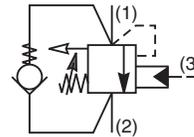
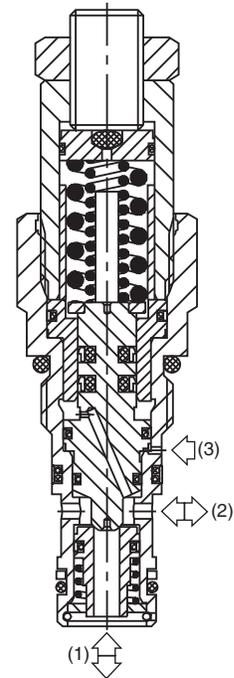


General Description

Threaded Cartridge Style Counterbalance Valve.
Pilot assisted, designed for motion control applications
For additional information see Technical Tips on pages LM2-LM5.

Features

- 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
- Small and compact, can be fitted directly into cylinder
- All external parts zinc plated

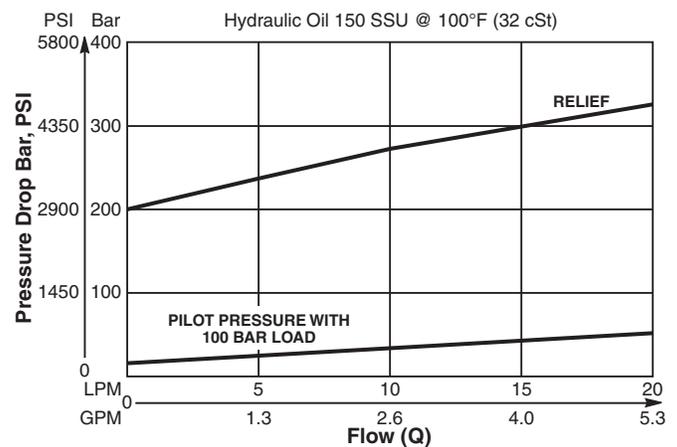


Specifications

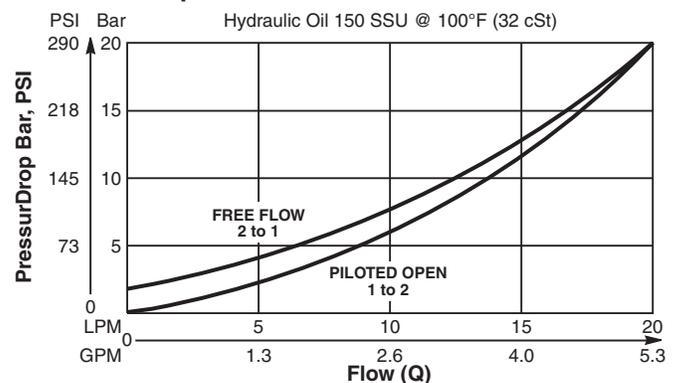
| | |
|-----------------------------------|--|
| Rated Flow | 20 LPM (5.3 GPM) |
| Pressure | 50 to 420 Bar (725 to 6000 PSI) |
| Sensitivity: Pressure / Turn | 84 Bar (1220 PSI) |
| Pilot Ratio | 4.5 : 1 |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. 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 | 0.13 kg (0.29 lbs.) |
| Cavity | 53-1 (See BC Section for more details) |

Performance Curves

Relief & Pilot Performance 1 to 2



Pressure Drop vs Flow



CV
Check Valves

SH
Shuttle Valves

LM
Load/Motor Controls

FC
Flow Controls

PC
Pressure Controls

LE
Logic Elements

DC
Directional Controls

SV
Solenoid Valves

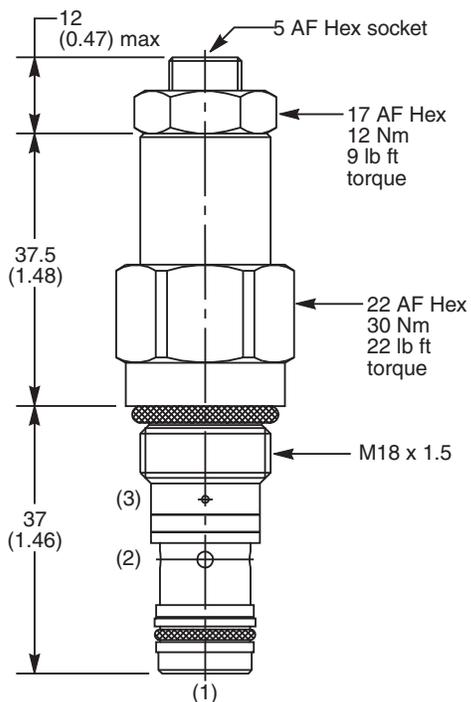
PV
Proportional Valves

CE
Coils & Electronics

BC
Bodies & Cavities

TD
Technical Data

Dimensions Millimeters (Inches)



Ordering Information

| | | | | |
|--------------------|-------------|------------|------------------|----------|
| E6 | B | 020 | Z | N |
| Load Control Valve | Pilot Ratio | | Adjustment Style | Seals |

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

| Code | Pilot Ratio |
|------|-------------|
| B | 4.5 : 1 |

| Code | Adjustment Style |
|------|-------------------------|
| Z | Screw Adjust (Standard) |

| Code | Seals |
|------|---------|
| N | Nitrile |

| Kit | Part Number |
|----------------------|-------------|
| Tamper Resistant Cap | TC1130K |
| Nitrile Seal | SK30087N-1 |
| Fluorocarbon Seal | SK30087V-1 |

Order Bodies Separately
See section BC

| | | |
|-------------|------------|---------------|
| LB10 | 318 | S |
| Line Body | Porting | Body Material |

| Code | Porting |
|------|-----------------------------------|
| 318 | 3/8" SAE (main) 1/4" SAE (aux) |

| Code | Body Material |
|------|-------------------|
| S | Steel / (5000PSI) |

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

- CV
- Check Valves
- SH
- Shuttle Valves
- LM
- Load/Motor Controls
- FC
- Flow Controls
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- Pressure Controls
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- BC
- Bodies & Cavities
- TD
- Technical Data