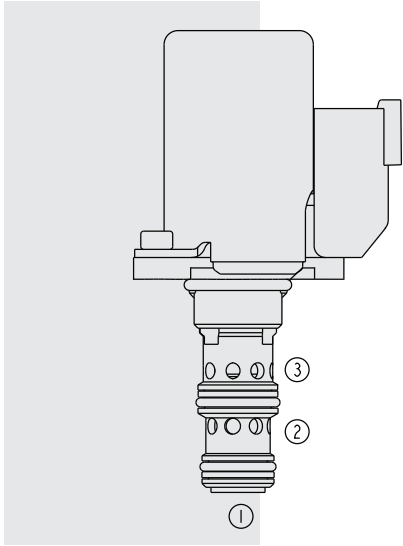


EHPR98-T38B Proportional Reducing/Relieving



DESCRIPTION

A direct-acting, spool-type, proportional, drop-in-style, flange-mounted, pressure reducing/relieving valve, which can be infinitely adjusted across a prescribed range using a variable electric input. Pressure output is proportional to DC current input. The E-coil is an integral part of the valve assembly, and cannot be replaced or field-serviced.

OPERATION

The **EHPR98-T38B** 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 2.

Note: Operation of manual override option: Rotate manual override screw clockwise until desired regulated pressure is achieved.

FEATURES

- Economical drop-in style.
- 1000-hour salt spray protection.
- Integral waterproof coil standard.
- Optional 142 micron screen at inlet.

RATINGS

Maximum Inlet Pressure: 241 bar (3500 psi) at Port 2; 57 bar (820 psi) at Port 1; 34 bar (500 psi) at Port 3.

Flow Rating: 18.9 lpm (5.0 gpm)

Maximum Internal Leakage: Energized: 393 ml/min. (24 cu. in./min.) at 241 bar (3500 psi); De-energized: 100 ml/min. (6 cu. in./min.) at 241 bar (3500 psi)

Cycle Life: One million cycles.

Oil Operating Fluid Temperature: -40° to 149°C (-40° to 300°F)

Storage Temperature: -40° to 70°C (-40° to 160°F)

Ambient Temperature: -40° to 80°C (-40° to 176°F)

Maximum Control Current: 1.38 amps for 10 VDC coil; 1.30 amps for 12 VDC coil; 0.69 amps for 20 VDC coil; 0.65 amps for 24 VDC coil

Control Pressure at Maximum Control Current: 56.6 bar (820 psi)

Hysteresis: at 100 Hz PWM: 4% of maximum control pressure

Resistance: 4.3 ohm (10V); 5.2 ohm (12V); 17.5 ohm (20V); 20.9 ohm (24V)

Valve Inductance: 80 mH (12V)

Environmental Rating: IP69K

Filtration: See page 9.010.1

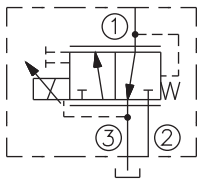
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Cavity: VC-T011; See page 9.111.1

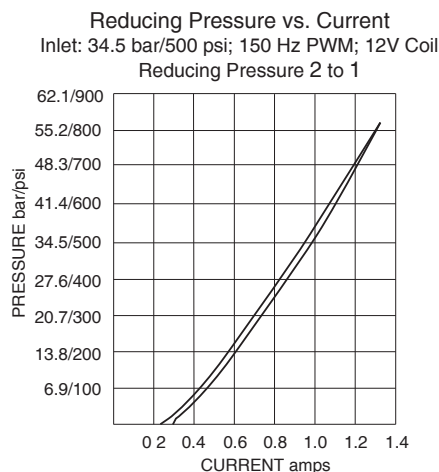
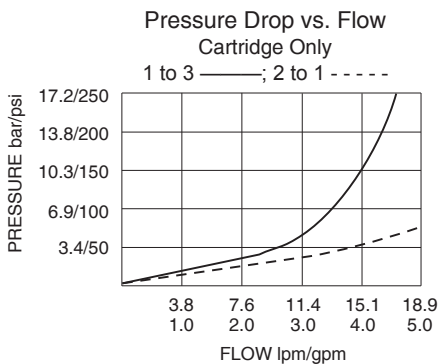
Cavity Tool: CT-T011R0-x-G; See page 8.600.1

Seal Kits: SK-T011-N; SK-T011-V; See page 8.650.1

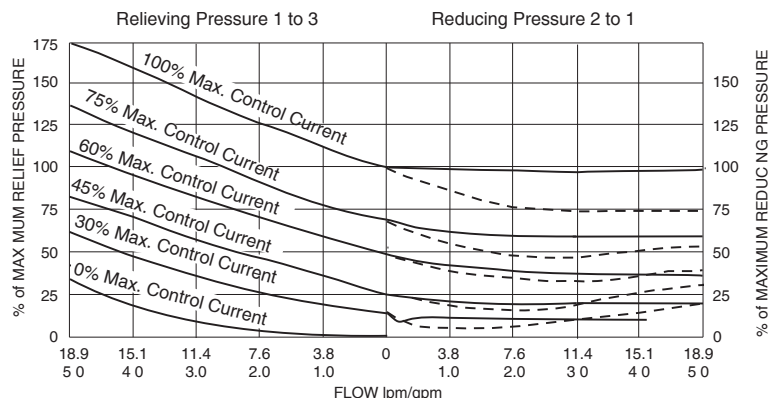
ISO SYMBOL



PERFORMANCE



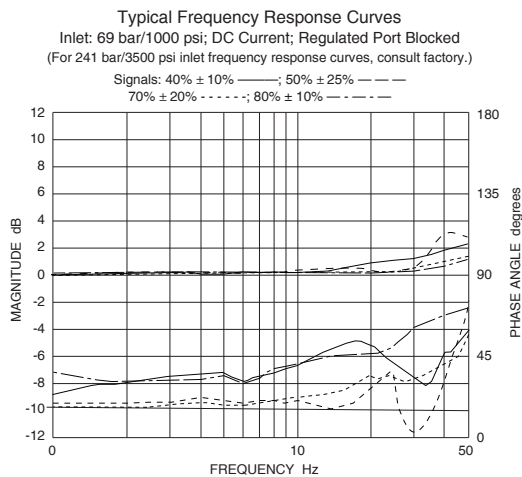
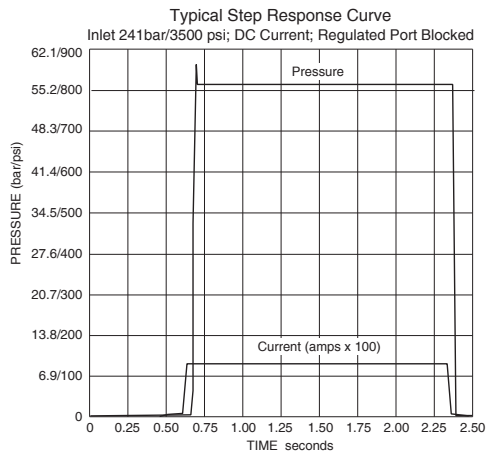
Typical Relieving/Reducing Pressure vs. Flow Characteristic
Typical Relieving Pressure at Various %s of Maximum Control Current
Inlet: 69 bar/1000 psi ———; Inlet 241 bar/3500 psi - - - - -
(Curves overlap on Relieving Pressure side of graph); 150 Hz PWM (Both Directions)



Drop-In-Style Valve

EHPR98-T38B

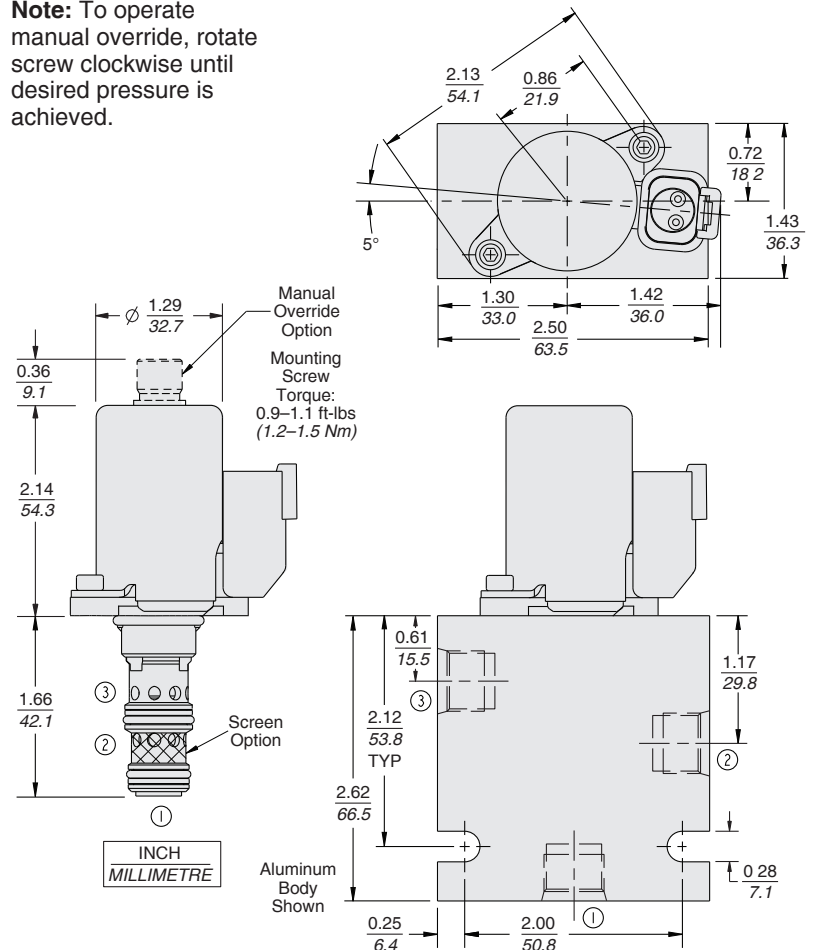
PERFORMANCE (continued)



Recommended Electronic Controllers:
 See page 2.001.1 or our Electronics catalog.

DIMENSIONS

Note: To operate manual override, rotate screw clockwise until desired pressure is achieved.



MATERIALS

Cartridge including Coil: Weight: 0.32 kg. (0.70 lbs.) Steel with hardened work surfaces. Zinc-Nickel plated exposed surfaces. HNBR O-rings standard. Coil is encapsulated, high-temperature magnet wire with zinc-nickel plated shell.

Ported Body: Consult Factory

Mounting Screws: Must be ordered separately: Part No. 4001015

TO ORDER

EHPR98-T38B

Option	None (Blank)										
Manual Override	M										
Screen Option	None (Blank)										
142 micron inlet port	S										
Porting											
Cartridge Only	0										
SAE 6	6T										
SAE 8	8T										
1/4 in. BSP*	2B										
3/8 in. BSP*	3B										
Voltage											
10	10 VDC										
12	12 VDC										
20	20 VDC										
24	24 VDC										
Diode											
(Blank)	None										
Z	Zener Diode, Bidirectional										
Termination											
ER	Deutsch DT04-2P										
EJ	Amp Junior Timer										
	Other voltages are available. Consult factory.										
Seals											
N	Hydrogenated Nitrile (HNBR)										
V	Fluorocarbon										

*BSP Body; U.K. Mfr. Only