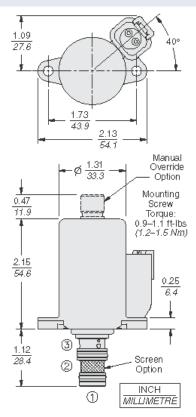


Note: For additional Frequency Response or Step Response information, consult factory.





Dimensions

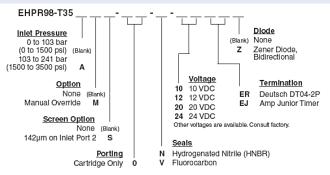


Installation Specifications

Orientation restriction	None	
Accessories		
Seal kit	SKEHPR98-T3N	- Note: HNBR



Order Code



Model Options

EHPR98-T35DEG-H-J-KL

D Inlet Pressure Range

D miet Pressur					
	CODE		DESCRIPTION		
А	1500 to	1500 to 3500 psi Inlet Pressure			
BLANK	0 to 150	0 to 1500 psi Inlet Pressure			
E Manual Overr	ide				
COD	E		DESCRIPTION		
BLANK	NONE				
Μ	Minimum Regulated	Pressure Override, 3/16" Inter	nal Hex		
G Screen					
	CODE		DESCRIPTION		
BLANK		NONE			
S		100 Mesh Screen			
H Line Body					
	CODE		DESCRIPTION		
0		No Body			
J Seal					
	CODE		DESCRIPTION		
Ν		Buna-N			
V		Fluorocarbon			
K Coil Voltage					
	CODE		DESCRIPTION		
10		10 VDC			
12		12 VDC			
20		20 VDC			
24		24 VDC			
L Coil Terminat	tion				
	CODE		DESCRIPTION		
EJ		E-Coil, AMP Jr.			
ER		E-Coil, Deutsch			