# 1202968

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# DESCRIPTION

A 2 or 3-Way, shop air pilot to shift, spring-return, screw-in, directional hydraulic cartridge valve, spool design.

#### **FEATURES**

Pilot to System Ratio of 108:1 applies to port No. 1 only. Ports 2 & 3 are balanced. Higher Pilot to System ratios. are available.

Actuator area is isolated from system ports. The isolation area is vented to atmosphere through a 10 Micron sintered filter. There are two small vent holes located within the spanner holes on the perimeter of the valve body.

#### **OPERATION**

This is a metal to metal (SST.) Spool and cage design. Some leakage across the ports is normal. Valve is designed for Shop Air Pilot (Max. 150 PSI) to control standard Hydraulic Oil at ports 1, 2, and 3 (Max. 3000 PSI).

#### Pilot Pressure Requirements:

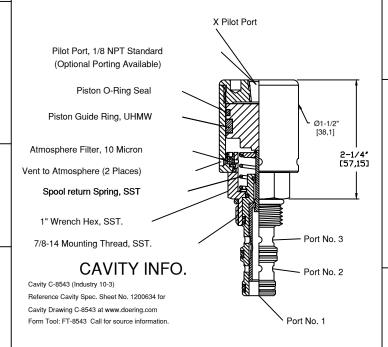
With System pressure of 3000 PSI, Recommended Pilot Pressure is 80 PSI Air. Minimum 50 PSI, Maximum 150 PSI.

Pilot to System Ratio is 108:1 at Port 1. Ports 2 & 3 are balanced. Spring is 10 to 15 PSI.

#### **RATINGS**

Pressures to 3,000 PSIG, Ports 1, 2 & 3 Air Pilot Pressure 50 to 150 PSIG, (X) Pilot Port.

# DOFRING CARTRIDGE VAI VE



## **HOUSING &** MANIFOLD INFO.

Single Station Housings (Sub-Plates) illustrated Reference Housing Spec. Sheet No. 1200673 for Housing Drawing S8543 at www.doering.com. Choose from Aluminum or Stainless materials. Multi Station and Custom Housings or Manifolds also available.

Try to add Spanner valve to same spec, sheet

#### **RATINGS**

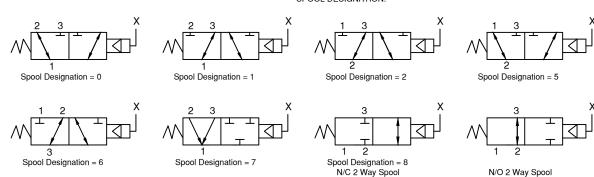
#### INSTALLATION

Install Cartridge valve using 1" wrench Valve should screw in freely to the Mount Seal. Final tightening 20 to 30 foot pounds torque. Use lubricant on external oil seals and mounting

#### CARTRIDGE VALVE ORDERING INFORMATION:

### Order P/N 54H237108#

SPOOL DESIGNATION:



#### **OPTIONS**

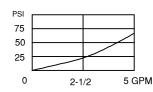
All Stainless Steel option, add -SS to Part Number. Stainless Steel Wetted Area Only, add -S to Part Number

Stainless Steel Actuator Area Only, add -PS to Part Number.

Standard seals ore Buna-N with Teflon back up rings. Optional seals include EP. Viton. Teflon and others. Vents to atmosphere ( 2 Places 180° apart ).

T Option provides 10-32 Threaded ports at these locations. With T option, Key 6. Sintered Bronze filter, is omitted from the assembly

#### PRESSURE DROP / FLOW



# **3PS SERIES**

2 and 3 Way Spool, Directional Control, Air Pilot Operated, Hydraulic Control

