

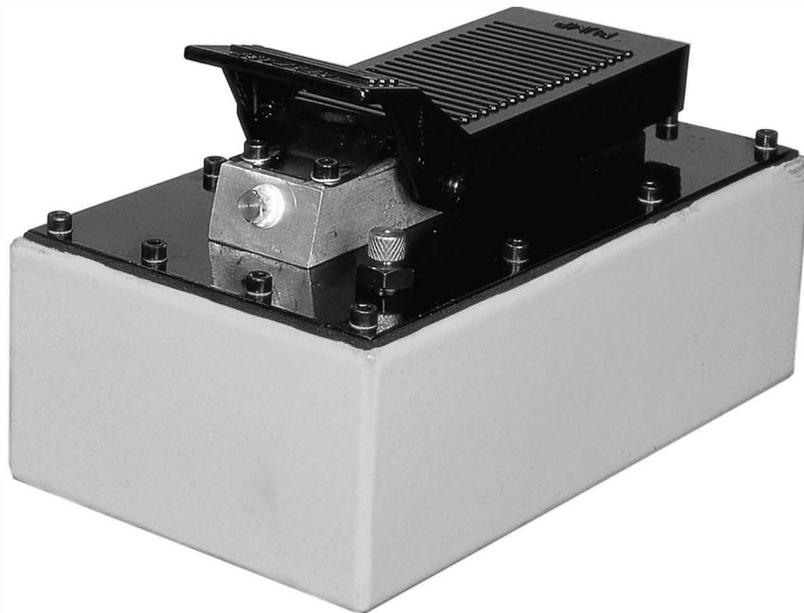


**YELLOW  
JACKET**



# Operator's Manual

**10877**



## Metal Reservoir Air Hydraulic Pump



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**WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects and/or other reproductive harm. Cancer and Reproductive Harm- [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

## SPECIFICATIONS

Model	Input Air Pressure (psi)	Input Port Threads (NPT)	Output Port Threads (NPT)	Oil Delivery (cu.in. /min)		Internal Relief Setting (psi)	Reservoir Capacity	Usable Oil Capacity (cu. in.)	Weight (lbs.)	LxWxH
				0 psi	10,000 psi					
10875	90-140	1/4"-18	3/8"-18	24.4	7.3	10,000	5 Quarts	185	24	12.5x7x7.5
10876	90-140	1/4"-18	3/8"-18	24.4	7.3	10,000	1/2 Gallon	98	19	10.3x5.3x7.3
10877	90-140	1/4"-18	3/8"-18	24.4	7.3	10,000	5 Quarts	185	28	12.5x7x7.5

## DESCRIPTION

This Air/Hydraulic Pump supplies hydraulic fluid pressure to selected tools. It consists of an in-line air and hydraulic cylinder. The ratio of hydraulic fluid pressure generated compared to supply air pressure is 100:1.

In other words, 100 PSI out for every 1 PSI in – 100 PSI input air pressure equals 10,000 PSI output pressure.

Depressing the RELEASE pedal causes a decrease in pressure and pressing the PUMP end of the pedal provides fluid pressure.

## WARNING

**The air/hydraulic pump is capable of generating fluid pressure up to 10,000 PSI. Make certain the tool in use is held securely and is in proper working condition. DO NOT continue to operate the pump once the work is Completed. Failure to comply with these instructions Could result in personal injury or damage to the equipment.**

## BEFORE USE

To prevent oil leak during shipment, a metal knob is installed and tightened to ensure the best sealing function. Loosen it counterclockwise before use.

**Note:** Apply Teflon tape to both 3/8" NPT ends of the hydraulic hose. Attach Male coupler to the swivel end of hose and attach the non-swivel end of the hose to the hydraulic pump.

**WARNING: DO NOT USE ANY HARDENING PIPE THREAD COMPOUND ON THE ENDS OF ANY HYDRAULIC TOOL FITTINGS AND/OR CONNECTIONS. USE OF ANY PIPE THREAD HARDENING COMPOUND MAY LEAD TO FAILURE OF HYDRAULIC TOOLS AND WILL VOID WARRANTY**

## OPERATION

Operation of the unit is as follows:

1. Connect the hose of the Air/Hydraulic Pump to the hydraulic coupling on the selected tool.
2. Connect the air supply line to the Air/Hydraulic Pump. Air supply should be 5-10 CFM at 100 PSI to obtain proper operating characteristics. In addition, the air line should be equipped with an airline filter.
3. Stepping on the PUMP end of the pedal engages the pump, producing the force necessary to run the tool.
4. Depressing the RELEASE end of the pump pedal will release the pressure.

## MAINTENANCE

1. Inspect hoses and connections daily.
2. Tighten connections as needed. Use non-hardening pipe thread compound when servicing connections.
3. Use only good quality hydraulic fluid. We recommend AW- 32 WEIGHT OIL.

### When not in use or during storage:

- a. Depressurize and disconnect hydraulic hoses from application.
- b. Wipe clean, thoroughly.
- c. Store in clean, dry environment. Avoid temperature extremes.
- d. Shield pump with a protective cover.

### Adding Hydraulic Fluid

1. Depressurize and disconnect hydraulic hose from application.
2. With pump in its upright, horizontal position, remove the oil filler plug located on the top plate of the reservoir.
3. Use a small funnel to fill reservoir to within 3/4" (19mm) of the opening.

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**Note:** Use only good quality hydraulic jack oil.

**Never** use brake fluid, transmission fluid, turbine oil, motor oil, alcohol, glycerin etc. Use of other than good quality hydraulic oil will void warranty and damage the pump, hose, and application.

4. Wipe up any spilled fluid and reinstall the oil filler plug.

### Changing Hydraulic Fluid

1. For best results, change fluid once a year.
2. Repeat # 2 above, then pour used fluid into a sealable container.
3. Dispose of fluid in accordance with local regulations.
4. Fill with a good quality hydraulic jack oil as recommended above. Reinstall vented oil filler plug.

### Lubrication

Use a light machine oil to lubricate pivot points, hinges etc.

**Note: Never operate pump with release valve closed and disconnected from application. If operated in this condition, the hose and connections become pressurized. This increases burst hazard. Damage may occur to pump and its components.**

## Parts List of Air/Hydraulic Pump

Item No.	Description	Q'TY	Item No.	Description	Q'TY	Item No.	Description	Q'TY
1	oil reservoir	1	31	rear cover	1	61	screw	12
2	oil filter	1	32	O-ring	1	62	O-ring	2
3	oil filter	1	33	O-ring	1	63	oil filler plug	1
4	valve block	1	34	bolt	1	64	oil filler plug	1
5	screw	1	35	fixing base	1	65	screw	1
6	spring	1	36	O-ring	2	66	oil filter	1
7	ball seat	1	37	O-ring	1	67	O-ring	1
8	steel ball	1	38	O-ring	1	68	O-ring	1
9	safety valve	1	39	spring	1	69	exhaust muffler	1
10	bolt	8	40	ball seat	1	70	fixing base	1
11	copper washer	1	41	steel ball	1	71	bolt	4
12	pump cylinder	1	42	O-ring	1	72	spring	1
13	Y-seal	1	43	nylon gasket	1	73	snap ring	2
14	nylon gasket	1	44	release valve	1	74	shaft	1
15	copper washer	1	45	ball seat	1	75	foot pedal	1
16	nut	1	46	spring	1	76	O-ring	1
17	spring	1	47	O-ring	1	77	screw	1
18	O-ring	1	48	release rod	1	78	air valve	1
19	air pump housing	1	49	O-ring	4	79	spring	1
20	washer	1	50	steel ball	1	80	seal	1
21	pump plunger	1	51	spring	1	81	bolt	2
22	air piston base	1	52	steel ball	1	82	air valve rod	1
23	O-ring	2	53	spring	1	83	O-ring	1
24	air shuttle valve	1	54	O-ring	1	84	O-ring	1
25	O-ring	2	55	nylon gasket	1	85	seitch coupler	1
26	piston	1	56	coupler	1			
27	bolt	3	57	nylon gasket	1			
28	shuttle valve seal	1	58	O-ring	1			
29	O-ring	2	59	seal	1			
30	O-ring	1	60	cover	1			

