

SPECIFICATIONS:

Pilot to Close Check Valve:
 This valve only flows from 1 to 2.
 In the steady state (non-piloted), valve will flow from 1 to 2. The poppet spring will determine the poppet crack pressure. When the pilot is energized, the poppet is held closed and flow is blocked.
 See Pilot Ratio Notes to determine pilot ratio.

Valve will also function as a Normally Open, Pilot to Close 2-Way valve provided flow is only required from 1 to 2.

Working Pressure: 5,000 PSI Ports 1 and 2.
 Pilot Pressure Range, 50 PSI Min. to 150 PSI Max.
 Pilot Pressure may be less if used as P.O. Relief.

Pilot medium is to be Air Only!
 Fluid temperature -45°F, (42.7°C) to 200°F, (93.3°C)
 Install Cartridge valve using 1" wrench
 Valve should screw in freely to the Mount Seal.
 Final tightening to 20 foot pounds torque.
 Use lubricant on external oil seals and mounting threads.

Features

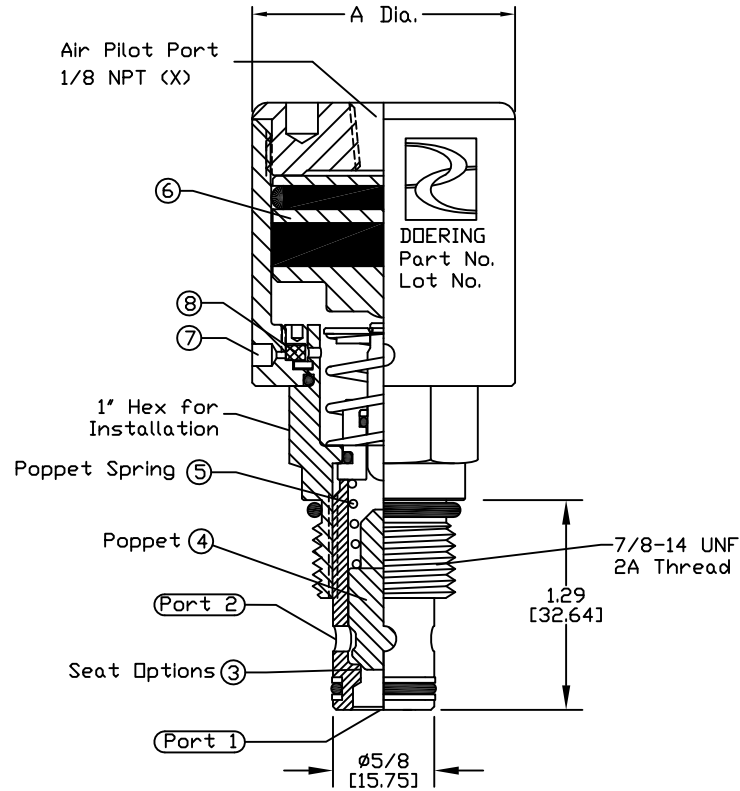
KEY

1. No. 1 working port
2. No. 2 working port
3. Seat, Heat Treated Stainless
 Also see Seat Options.
4. Poppet, Heat Treated Stainless
5. Poppet Bias Spring, Stainless Steel
 Also see Spring Options.
6. Piston Assembly
7. Vent Port (2 Places)
8. Internal Sintered Filter, 10 Micron

Pilot Ratio Notes:

Indicated pilot ratio refers to the area of the pilot piston as compared to the seat area, Port 1.
 Add an additional 15 psi to compensate for spring force. Please call for any assistance or clarification.

CARTRIDGE VALVE



CAVITY

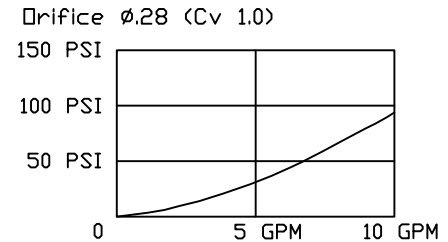
Cavity C-8542 (Industry 10-2)
 Form Tool: FT-8542
 Call for source information.
 Cavity Drawing Spec. Sheet No. 1200621
 Visit www.Doering.com and enter Spec. sheet 1200621.
 in 'document search' box.

HOUSING

Line Mount Housings:
 Spec. Sheets 1200674 and 1201455.
 Visit www.Doering.com and enter Spec. sheet number
 in 'document search' box.

Doering Company also offers:
 Custom Housings and Manifolds.
 Materials include:
 Aluminum, 304 SST., 316 SST.

Pressure Drop/Flow Chart.



CARTRIDGE VALVE ORDERING INFORMATION:

Ratio	A Diameter	Valve Number
19:1	1-1/2" [38,10]	904H#92019##
24:1	1-5/8" [41,28]	904H#93024##
33:1	1-7/8" [47,63]	904H#96033##
50:1	2-1/4" [57,15]	904H#97050##

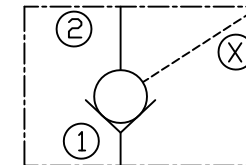
SEAT OPTIONS, Ref. Key 3

Blank = Hard Seat, Standard Hydraulic Test
 K = Kel-F Soft Seat, Bubble Tested

SPRING OPTIONS, POPPET BIAS Value in PSI Crack, Ref. Key 5

00 = NO SPRING
 03 = STAINLESS STEEL
 25 = STAINLESS STEEL

POC SERIES



Check Valve, Normally Open:
 Air Pilot to Close:
 Can Control Fluid or Gas, Ports 1 & 2!
 See Ratio Notes!