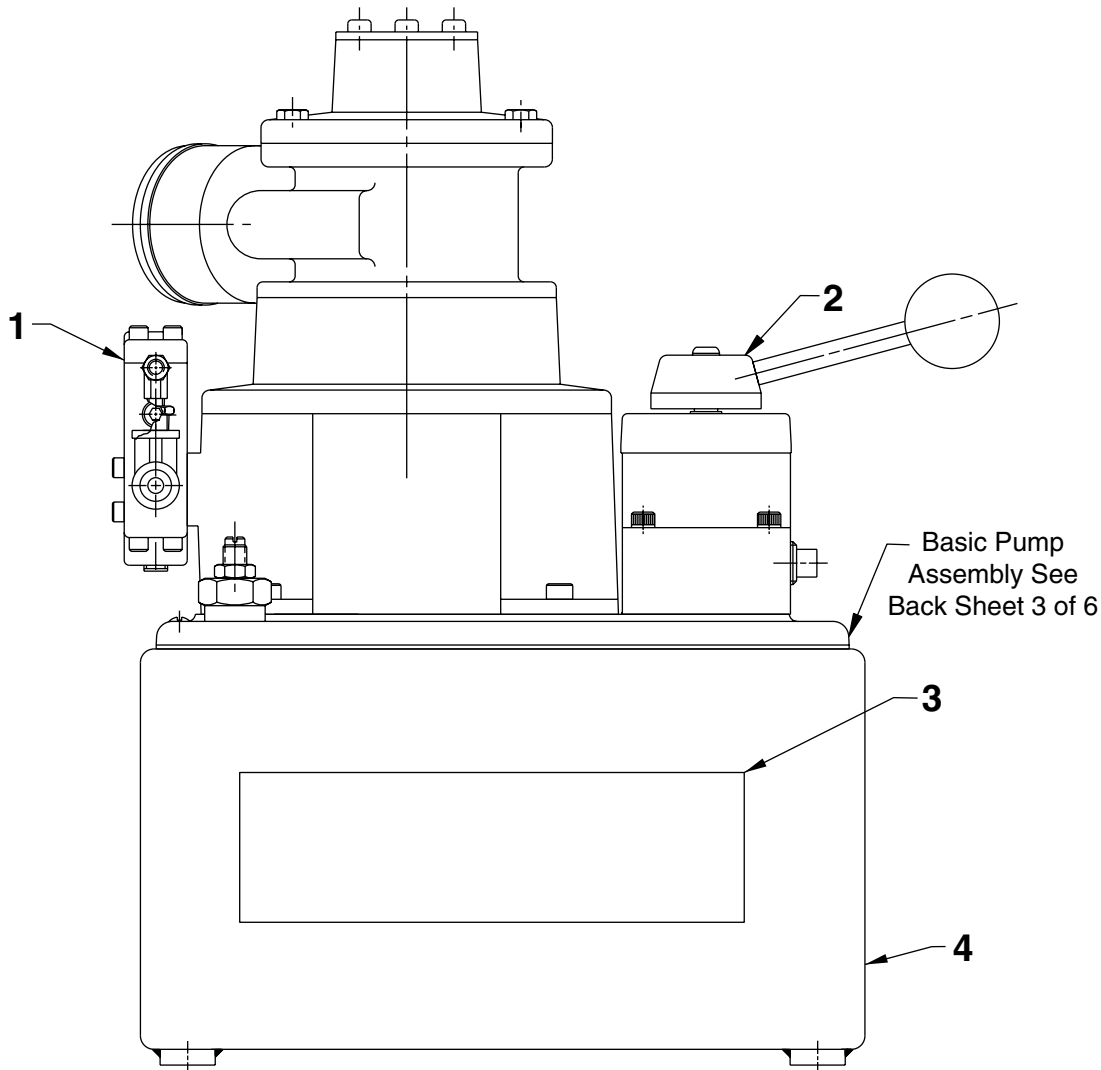
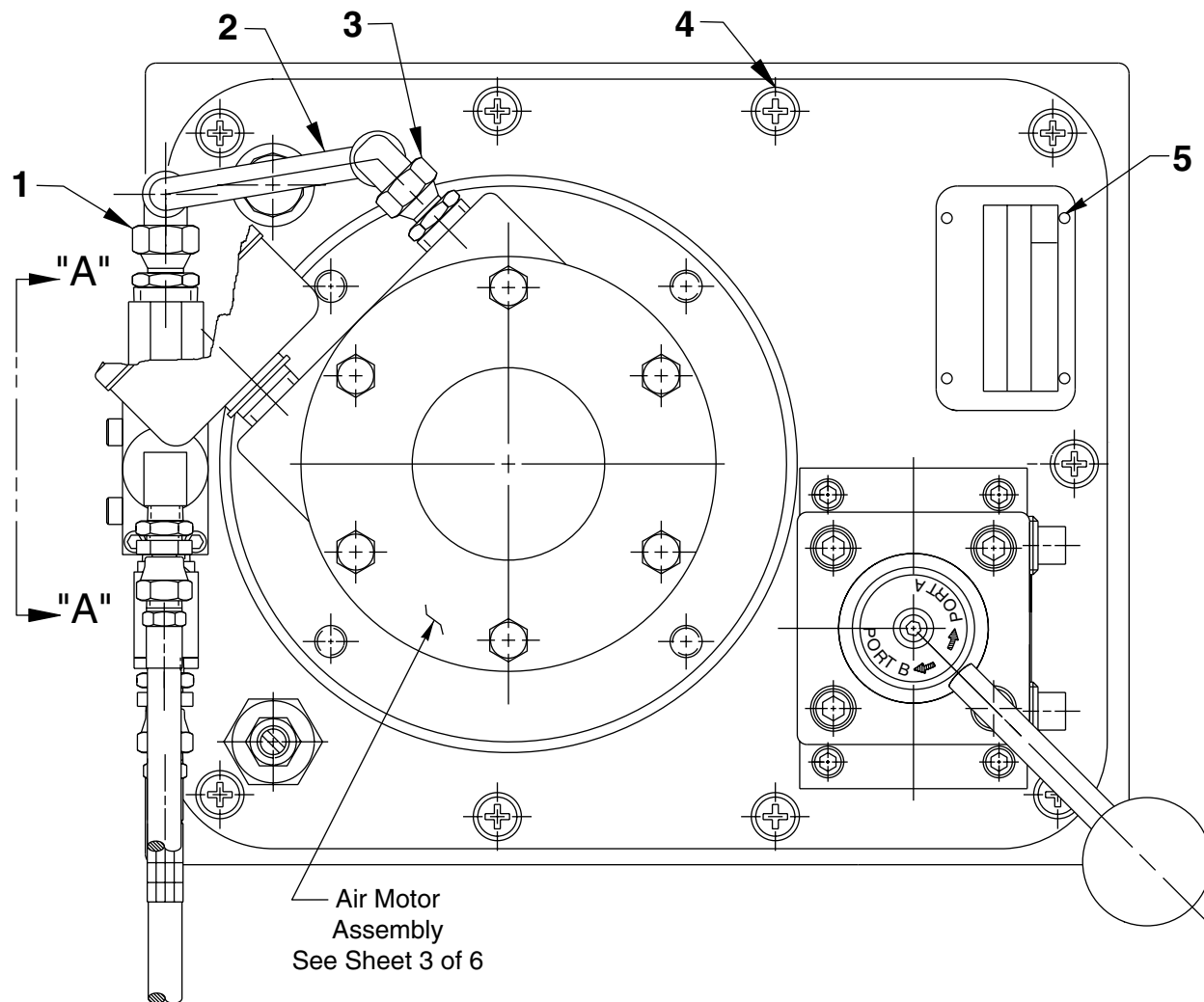


MODEL B
AIR HYDRAULIC PUMP
Maximum Capacity: 10,000 PSI



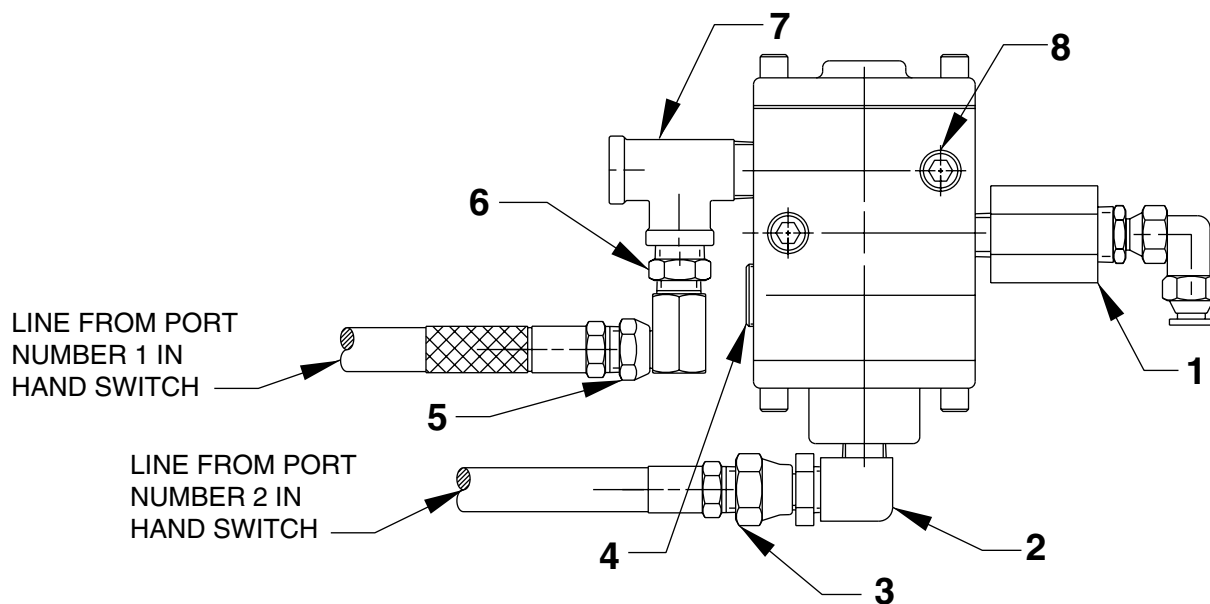
Item No.	Part No.	No. Req'd	Description
1	212404	1	3-Way Air Operated Valve
2	59323	1	4-Way Tandem Center Manual Valve (See sheet 6 of 6)
3	309219	2	Trade Name Decal (Power Team)
4	40063OR9	1	Reservoir (2 gallon)

TOP VIEW



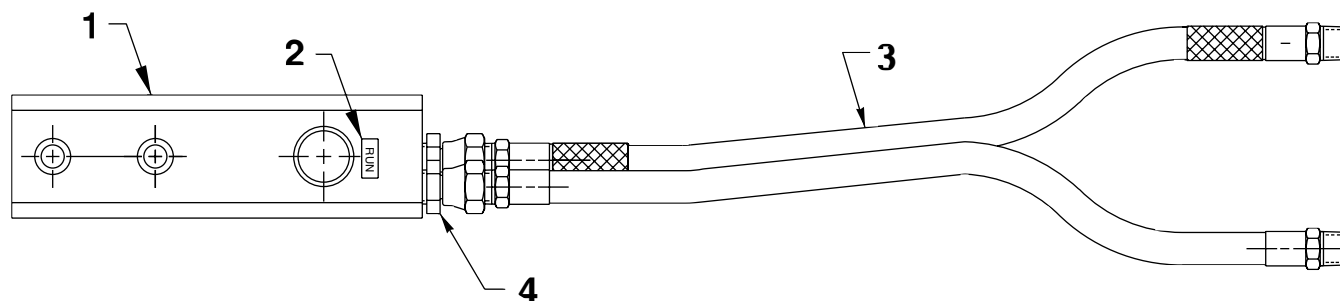
Item No.	Part No.	No. Req'd	Description
1	252176	1	90° Elbow Fitting
2	252226	4 in.	Nylon Tubing
3	252177	1	90° Elbow Fitting
4	10177	10	Round Head Screw (1/4-20 X 3/4 Lg.)
5	10575	4	Round Head Drive Screw (2" X 3/16 Lg.)

VIEW A-A



Item No.	Part No.	No. Req'd	Description
1	13888	1	Straight Fitting (1/4 NPTF)
2	14680	1	90° Elbow Fitting (1/8 NPTF)
3	208218	1	Straight Fitting (1/8 NPTF)
4	10479	1	Plug Fitting (1/8 NPTF)
5	14440	1	90° Elbow Fitting (1/8 NPTF)
6	206324	1	Straight Fitting (1/4 NPTF)
7	10618	1	Tee Fitting (3/8 NPTF)
8	10020	2	Hex Head Cap Screw (1/4-28 X 1-1/4" Lg.)

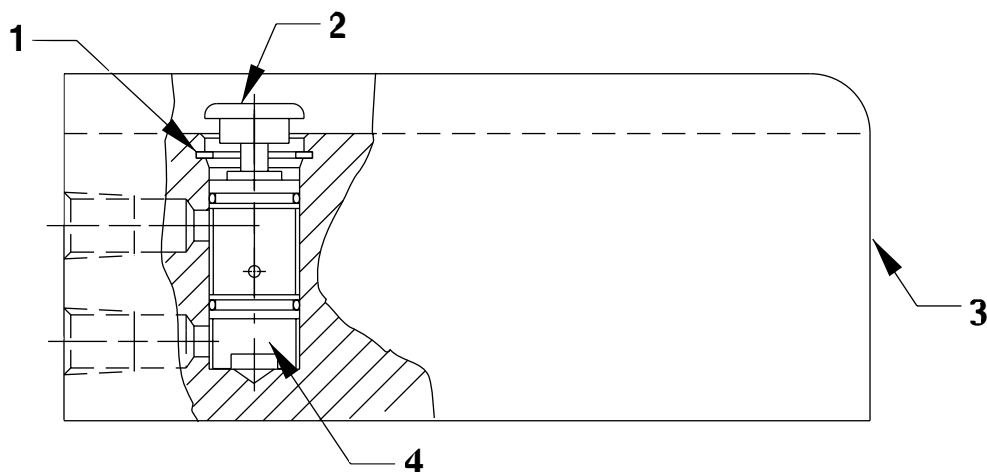
REMOTE CONTROL



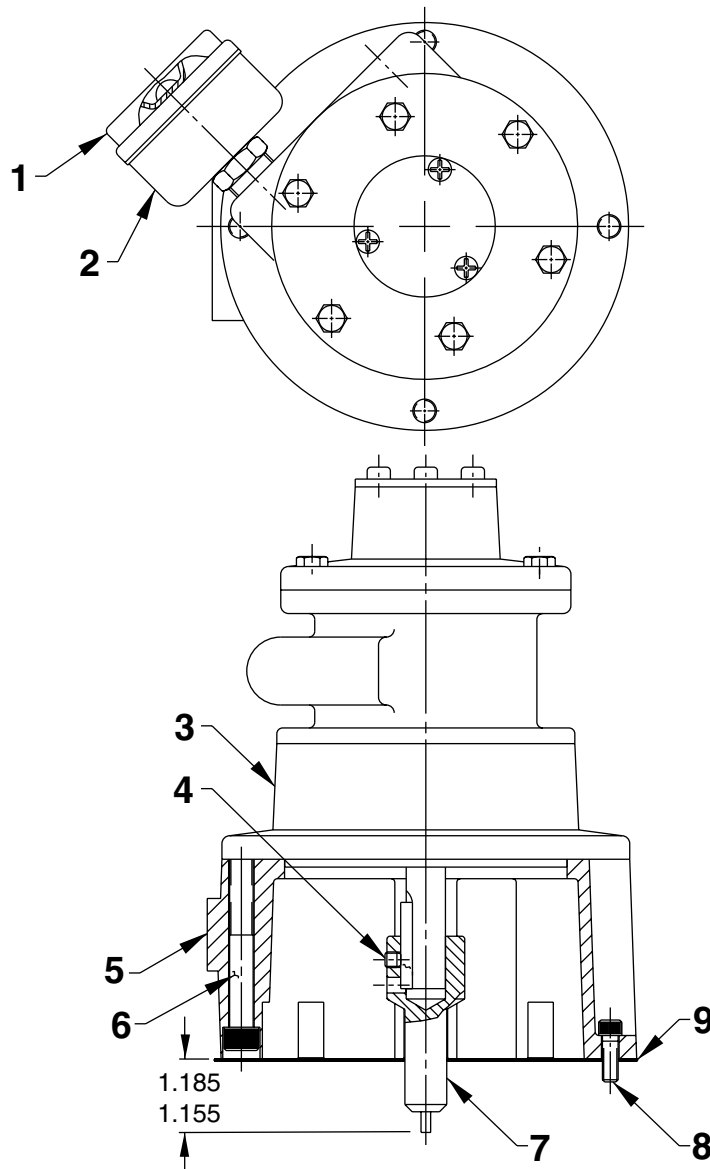
Item No.	Part No.	No. Req'd	Description
1	421339	1	Remote Control Assembly (See below)
2	203770	1	Instruction Decal (Run)
3	421340	1	Two Strand Hose (25 ft. long; Note: Connect hose assembly to remote control and pump as shown. Color coded or numbered ends must correspond to numbers on the remote control and location shown on Pump Assembly View "A-A".)
4	208218	2	Straight Fitting (1/8 NPTF)

REMOTE CONTROL ASSEMBLY

No. 421339



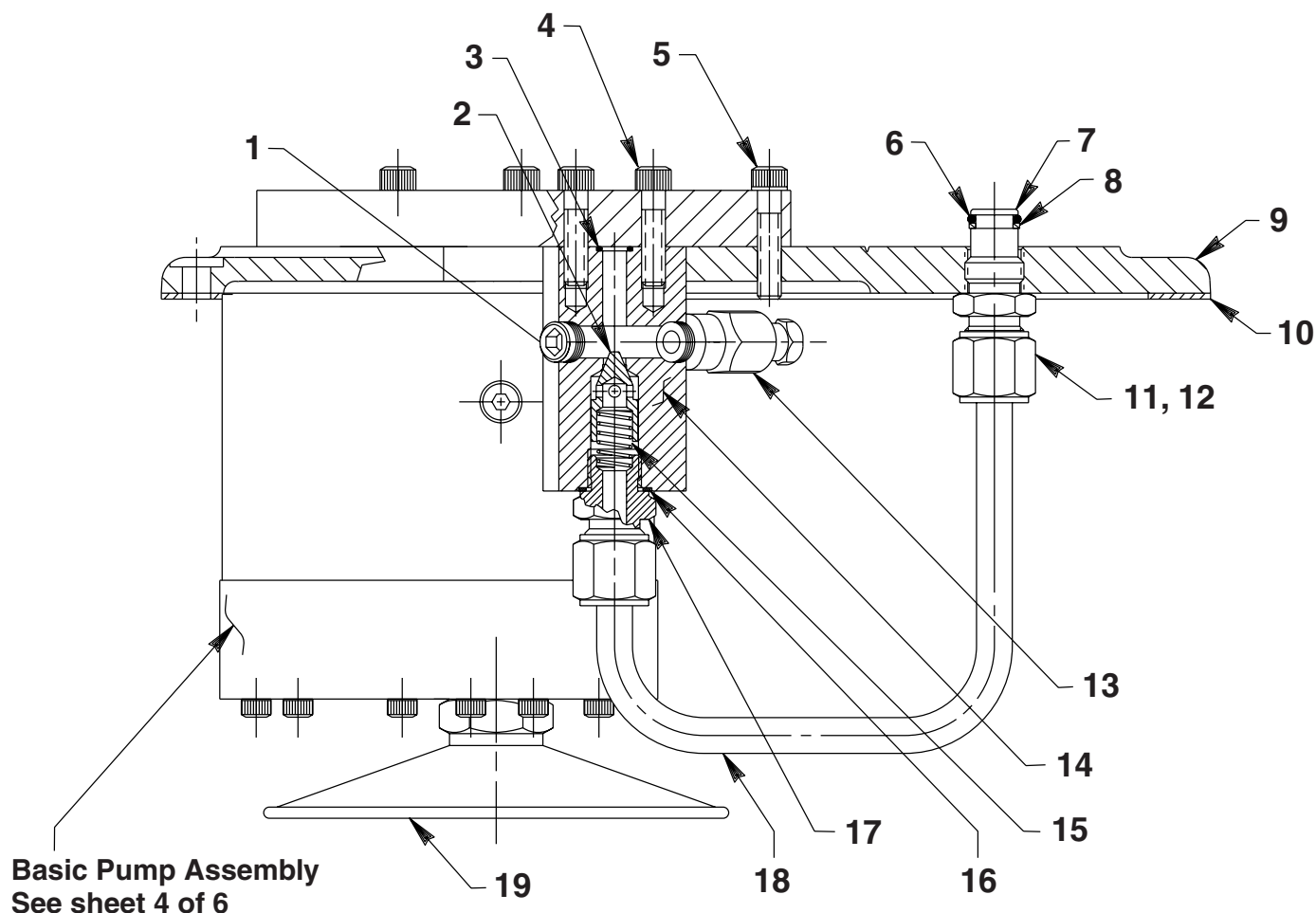
Item No.	Part No.	No. Req'd	Description
1	11033	1	Internal Retaining Ring (For 11/16 shaft)
2	206105	1	Push With Wrench Button
3	421338	1	Valve Body
4	206104	1	3-Way Closed Valve Cartridge

AIR MOTOR ASSEMBLY**No. 58820**

Item No.	Part No.	No. Req'd	Description
1	205505	1	Muffler Deflector (Screws supplied with deflector; point exhaust opening down.)
2	13966	1	Muffler
3	*14717	1	Air Motor
4	10556	1	Set Screw (1/4-20 X 1/4 Lg.)
5	58821WH2	1	Motor Base
6	17816	4	Socket Head Screw (3/8-16 X 3" Lg.)
7	37842	1	Shaft Extension
8	10008	4	Socket Head Screw (1/4-20 X 3/4 Lg.)
9	30650	1	Motor Base Gasket

* Note: For Air Motor Repair Kit, order no. 252100.

GENERAL PUMP ASSEMBLY

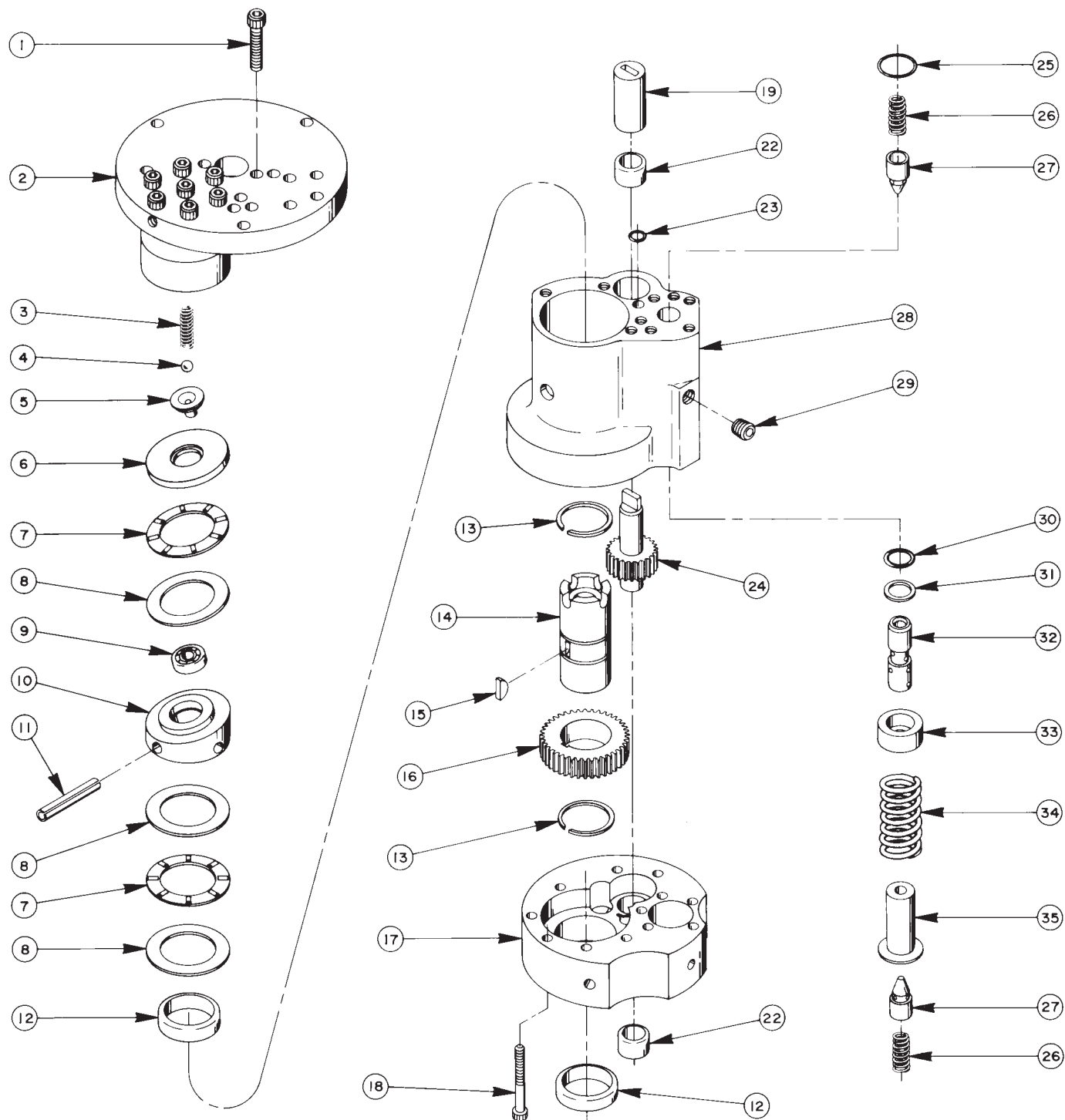


Item No.	Part No.	No. Req'd	Description
1	10427	1	Plug Fitting (1/8 NPTF)
2	20771	1	Poppet
3	10266	1	O-ring (.37 x .25 Nitrile)
4	10015	2	Soc. Hd. Screw (1/4-28 x 1; Torque to 130/180 in. lbs.)
5	10016	3	Soc. Hd. Screw (1/4-20 x 1)
6	10268	1	O-ring (.50 x .37 Nitrile)
7	20787	1	Valve Connector
8	11863	1	Backup Washer (.50 x .38)
9	64856WH2	1	Cover Plate
10	40164	1	Reservoir Gasket
11	10430	2	Tube Sleeve (3/8 dia.)
12	10431	2	Tube Nut Fitting (3/8 tube)
13	21278-57	1	Relief Valve Assembly (Set at 5,800/6,400 PSI)
14	20776	1	Valve Body
15	10425	1	Spring (.37 OD x .75 x .03 WS)
16	10261	1	Copper Washer (.75 x .60)
17	20770	1	Connector Fitting (9/16 x 5/8; Torque to 40/50 ft. lbs.)
18	21045	1	Oil Line Tube
19	21345	1	Filter Screen (Includes o-ring [Item #20])
20	10527	1	O-ring

PARTS INCLUDED BUT NOT SHOWN

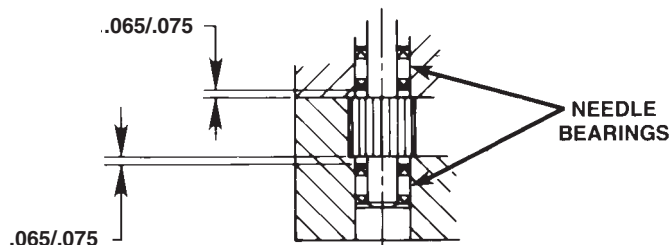
10177	10	Rnd. Hd. Screw (1/4-20 x 3/4; Mounts cover plate to reservoir)
20937	1	Vent Cap

BASIC PUMP ASSEMBLY



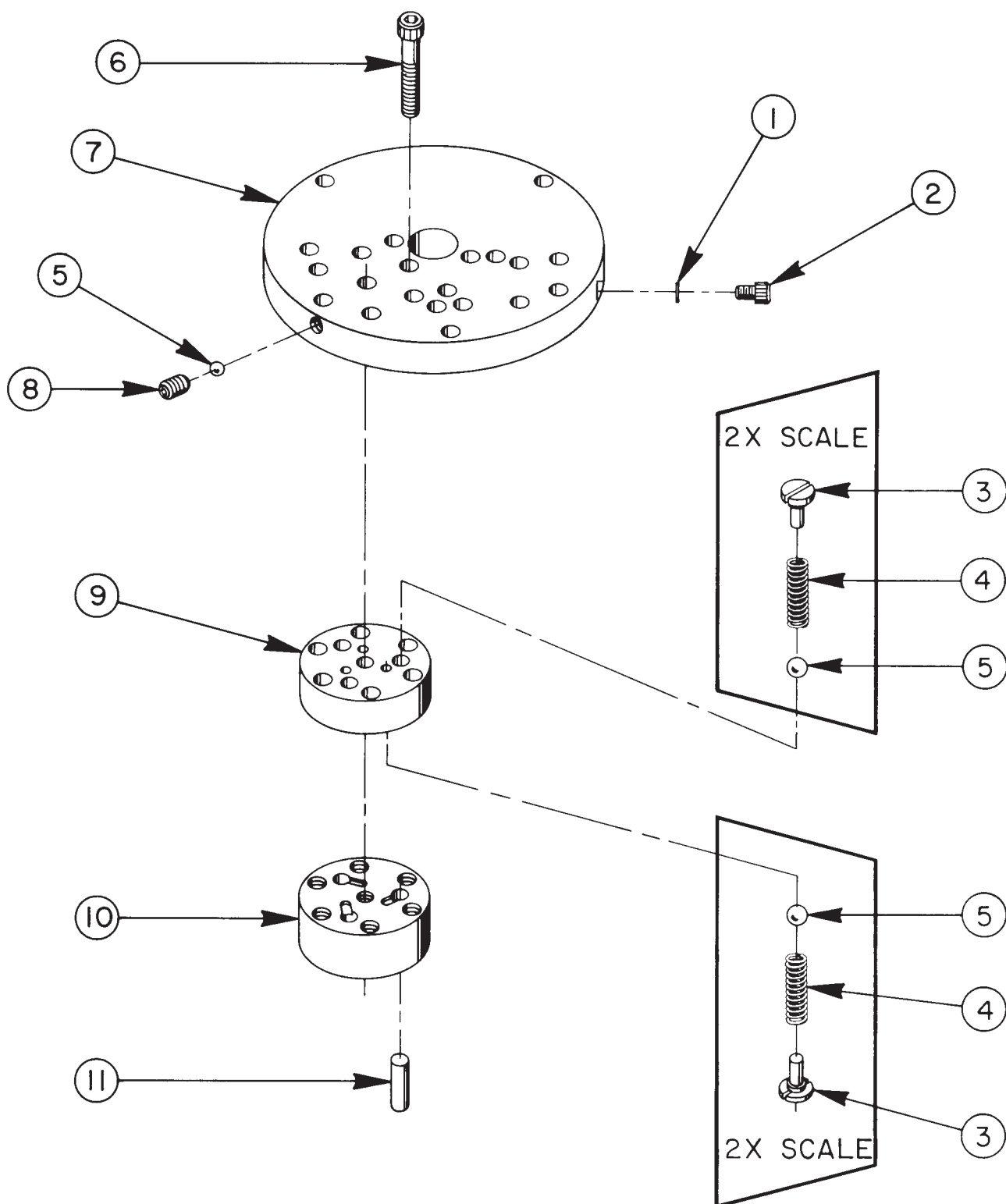
Item No.	Part No.	No. Req'd	Description
1	10020	9	Soc. Hd. Cap Screw (1/4-20 UNC X 1-1/4 Lg.: Torque to 170-180 in. lbs.)
2	33113	1	High Pressure Pump Ass'y (See sheet 5 of 6)
3	10361	1	Compression Spring (1/4 O.D. X 1" Lg.)
4	10375	1	Steel Ball (1/4" dia.)
5	23547	1	Bearing Top Plate
6	23548	1	Top Plate
7	11228	2	Thrust Bearing
8	11813	3	Bearing Race
9	11814	1	Ball Bearing
10	23549	1	Angle Plate
11	11955	1	Roll Pin (1/4" dia. X 1-3/4 Lg.)
12	11064	2	Needle Bearing
13	11261	2	Retaining Ring
14	23556	1	Shaft
15	11821	1	Woodruff Key
16	23557	1	Gear
17	30533	1	Pump End Plate
18	10001	12	Soc. Hd. Cap Screw (#10-32 UNF X 1-3/4" Lg.; Torque to 50 in. lbs.)
19	251206	1	Aluminum Coupling
22	11199	2	Needle Thrust Bearing (See Note below)
23	10266	1	O-ring (3/8 X 1/4 X 1/16)
24	21272	1	Drive Gear
25	10303	1	O-ring (7/8 X 3/4 X 1/16)
26	10425	2	Compression Spring (3/8 O.D. X 3/4 Lg.)
27	20771	2	Poppet
28	40120	1	Pump Body
29	10427	1	Pipe Plug (1/8" NPTF)
30	10271	1	O-ring (11/16 X 1/2 X 3/32)
31	12389	1	Teflon Backup Washer (11/16 X 1/2 X 1/16)
32	20849	1	Spool
33	23255	1	Spring Guide
34	10426	1	Compression Spring (1" O.D. X 1-13/16 Lg.)
35	23256	1	Spring Guide

NEEDLE BEARING INSTALLATION SPECIFICATIONS



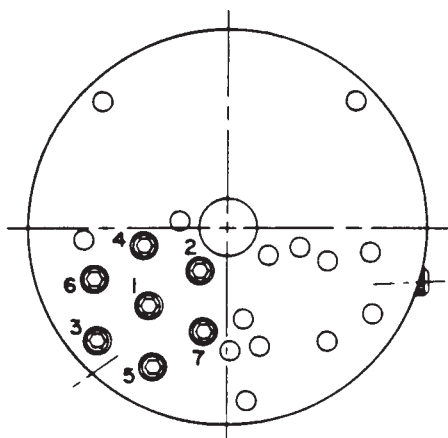
When replacing the needle bearings on the drive gear of the basic pumps, the dimensions shown must be as specified.

HIGH PRESSURE PUMP ASSEMBLY



Item No.	Part No.	No. Req'd	Description
1	10442	1	Copper Washer (3/8 X 1/4 X 1/32)
2	10002	1	Soc. Hd. Cap Screw (1/4-20 UNC X 3/8" Lg.; Torque to 140/160 in. lbs.)
3	24549	6	Valve Guide
4	10445	6	Compression Spring (5/32" O.D. X 3/4" Lg.)
5	12223	7	Steel Ball
6	10023	7	Soc. Hd. Cap Screw (1/4-20 UNF X 1-1/2" Lg.; Torque to 170/180 in. lbs.; See note below)
7	50411	1	Top Plate
8	10519	1	Soc. Set Screw (1/4-20 UNC X 3/8 Lg.; Torque to 65/70 in. lbs.)
9	40630	1	Valve Head
10	41062	1	Pump Barrel
11	21628	3	Piston

BOLT TIGHTENING SEQUENCE



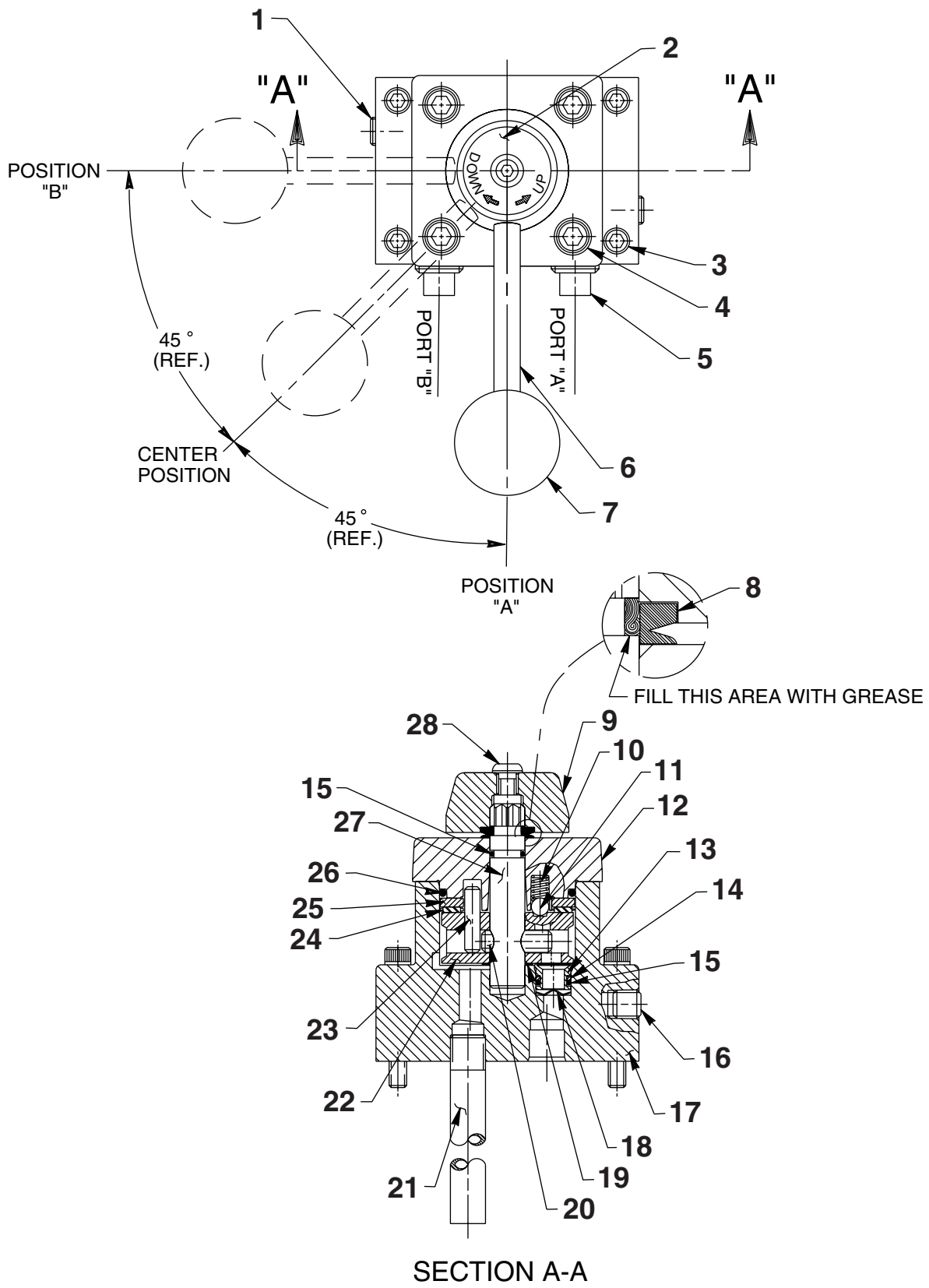
NOTE: Assemble in sequence shown. Lubricate under head and on threads. Torque to 180 in. lbs.

Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine replacement parts!**

Additional questions can be directed to our Technical Services Department.

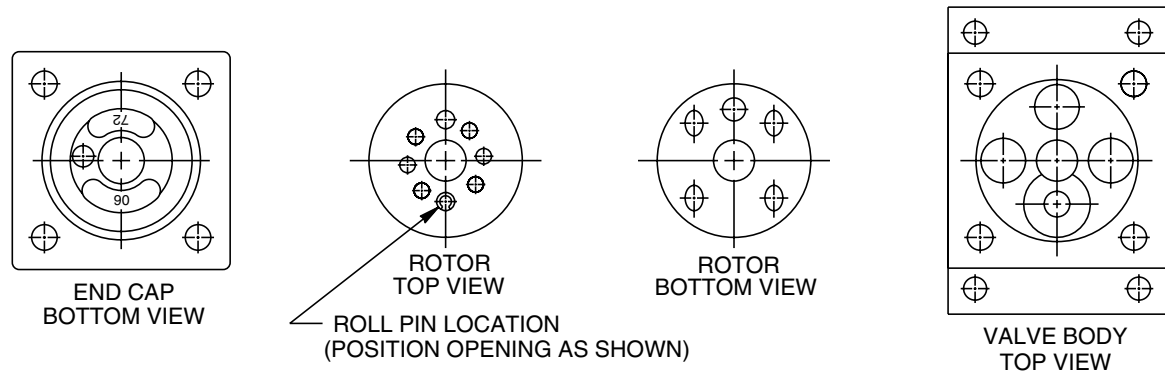
VALVE ASSEMBLY



Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	15130	2	Plug Fitting (1/16 PTF)	16	14972	1	Plug Fitting (1/4 PTF)
2	253284	1	Controls Decal	17	61288	1	Valve Body
3	10854	4	Soc. Hd. Screw (1/4-20 x 1-3/4)	18	21975	3	Spring Washer (.49 x .35)
4	11013	4	Soc. Hd. Screw (5/16-18 x 1; Torque to 300/325 in. lbs.)	19	214801	1	Spacer Washer (.73 x .51)
5	11127	2	Plug Fitting (3/8 NPTF)	20	10496	1	Slotted Spring Pin (.31 x 1.00)
6	21639	1	Stud	21	200609	1	Drain Tube
7	211911	1	Ball Knob	22	421472	1	Rotor
8	*213674	1	V-ring (.79 x .55 x .22 L)	23	250056	1	Slotted Spring Pin (.22 x .94)
9	46057	1	End Stem	24	11228	1	Needle Bearing
10	15691	1	Spring (.24 OD x .63 x .04 WS)	25	11227-1	1	Bearing Race
11	10375	1	Ball (1/4 dia. steel)	26	*15892	1	O-ring (1.95 x 1.72 Nitrile)
12	61343	1	Valve Cap	27	46048	1	Stem
13	252460	3	Seal	28	15911	1	Button Hd. Screw (1/4-20 x 5/8; Torque to 60/80 in. lbs. NOTE: Apply Loctite No. 222 or equivalent at assembly.)
14	*11863	3	Backup Washer (.50 x .38)				
15	*10268	4	O-ring (.50 x .37 Nitrile)				

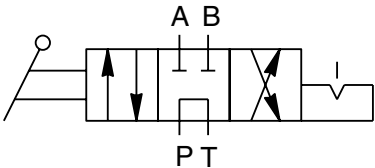
Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300451.

INTERNAL ASSEMBLY ORIENTATION OF PARTS



SPECIFICATIONS

Valve, pump mounted manual detented
3-position, 4-way tandem center
Rated pressure: 10,000 PSI
Case pressure: 500 PSI max.
Rated flow: 5 GPM



HYDRAULIC SCHEMATIC

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
 - "A" port to tank

NOTE: All port open to tank during transition between valve positions.