

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

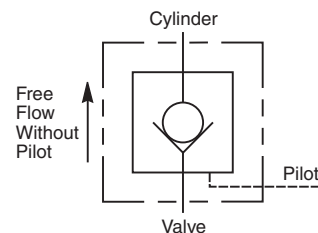
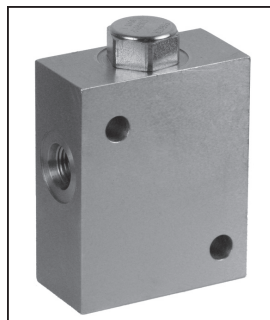
Bodies &
Cavities

TD

Technical
Data

General Description

Pilot Piston Style Pilot Operated Check Valve. For additional information see Technical Tips on pages CV1-CV4.

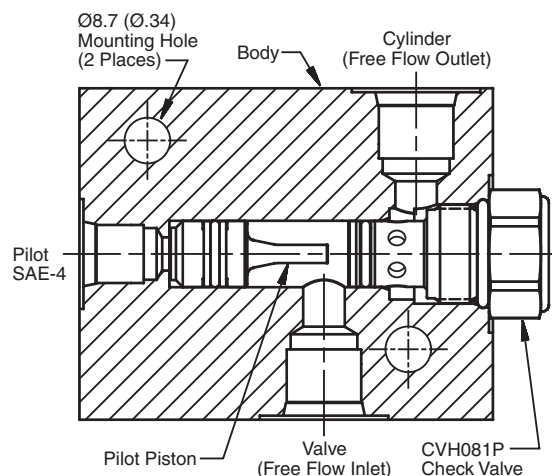


Features

- Spherical poppet for low leakage
- "D"-Ring eliminates back-up rings
- Optional sealed pilot piston

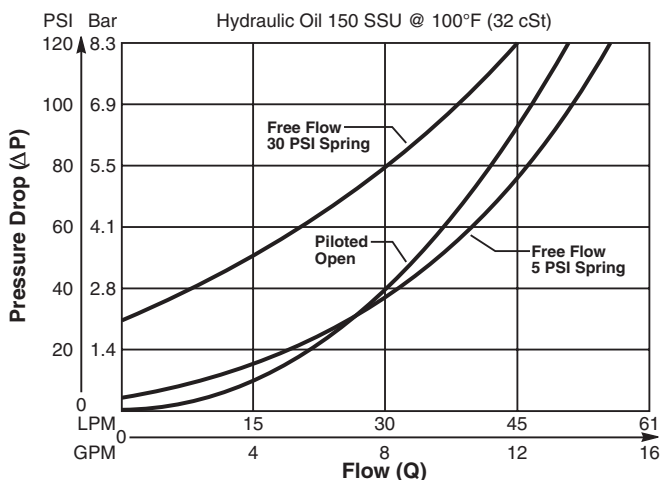
Specifications

Maximum Flow	38 LPM (10 GPM)
Maximum Inlet Pressure	210 Bar (3000 PSI) - CSP081 350 Bar (5000 PSI) - CSPH081
Leakage Across Check 150 SSU (32 cSt)	2 drops/min. (.13 cc/min.)
Leakage Across Pilot Piston (No Seals)	312 cc/min 0.3 LPM (.08 GPM)
Pilot Ratio	4:1
Pilot Piston Part Numbers	No Seal - 718237 Nitrile Seal - 718237N Fluorocarbon Seal - 718237V
Cartridge Material	All parts steel. All operating parts hardened steel.
Body Material	Aluminum - CSP081 Steel - CSPH081
Operating Temp. Range (Ambient)	-45°C to +132°C ("D"-Ring) (-50°F to +270°F) -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
Filtration	ISO-4406 18/16/13, SAE Class 4
Fluids	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Approx. Weight	

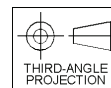
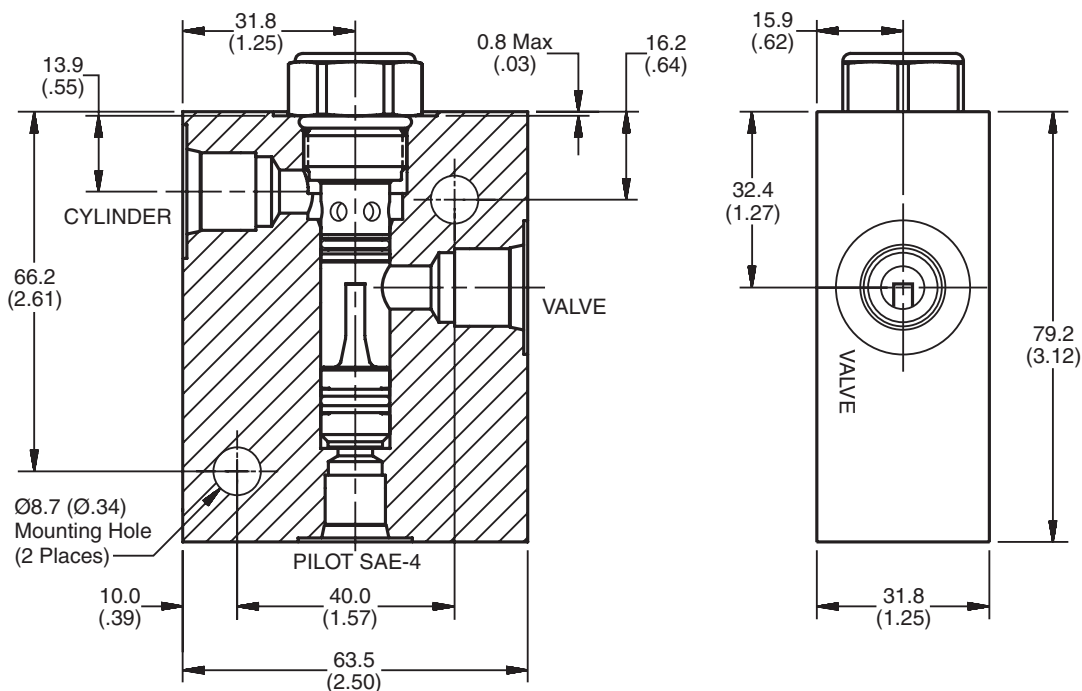


Performance Curve

Pressure Drop vs. Flow (Through cartridge only)



Dimensions Millimeters (Inches)



Ordering Information

CSP					
8 Size Pilot Piston P.O. Check Valve	Model Description	Piston Type	Cracking Pressure	Seals	Port Size

Code	Model Description
081	3000 PSI Series
H081	5000 PSI Series

Code	Piston Type
P	Pilot Piston without seal
A	Pilot Piston with seal Note: Requires 1.4 Bar (20 PSI) crack minimum.

Code	Cracking Pressure
*Omit	0.3 Bar (5 PSI)
*10	0.7 Bar (10 PSI)
30	2.1 Bar (30 PSI)
65	4.5 Bar (65 PSI)
100	6.9 Bar (100 PSI)
150	10.4 Bar (150 PSI)

*Not available with "A" option.

Code	Seals / Kit No.
Omit	"D"-Ring / (SK08-2)
N	Nitrile / (SK08-2N)
V	Fluorocarbon / (SK08-2V)

Code	Port Size	Material
A6T	SAE-6	Aluminum (CSP081 Only)
6T	SAE-6	Steel (CSPH081 Only)