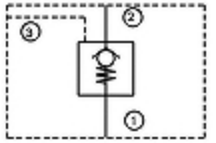
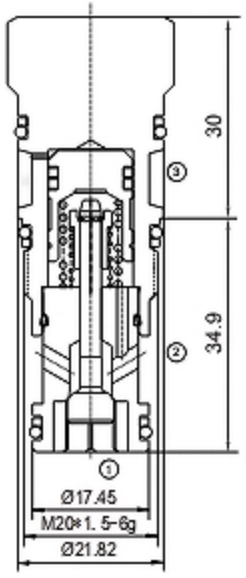
PHDMCKCB - Pilot Check Valve

Symbol





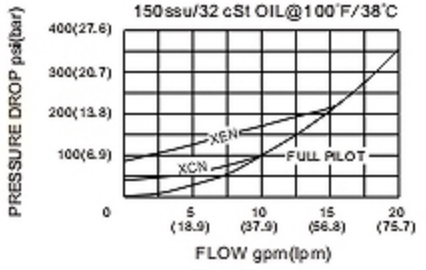
Specifications

· Operating Pressure	350BAR
· Flow	60L/min
· Pilot Ratio	3:1
· Internal Leakage	0.07ml/min.max.at operating pressure
· Temperature	-30°C to +120°C(-22°F to+250°F)
· Cavity	T-11A see page K-2
· Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.

Features

- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- Extremely low leakage. The seat and poppet are heat treated for long life. If the load drifts due to the valve, the seat has probably been damaged by contamination and the valve should be replaced.
- Standard unsealed pilot allows air trapped in the pilot line to be purged from the circuit.

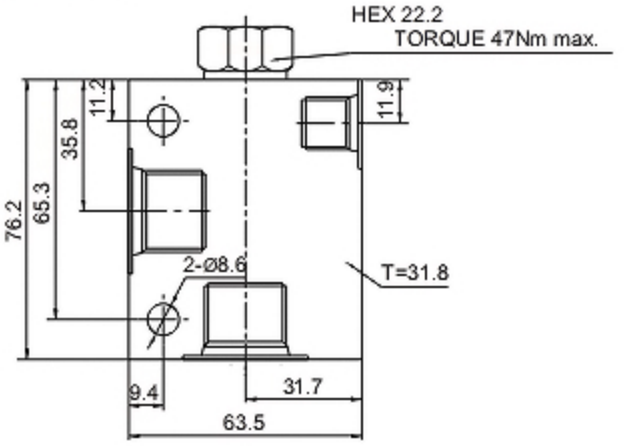
Performance Curve Pressure Drop vs.Flow



Operation

This valve is a pilot to open check valve. It has a non-sealed pilot, a steel seat, and is non-vented. It allows free flow from the valve (port 2) to the load (port 1) and blocks flow in the opposite direction. Pressure at the pilot (port 3) will open the valve from port 1 to port 2. Pilot pressure needed at port 3 to open the valve is directly proportional to the load pressure at port 1. Pressure at port 2 directly opposes pilot pressure.

INSTALLATION DIMENSIONS



Order Type

PHDMCKCB – * * * – * *

I II III IV V

I. Adjustment
Nonadjustable

II. Cracking Pressure
A=4psi(0.3bar)
B=15psi(1bar)
C=30psi(2bar)
D=50psi(3.5bar)
E=75psi(5bar)
F=100psi(7bar)
Z =1psi(0.07bar)

III. Seal-Kits
N= Buna N
V= Viton

IV. BODY MATERIAL
A=6061-T6
207Bar
6061-T6 aluminum
alloy rated at 207Bar
S= 350Bar
steel rated at 350Bar

V. BODY PORTING
6T=SAE 6T
8T=SAE 8T