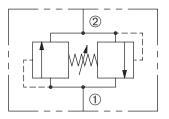
DBRV-100

Adjustable, Bi-Directional Relief Valve

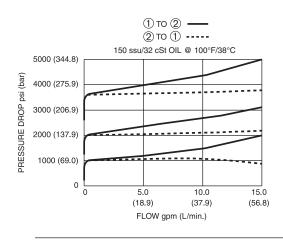


SERIES 10





PRESSURE DROP VS. FLOW



DESCRIPTION

An adjustable, bi-directional poppet type cartridge valve designed to limit pressure in hydraulic circuits.

OPERATION

The DBRV-100 is comprised of two relief valves which prevent flow from 1 to 2 or 2 to 1 until the set crack pressure is achieved at either port 1 or 2. When the set crack pressure is reached, the poppet unseats allowing flow from 1 to 2 or 2 to 1 protecting the circuit from over pressurization.

FEATURES and BENEFITS

- Rapid response to pressure surges.
- · Low pressure rise.
- · Hardened poppet and seat for long life.
- · Hidden adjustment (tamper resistant) option.
- · Aluminum knob and disc nut option.
- Adjustment may be locked in place.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 3600 psi (248 bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Nominal Flow 15 gpm (56.8 lpm)

Internal Leakage: 5 in³/min (82cc/min) max. at reseat.

Crack Pressure Defined: Determined at .25 gpm (0.9 lpm)

Reseat Pressure: Nominal 80% of crack pressure.

Spring Range: 100 to 3600 psi (7 to 248 bar)

Preset (See HOW TO ORDER)

Temperature: -30°F to +250°F (-35°C to +120°C).

Recommended Filtration: ISO 20/18/14

Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

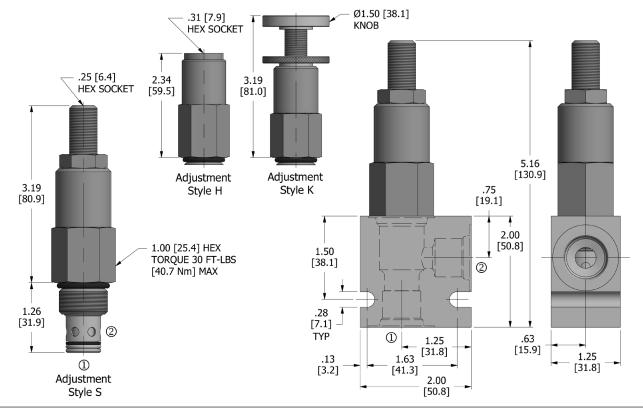
Cavity/Cavity Tool: 100-2, see page 11.10.2 In-Line Body Material: Anodized 6061T6 aluminum alloy rated at 3000 psi (207 bar).



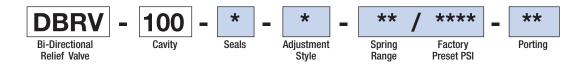
DBRV-100 Adjustable, Bi-Directional Relief Valve

SERIES 10

DIMENSIONS Inches [Millimeters]



HOW TO ORDER



Seals		Seal Kit	
N	Buna N	DSK-100-2-N-C	
V	Viton		

Adjustment Style		
Н	Hidden	
K	Knob	
S	Screw	

	Spring Range	Preset
6	100 to 600 psi (7 to 41 bar)	300 psi (21 bar)
20	500 to 2000 psi (34 to 138 bar)	1000 psi (69 bar)
36	600 to 3600 psi (41 to 248 bar)	2000 psi (138 bar)

Factory Preset PSI		
omit	Standard preset	
****	**** example: 2550 = 2550 psi	

Porting		In-Line Body	
omit	Cartridge only	w/o Cartridge	
2N	1/4 PTF	B-100-2-2N	
3N	3/8 PTF	B-100-2-3N	
6T	SAE 6	B-100-2-6T	
8T	SAE 8	B-100-2-8T	

[†] Other options available - consult factory