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Order Entry: (800) 533-6127 Fax: (800) 283-8665 International Sales: (507) 455-7290

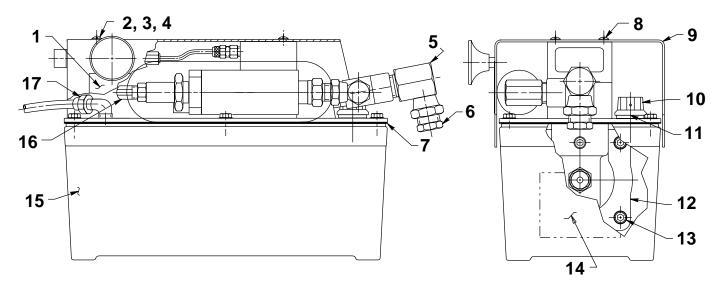
Fax: (507) 455-7063

Parts List for:

218228

MODEL F AIR HYDRAULIC PUMP

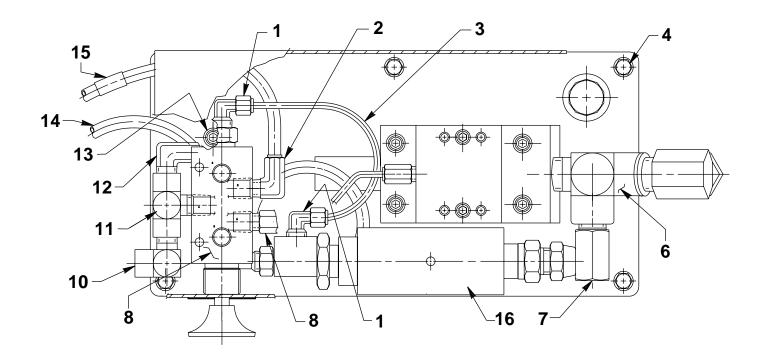
Maximum Capacity: 10,000 PSI



Item No.	Part No.	No. Req'd	Description
1	250490	1	Decal
2	250968	2	Rd. Hd. Machine Screw (#10-24 X 1-1/4" Lg.)
3	11108	2	External Tooth Washer
4	10197	2	Hex. Machine Screw Nut
5	10470	1	Adapter Union
6	250952	1	Pipe Plug (3/8 NPTF)
7	*33853	1	Reservoir Gasket
8	10164	2	Rd. Hd. Machine Screw (#10-24 X 3/8 Lg.)
9	58263BK2	1	Shroud
10	251689	1	Filler/Breather Cap
11	*10273	1	O-ring (13/16 X 5/8 X 3/32)
12	64767	1	Pump Body
13	17428	4	Soc. Hd. Cap Screw (1/4-20 UNC X 3-1/2" Lg.)
14	305494	1	Decal
15	61243	1	Reservoir
16	250463	1	90° Elbow Fitting
17	15457	1	90° Elbow Fitting

Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300889.

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Rev. 7	Date: 3 April 2001



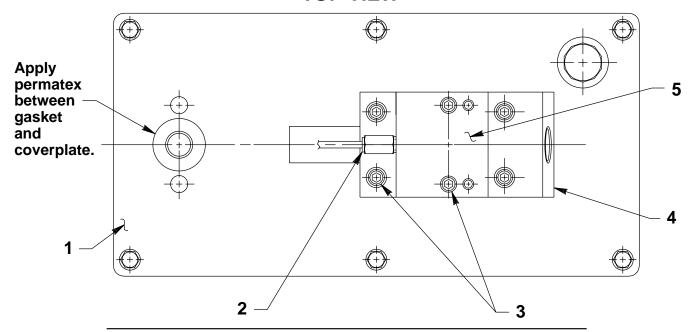
1	Item No.	Part No.	No. Reg'd	Description	
2 250463 2 90° Elbow Fitting 3 14281 1 Ft. Tubing (See schematic on Sheet 2 of 3 for approx. lengths.) 4 211060 6 Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.) 6 10623 1 Service Fitting Tee 7 250385 1 90° Elbow Fitting 8 250726 1 Straight Fitting 9 350485 1 Air Operated Valve 10 13864 1 90° Elbow Fitting 11 14538 1 Tee 12 11434 2 Cap Screw (10-24 UNC X 1/2 Lg.) 13 11089 2 Flat Washer (#10 bolt) 14 147266.75 Ft. Tubing 15 206553 .08 Ft Heat Shrink					
3 14281 1 Ft. Tubing (See schematic on Sheet 2 of 3 for approx. lengths.) 4 211060 6 Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.) 6 10623 1 Service Fitting Tee 7 250385 1 90° Elbow Fitting 8 250726 1 Straight Fitting 9 350485 1 Air Operated Valve 10 13864 1 90° Elbow Fitting 11 14538 1 Tee 12 11434 2 Cap Screw (10-24 UNC X 1/2 Lg.) 13 11089 2 Flat Washer (#10 bolt) 14 147266.75 Ft. Tubing 15 206553 .08 Ft Heat Shrink	1	250804	2	90° Elbow Fitting	
4 211060 6 Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.) 6 10623 1 Service Fitting Tee 7 250385 1 90° Elbow Fitting 8 250726 1 Straight Fitting 9 350485 1 Air Operated Valve 10 13864 1 90° Elbow Fitting 11 14538 1 Tee 12 11434 2 Cap Screw (10-24 UNC X 1/2 Lg.) 13 11089 2 Flat Washer (#10 bolt) 14 147266.75 Ft. Tubing 15 206553 .08 Ft Heat Shrink	2	250463	2	90° Elbow Fitting	
6 10623 1 Service Fitting Tee 7 250385 1 90° Elbow Fitting 8 250726 1 Straight Fitting 9 350485 1 Air Operated Valve 10 13864 1 90° Elbow Fitting 11 14538 1 Tee 12 11434 2 Cap Screw (10-24 UNC X 1/2 Lg.) 13 11089 2 Flat Washer (#10 bolt) 14 147266.75 Ft. Tubing 15 206553 .08 Ft Heat Shrink	3	14281	1 Ft.	Tubing (See schematic on Sheet 2 of 3 for approx. lengths.)	
7	4	211060	6	Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.)	
8	6	10623	1	Service Fitting Tee	
9	7	250385	1	90° Elbow Fitting	
10	8	250726	1	Straight Fitting	
11	9	350485	1	Air Operated Valve	
12	10	13864	1	90° Elbow Fitting	
13	11	14538	1	Tee	
14 14726 6.75 Ft. Tubing 15 206553 .08 Ft Heat Shrink	12	11434	2	Cap Screw (10-24 UNC X 1/2 Lg.)	
15 206553 .08 Ft Heat Shrink	13	11089	2	Flat Washer (#10 bolt)	
	14	14726	6.75 Ft	.Tubing	
16 9641 1 Pressure Switch Assembly (See Form No. 102910.)	15	206553	.08 Ft	Heat Shrink	
	16	9641	1	Pressure Switch Assembly (See Form No. 102910.)	

PARTS INCLUDED BUT NOT SHOWN

211060 4 Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.; For pump mounting purposes only)

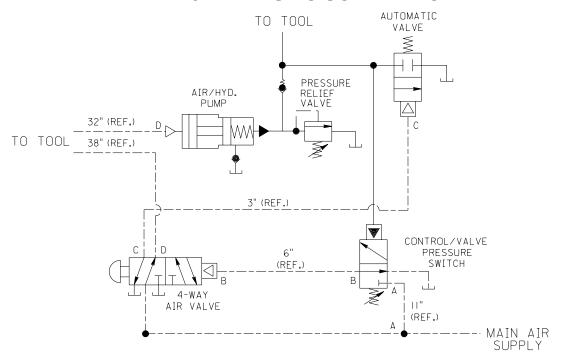
Parts List Form No. 101658

BASIC PUMP ASSEMBLY TOP VIEW



Iten	n Part	No.	
No.	No.	Req'd	Description
1	420965BK2	1	Cover Plate
2	250725	1	Straight Fitting
3	11151	6	Cap Screw (10-24 UNC X 1-1/4" Lg.; Torque to 50/60 in. lbs.)
4	58685	1	Release Valve Body
5	421239	1	Release Valve

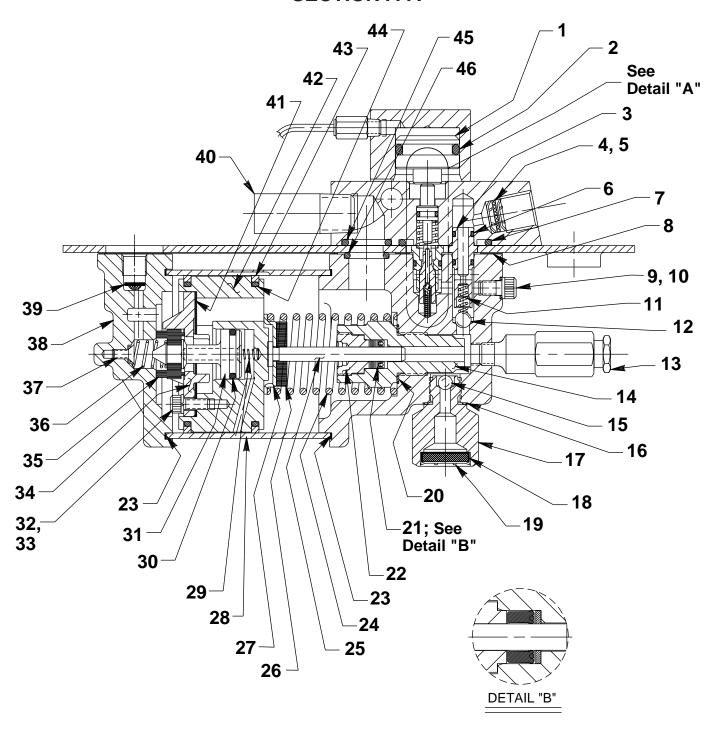
AIR/HYDRAULIC SCHEMATIC



 Sheet No.
 2 of 3

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BASIC PUMP ASSEMBLY SECTION A-A



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 OTC replacement parts!**

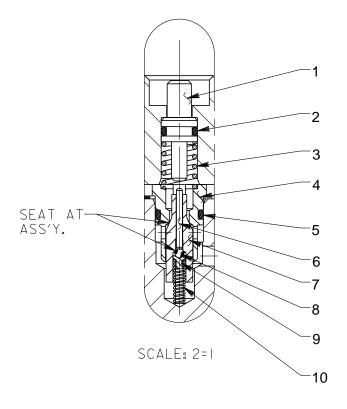
Additional questions can be directed to our Technical Services Department.

Parts List Form No. 101658

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	34757	1	Release Piston	23	*17429	2	Backup Ring
2	*208144	1	O-ring	24	*13938	1	Compression Spring
			(1-1/8" X 7/8 X 1/8; Apply lubricant)	25	28226	1	Piston
3	34378	1	Check Valve Body	26	203143	1	Bumper
4	*250638	1	Screen	27	210994	1	Spring Guide
5	*11088	2	Retaining Ring	28	37434	1	Air Cylinder (NOTE: Locate groove
6	*12522	2	O-ring (3/8 X 1/4 X 1/16; Urethane)			-	on upper half (top) of pump with
7	*11841	1	O-ring (1-5/8" X 1-3/8" X 1/8)				chamfered tube end towards rear
8	*351021	1	Gasket				head as shown.)
9	*10442	1	Copper Washer (3/8 X 1/4 X 1/32)	29	*12692	1	Compression Spring
10	10002	1	Soc. Hd. Cap Screw	30	*211052	1	O-ring (.900 X .706 X .097)
		•	(1/4-20 X 3/8 Lg.;	31	305475	1	Exhaust Valve Stem
			Torque to 90/110 in. lbs.)	32	*10241	3	Lockwasher (#10)
11	*10445	1	Compression Spring	33	211054	3	Soc. Hd. Cap Screw
12	*10423	1	Steel Ball (9/32 dia.)				(#10-24 X 1/2 Lg.;
13	21278	1	Relief Valve Assembly				Torque to 50/55 in. lbs.)
		•	(Set at 10,000/10,700 PSI; Apply	34	33822	1	End Piston Plate
			loctite 592 [Power Team #905516] or	35	*28183	1	Piston Poppet
			equiv. & torque to 150/170 in. lbs.)	36	*205679	i	Compression Spring
14	45278	1	Piston Cylinder	37	*205674	i	Flat Hd. Screw (#8-32 X 3/8 Lg.;
1-7	40270	'	(Torque to 90/100 ft. lbs. oiled.)	01	200014		Torque to 12/18 in. lbs.)
15	*10375	1	Steel Ball (1/4 dia.)	38	37468	1	Rear Head
16	*10261	i	Soft Copper Washer	39	*216296	i	Screen
17	308893	i	Filter Adapter	40	250461	i	Muffler
. ,	300033	'	(Torque to 40/50 ft. lbs. oiled.)	41	*28239	i	Gasket
18	214578	1	Filter	42	52390	i	Piston Body
19	214586	1	Retaining Ring (Internal)	43	*14265	2	Piston Seal
20	*10263	1	Soft Copper Washer	44	*251835	2	O-ring (2-1/2" X 2-5/16" X 3/32)
21	*13934	1	U-cup & Backup	45	*10276	1	O-ring (1" X 3/4 X 1/8)
22	*304295	1	Retainer (Note: See "INSTRUCTIONS	46	*10270	1	O-ring (3/4 X 9/16 X 3/32)
22	304293	'	FOR RETAINER REPLACEMENT" on	40	10272	'	
			back sheet 3 of 3.)				Note: Shaded areas
			Dont would are recorded	a 20		(+)	reflect last revision(s

Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300889.

Note: Shaded areas reflect last revision(s) made to this form.



DETAIL "A"

Item No.	Part No.	No. Req'd	Description
1	28227	1	Release Valve
2	*10266	1	O-ring (3/8 X 1/4 X 1/16)
3	*13944	1	Compression Spring
4	34377	1	Retainer Poppet
5	*15279	1	O-ring (1/2 X 3/8 X 1/16)
6	13937	1	Dowel Pin (NOTE: Place
7	20037	1	,
•		•	
-		•	
		1	
7 8 9 10	29037 *14443 209736 13959	1 1 1	tapered end toward ball.) Release Valve Poppet Steel Ball Ball Retainer Compression Spring

Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300889.

Sheet No.	3 of 3			
Rev. 7	Date: 3 April 2001			

INSTRUCTIONS FOR RETAINER REPLACEMENT

Your pump's retainer is locked into place by one of the two following methods. Determine which <u>method</u> was used on your pump's retainer, then follow the appropriate steps to remove the old and install and stake the new.

Method 1 - Retainer shows no sign of stake marks

- 1. This retainer has been locked in place with a Loctite product. To replace it, a moderate amount of heat needs to be applied to the cylinder nut (in the area of the retainer) to soften the existing Loctite allowing it to be removed.
- 2. Install the new retainer into the cylinder nut and torque to 80/100 in. lbs. **Note: Do not use a Loctite product** this time but stake the new retainer in place according to instructions in Step 3.
- 3. To lock retainer into place, use a center punch positioned in the seam between the retainer and the cylinder nut and stake the new retainer in two places approximately 180° apart.

Method 2 - Retainer has two stake marks in the seam between the retainer and the cylinder nut

- 1. For replacement of this retainer, the stake marks must be removed. Using a 1/8" or larger diameter drill bit, remove the existing stakes by drilling a short distance into the stake marks. Remove the retainer.
- 2. Install the new retainer into the cylinder nut and torque to 80/100 in. lbs.
- 3. To lock retainer into place, use a center punch positioned in the seam between the retainer and the cylinder nut and stake the new retainer in two places approximately 180° apart.

NOTE: Do not stake in the old stake marks.

