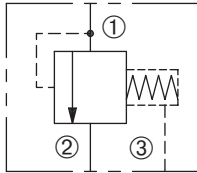


DDPS-160

Differential Pressure
Sensing Valve

SERIES 16



DESCRIPTION

A fixed spool cartridge valve designed to direct oil to a circuit when a predetermined pressure differential has been reached.

OPERATION

The DDPS-160 in the steady state blocks flow from ① to ②.

When the predetermined pressure differential between ① and ③ is achieved, the spool shifts to allow flow from ① to ②.

FEATURES and BENEFITS

- High flow capabilities.
- Hardened precision spool and sleeve for long life.
- Pressure differential setting options.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 3000 psi (207 Bar)

Flow: See PRESSURE DROP VS. FLOW graph
Nominal Flow 50 gpm (189.3 lpm)

Internal Leakage: 5 in³/min (82 cc/min) max. at 3000 psi (207 Bar)

Differential Pressure Setting:

5 psi	(0.3 Bar)
10 psi	(0.7 Bar) †
20 psi	(1.4 Bar)
40 psi	(2.8 Bar)
80 psi	(5.5 Bar)
160 psi	(11.0 Bar)

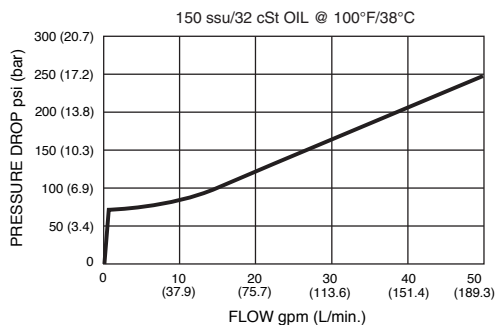
Temperature: -30°F to +250°F (-35°C to +120°C)

Recommended Filtration: ISO 20/18/14

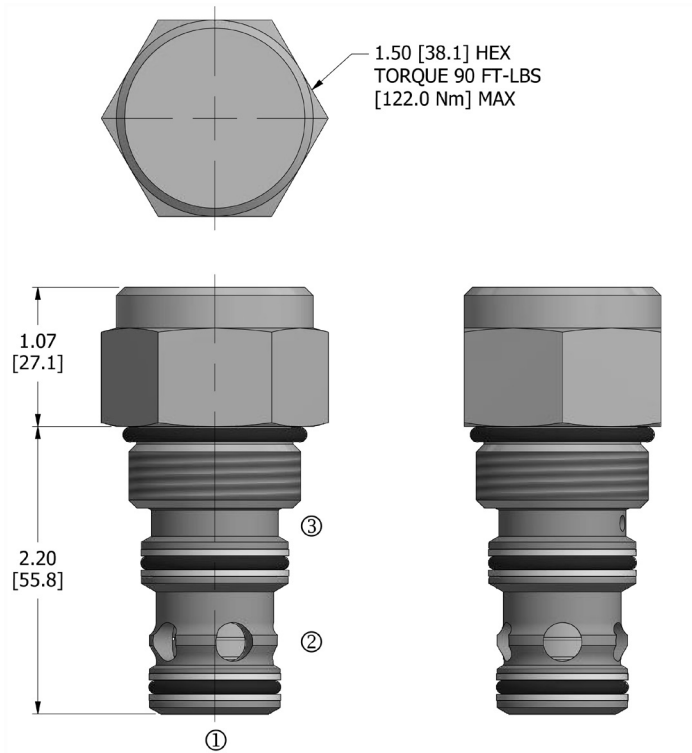
Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

Cavity/Cavity Tool: 160-3S, see page 11.16.3S

PRESSURE DROP VS. FLOW



DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DDPS	-	160	-	*	-	***
Differential Pressure Sensing Valve		Cavity		Seals		Differential Pressure

Seals		Seal Kit
N	Buna N	
V	Viton	

Differential Pressure	
5	5 psi (0.3 bar)
10 †	10 psi (0.7 bar)
20	20 psi (1.4 bar)
40	40 psi (2.8 bar)
80	80 psi (5.5 bar)
160	160 psi (11.0 bar)

† Custom setting - may require minimum order quantity and be subject to extended leadtime.
All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.