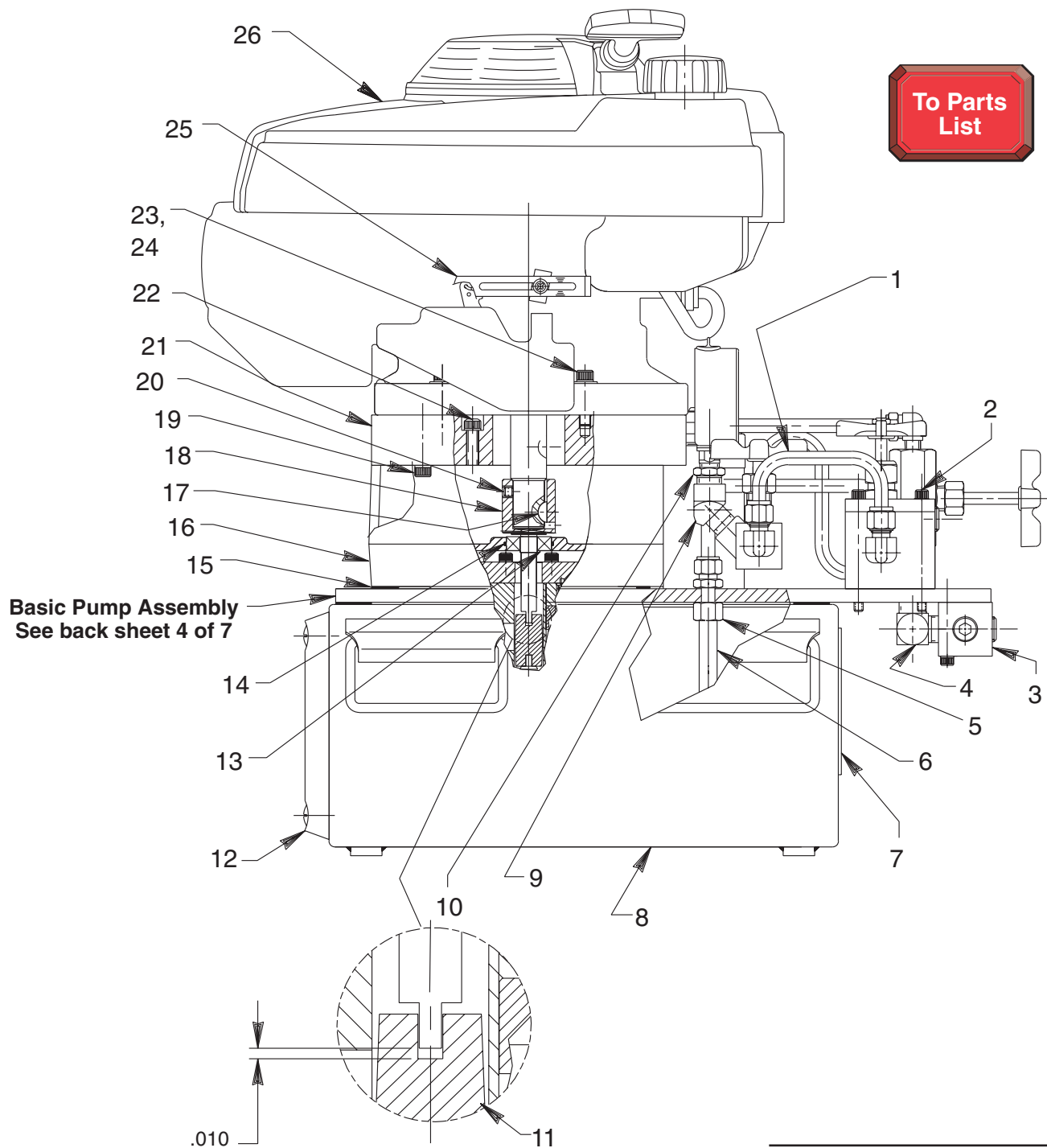


GAS HYDRAULIC PUMP

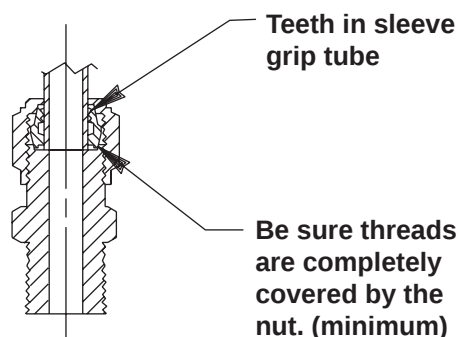
Max. Capacity: 10,000 PSI



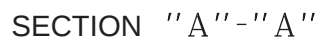
Item No.	Part No.	No. Req'd	Description
1	251614	1	Oil Line Tube
2	10854	2	Cap Screw (1/4-20UNC X 1-3/4Lg.)
3	9627	1	Manifold Body
4	16254	1	90° Elbow
5	18345	1	Connector
6	250630	1	Drain Tube
7	309221	1	Decal
8	64594OR9	1	Reservoir
9	10622	1	Street Elbow
10	10676	1	Straight Fitting
11	251206	1	Coupling
12	350431	1	Sight Gauge
13	10439	1	Ball Bearing
14	15124	1	O-ring (1-3/8 X 1-1/4 X 1/16)
15	40987	1	Gasket
16	50384WH2	1	Plate
17	10945	1	Key
18	420052	1	External Shaft
19	251566	1	Cap Screw (5/16-24 UNF x 2" Lg.)
20	10556	1	Set Screw (1/4-20 UNC X 1/4 Lg.)
21	420200	1	Mounting Plate
22	250427	4	Screw (5/16-18 UNC x 1/2 Lg.)
23	10948	2	Cap Screw (5/16-18 UNC X 1-1/2 Lg.)
24	10257	2	Washer (For 5/16 bolt)
25	17596	1	Slide Control
26	420202	1	Gas Engine (5.5 H.P.)



OIL LINE TUBING ASSEMBLY INSTRUCTIONS



1. Always use a fitting whose materials are compatible with the tubing that is used (e.g. when using stainless steel tubing, use 316 stainless steel fittings.)
2. Lubricate the threads and the camming area of the nut.

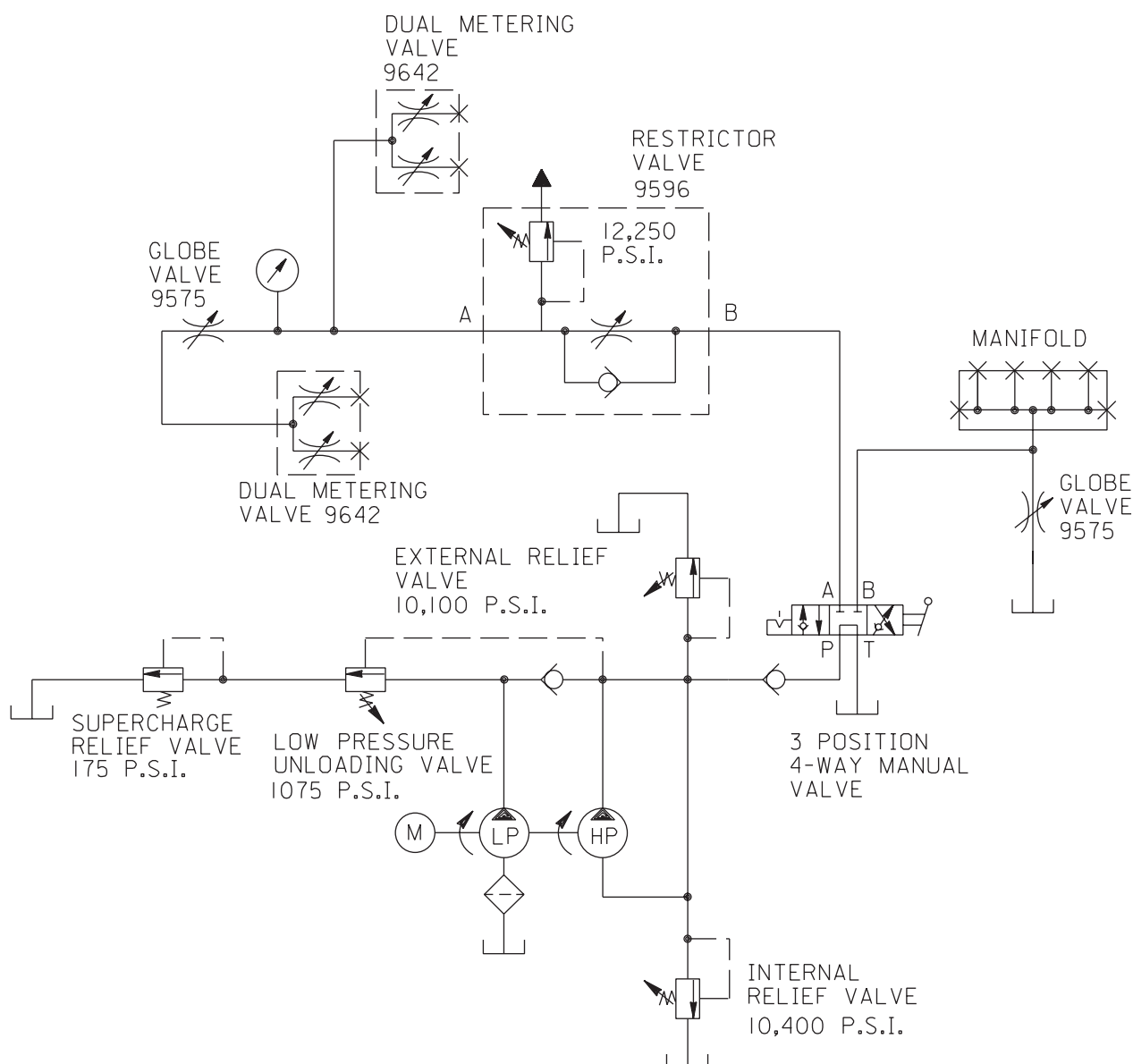
A red rectangular button with a dark red border and a small shadow, containing the text "To Parts List" in white.

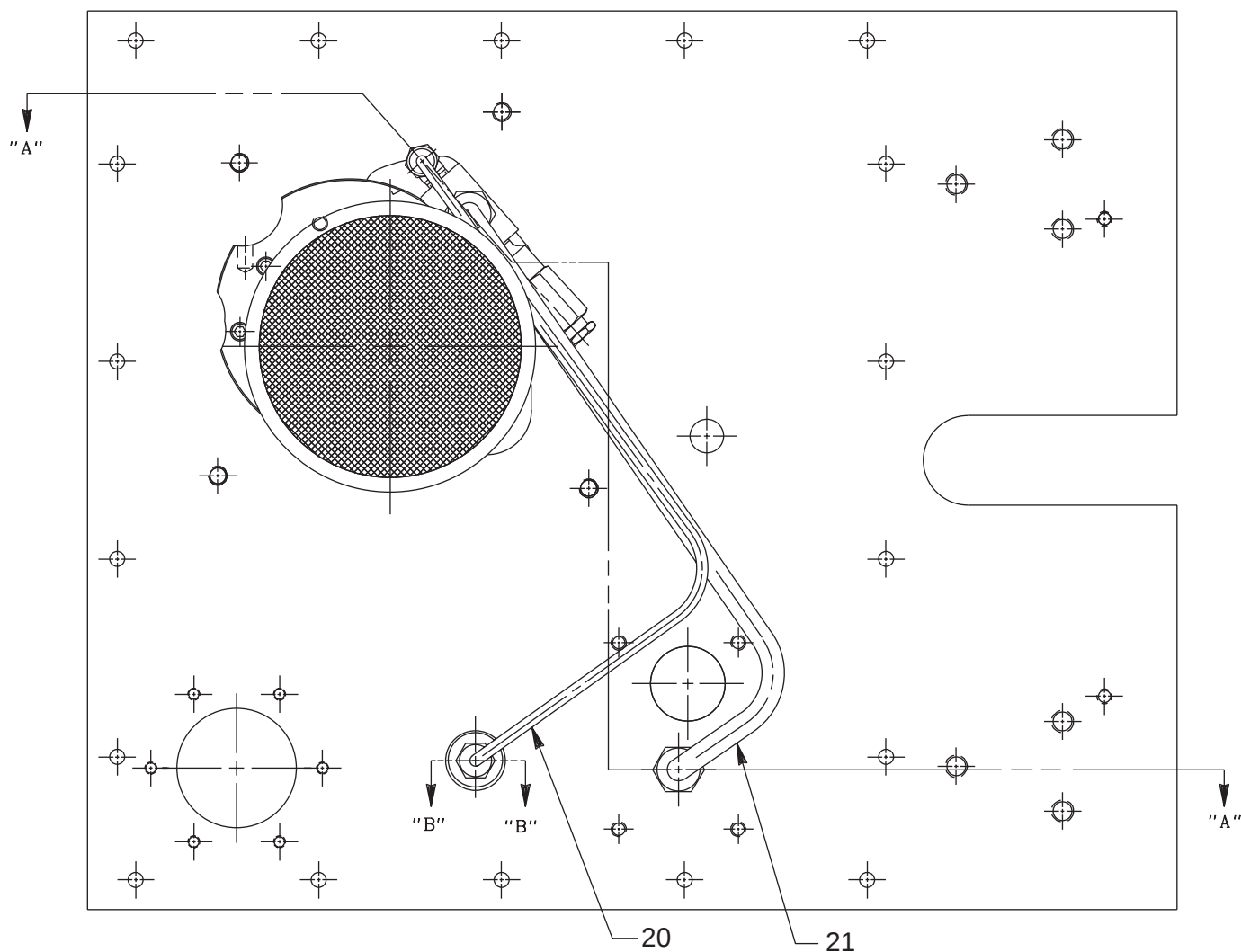
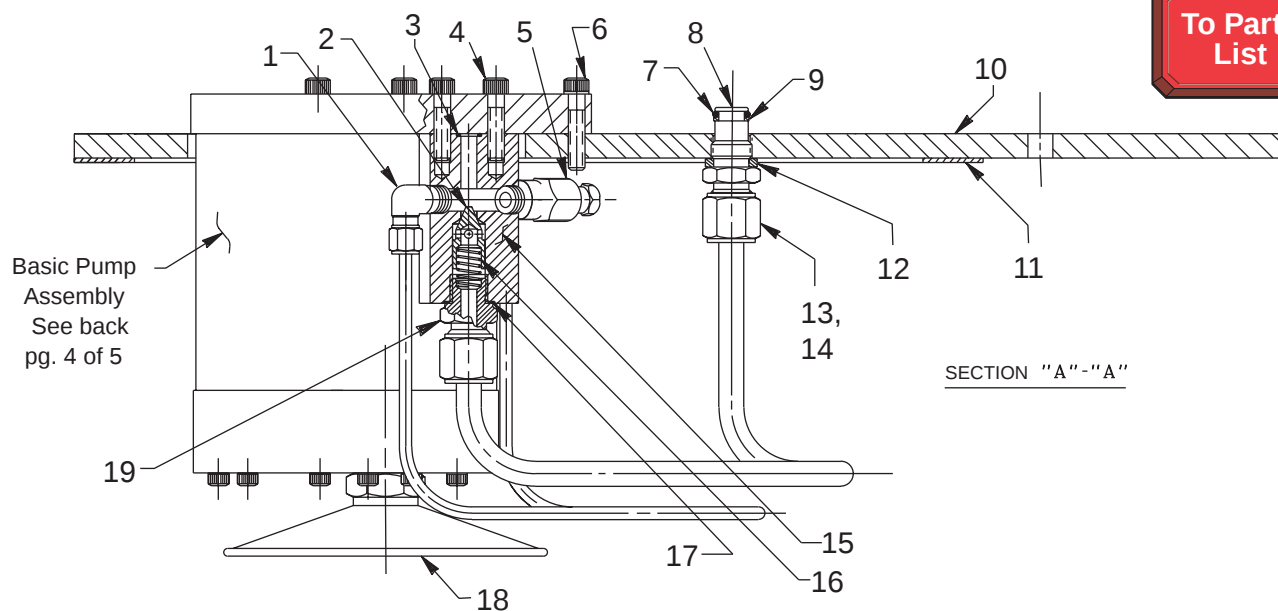
Item No.	Part No.	No. Req'd	Description
1	13026	18	Machine Screw (10-24 UNC X 3/4 Lg.)
2	12356	18	Lockwasher (#10 Internal Tooth)
3	13167	1	Filler Breather Cap
4	52516	1	Manual Valve
5	10666	6	Elbow
6	214270	7	Tube Sleeve
7	214269	7	Tube Nut
8	16254	1	90° Elbow
9	420074	2	Metering Valve Body
10	38983	4	Needle Valve

Item No.	Part No.	No. Req'd	Description
11	10909	12	Plug (3/8 NPTF)
12	17816	6	Cap Screw (3/8-16 UNC X 3" Lg.)
13	350976	1	Oil Line Tube
14	10623	3	Tee Fitting
15	9575	2	Needle Valve
16	9040	1	Gauge (2-1/2 liquid filled)
17	350975	1	Oil Line Tube
18	350977	1	Oil Line Tube
19	46647	1	Restrictor Valve



HYDRAULIC SCHEMATIC



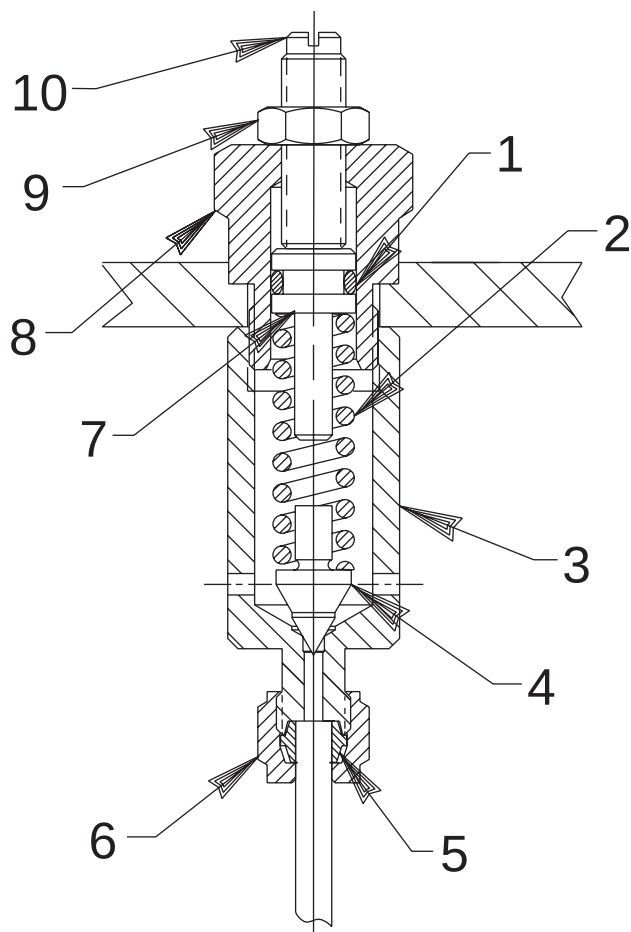
BASIC PUMP ASSEMBLY**To Parts
List**

Item No.	Part No.	No. Req'd	Description
1	11278	1	Tube Elbow
2	20771	1	Poppet
3	10266	1	O-ring (3/8 X 1/4 X 1/16, -010)
4	10015	2	Cap Screw (1/4-28 UNF X 1" Lg.; Torque to 130/180 in. lbs.)
5	21278	1	Relief Valve Assembly
6	10016	3	Cap Screw (1/4-20 UNC X 1" Lg.)
7	10268	1	O-ring (1/2 X 3/8 X 1/16)
8	20787	1	Connector
9	11863	1	Backup Washer (1/2 X 3/8 X 1/16)
10	64707WH2	1	Cover Plate
11	50712	1	Gasket
12	21484	1	Spacer

Item No.	Part No.	No. Req'd	Description
13	10430	2	Tube Sleeve
14	10431	2	Tube Nut
15	20776	1	Valve Body
16	10425	1	Compression Spring (3/8 O.D. X 3/4 Lg.)
17	10261	1	Copper Washer (7/16 X 5/16 X 1/16)
18	21345	1	Filter Assembly
19	20770	1	Connector (Torque to 40/50 ft. lbs.)
20	420934	1	Oil Line Tube
21	420933	1	Oil Line Tube

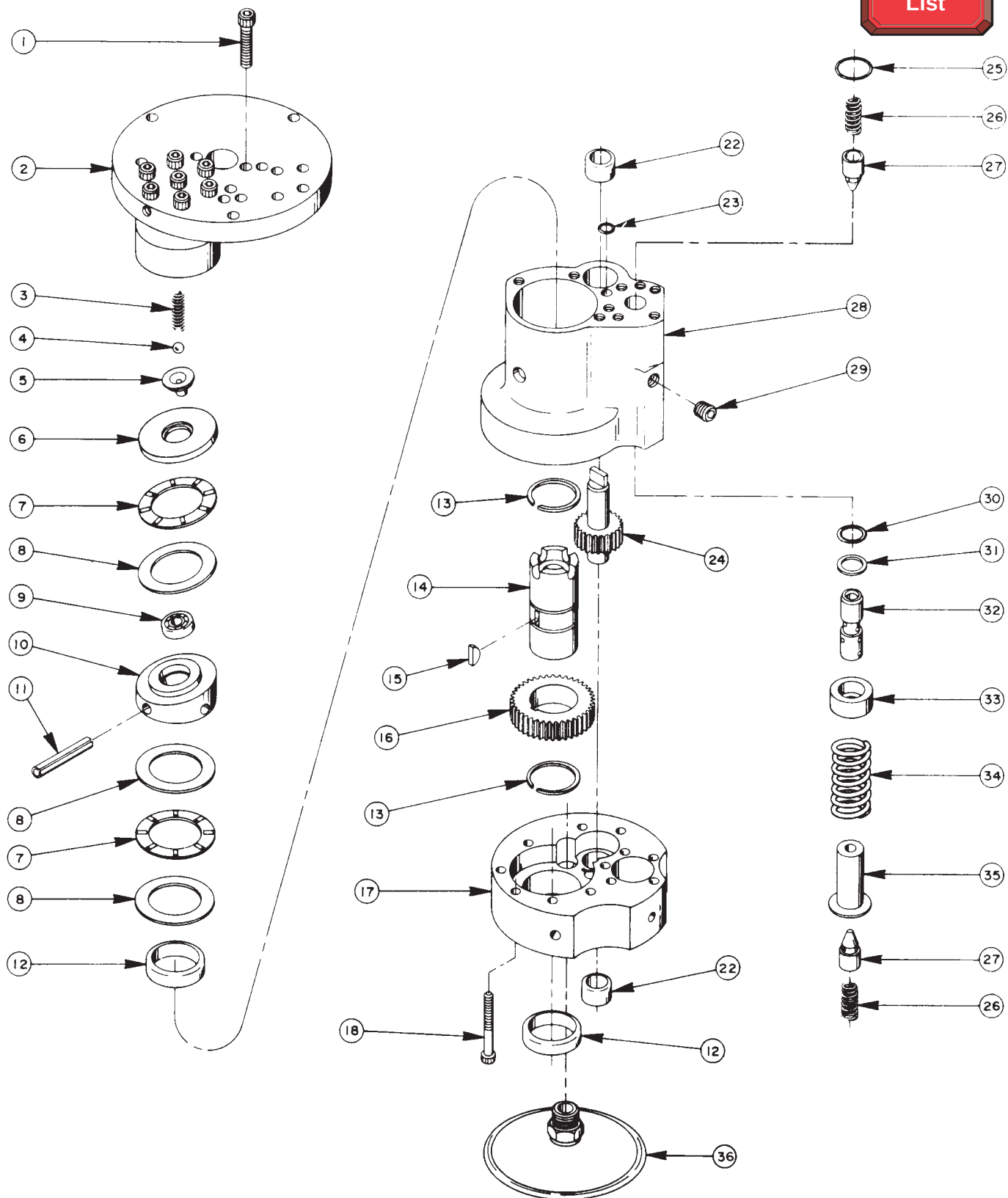


SECTION B-B PRESSURE REGULATOR ASSEMBLY



Item No.	Part No.	No. Req'd	Description
1	10268	1	O-ring (1/2 X 3/8 X 1/16)
2	10495	1	Compression Spring (.45 x 1-5/8 Lg.)
3	22361	1	Body
4	21046	1	Valve Stem
5	11174	1	Tube Sleeve
6	11342	1	Tube Nut
7	21306	1	Spring Guide
8	21305	1	Valve Cap
9	10386	1	Hex Nut (3/8-24 UNF)
10	22362	1	Adjusting Screw (Set at 10,000/10,200 PSI)

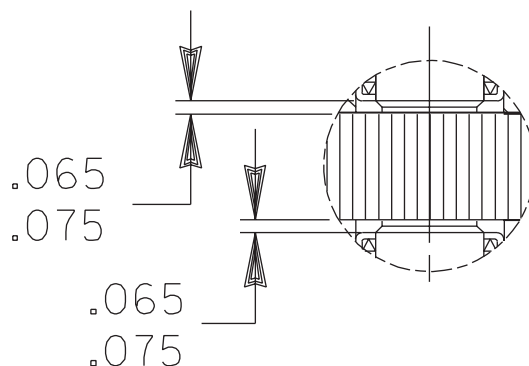
GENERAL PUMP ASSEMBLY

**To Parts
List**

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	33114	1	High Pressure Pump Assembly (See pg. 5 of 5)
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 Needle Bearing
8	11813	3	Needle Thrust Race Bearing
9	11814	1	Ball Bearing
10	23549	1	Angle Plate
11	11955	1	Roll Pin (1/4 dia. x 3/4 Lg.)
12	11064	2	Needle Bearing
13	11261	2	Retaining Ring
14	23556	1	Shaft
15	11821	1	Woodruff Key (No. 3)
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 50/60 in. lbs.)
22	11199	2	Needle Thrust Bearing (See note below)
23	10266	1	O-ring (1/4 x 3/8 x 1/16)
24	21272	1	Drive Gear
25	10303	1	O-ring (3/4 x 7/8 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
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
36	21345	1	Filter Assembly

To
Drawing

NEEDLE BEARING INSTALLATION SPECIFICATIONS

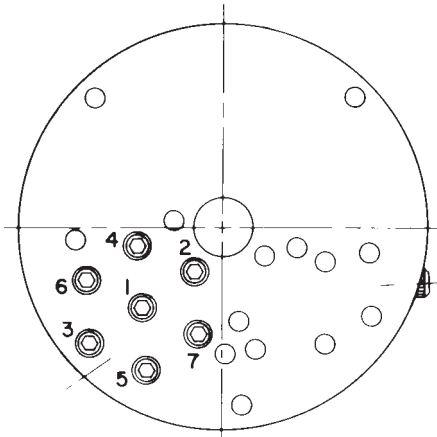


When replacing the needle bearings on the drive gear of the basic pump, the dimensions shown must be as specified.

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	12	Valve Guide
4	10445	12	Compression Spring (5/32 O.D. x 3/4 Lg.)
5	12223	13	Steel Ball (3/16 dia.)
6	10023	7	Soc. Hd. Cap Screw (1/4-28 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	41048	1	Valve Head
10	41063	1	Pump Barrel
11	21628	6	Piston



BOLT TIGHTENING SEQUENCE



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