

Parts List for:

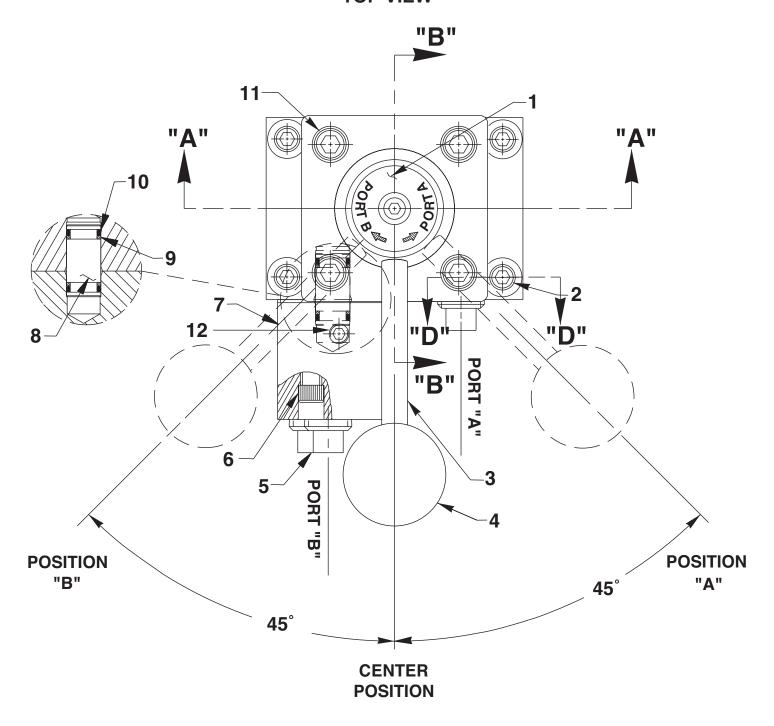
SPX Hydraulic Technologies 5885 11th Street Rockford, IL 61109-3699 USA powerteam.com

Tech Services: (800) 477-8326 Fax: (800) 765-8326 Order Entry: (800) 541-1418 Fax: (800) 288-7031

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MODEL F

MANUAL VALVE ASSEMBLY TOP VIEW

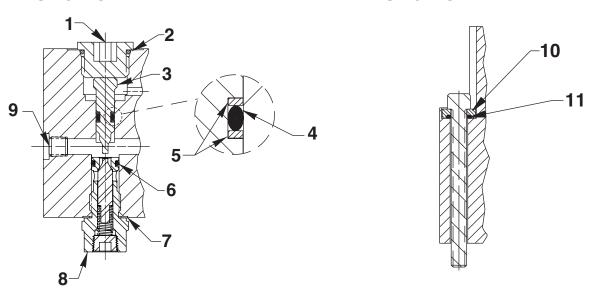


Item No.	Part No.	No. Req'd	Description
1	*211936	1	Decal
2	10856	4	Screw (1/4-20 UNC X 2-1/2 Lg.)
3	21639	1	Stud
4	211911	1	Ball Knob
5	11127	3	Plug Fitting (3/8 NPTF)
6	10854	3	Screw (1/4-20 UNC X 1-3/4" Lg.)
7	421494	1	Manifold Body
8	252181	1	Bushing
9	*11863	2	Backup Washer (1/2 X 3/8 X 1/16)
10	*10268	2	O-ring (1/2 X 3/8 X 1/16)
11	11013	4	Screw (5/16-18 X 1" Lg.; Torque to 300/320 in. lbs.)
12	15130	1	Plug Fitting (1/16 NPTF)

Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300571.

SECTION B-B

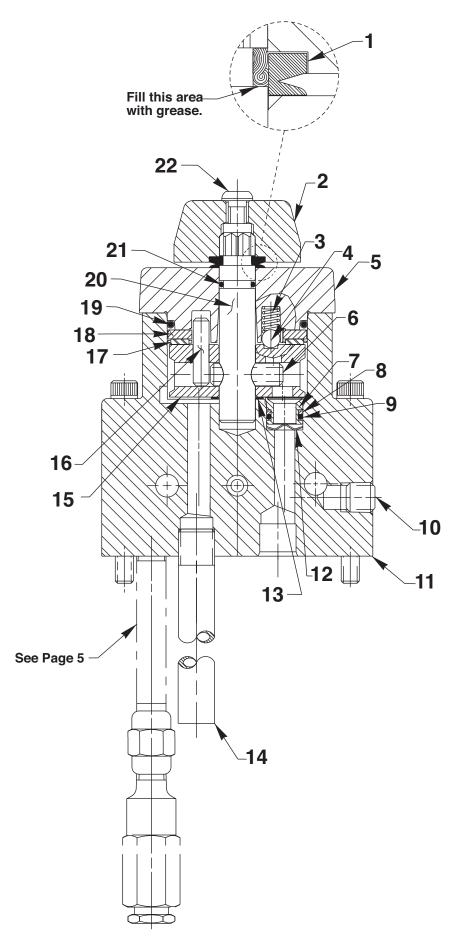
SECTION D-D



Item	Part	No.	
No.	No.	Req'd	Description
1	214014	1	Plug Fitting (3/4-16 UNF; Note Discard rubber o-ring.)
2	*215193	1	O-ring (13/16 X 5/8 X 3/32; Nitrile)
	18999	1	O-ring (13/16 X 5/8 X 3/32; Viton)
	250157	1	O-ring (13/16 X 5/8 X 3/32; EPR)
3	214015	1	Piston
4	*12099	1	O-ring (9/32 X 5/32 X 1/16; Nitrile)
	18972	1	O-ring (9/32 X 5/32 X 1/16; Viton)
	250399	1	O-ring (9/32 X 5/32 X 1/16; EPR)
5	*207354	2	Backup Washer (9/32 X 5/32 X .048)
6	*14763	1	O-ring (7/16 X 5/16 X 1/16; Nitrile)
	18974	1	O-ring (7/16 X 5/16 X 1/16; Viton)
	13472	1	O-ring (7/16 X 5/16 X 1/16; EPR)
7	*14874	1	Copper Washer (.700 X 1/2 X 1/32)
8	3000826	1	Cartridge sub-assy. (Torque to 250/280 in. lbs.)
9	15130	4	Plug Fitting (1/16 NPTF)
10	253153	4	Washer, Special 1/4 Sealing
11	10266	4	O-ring (.37 x .25 Nitrile)

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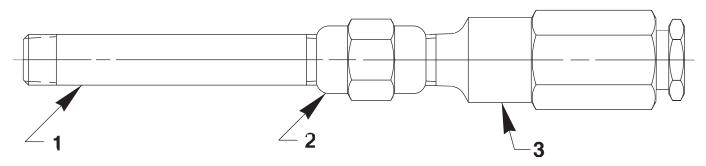
SECTION A-A



Item	Part	No.	
No.	No.	Req'd	Description
1	*213674	1	V-ring
2	46057	1	End Stem
3	15095	1	Spring (1/4 O.D. X 15/32 Lg.)
4	10375	1	Ball (1/4 Dia.)
5	61343	1	Valve Cap
6	10496	1	Slotted Spring Pin
7	252460	3	Seal
8	*11863	3	Backup Washer (1/2 X 3/8 X 1/16)
9	*10268	3	O-ring (1/2 X 3/8 X 1/16; Nitrile)
	11439		O-ring (1/2 X 3/8 X 1/16; Viton)
	17716		O-ring (1/2 X 3/8 X 1/16; EPR)
10	14972	1	Plug Fitting (1/4 NPTF)
11	65818	1	Valve Body
12	21975		Spring Washer
13	214801	1	Spacer Washer
14	200609	1	Drain Tube
15	421472		Rotor
16	250056		Slotted Spring Pin
17	11228		Needle Bearing
18	11227-1	1	Bearing Race
19	*15892		O-ring (1.956 X 1.720 X .118; Nitrile)
	19097	1	O-ring (1.956 X 1.720 X .118; Viton)
	212887	1	O-ring (1.956 X 1.720 X .118; EPR)
20	46048		Stem
21	*13943	1	O-ring (1/2 X 3/8 X 1/16; Disogren)
	11439	1	O-ring (1/2 X 3/8 X 1/16; Viton)
	17716		O-ring (1/2 X 3/8 X 1/16; EPR)
22	15911	1	Screw (Torque to 60/80 in. lbs. Note: Apply Loctite No. 222 or equivalent at assembly.)

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"B" PORT PRESSURE CONTROL SYSTEM

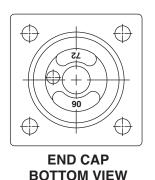


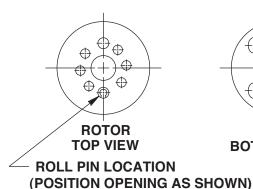
Set at 5800/6400 P.S.I.

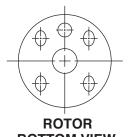
* Note: These three parts assembled together and shipped loose.

Item No.	Part No.	No. Rea'd	Description
	110.	ricq a	
1	12891-1	1	Straight Fitting
2	18841	1	Straight Fitting
3	21278-57	1	Relief Valve Assembly (Set at 5800/6400 PSI)

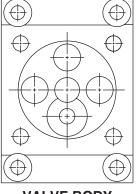
INTERNAL ASSEMBLY ORIENTATION OF PARTS





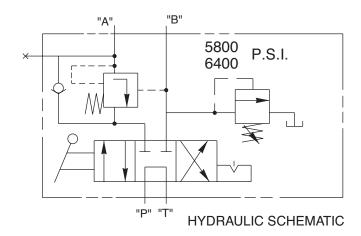


BOTTOM VIEW



VALVE BODY TOP VIEW

SPECIFICATIONS



VALVE, PUMP MOUNTED MANUAL DETENTED 3-POSITION, 4-WAY TANDEM CENTER WITH "B" PORT PRESSURE CONTROL AND RELEASE SYSTEM. (2.15 TO 1 RATIO REF.)

RATED PRESSURE: 10,000 P.S.I. CASE PRESSURE: 500 P.S.I. RATED FLOW: 5 G.P.M. (REF.)

REPORT ERRORS TO ENGINEERING DEPARTMENT. **FUNCTION:**

CENTER POSITION:

"A" AND "B" PORTS BLOCKED, PRESSURE PORT TO TANK.

"A" POSITION:

PRESSURE TO "A" PORT, "B" PORT TO TANK. "B" POSITION:

PRESSURE TO "B" PORT (CONTROLLED TO 6400 P.S.I. MAX.) "A" PORT TO HOLD UNTIL PRESSURE RATIO IS OBTAINED AND THEN RELEASES TO TANK. "A" PORT WILL REMAIN OPEN AS LONG AS "B" PORT MAINTAINS PRESSURE RATIO.

NOTE: "A" PORT IS BLOCKED WITH "B" AND "P" PORTS OPEN TO TANK DURING TRANSITION BETWEEN VALVE POSITIONS. PRESSURE RATIO IS THE PRESSURE DIFFERENTIAL IN THE "A" AND "B" PORTS.