2-Way Manual Poppet Valve Series DL081

General Description

2-Way Manual Poppet Valve. The DL081 Series Valves are suited for emergency lowering applications and onoff flow applications.

Operation

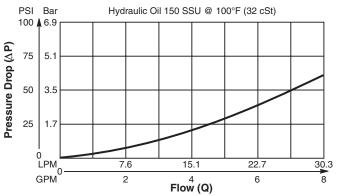
The DL081 Series Valves are mechanically operated check valves. Hydraulic force on the poppet is balanced by having equal area between the poppet seat and the valve stem, allowing the poppet to be manually pulled off the seat. When released, the bias spring will return the valve poppet to its closed position. Back pressure of more than 5.5 Bar (80 PSI) will prevent the bias spring from closing the poppet and must be avoided.

Features

- Low leakage design
- Flip lever, pull handle, or detented pin design
- All external parts zinc plated

Performance Curve

Flow vs. Pressure Drop (Through cartridge only)

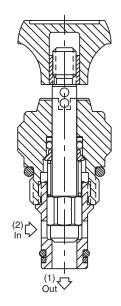


Specifications

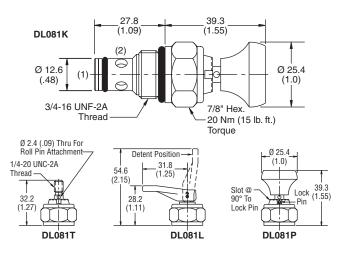
Nominal Flow	30 LPM (8 GPM)
Max. Inlet Pressure	210 Bar (3000 PSI)
Leakage at 150 SSU (32 cSt)	5 drops/min. (.33 cc/min.) at 210 Bar (3000 PSI)
Max. Allowable Tankline Pressure	5.5 Bar (80 PSI)
Operating Temp. Range (Ambient)	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Cartridge Material	Stem, stainless steel. All other parts hardened steel.
Fliltration	ISO code 16/13, SAE Class 4 or better
Approx. Weight	0.08 kg (0.17 lbs.)
Cavity	C08-2
Form Tool	Rougher None Finisher NFT08-2F



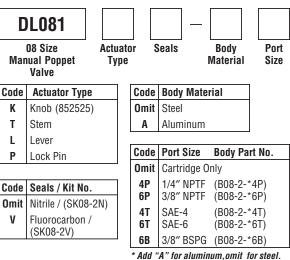
Out (1)



Dimensions Millimeters (Inches)



Ordering Information



-Parker

Technical Data

CV

Check Valves

General Description

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

Operation

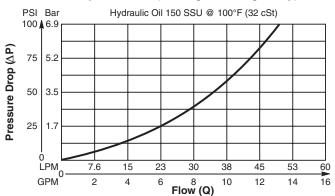
The DL101 Series Valves are mechanically operated check valves. Hydraulic force on the poppet is balanced by having equal area between the poppet seat and the valve stem, allowing the poppet to be manually pulled off the seat. When released, the bias spring will return the valve poppet to its closed 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)



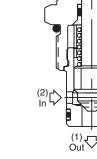
Specifications

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

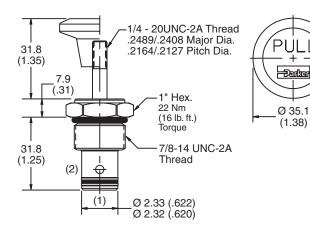


In (2)

Out (1)



Dimensions Millimeters (Inches)



Ordering Information **DL101** 10 Size Actuator Seals Body Port Manual Poppet Type Material Size Valve Code Actuator Type Code Body Material Knob (850020K) 0mit Steel K Т Stem A Aluminum Code Seals / Kit No. Code Port Size Body Part No. 0mit Cartridge Only Omit Nitrlie / (SK10-2N) 1/4" NPTF Fluorocarbon / 4P (B10-2-*4P) v (SK10-2V) 3/8" NPTF (B10-2-*6P) 6P 1/2" NPTF (B10-2-*8P) 8P 6T SAE-6 (B10-2-*6T) * Add "A" for aluminum, (B10-2-*8T) 8T SAE-8 nmit for steel (B10-2-T8T)† SAE-8 T8T † Steel body only.



CV

General Description

2-Way, 2 Position, Normally Open Manual Poppet Valve.

Features

CV

Check Valves

SH

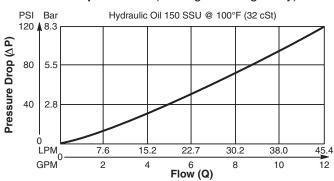
- Hardened poppet for minimal wear and greater durability
- Poppet type construction for minimal internal leakage
- Internal pilot operation provides "power leverage"
- Cavity common with solenoid operated valves •
- Screw-on detent is optional
- All external parts zinc plated

Operation

In neutral position, pressure applied to port 2 creates pilot flow across the pilot seat causing poppet to lift. Flow passes from port 2 to port 1 until manual operator is pushed forcing pilot into its seat preventing pilot flow to firmly close the poppet. In neutral position, flow is restricted from port 1 to port 2.

Performance Curve

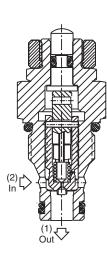
Pressure Drop vs. Flow (Through cartridge only)

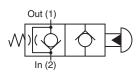


Specifications

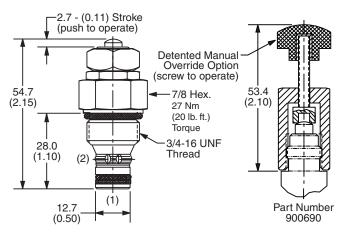
Rated Flow	45 LPM (12 GPM)
Maximum Input Pressure @ Port 2	350 Bar (5000 PSI)
Leakage at 150 SSU (32 cSt)	0.33 ml/min. (5 drops/min.) @ 210 Bar (3000 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-40°C to +93.3°C (Nitrile, Buna-N) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO code 16/13, SAE Class 4 or better
Approx. Weight	.13 kg (.31 lbs.)
Cavity	C08-2 (See BC Section for more details)



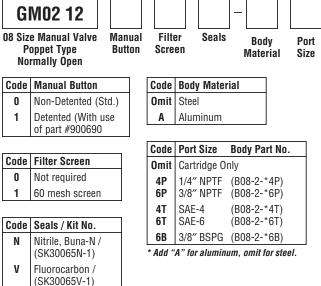




Dimensions Millimeters (Inches)



Ordering Information





Bodies Cavities

20