

**General Description**

2-Way Manual Poppet Valve. The DL101 Series Valves are suited for emergency lowering applications and on-off flow applications.

**Operation**

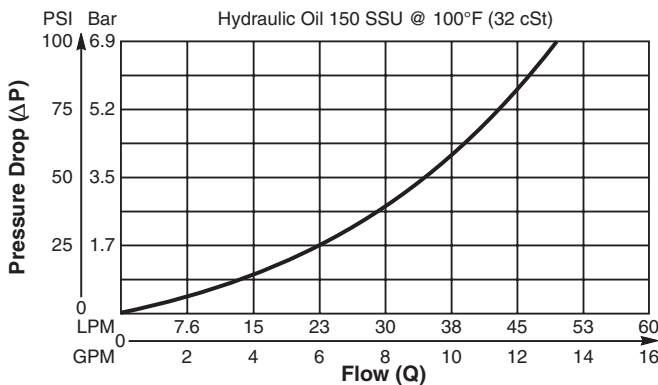
The DL101 Series Valves are mechanically operated check valves. Hydraulic force on the poppet is balanced by having equal area between the poppet seat and the valve stem, allowing the poppet to be manually pulled off the seat. When released, the bias spring will return the valve poppet to its closed position. Back pressure of more than 17.3 Bar (250 PSI) will prevent the bias spring from closing the poppet and must be avoided.

**Features**

- Low shut-off leakage
- Cartridge design
- Pull-to-Open design
- All external parts zinc plated

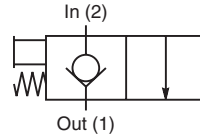
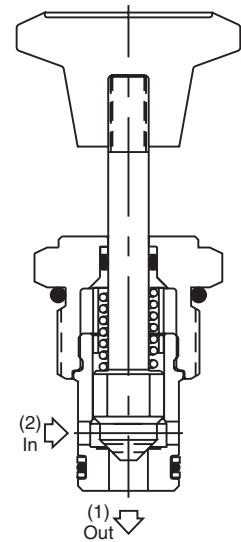
**Performance Curve**

**Pressure Drop vs. Flow (Through cartridge only)**

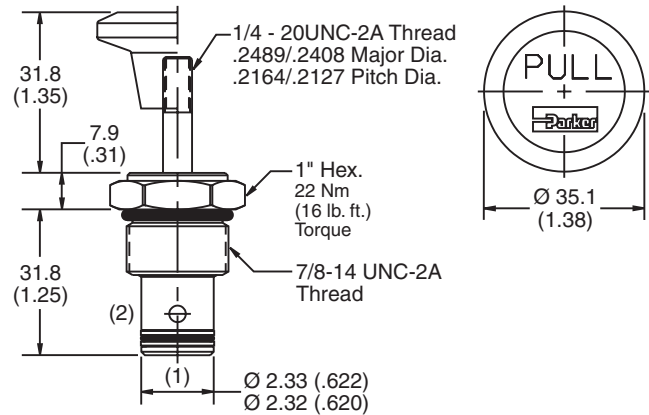


**Specifications**

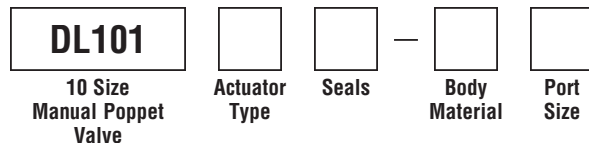
<b>Nominal Flow</b>	48.8 LPM (13 GPM)
<b>Max. Inlet Pressure</b>	240 Bar (3500 PSI)
<b>Leakage at 150 SSU (32 cSt)</b>	5 drops/min. (.33 cc/min.) at 240 Bar (3500 PSI)
<b>Max. Allowable Tankline Pressure</b>	17.3 Bar (250 PSI)
<b>Operating Temp. Range (Ambient)</b>	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
<b>Cartridge Material</b>	Stem, stainless steel. All other parts hardened steel.
<b>Filtration</b>	ISO code 16/13, SAE Class 4 or better
<b>Approx. Weight</b>	0.09 kg (0.21 lbs.)
<b>Cavity</b>	C10-2
<b>Form Tool</b>	Rougher None Finisher NFT10-2F



**Dimensions** Millimeters (Inches)



**Ordering Information**



Code	Actuator Type
K	Knob (850020K)
T	Stem

Code	Body Material
Omit	Steel
A	Aluminum

Code	Seals / Kit No.
Omit	Nitrile / (SK10-2N)
V	Fluorocarbon / (SK10-2V)

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B10-2-*4P)
6P	3/8" NPTF	(B10-2-*6P)
8P	1/2" NPTF	(B10-2-*8P)
6T	SAE-6	(B10-2-*6T)
8T	SAE-8	(B10-2-*8T)
T8T	SAE-8	(B10-2-T8T)†

\* Add "A" for aluminum, omit for steel.  
† Steel body only.

- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bodies & Cavities
- TD** Technical Data