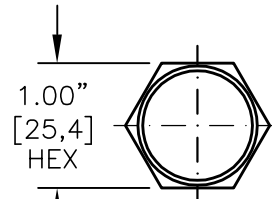## PILOT OPERATED CHECK VALVE POPPET TYPE, PILOT TO OPEN, 3 TO 1 PILOT RATIO
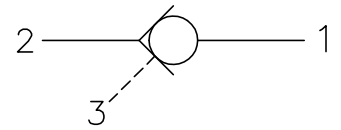
2 — 1

3

1.00"
[25,4]
HEX

TORQUE to 35/40 Ft–Lb.
[47/54 N–m].

.88"
[22,4]

③

1.60"
[40,6]

②

①

.15"
[3,8]

.312"
[7,9]

2.50"
[63,5]

2.25"
[57,2]
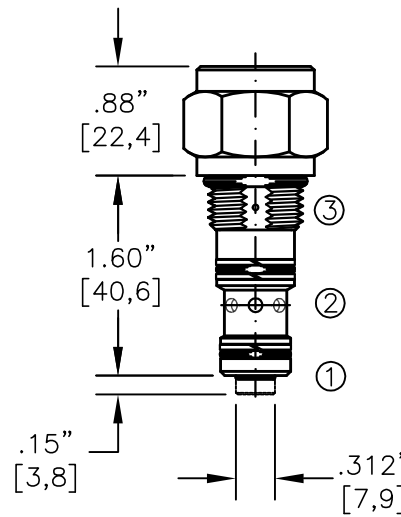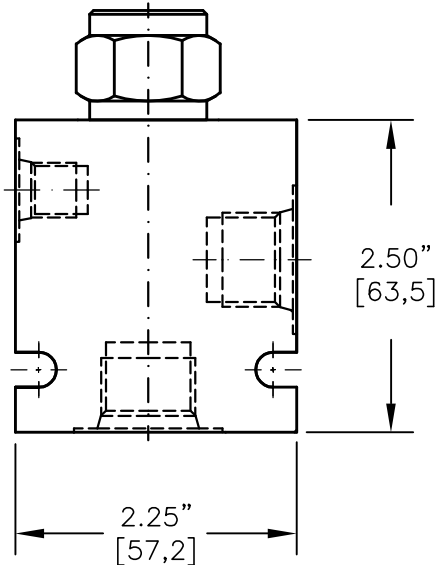
NOTE: CAVITY BOTTOM HOLE MUST ALLOW FOR POPPET EXTENSION (.500 DIA.).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–021–1.

POCI–08–X–F–X–XXX

BASIC

SIZE
08 = 3/4"–16 UNF

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED

CRACK PRESSURE
010 = 10 PSI
030 = 30 PSI
060 = 60 PSI

PORTS
0 = CARTRIDGE ONLY
03BX = G 3/8" BSPP
08TX = SAE – #8

"A" – ALUM. HOUSING
"S" – STEEL HOUSING

L/M (28,5 cSt)

	7,6	15,1	22,7	30,3	38

PRESSURE DROP (△P)

200 — 14,0
150 — 10,5
100 — 7,0
50 — 3,5

60
30
10

PSI
2   4   6   8   10
BAR

G.P.M.(135 SUS)

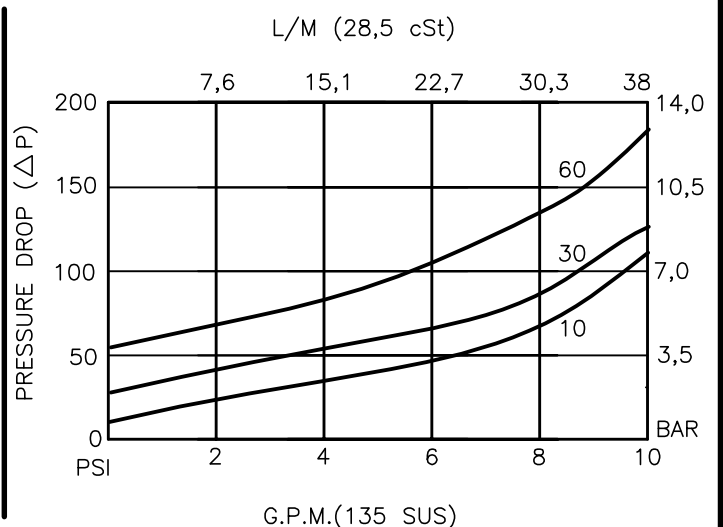## PILOT OPERATED CHECK VALVE POPPET TYPE, PILOT TO OPEN, 3 TO 1 PILOT RATIO.

DESCRIPTION

This unit is a SCREW IN, cartridge type, guided poppet, hydraulic pilot operated check valve, for use as a blocking or load holding device for high pressure applications.

OPERATIONS

This valve allows free flow from port 2 to port 1 and blocks flow from port 1 to port 2 or holding a load. Flow will be allowed from port 1 to port 2 when pressure is applied to port 3. This pilot operated check valve has a 3 to 1 pilot ratio, meaning that it takes at least one−third of the load pressure held at port 1 that is required at port 3 to open the valve.

FEATURES AND BENEFITS

A low friction seal on pilot piston is standard.
A seperate heavy spring assures fast return of the pilot piston for a very quick, reliable and positve valve re−seat.

All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 10.0 GPM [38 l/m] nominal. See performance chart.
PILOT RATIO: 3 TO 1
INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI [350 Bar]
VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum − Anodized.
                5000 PSI [350 Bar] = Steel − Unplated.
OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as
                MIL−H−5606, SAE−#10, SAE−#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN−0828 Buna "N"
          SKV−0828 Viton
WEIGHT: .26 lb [.12 kg] cartridge only.
VALVE CAVITY: #C0825, See Page 0−021.0.