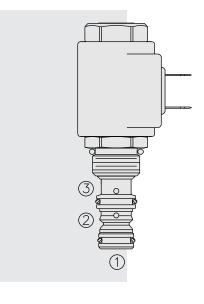
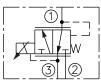
EHPR08-33 Proportional Reducing/Relieving Valve

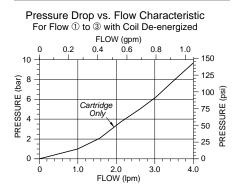


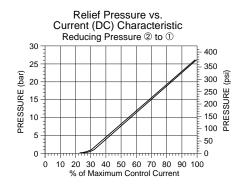
SYMBOLS

USASI/ISO:



PERFORMANCE





DESCRIPTION

A screw-in, cartridge-style, direct acting, spool-type 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. This valve is intended for use as a pressure control device in demanding applications.

OPERATION

The **EHPR08-33** 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.

FEATURES

- 12 and 24 volt coils standard.
- Optional manual override.
- Industry common cavity.
- Optional waterproof E-coils rated up to IP69K.

RATINGS

Maximum Inlet Pressure at port 2: 207 bar (3000 psi) Maximum Tank Pressure at port 3: 34.5 bar (500 psi)

Maximum Control Current: 1.2 amps for 12 VDC coil; 0.6 amps for 24 VDC coil; For other voltages, consult factory

Dither Frequency Required: 200 Hz

Typical Frequency Response: See Section 10

- Hysteresis: Less than 3%
- **Reducing/Relieving Pressure Range from Zero to Maximum Control Current:** 0–26 bar (0–375 psi)
- Rated Flow: 4.0 lpm (1.05 gpm), ∆P=6 bar (87 psi), Cartridge only, ① to ③ coil de-energized
- Step Response: TON <30 ms; TOFF <12 ms
- Flow Path: Free Flow: ① to ③ coil de-energized; Reduced: ② to ① coil energized; Relieving: ① to ③ coil energized
- Temperature: -40 to 120°C (-40 to 250°F), with standard Buna N seals

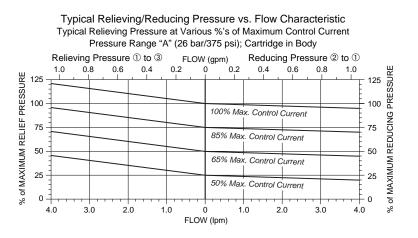
Ambient Air Temperature: -40 to 80°C (-40 to 176°F)

Filtration: See page 9.010.1

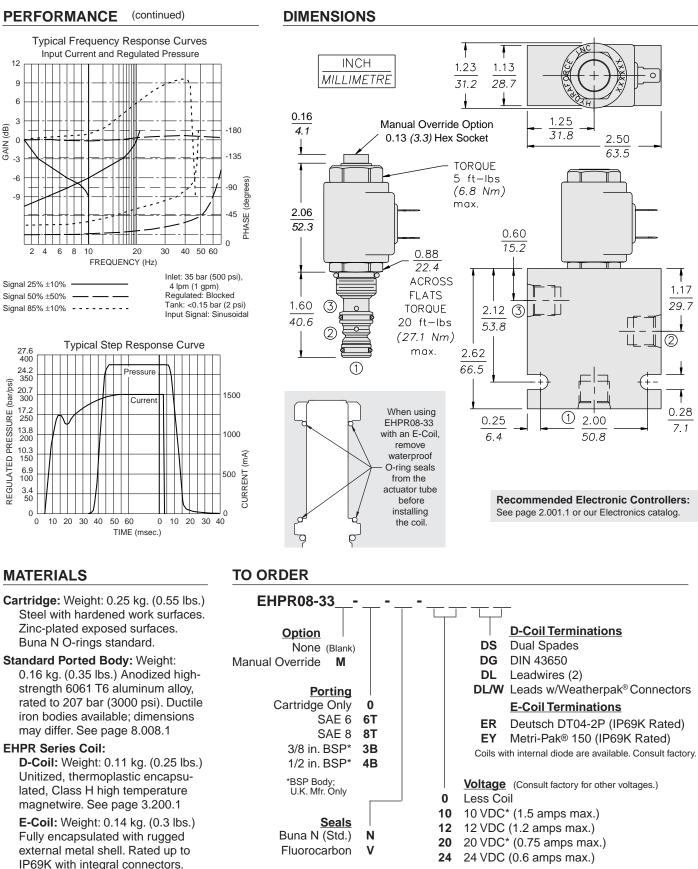
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of

7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1 **Installation:** No restrictions; See page 9.020.1

Cavity: VC08-3; See page 9.108.1; **Cavity Tool:** CT08-3XX; See page 8.600.1 **Seal Kit:** SK08-3X-00; See page 8.650.1



EHPR08-33



See page 3.400.1

1.17

29.7

0.28

7.1