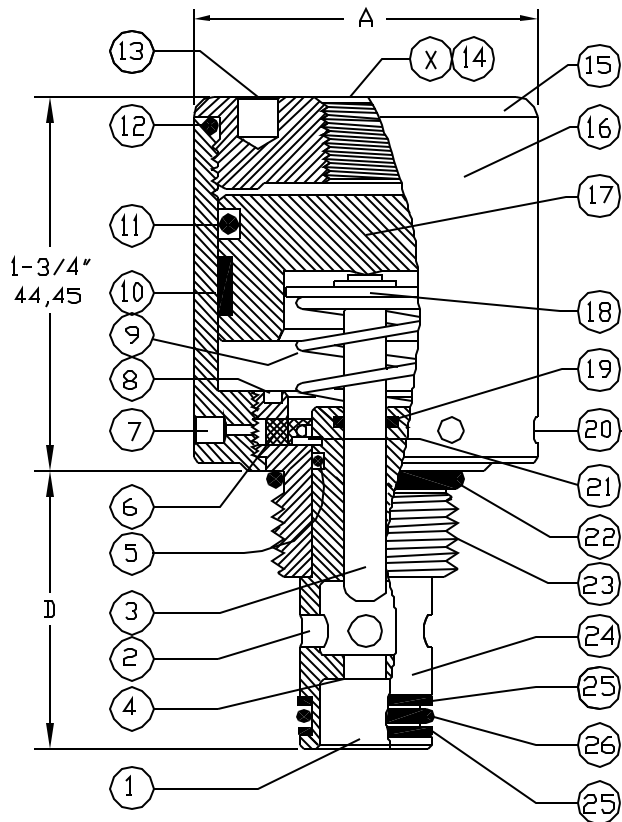


KEY EXPLANATION:

1. Port No. 1, System
2. Port No. 2, System
3. Poppet, Hard Stainless Steel
4. Seat passage sealing area.
5. O-Ring Seal, Buna N (Also See Options)
6. Filter, 10 Micron Sintered Bronze.
7. Vent (2 Pl.) Optional 1 Port Locations
8. Filter Retainer
9. Poppet and Actuator Return Spring, Stainless
10. Piston Guide Ring
11. Piston O-Ring Seal, Buna N (Also See Options)
12. Bonnet O-Ring Seal, Buna N (Also See Options)
13. 3/16" (4.763) Spanner Holes (2 Pl.)
14. 1/8 NPT Pilot Port X (Also See Options)
15. Bonnet, Aluminum Material
16. Actuator Body, Aluminum
17. Actuator Piston, Aluminum
18. Poppet Return Spring Retainer Assembly
19. Poppet Seal, TFE
20. 1/8" (3.175) Spanner Holes (4 or 6 Pl.)
21. Cartridge Seat Retaining Ring
22. Mount O-Ring Seal, Buna N (Also See Options)
23. Cartridge Mounting Threads, Stainless Steel
24. Cartridge Seat, Hard Stainless
25. Back Up Rings, Buna N or Urethane (See Options)
26. O-Ring Seal, Buna N (Also See Options)

CARTRIDGE VALVE



SPECIFICATIONS:

Pilot operated two way cartridge valve. Normally open. Pilot to close passage between ports one and two.

Maximum pressure 5,000 PSI, Cavity C-8502
 Cavity C-8542, 5,000 PSI Port 1, 3,000 PSI Port 2
 Pilot Pressure Range, 50 PSI Min. to 150 PSI Max.
 Fluid temperature -45°F, (42.7°C) to 200°F, (93.3°C)

Install Cartridge Valve using No. 471 Spanner Tool. Valve should screw in freely to the Mount Seal. Final tightening to 15 foot pounds torque. Use lubricant on external oil seals and mounting threads.

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.

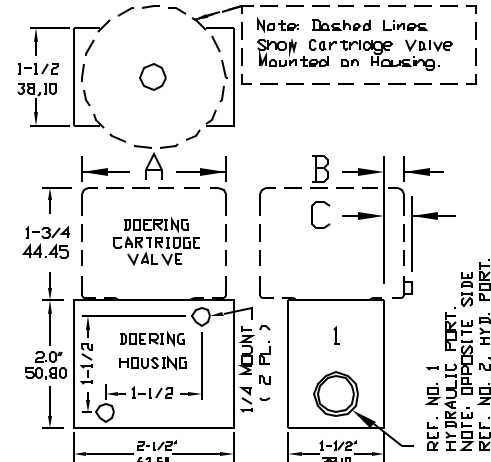
STANDARD OPTIONS

Pilot Port: (Key X) 1/8 NPT or -4 SAE. Specify.
 Seals: Buna N, Viton or Teflon. Others please specify.
 T Option 10-32 Ports at Key 7 & 20, Random 360° Pos.

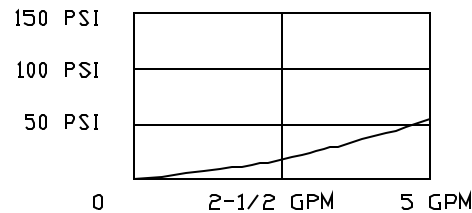
TOOLING

- * Cavity Form Tools: F1+ cavity#
- * 1/8 (3.175) Pin Spanner Tool Order No. 471, Ref. Key No. 20
- * 3/16 (4.763) Face Spanner Tool Order No. 482, Ref. Key No. 13

HOUSING



Standard Housing is 3/8 NPT, -2 is 1/4 NPT, -6 is SAE.
 Standard Housing Material is Aluminum.
 For Stainless add -S or -2S or -6S to Housing No.



FLOW AND PRESSURE DROP CHART.

FLOW and PRESSURE DROP Chart indicates U.S. G.P.M. All flow performance data based on tests using fluid at a specific gravity of .85 and a viscosity of 150 SUS at a temperature of 100°F.

PILOT TO SYSTEM RATIO	" A " DIAMETER		" B " MAXIMUM		" C " MAXIMUM APPLICABLE TO T OPTION ONLY		CARTRIDGE VALVE NO.	HOUSING BODY NO.	" D " SUB SURFACE DETAIL
	1-1/2	38,10	NOT APPLICABLE		.15	3,81			
40:1	1-5/8	41,28	.06	1,53	.21	5,34	822270400	S8502	<p>USE WITH CAVITY C-8502.</p>
49:1	1-7/8	47,63	.19	4,83	.34	8,64	823270490	- OR -	
69:1	2-1/4	57,15	.38	9,65	.53	13,46	826270690	- OR -	
104:1	2-1/4	57,15	.38	9,65	.53	13,46	827271040	S8502-6	<p>USE WITH CAVITY C-8542.</p>
40:1	1-1/2	38,10	NOT APPLICABLE		.15	3,81	842270400	S8542	
49:1	1-5/8	41,28	.06	1,53	.21	5,34	843270490	- OR -	
69:1	1-7/8	47,63	.19	4,83	.34	8,64	846270690	- OR -	
104:1	2-1/4	57,15	.38	9,65	.53	13,46	847271040	S8542-6	

2PB SERIES

