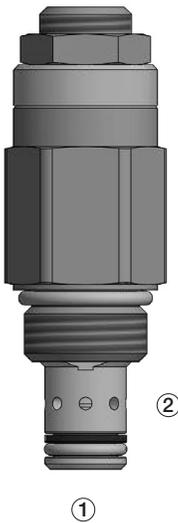
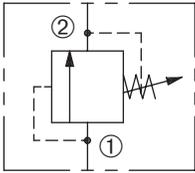


DPOR-080

Adjustable, Pilot-Operated
Relief Valve
5000 psi (345 bar)

SERIES 8



DESCRIPTION

An adjustable, pilot-operated spool cartridge valve designed to limit flow in hydraulic circuits.

OPERATION

The DPOR-080 prevents flow from ① to ② until pressure at ① exceeds the set crack pressure and opens the pilot section. The pilot flow creates a pressure differential across the spool which causes the valve to open allowing flow from ① to ② and thus protecting the circuit from over pressurization.

FEATURES and BENEFITS

- Rapid response to pressure surges.
- Quiet operation.
- Low pressure rise.
- High accuracy of pilot operated design.
- Hardened parts for long life.
- Adjustment may be locked in place.
- Hidden adjustment (tamper resistant) option.
- Adjustment prevents spring from going solid.
- Industry common cavity.
- High flow capacity.

SPECIFICATIONS

Operating Pressure: 5000 psi (345 bar)

Flow: See PRESSURE DROP VS. FLOW graph
Nominal Flow 20 gpm (75.7 lpm)

Internal Leakage: 5 in³/min (82 cc/min) max. at 80% of crack pressure

Crack Pressure Defined: Determined at .25 gpm (1.0 lpm)

Re-Set Pressure: Nominal 80% of crack pressure.

Spring Range: 300 to 5000 psi (21 to 345 bar)
Preset (See HOW TO ORDER)

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

Recommended Filtration: ISO 17/15/13

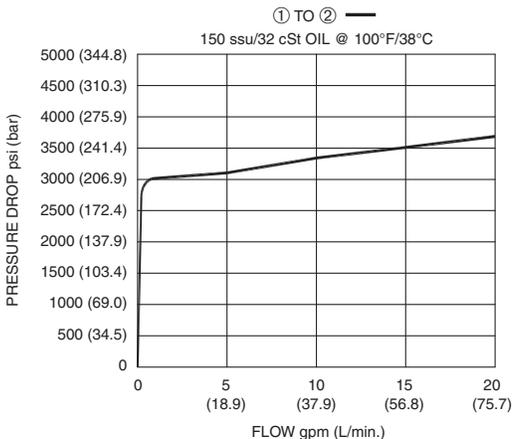
Fluids: Mineral-based fluids.

For other fluid compatibility, consult factory

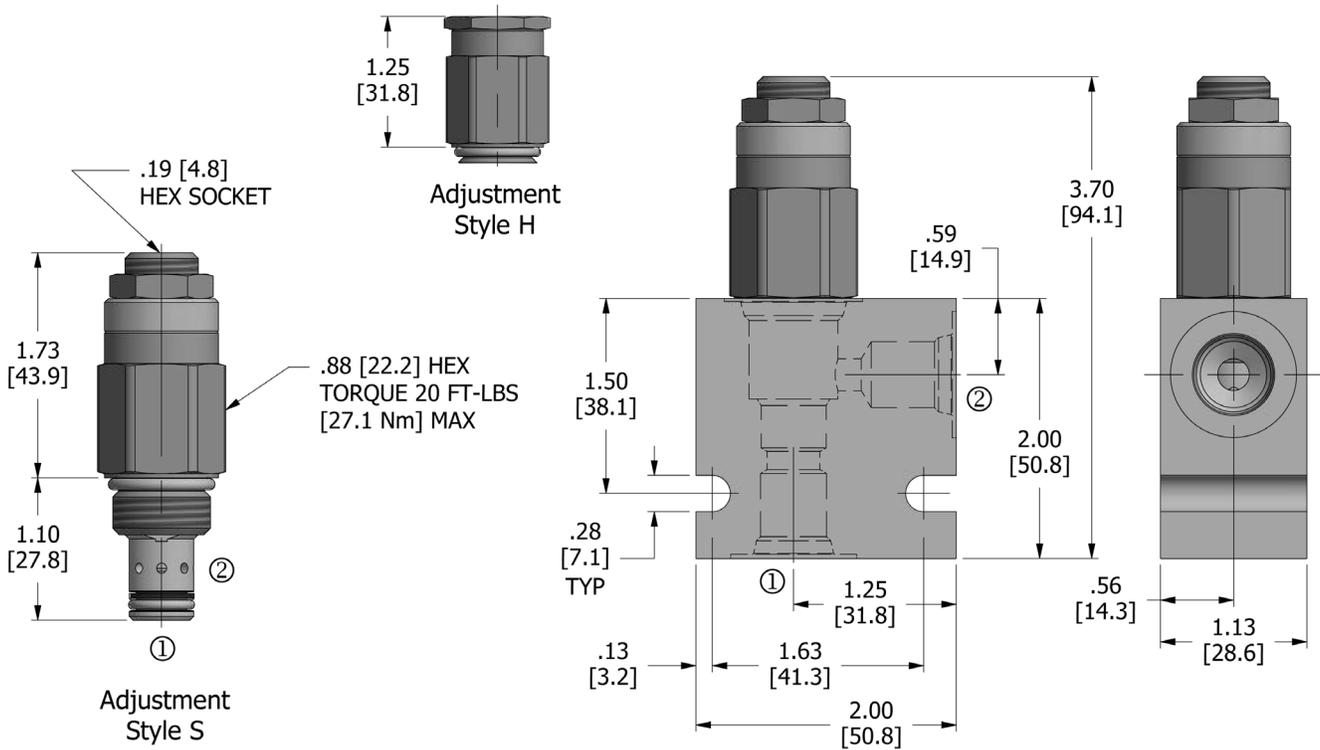
Cavity/Cavity Tool: 080-2, see page 11.08.2

In-Line Body Material: Anodized 6061T6 aluminum
alloy rated at 3000 psi (207 bar).

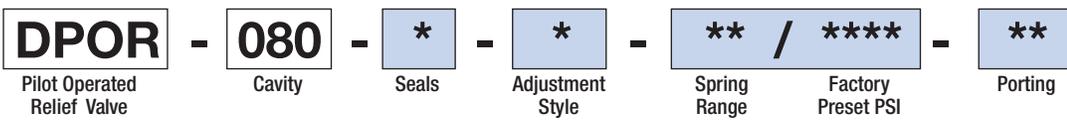
PRESSURE DROP VS. FLOW



DIMENSIONS Inches [Millimeters]



HOW TO ORDER



Seals	Seal Kit
U Urethane	

Adjustment Style	
H	Hidden
S	Screw

Spring Range		Preset
20	300 to 2000 psi (21 to 138 bar)	1500 psi (103 bar)
50	300 to 5000 psi (21 to 345 bar)	4000 psi (276 bar)

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

Porting†		In-Line Body w/o Cartridge
omit	Cartridge only	
2N	1/4 PTF	B-080-2-2N
3N	3/8 PTF	B-080-2-3N
4T	SAE 4	B-080-2-4T
6T	SAE 6	B-080-2-6T

† Other options available – consult factory

Valve and In-Line Body are supplied individually and need to be assembled. For a completed assembly consult the factory.

All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.