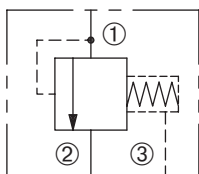


DDPS-100-3NCS

Differential Pressure
Sensing Valve



SERIES 10



DESCRIPTION

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

OPERATION

The DDPS-100-3NCS 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

- 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 20 gpm (75.7 lpm)

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

Differential Pressure Setting: 40 psi (2.8 bar)

75 psi (5.2 bar)

100 psi (6.9 bar)

150 psi (10.3 bar)

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

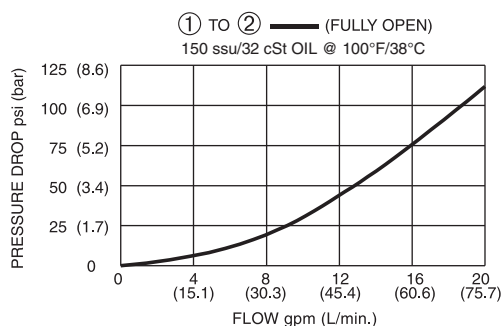
Recommended Filtration: ISO 20/18/14

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

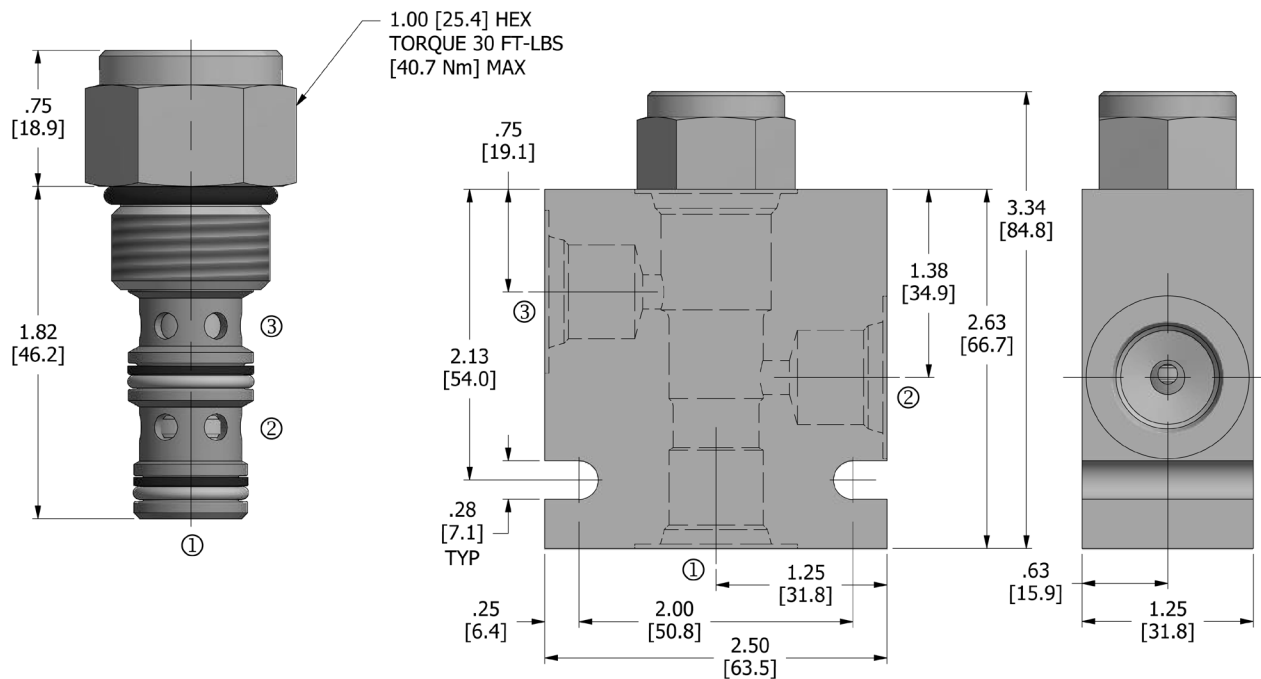
Cavity/Cavity Tool: 100-3 see page 11.10.3

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

PRESSURE DROP VS. FLOW



DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DDPS	-	100	-	3	NC	S	-	*	-	***	-	**
Differential Pressure Sensing Valve		Cavity		Flow Path	Normally Closed	Spool		Seals		Differential Pressure		Porting

Seals		Seal Kit
N	Buna N	
V	Viton	

Differential Pressure	
40	40 psi (2.8 bar)
75	75 psi (5.2 bar)
100	100 psi (8.9 bar)
150	150 psi (10.3 bar)

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

[†] 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.