

**Technical Information**

- 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

**General Description**

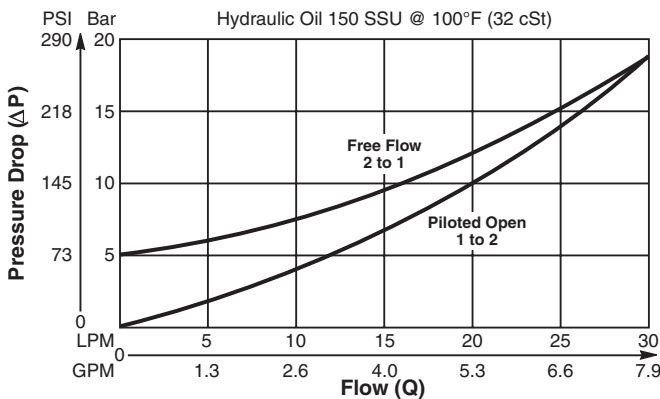
Miniature Pilot to Open, Poppet Type Check Valve. For additional information see Technical Tips on pages CV1-CV4.

**Features**

- Hardened poppet for maximum durability
- Low leakage - less than 3 drops/min.
- Sealed pilot
- Extremely compact construction - can be fitted directly into most cylinders
- Cavity commonality with load control valves
- Dual line blocks available
- All external parts zinc plated

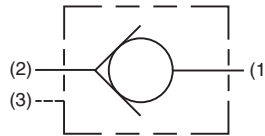
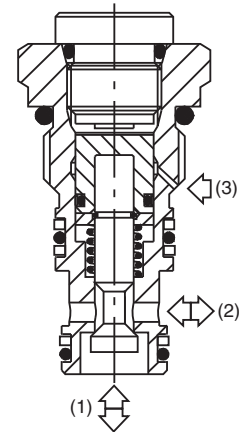
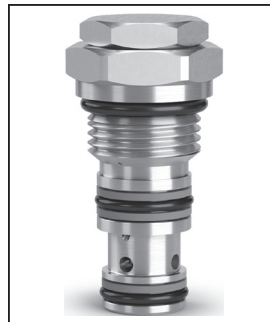
**Performance Curve**

Pressure Drop vs. Flow (Through cartridge only)

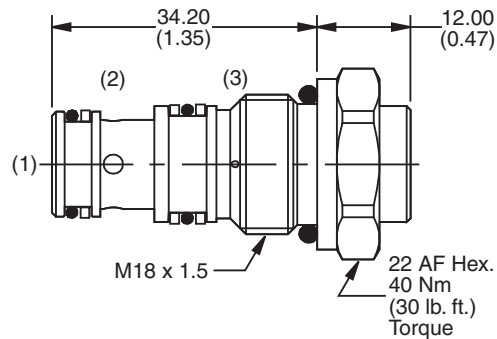


**Specifications**

<b>Rated Flow</b>	30 LPM (8 GPM)
<b>Nominal Flow @ 7 Bar (100 PSI)</b>	16 LPM (4.2 GPM) (Pilot Open)
<b>Maximum Inlet Pressure</b>	420 Bar (6000 PSI)
<b>Leakage at 150 SSU (32 cSt)</b>	Less than 3 drops/min.
<b>Cracking Pressure</b>	5 Bar (72 PSI)
<b>Pilot Ratio</b>	4:1
<b>Cartridge Material</b>	Steel operating parts, hardened steel poppet.
<b>Operating Temp. Range/Seals</b>	-34°C to +121°C (Nitrile, Buna-N) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
<b>Fluid Compatibility/Viscosity</b>	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
<b>Filtration</b>	ISO-4406 18/16/13, SAE Class 4
<b>Approx. Weight</b>	.066 kg (.145 lbs.)
<b>Cavity</b>	53-1 (See BC Section for more details)



**Dimensions** Millimeters (Inches)



**Ordering Information**

**D4A020**  **Seals**  
Check Valve

Code	Seals / Kit No.
N	Nitrile, Buna-N / (SK30090N-1)
V	Fluorocarbon / (SK30090V-1)

*Order Bodies Separately*

**LB10**    
Line Body Porting Body Material

Code	Porting
318	3/8" SAE (Main) 1/4" SAE (Aux.)
319	3/8" SAE Dual Cavity

Code	Body Material
A	Aluminum
S	Steel