

KEY EXPLANATION:

- 5. O-Ring Seal, TFE
- 6. Filter, 10 Micron, Sintered Bronze
- 19. Poppet Seal, TFE
- 27. Spring (Used on valves = "A" Dia. 1-7/8 & 2-1/4")

Air Pilot Operated Hydraulic Spool Valve.
 Four Way, Directional Control or Selector Valve.
 Maximum System Pressure:
 Parts A, B, P, and T rated to 3,000 PSI.
 Maximum Pilot Pressure (X port) 150 PSI.
 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 O-ring seals and mounting threads.

OPTIONS

Pilot Part (Key X) is 1/8 NPT.
 Optional Pilot Porting includes 1/4 NPT, SAE4, and SAE6
 Standard seals are Buna-N with Teflon back up rings.
 Optional seals include Viton, Teflon and others.
 Keys 7 & 20 are vents to atmosphere.
 T Option provides 10-32 Threaded parts at these locations.

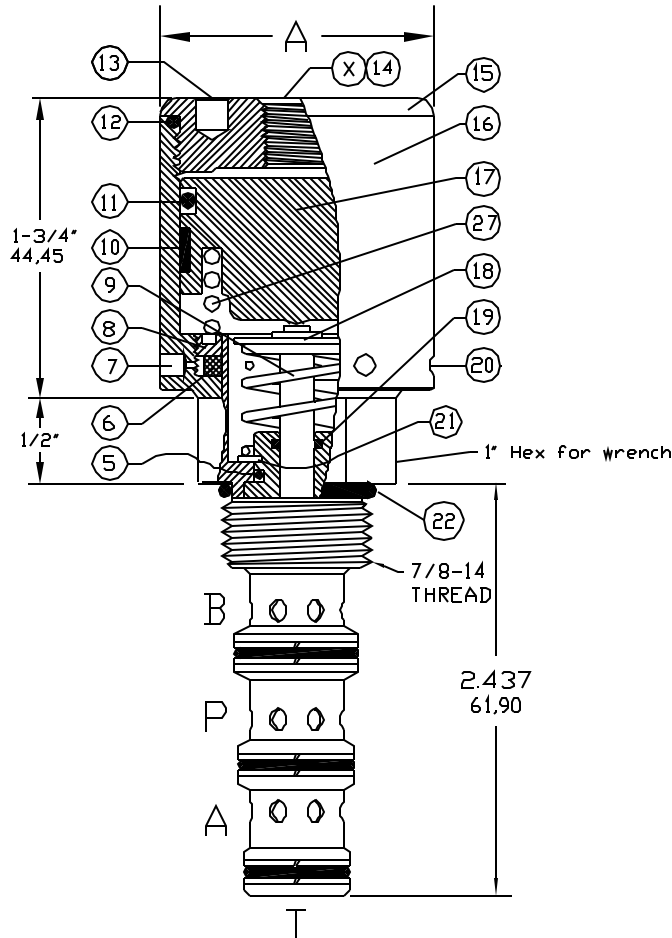
TOOLING

- *Cavity Form Tool: FT-8544
- *1/8 (3.175) Pin Spanner Tool
Order No. 471
- *3/16 (4.763) Face Spanner Tool
Order No. 482

PILOT RATIO NOTES:

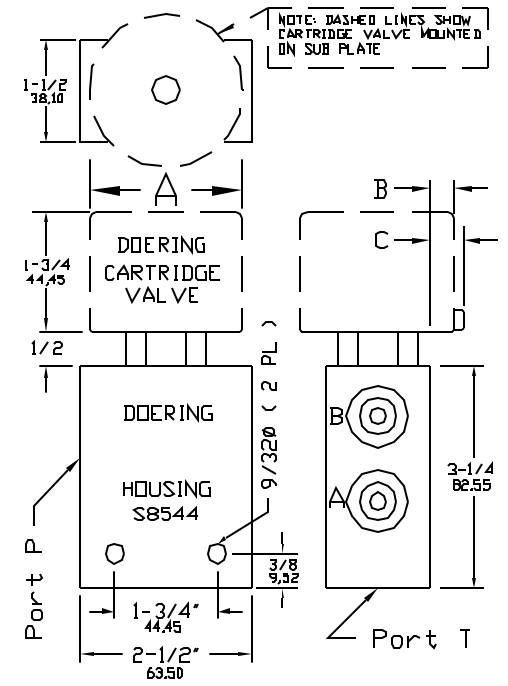
- TO CALCULATE THE CORRECT PILOT RATIO VALVE TO ORDER FOLLOW THESE STEPS:
1. Determine the MAXIMUM possible system pressure.
Multiply X 11 = SYSTEM
 2. Determine MINIMUM possible pilot pressure.
Multiply X .9 = PILOT
 3. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO
 4. Round up to standard available ratio.

CARTRIDGE VALVE



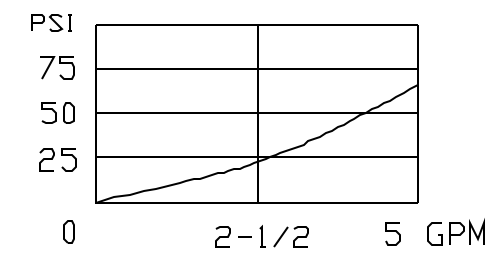
Cartridge Valve Requires Cavity C-8544

HOUSING



Housing Ports A, B, P & T, P/N S8544 are 3/8 NPT, P/N S8544-2 are 1/4 NPT, P/N S8544-6 are SAE6. Standard Housing material is Aluminum. For Stainless order S8544-S or S8544-2S or S8544-6S

PRESSURE DROP CHART



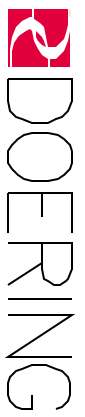
4PS SERIES

4 Way Spool Valve, Pilot Operated.
 Directional Control or Selector Valve.

PILOT TO SYSTEM RATIO	"A" DIAMETER	"B" MAXIMUM	"C" MAXIMUM APPLICABLE TO T OPTION ONLY	CARTRIDGE VALVE NO.	HOUSING BODY NO.	FUNCTIONAL SYMBOL
108:1	1-1/2 (38.1)	NOT APPLICABLE	.15 (3.8)	44H2371080	S8544	
131:1	1-5/8 (41.28)	.06 (1.6)	.21 (5.4)	44H3371310	- OR - S8544-2	
183:1	1-7/8 (47.63)	.19 (4.8)	.34 (8.6)	44H6371830	- OR - S8544-6	
277:1	2-1/4 (57.15)	.38 (9.6)	.53 (13.5)	44H7372770	S8544-6	
108:1	1-1/2 (38.1)	NOT APPLICABLE	.15 (3.8)	44H2371083	S8544	
131:1	1-5/8 (41.28)	.06 (1.6)	.21 (5.4)	44H3371313	- OR - S8544-2	
183:1	1-7/8 (47.63)	.19 (4.8)	.34 (8.6)	44H6371833	- OR - S8544-6	
277:1	2-1/4 (57.15)	.38 (9.6)	.53 (13.5)	44H7372773	S8544-6	

USE THIS SPOOL FOR LOWEST LEAK RATE.

SPEC. SHEET NO. 1201636 REV. 003



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