

# EHPR08-33

## Proportional Reducing/Relieving Valve, 207 BAR Rated

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.



Voltage	Hydraforce code	Article no.	Price £	Price €
<b>CARTRIDGE VERSION</b>				
24V DC	EPHR08-33-0-N-24DG	EPHR0833C24	£263.80	€316.60
<b>INLINE WITH BODY 3/8" BSP</b>				
24V DC	EPHR08-33-3B-N-24DG	EPHR08333B24	£332.50	€399.00
<b>INLINE WITH BODY 1/2" BSP</b>				
24V DC	EPHR08-33-4B-N-24DG	EPHR08334B24	£353.50	€424.20

**with nitril seals**

**WITH 'G' DIN CONNECTOR PLUG**

On request - Viton Seals - Screen filter protection - Manual Override  
 On request - For DC coils with spade or push on connections

### Materials

#### Cartridge:

Weight: 0.25 kg. (0.55 lbs.)  
 Steel with hardened work surfaces.  
 Zinc-plated exposed surfaces.  
 Buna N O-rings standard.

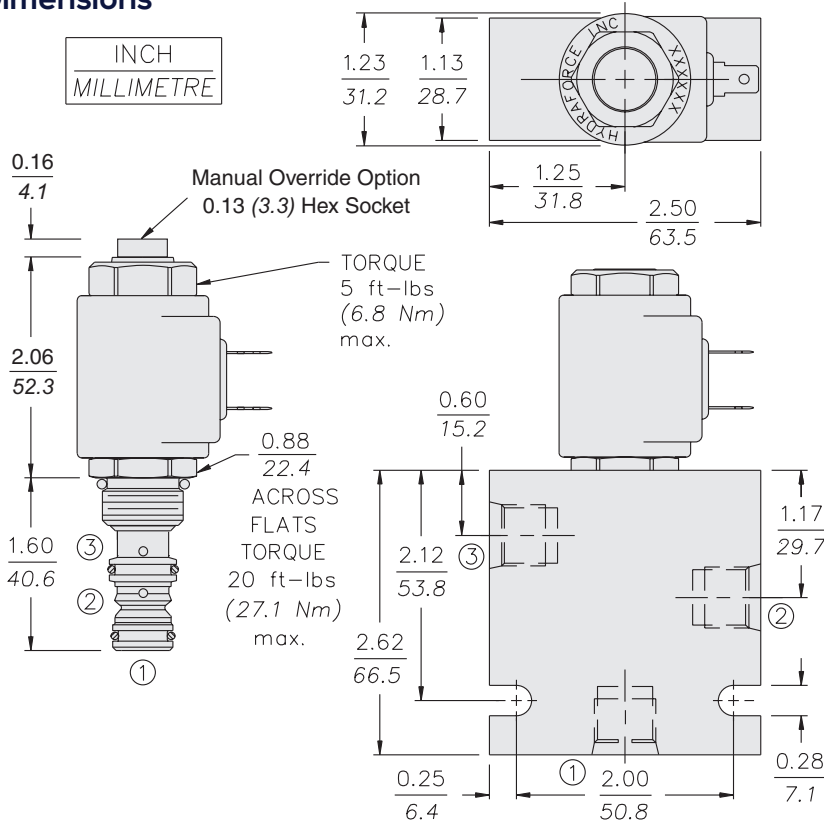
#### Standard Ported Body:

Weight: 0.16 kg. (0.35 lbs.)  
 Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi).  
 Ductile iron bodies available; dimensions may differ.

#### EHPR Series Coil:

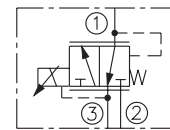
D-Coil: Weight: 0.11 kg. (0.25 lbs.)  
 Unitized, thermoplastic encapsulated.

### Dimensions



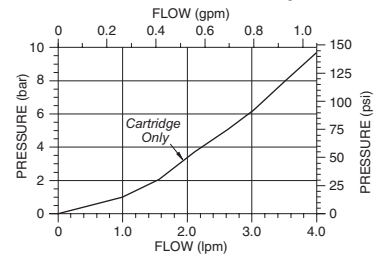
### Symbols

#### USASI/ISO:

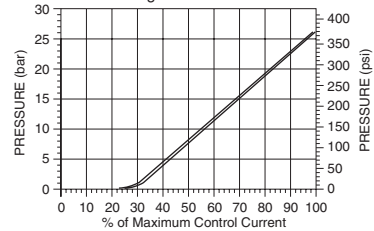


### Performance

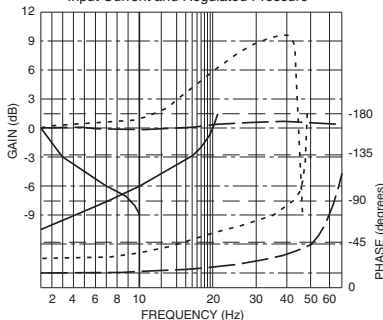
Pressure Drop vs. Flow Characteristic  
 For Flow ① to ③ with Coil De-energized



Relief Pressure vs. Current (DC) Characteristic  
 Reducing Pressure ② to ①



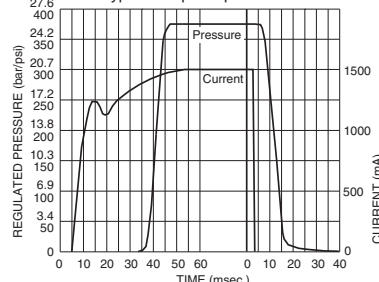
Typical Frequency Response Curves  
 Input Current and Regulated Pressure



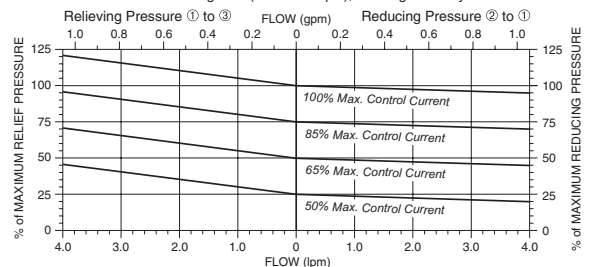
Signal 25% ±10% ————  
 Signal 50% ±50% - - - - -  
 Signal 85% ±10% ······

Inlet: 35 bar (500 psi),  
 4 lpm (1 gpm)  
 Regulated: Blocked  
 Tank: <math>\leq 0.15</math> bar (2 psi)  
 Input Signal: Sinusoidal

Typical Step Response Curve



Typical Relieving/Reducing Pressure vs. Flow Characteristic  
 Typical Relieving Pressure at Various %'s of Maximum Control Current  
 Pressure Range "A" (26 bar/375 psi); Cartridge in Body



Please contact our technical sales team for electronic controller options