General Description

Proportional Relief Valve. Decreasing Pressure With Increasing Current. For additional information see Technical Tips on pages PV2-PV5.

Features

- Analog Proportional Relief Valve regulates pressure proportionally to the input solenoid current
- Direct acting poppet design
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Symmetrical coil can be reversed without affecting performance.

Specifications

Rated Flow (At 70 PSI ΔP)	**21A** 3.0 LPM (0.8 GPM) **35A** 1.3 LPM (.35 GPM)
Factory Set Relief Pressure When De-Energized (±5% -Std. ±2% - Low Variation)	**21A** 210 Bar (3000 PSI) **35A** 350 Bar (5000 PSI)
Port 2 Pressure Limit	103 Bar (1000 PSI)
Hysteresis @ 200 Hz PWM	< 10%
Cracking Pressure	**21C** 0.21 Bar (3 PSI) **35C** 0.35 Bar (5 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-37°C to +93°C ("D"-Ring) (-35°F to +200°F) -34°C to +121°C (Nitrile Buna-N) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO-4406 18/16/13, SAE Class 4
Approx. Weight	0.09 kg (0.19 lbs.)
Cavity	C08-2 (See BC Section for more details)

Performance Curves

▲PWM Current Regulator Recommended

Relief Performance

Pressure vs. Input Current

Dimensions Millimeters (Inches)

Ordering Information

AP02B2YR		L
08 Size Proportional Relief Valve	Max Relief Setting	Low Variation Now Standard

Highlighted represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

Coil(s) sold separately. Please see section CE of this catalog, 5/8" Super-Coil (CA series), for ordering information.

Code	Max Relief Setting
21A	210 Bar (3000 PSI)
35A	350 Bar (5000 PSI)

Code	Seals
Omit	"D"-Ring

Order Bodies Separately
See section BC

B08	–	2	–	6T
08 size		2-Way Cavity		Port Size

Code	Porting / Body Material
6T	SAE-6 / Steel (5000 PSI)

Kit	Part Number
D-Ring Seal	SK08-2
Nitrile Seal	SK08-2
Fluorocarbon Seal	SK08-2V