

## SPECIFICATIONS:

Four Way, Directional Control or Selector Valve.  
Dual Air Pilot Operated, Spring Centered,  
Hydraulic Spool Valve.

Maximum System Pressure:

Ports 2(A), 3(P), and 4(B) rated to 3,000 PSI.

Port 1(T) rated to 1,500 PSI.

Pilot Pressure Range: 80 PSI Min. to 150 PSI Max.

Pilot to Port 1 (T) Ratio is 68:1

Ports 2, 3 and 4 are pressure balanced.

Fluid temperature -40°F (-40°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.

"Actuator Section" may be rotated independent of 1" wrench hex.

## OPTIONS

Standard seals are Buna-N and Teflon.  
Optional seals materials: EPR, all Teflon, Viton, Kalrez.  
Additional optional seal materials available on request.

Vent to Atmosphere Ports and Options:

Keys 14 Vent to atmosphere, sintered bronze.

Keys 7 & 20 are additional vents to atmosphere.

T Option provides 10-32 Threaded ports at Key 7 and Key 20 locations.

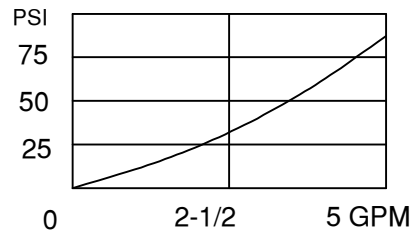
Material and Material Options:

Standard material includes Aluminum in pilot area.

Optional all Stainless Materials.

Call for price and delivery on options.

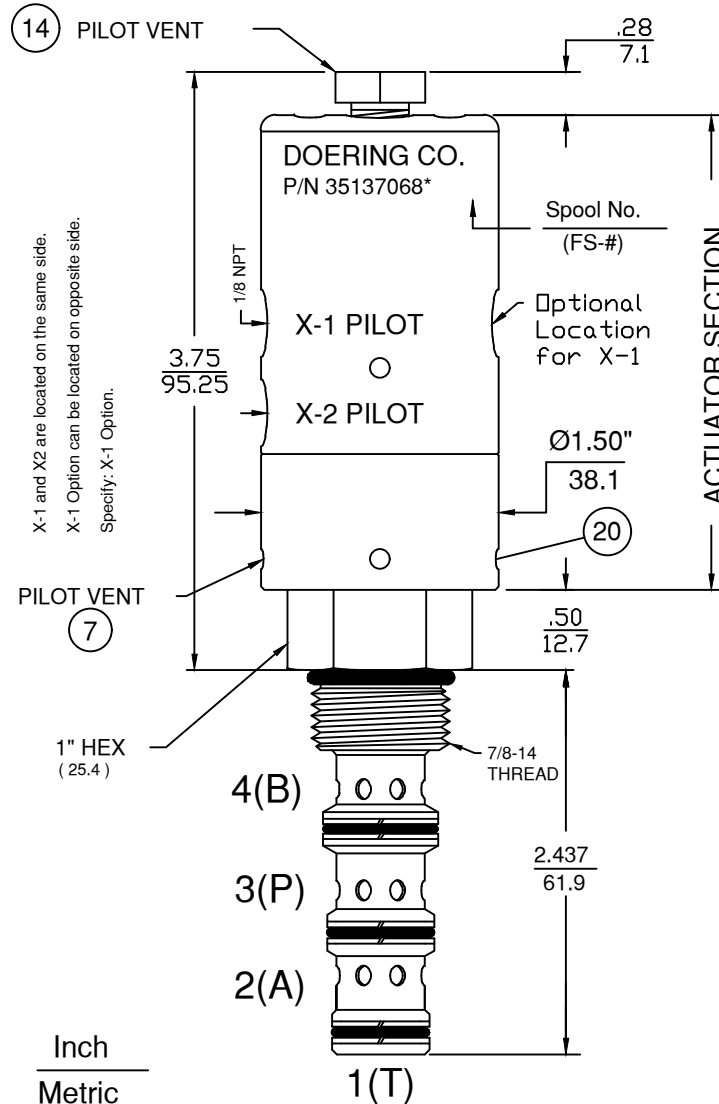
## PRESSURE DROP CHART



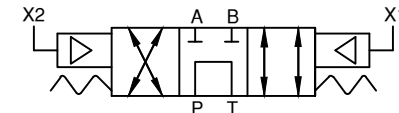
Pilot to Port 1 Ratio: 68:1.  
Ports 2, 3 & 4 are balanced.

Cartridge Valve Part Number:  
See Functional Symbol (FS-#)  
and Order Number on right column.

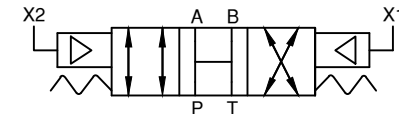
## CARTRIDGE VALVE



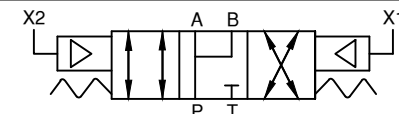
## SELECTION



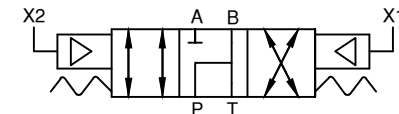
FS-1, Order No. 351370681



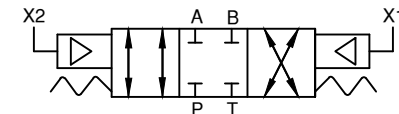
FS-2, Order No. 251370682



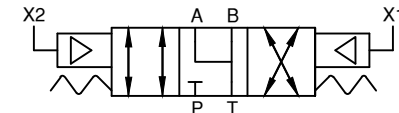
FS-3, Order No. 351370683



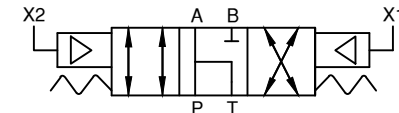
FS-4, Order No. 351370684



FS-5, Order No. 351370685



FS-6, Order No. 351370686



FS-7, Order No. 351370687

## 4PS SERIES

Three Position 4 Way Spool Valve.  
Dual Pilot Operated, Spring Centered.  
Directional Control or Selector Valve.

6343 RIVER ROAD SE CLEAR LAKE, MN 55319 USA  
Telephone: 320-743-2276 Fax: 320-743-3723  
mailto:mailbox@doering.com www.doering.com



DOERING