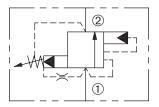
DRVK-080

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



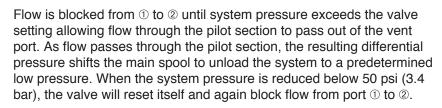
SERIES 8



DESCRIPTION

An adjustable, pilot-operated spool cartridge valve designed to allow flow to actuator circuits until a predetermined pressure is attained, then to discharge flow back to tank at a low pressure.

OPERATION



Flow is blocked from port ② to ①.

Pressure at port ② is added to valve setting

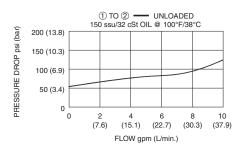
FEATURES and BENEFITS

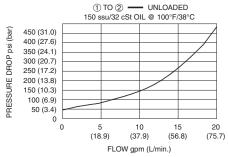
- · Quiet operation.
- High accuracy of pilot operated design.
- · Hardened parts for long life.
- · Hidden adjustment (tamper resistant) option.
- · Adjustment prevents spring from going solid.
- Industry common cavity.
- · High flow capacity.

PRESSURE DROP VS. FLOW

(1)

(2)





SPECIFICATIONS

Operating Pressure: 5000 psi (345 bar)

Flow: See PRESSURE DROP VS. FLOW graph

Nominal Flow 10 gpm (37.9 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)

Reset Pressure: When port ① pressure is below 50 psi (3.4 bar),

valve will be reset to original pressure setting.

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).

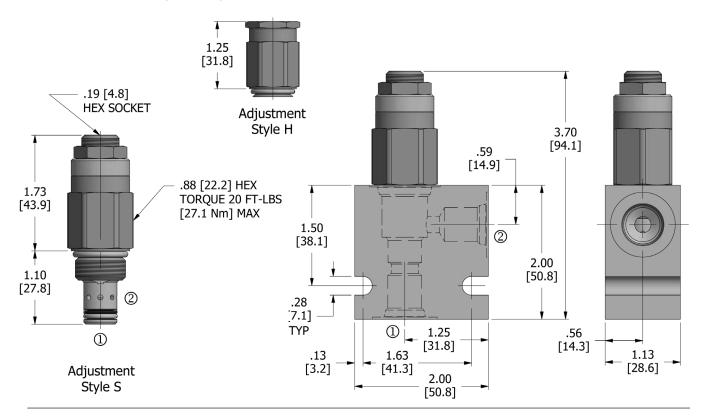


DRVK-080

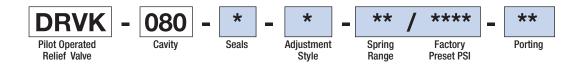
Adjustable, Pilot-Operated, Kick-Down Relief Valve 5000 psi (345 bar)

SERIES 8

DIMENSIONS Inches [Millimeters]



HOW TO ORDER



Seals		Seal Kit			
U	Urethane				
Adjustment Style					
Н	Hidden				
S	Screw				

	Spring Range	Preset
15	400 to 1500 psi (28 to 103 bar)	500 psi (34 bar)
40	1000 to 4000 psi (69 to 276 bar)	2000 psi (138 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
omit	Cartridge only	w/o Cartridge
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