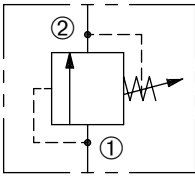


DPOR-080

Adjustable, Pilot-Operated
Relief Valve

SERIES 8

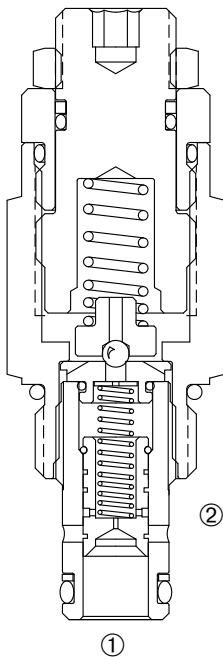


DESCRIPTION

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

OPERATION

The DPOR-100 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.
- Tamper resistant option.
- Adjustment prevents spring from going solid.
- Industry common cavity.
- Compact size.
- High flow capacity.

SPECIFICATIONS

Operating Pressure: 5000 PSI (345 Bar)

Flow: See PRESSURE DROP VS. FLOW graph

Internal Leakage: 5 in.³/min (82 cc/min.) max. at 80% of crack pressure

Crack Pressure Defined: Determined at .25 GPM (1.0 L/min.)

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

Spring Range: 300 to 5000 PSI (20 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

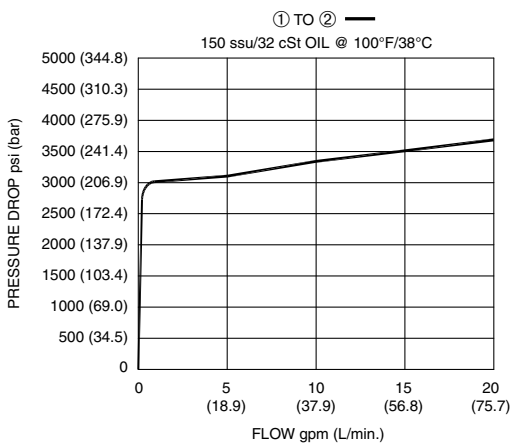
Fluids: Mineral-based fluids.

For other fluid compatibility, consult factory

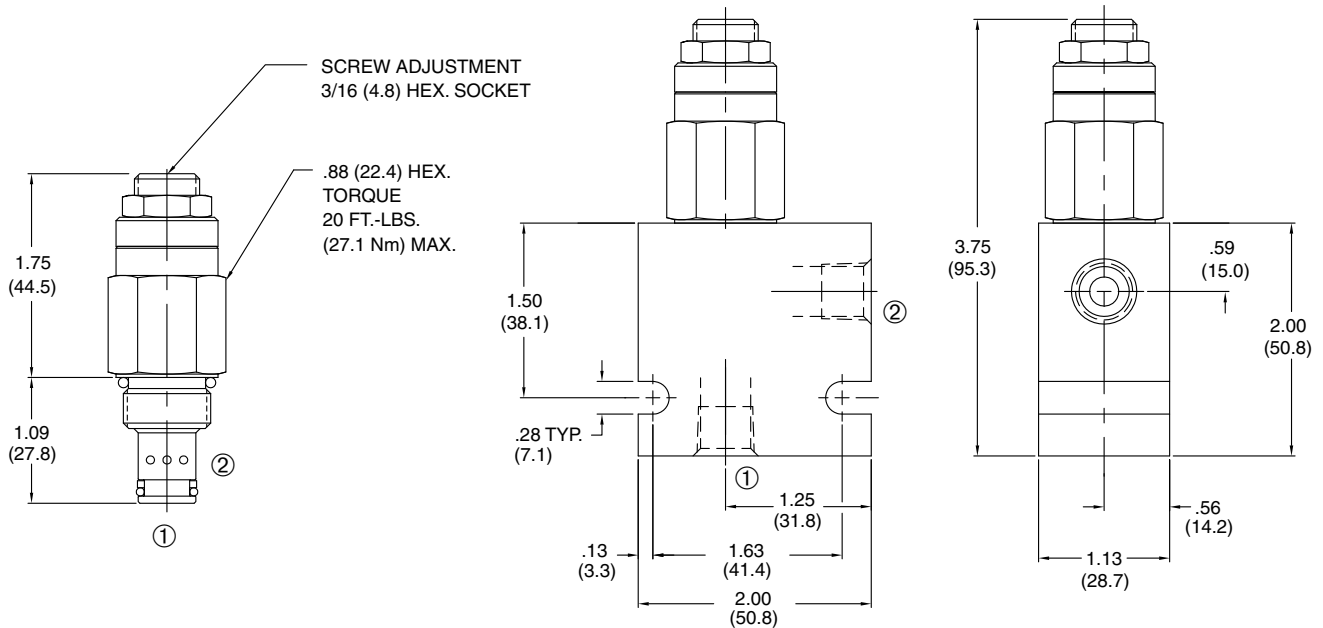
Cavity/Cavity Tool: 080-2, see page 11.08.2

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

PRESSURE DROP VS. FLOW

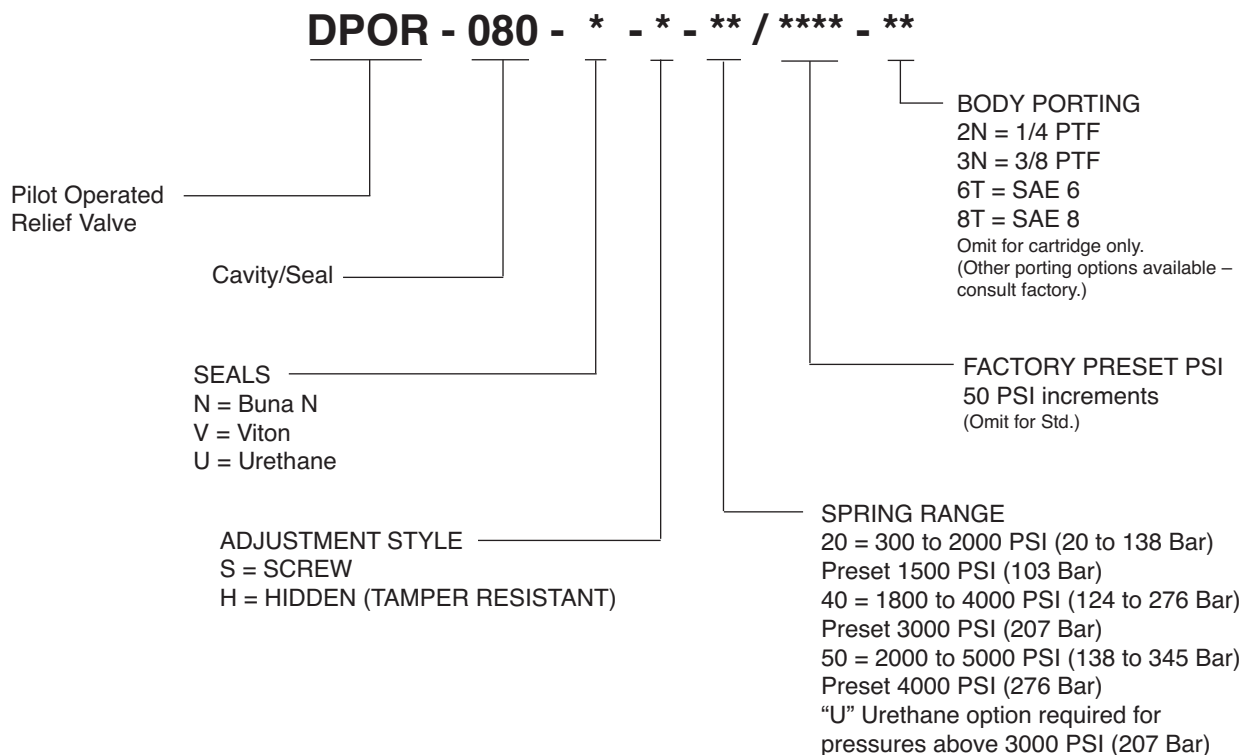


INSTALLATION DIMENSIONS



() Parentheses = Millimeters

HOW TO ORDER



SOLENOID
CHECK
MOTION CONTROL
FLOW CONTROL
RELIEF
PRESSURE CONTROL
SEQUENCE
SHUTTLE
DIRECTIONAL VALVES
ACCESSORIES
TECHNICAL DATA