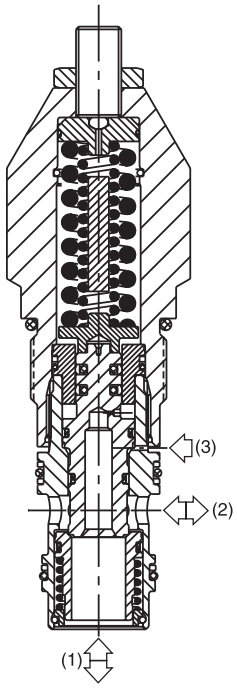
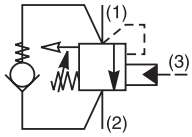
General Description

Threaded Cartridge Style Counterbalance Valve. Pilot assisted, designed for motion control applications
For additional information see Technical Tips on pages LM1-LM4.





Features

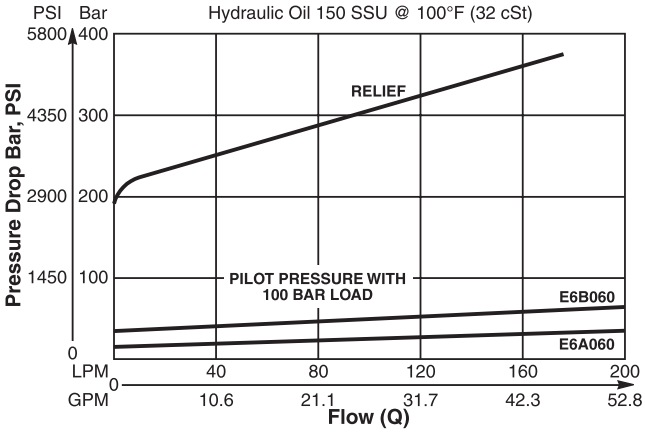
- High flow design with extra dampening
- Spring chamber isolated from system backpressure by double seal, eliminating vent port leakage and need for separate drain line
- Poppet construction for minimal leakage
- Incorporates direct acting relief valve for overload protection
- Includes reverse check valve within body, saving space and minimizing installation cost
- Hardened working parts for maximum durability
- Adjustable and tamper resistant versions available
- All external parts zinc plated

Specifications

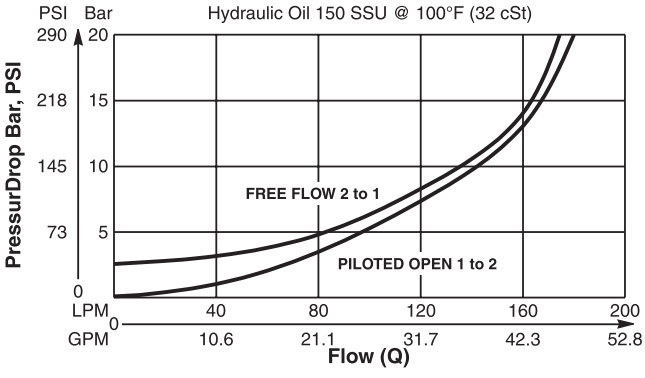
Rated Flow	180 LPM (48 GPM)
Pressure	50 to 350 Bar (725 to 5000 PSI)
Sensitivity: Pressure / Turn	50 Bar (725 PSI)
Pilot Ratio	3 : 1
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-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	0.53 kg (1.17 lbs.)
Cavity	3C (See BC Section for more details)

Performance Curves

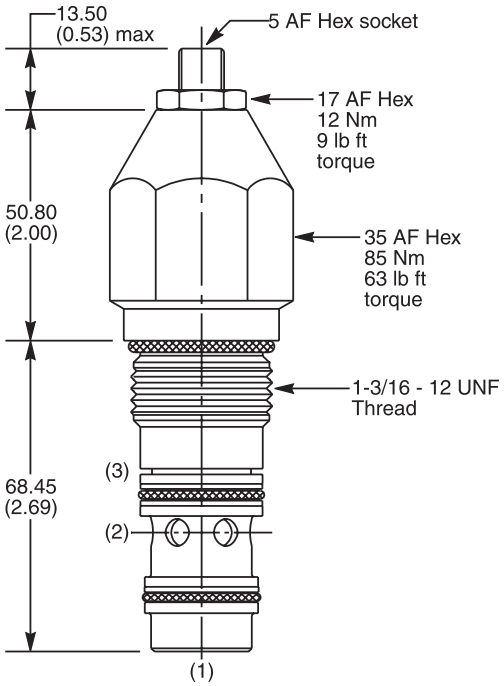
Relief & Pilot Performance 1 to 2



Pressure Drop vs Flow



Dimensions Millimeters (Inches)



Ordering Information

E6	B	060	Z	N	409
Load Control Valve	Pilot Ratio		Adjustment Style	Seals	Suffix Number

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

Code	Pilot Ratio
B	3 : 1

Code	Adjustment Style
Z	Screw Adjust (Standard)

Code	Seals / Kit No.
N	Nitrile, Buna-N (Std.) / (SK30008N-1)

Code	Suffix Number
409	High flow design with extra dampening

Standard valve is set to crack at 215 Bar (3120 PSI). Valve to be set to 1.3 times maximum load induced pressure.

Other settings are available, please contact Parker Sales.

Order Bodies Separately
See section BC

LB10		
Line Body	Porting	Body Material

Code	Porting
069	1″ SAE (main) 1/4″ SAE (aux)
234	3/4″ SAE Dual Cavity

Code	Body Material
S	Steel
A	Aluminium