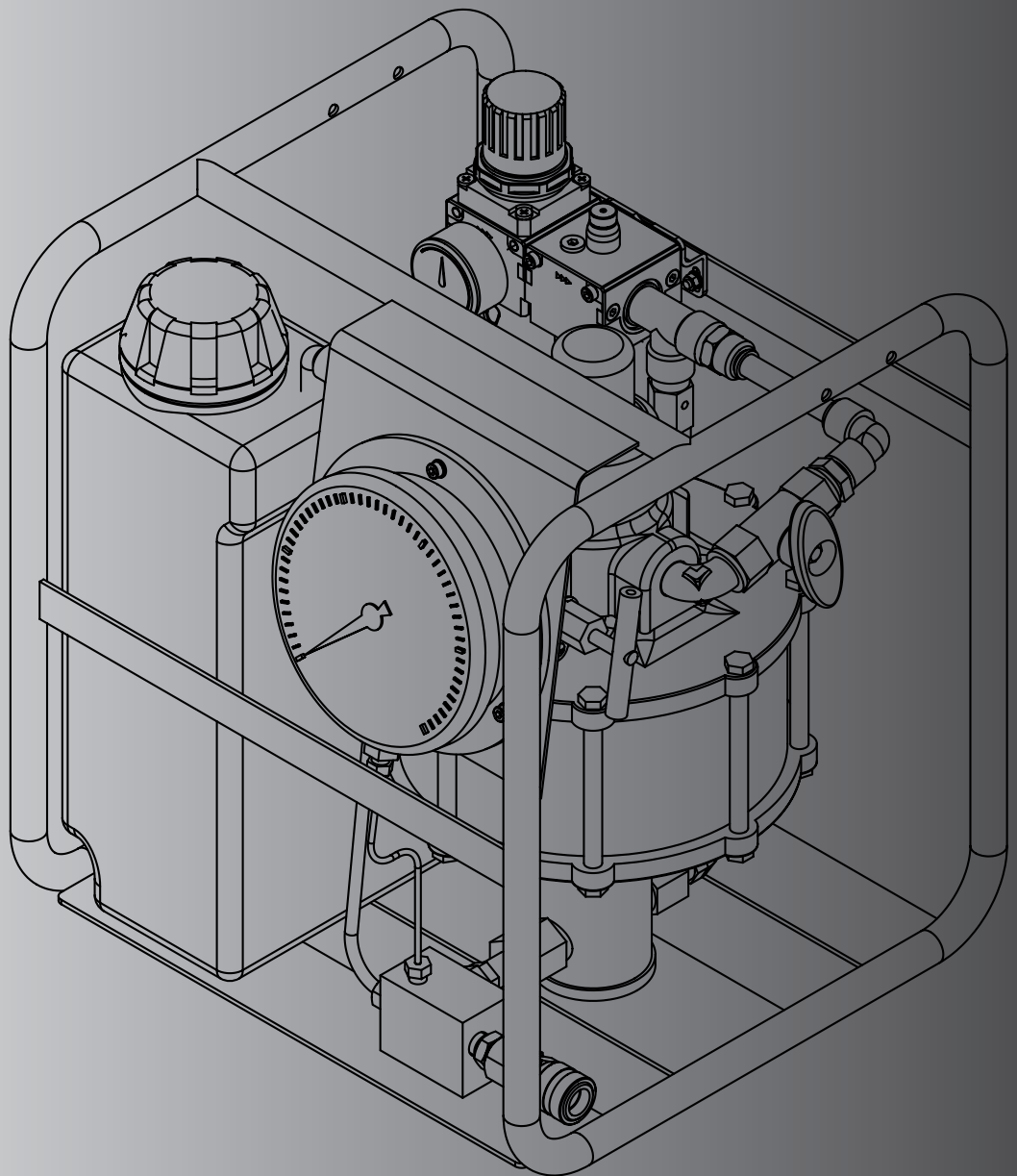




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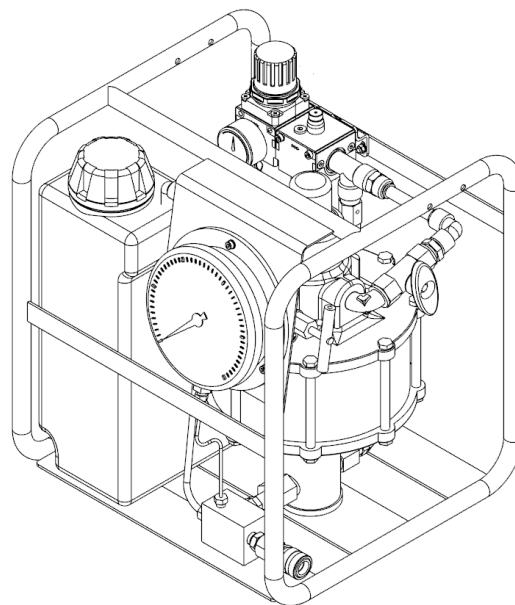
Enerpac Air Pump 0-25,000 psi

D3001A0115AA



ENERPAC AIR PUMP 0-25,000 psi

D3001A0115AA



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1.0 INTRODUCTION

Overview

The Hydraulic Pump Unit is compact, robust, and designed for simplicity and speed of operation. The unit measures 380mm x 400mm x 440mm high, and weighs approx. 27 kg (with oil). It comprises of a reciprocating piston pump mounted in a tubular frame with drip tray, containing an oil reservoir and all air/oil valves and fittings.

Delivery Instructions

Upon delivery all components must be inspected for damage incurred during shipping. If damage is found the carrier should be notified at once. Shipping damage is not covered by the Enerpac warranty.

Warranty

- Enerpac guarantees the product only for the purpose for which is intended.
- Refer to the Enerpac Global Warranty document for terms and conditions of the product warranty.

Any misuse or alteration invalidates the warranty.

- Observe all instructions as communicated in this manual.
- Modification to any part of the equipment described in this manual should not be attempted.
- When replacement parts are needed, use only genuine Enerpac replacement parts.

Replacement Parts

Refer to the Repair Parts Sheet (RPS), available at www.enerpac.com, to order replacement parts when required.

Conformance to National and International Standards



Enerpac declares that the product(s) have been tested and conforms to applicable standards and the product(s) are compatible to all EU and UK Requirements.

Copies of the EU Declaration as well as the UK Self-Declaration are enclosed with each shipment.

2.0 SAFETY

Read all instructions carefully. Follow all recommended safety precautions to avoid personal injury as well as damage to the product and / or damage to other property. Enerpac cannot be responsible for any damage or injury from unsafe use, lack of maintenance, or incorrect operation. Do not remove warning labels, tags, or decals. In the event that any questions or concerns arise, contact Enerpac or a local Enerpac distributor for clarification.

Save these instructions for future use.

If you have never been trained on high-pressure hydraulic safety, consult your distributor or service center for information about Enerpac Hydraulic Safety Courses.

This manual follows a system of safety alert symbols, signals, words, and safety messages to warn the user of specific hazards. Failure to comply with these warnings could result in death or serious personal injury, as well as damage to the equipment or other property.



The Safety Alert Symbol appears throughout this manual. It is used to alert you to potential physical injury hazards. Pay close attention to Safety Alert Symbols and obey all safety messages that follow this symbol to avoid the possibility of death or serious injury.

Safety Alert Symbols are used in conjunction with certain Signal Words that call attention to safety messages or property damage messages and designate a degree or level of hazard seriousness. The Signal Words used in this manual are DANGER, WARNING, CAUTION, and NOTICE.

DANGER Indicates a hazardous situation that, if not avoided, will result in death or serious personal injury.

WARNING Indicates a hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION Indicates a hazardous situation that, if not avoided, could result in minor or moderate personal injury.

NOTICE Indicates information considered important, but not hazard related (e.g. messages related to property damage). Please note that the Safety Alert Symbol will not be used with the signal word.

2.1 Safety Precautions

WARNING

Failure to observe and comply with the following precautions could result in death or serious personal injury. Property damage could also occur.

- Read and completely understand the safety precautions and instructions in this manual before operating the Tensioner Pump or preparing a unit for use. Always follow all safety precautions and instructions, including those that are contained within the procedures of this manual.
- Be sure the operator has completed safety induction training, specific to the work surroundings. The operator should be thoroughly familiar with the controls and the proper use of the tool.
- Wear personal protective gear when operating hydraulic equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hats, gloves or hearing protection (used as appropriate) will reduce personal injuries.
- To minimize risk of personal injury keep hands and feet away from the tool and workpiece during operation.
- Do not overload equipment.
- Never apply pressure to a damaged hose, doing so may cause it to rupture.
- Immediately replace worn or damaged parts. Use only genuine Enerpac parts from approved distributors or service centers. Equalizer parts have been engineered and manufactured to be fit-for-purpose.
- Do not handle pressurized hoses or couplings; escaping oil under pressure can penetrate the skin, causing serious injury. Seek medical attention immediately if oil penetration is suspected.
- Only pressurize complete and fully connected hydraulic systems. Do not pressurize systems that contain unconnected couplers.
- Hydraulic circuit must be at zero pressure before couplings are disconnected.
- Never leave the system unattended when under pressure. When the system is under pressure DO NOT STAND IN LINE with the direction of force of the tensioners. This is a danger area. Keep this area clear of personnel at all times when the system is under pressure.
- Site pump on a secure, flat, level surface. Rope off working area and place warning signs.
- Do not tamper with air pressure relief safety valve on pump.
- Do not remove gauge covers when fitted.
- Check the date of the calibration certification. If the recalibration date has passed, the gauge must be recalibrate.
- If air supply is interrupted, turn off air stop valve on pump.

CAUTION

Failure to observe and comply with the following precautions could result in minor or moderate personal injury. Property damage could also occur.

- Ensure components are protected from external sources of damage, such as excessive heat, flame, moving machine parts, sharp edges and corrosive chemicals.
- Take care to avoid sharp bends and kinks in hydraulic hoses. Bends and kinks can cause severe back-up pressure and cause hose failure. Protect hoses from dropped objects; a sharp impact may cause internal damage to hose wire strands. Protect hoses from crush risks, such as heavy objects or vehicles; crush damage can cause hose failure.
- Do not lift hydraulic equipment by the hoses or couplers. Use only the designated carrying handles.
- Lubricate tools as directed in this manual prior to operation. Use only approved lubricants of high quality, following the lubricant manufacturers instructions.

NOTICE

- Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact the Enerpac Authorized Service Centre in your area.
- Rope off working area and place warning signs.
- To help ensure proper operation and best performance, use of Enerpac oil is strongly recommended.

3.0 FEATURES AND COMPONENTS

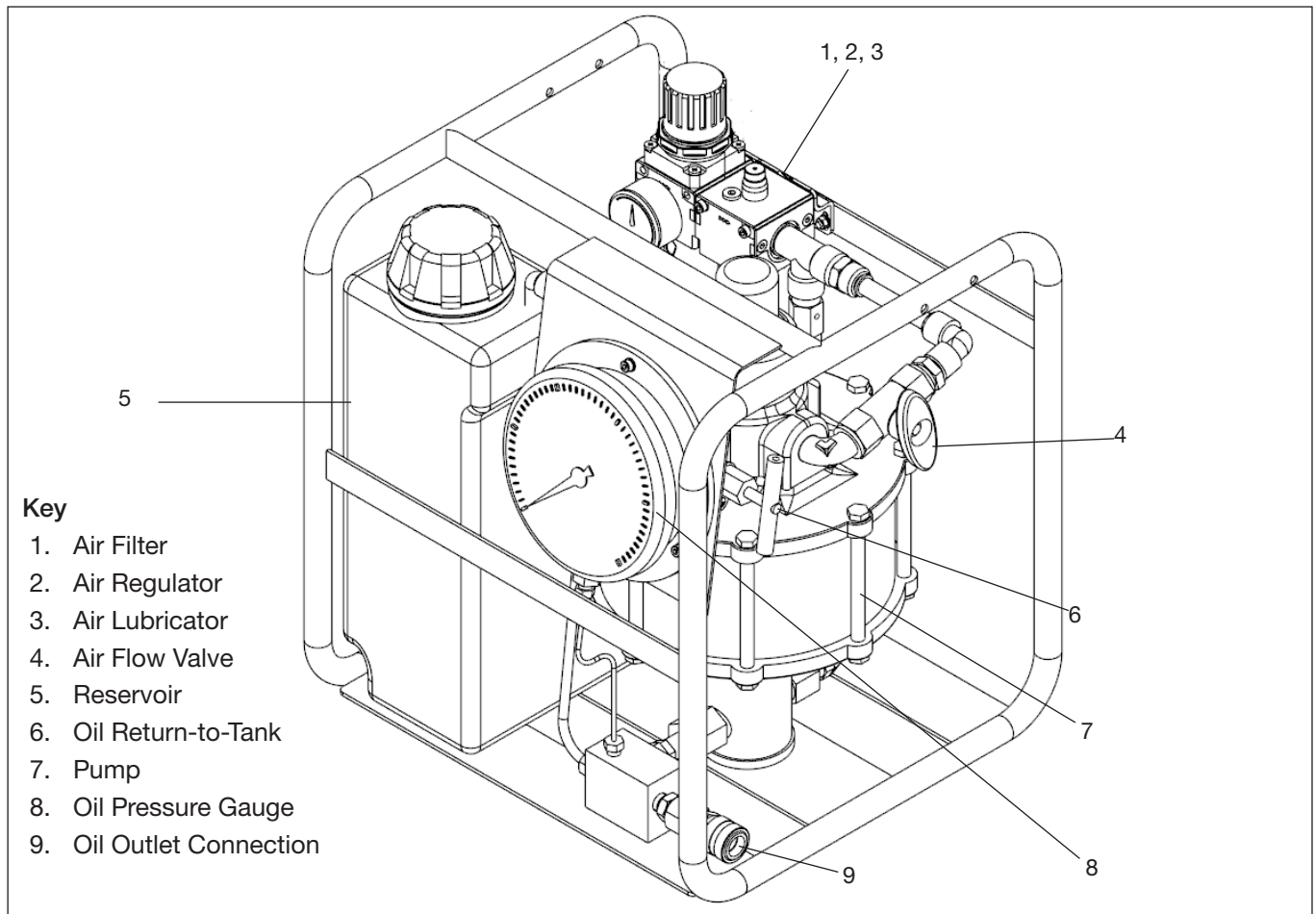


Figure 1: Major features and components of Enerpac Air Pump

The Tensioner Pump consists of the following components:

Air Filter

Ensures that a clean, dry air supply is maintained. Any water is collected in the bowl and can be drained off by turning the filter drain screw clockwise.

Air Regulator

Complete with its own pressure gauge, regulates the air pressure to the pump. To increase air pressure, screw the air regulator into its body.

Air Lubricator

Lubricates air supply and should be set to give one drop for every 40 strokes of the pump, by turning adjusting the red knob. Top up when required using a lubricating oil of ISO Viscosity Grade 10.

Air Flow Valve

Controls air supply to pump and gives variable pump speed control.

Reservoir

Capacity 8 litres, has coarse filter at filler neck and fine filter at outlet pipe. Level indication tube should be at least half full. Top up when required using an anti-wear hydraulic oil of ISO Viscosity Grade 22-68. Appropriate viscosity grades of oils shall be selected dependant on operating temperatures.

Oil Return-to-tank Valve

When open allows oil to flow back to reservoir. To open, turn handle anti-clockwise.

Pump

Piston type unit. Full breakdown details and spare seal kits available on request.

Oil Pressure Gauge

0-1700 Bar (0-25,000 psi). Accuracy should be checked and calibrated periodically.

Oil Outlet Connection

Quick release type, which is self-sealing to prevent dirt penetration and oil drips.

Air Inlet Connection (not shown)

Standard 1/2 inch, reduced to 1/4 inch BSPT, via an adaptor.

NOTICE The pump is shipped from the factory without hydraulic oil. Add hydraulic oil before operating the pump! Use ISO Viscosity Grade 22 Minimum-68 Maximum.

4.0 AIR CONSUMPTION SPECIFICATION

Air consumption is approximately 28 CFM (Cubic Feet per Minute) of free air at 100 psi, for an oil discharge pressure of 25000 psi. At lower air pressures and higher hydraulic pressures, air consumption will be reduced proportionally to the flow rates indicated.

Approximate Air to Hydraulic Pressure Ratios – Static Conditions

AIR PRESSURE (PSI)	10	20	30	40	50	60	70	80	90	100
HYD. PRESSURE (x1000 PSI)	3	6	9.5	12.6	16	19.1	22.3	25.6	29	32.3

AIR PRESSURE (BAR)	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.0
HYD. PRESSURE (BAR)	2.7	414	655	869	1103	1317	1538	1766	2000	2228

AIR PRESSURE (MPa)	0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.7
HYD. PRESSURE (MPa)	20.7	41.1	65.5	86.9	110.3	131.7	153.8	176.6	200	222.8

Approximate Air to Hydraulic Pressure Ratios – Static Conditions

CIPM (Cubic Inch per Minute) and CCMPM (Cubic Centimetres per minute)

OIL DISCHARGE PRESSURE	AIR VENT PRESSURE		
	60 PSI	80 PSI	100 PSI
6000 PSI	43CIPM	51	54
9000 PSI	38	46	49
12500 PSI	31	40	44
15000 PSI	27	37	40
20000 PSI	0	30	34
25000 PSI	0	10	28

OIL DISCHARGE PRESSURE	AIR VENT PRESSURE		
	4Bar	5.5Bar	7Bar
414 Bar	705CCMPM	836	885
620 Bar	623	754	803
862 Bar	508	656	721
1034 Bar	443	606	656
1379 Bar	0	492	557
1724 Bar	0	164	459

OIL DISCHARGE PRESSURE	AIR VENT PRESSURE		
	400000 Pa	550000 Pa	700000 Pa
41.4 MPa	705CCMPM	836	885
62.0 MPa	623	754	803
86.2 MPa	508	656	721
103.4 MPa	443	606	656
137.9 MPa	0	492	557
172.4 MPa	0	164	459

5.0 OPERATION

CAUTION Before connecting the DRY AIR SUPPLY, ensure that:

1. The on/off (air flow) valve is closed. (i.e. handle in vertical position)
2. The Oil Return-To-Tank valve is open. Connecting the air supply with the air flow valve open and Oil return valve closed will immediately start the pump and could lead to excessive system pressures, especially if the pump has not been regulated as recommended in section 3, Pump Operation – Setting Stall Pressure.

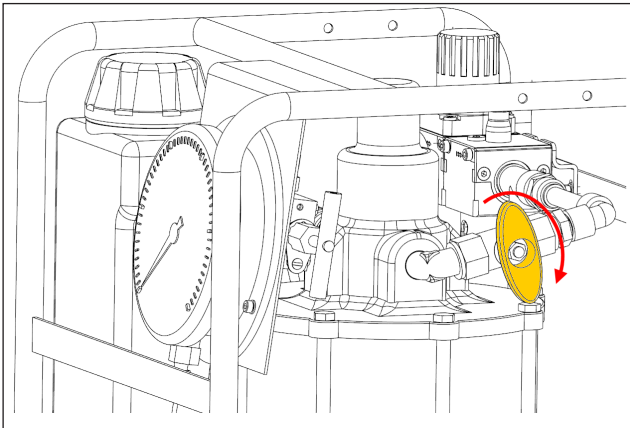


Figure 3: Connecting Dry Air Supply

- A. CLOSE on/off (air flow) valve in VERTICAL position.
- B. Open return to tank valve

NOTICE OBSERVE PUMP SAFETY AND OPERATING INSTRUCTIONS BEFORE OPERATING. It is STRONGLY recommended that the pump be regulated to stall at the MAXIMUM pressure required to operate the hydraulic tools.

5.1 Setting Stall Pressure (with the Air Regulator)

To regulate the pump, proceed as follows:

1. Check Oil level in reservoir and fill if necessary.
2. Fit a blanked off nipple / coupling or a self-connected interconnecting pipe to the Pump Outlet Coupling. (NEVER pressurise an unconnected CEJN Connection).
3. Open Oil return-to-tank valve.
4. CLOSE the on/off (Air Flow) valve in to the VERTICAL position.
5. Connect main AIR SUPPLY to pump.
6. Check that the air gauge is giving a reading.

7. OPEN the on/off (Air Flow) valve in to the HORIZONTAL position and allow the pump to operate for approximately 1 minute or until no air bubbles can be seen in the system.
8. Turn air pressure regulator screw to give zero pressure reading on air pressure gauge (pump ceases to operate when air pressure reaches zero).
9. Close Oil return-to-tank valve.
10. Screw in air pressure regulator until the desired operating pressure is indicated on the oil pressure gauge.
11. CLOSE on/off (Air Flow) valve in to the VERTICAL position.
12. SLOWLY open Oil return-to tank valve, releasing pressure. The pump is now set to stall at the desired operating pressure and is ready to be coupled to the hydraulic harness.

WARNING WITH ONLY A BLANKED OFF NIPPLE / COUPLING FITTED TO THE PUMP OUTLET THE OIL PRESSURE WILL BUILD UP VERY QUICKLY. ENSURE THAT AIR PRESSURE IS REGULATED (STALL PRESSURE SET) TO A LEVEL THAT WILL NOT ALLOW OVER PRESSURISATION OF THE SYSTEM.

5.2 Pump Operation

1. PRESSURISE the system by closing the Oil return-to-tank valve and OPENING the on/off (air flow) valve in to the HORIZONTAL position.

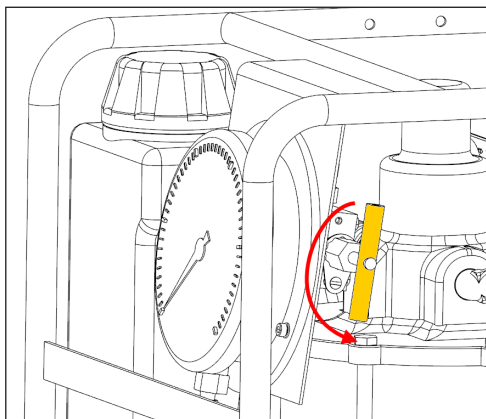
WARNING SHOULD THE AIR SUPPLY FAIL AT ANY POINT DURING PRESSURISATION CLOSE THE ON/OFF (AIR FLOW) VALVE AND OPEN THE RETURN TO TANK VALVE TO RELEASE ANY ACCUMULATED PRESSURE. DO NOT ATTEMPT TO PRESSURISE THE SYSTEM UNTIL THE AIR SUPPLY HAS BEEN RESTORED.

2. DE-PRESSURISE the system by CLOSING on/off (air flow) valve in to the VERTICAL position and SLOWLY opening return-to-tank valve.

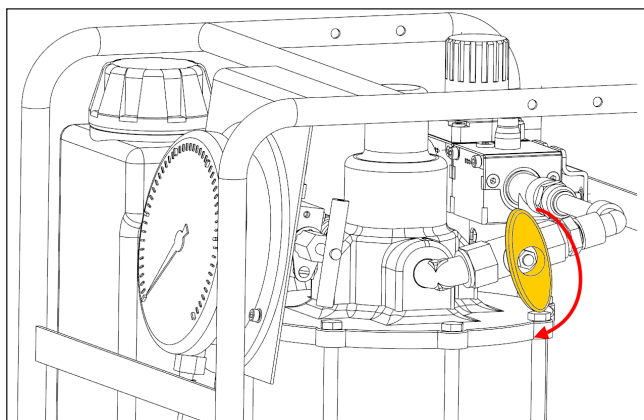
5.3 Pump Disconnection

1. Ensure system has been De-pressurised, by CLOSING the on/off (air flow) valve in to the VERTICAL position and SLOWLY opening return-to-tank valve.
2. Disconnect air supply.
3. Ensure Oil return to tank valve is open.
4. OPEN the on/off (air flow) valve in to the HORIZONTAL position.
5. Drain off any Oil from the air filter.
6. Store as detailed in section 6, Storage.

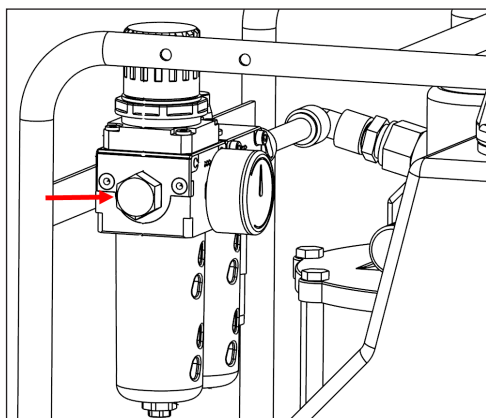
5.4 Setting the Pump Stall Pressure (Air Regulator)



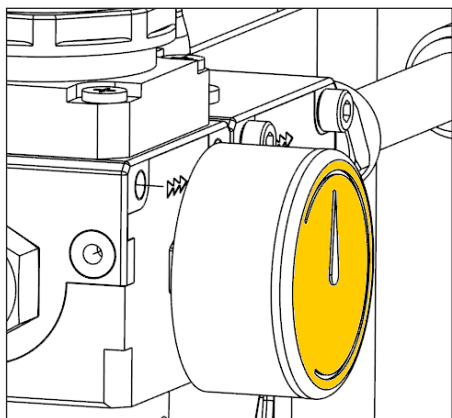
1. Open return to tank valve.



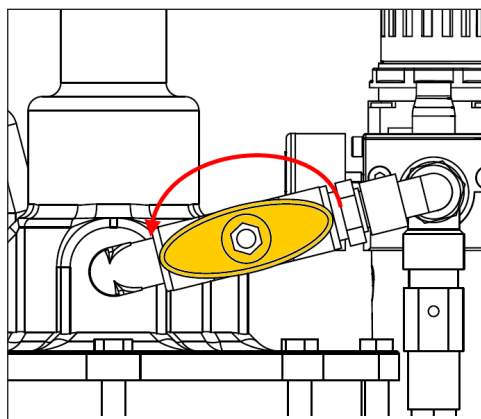
2. CLOSE on/off (air flow) valve in to the VERTICAL position.



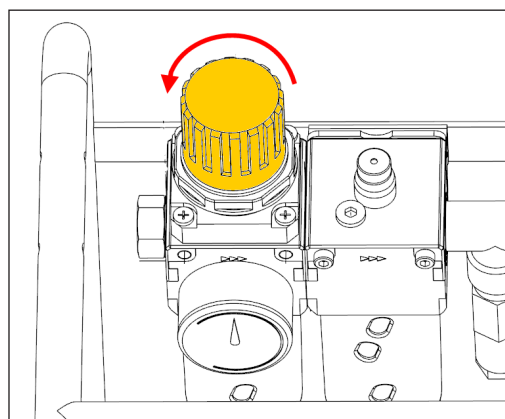
3. Connect DRY AIR SUPPLY



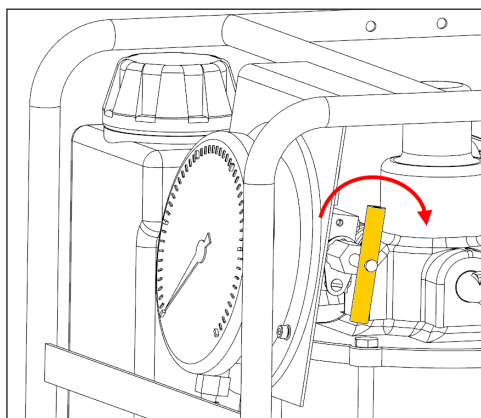
4. Check a reading is given on pressure gauge.



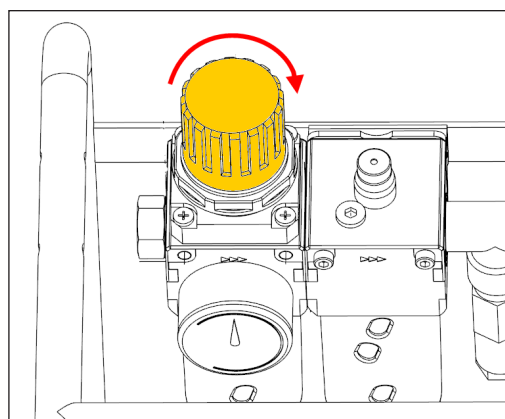
5. Open return to tank valve. OPEN the on/off (air flow) valve in to the HORIZONTAL position, allow pump to operate for approximately one minute until air has been removed from system



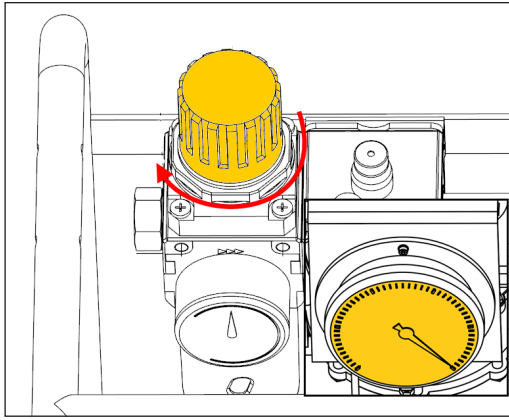
6. Adjust air regulator valve to give an air pressure gauge reading of zero –pump stops operating.



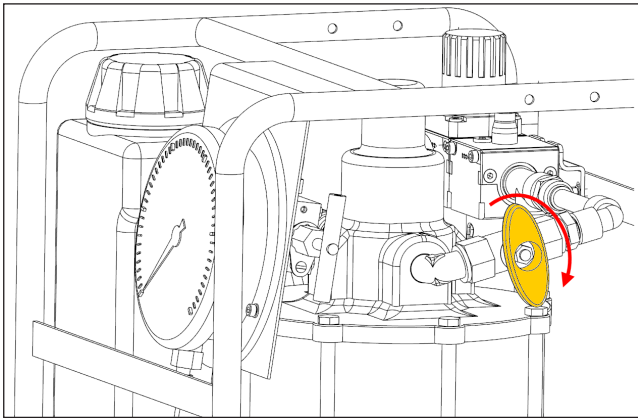
7. Close the return to tank valve.



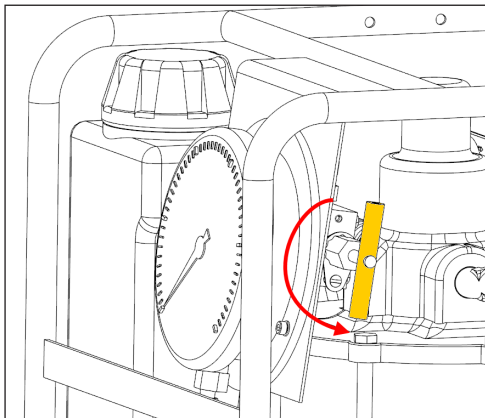
8. Open air regulator valve so that pump operation starts.



9. Adjust air regulator valve until the required stall pressure on "high pressure" gauge is reached.



10. CLOSE the on/off (air flow) valve in to the VERTICAL position



11. SLOWLY open the return to tank valve

6.0 SERVICING THE HYDRAULIC PUMP UNIT

Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact the Enerpac Authorized Service Centre in your area.

7.0 SERVICING INSTRUCTIONS

Refer to the RPS for Enerpac Air Pump D3001A0115AA for part numbers {item #} and cross section {figure #} of the pump.

7.1 To Disassemble the Motor

1. Remove the eight 5/16" bolts assemblies {items 1, 19, 22, 24; figure 5} that clamp the Air Cylinder {item 3; figure 5} between the head Casting {item 12; figure 5} and the Air Cylinder End {item 2; figure 5}. Remove the Head by tapping on a fitting screwed into either the "AIR IN" or "AIR OUT" ports with a soft hammer.
2. Remove the Retaining Ring {item 21; figure 5} from the bottom of the Air Piston {item 4; figure 5} and remove the Hydraulic Piston. The Pilot Valve Assembly {item 13; figure 5} may then be pushed out through the bottom of the Air Piston.
3. Remove the Retaining Ring {Item 18; figure 5} from the Head assembly. Remove the Bearing Assembly {item 7; figure 5} by lifting or prying it out with a hammer handle or similar tool. The Air Piston Actuating Valve, (part of item 9; figure 5, Valve Assembly) may also be removed at this time. The Bearing Assembly has a moulded rubber seat and should be replaced if worn or damaged. The "O" Ring {item 20; figure 5} in the Bearing Assembly, the "O" Ring {item 16; figure 5} in the upper part of the Air Piston Actuating Valve, and the "O" Ring * on the Pilot Valve Assembly Head should be replaced as a routing matter while the pump is disassembled as they are especially important for maximum performance.
4. The Head has a Rubber Bumper {item 15; figure 5} inserted in the upper portion of the body. This acts as an air seal and also a cushion for the Air Piston Actuating Valve. If worn or damaged it should be replaced

NOTICE When worn or damaged the Air Piston Actuating Valve and the Sleeve in which it operates are supplied as a Valve Assembly, {item 9; figure 5}. The sleeve may be removed from the Head Casting by means of an internal puller engaging the slots in the sleeve. Install a new set of "O" Rings {included as part of recommended seals spare kit D3001A0100SK} (4 required and included with Valve Assembly when ordering as a replacement part). Also coat the "O" Rings and the Sleeve O.D. with Petroleum Jelly or other suitable lubricant to avoid possibility of damage to the "O" Rings when installing the new Sleeve.

CAUTION DO NOT remove the sleeve from the Head Casting unless replacement is to be made. The Valve Assembly is precision ground and honed to very close tolerances and the Sleeve may be damaged when removed from the Head Casting.

7.2 Repairing The Pilot Valve Assembly

1. The Pilot Valve Assembly, {figure 7}, has an Air Check Assembly, {item 6; figure 7}, located in the lower end.
2. Remove the Retaining Ring, {item 1; figure 7}, which locks the Valve Seat, {item 7; figure 7}, in place and remove the Valve Seat with a spanner wrench.
3. The Air Check Assembly, and the Spring, {item 4; figure 7}, will then drop out and may be inspected for wear or damage. Replace the springs and worn parts as required.
4. When installing the Spring, {item 7; figure 8}, in the Air Check Assembly {figure 8}, the assembly should be screwed together until the component parts are drawn up just snugly with no travel in the bolt assembly and then the nut should be backed off ONE COMPLETE TURN for proper adjustment.
5. When the assembly adjustment has been done correctly, the valve will open approximately 1/32 inch when the bolt assembly is depressed to open the valve.

7.3 To Replace the Packing in the Hydraulic Cylinder

It is not necessary to dismantle the Air Motor. Proceed as follows.

1. Disconnect the Air Supply Line, remove the muffler if necessary and loosen the Set Screw in the Air Cylinder End {item 25; figure 5}.
2. Unscrew the Air Motor from the Hydraulic Cylinder. The Hydraulic Piston will be removed with the Air Motor, permitting convenient replacement of the packing in the Hydraulic Cylinder.
3. Replace the Backup Rings and the "O" Rings. The Parts List will give the size and kind of packing required, and when installing the new packings, be sure that the Backup Rings are properly in place. If they are damaged or not installed correctly, the "O" Ring will malfunction, with resultant loss of pressure and packing failure
4. When replacing the Air Motor, install a new Gasket {item 9; figure 6} and see that the Hydraulic Piston is in proper alignment before screwing the Air Motor down into position. Tighten the Air Motor securely and also the Set Screw {item 25; figure 5} in the Air Cylinder End.

NOTICE Models with Isolator Attachment or "V" Ring packing in the Hydraulic Cylinder will require removal of the Isolator or the Adaptor on the "V" Ring packed cylinders to replace packings.

7.4 The Hydraulic Piston

This has a Rubber Bumper, {item 16; figure 6}, in the Head. If replacement is required remove capscrew and install new Rubber. Apply "LOCTITE" sealant to the capscrew threads when replacing and tighten securely, but not to exceed five foot pounds of torque.

NOTICE NOTE The Piston Stem is chrome plated, honed and lapped to a very close tolerance with the Hydraulic Cylinder. Should it show indications of wear or being scored (usually due to foreign matter being present in the hydraulic fluid), the entire Hydraulic Piston and Cylinder Assembly, {figure 6}, should be returned to the factory, for repair or replacement as required.

7.5 Repairing or Replacing the Hydraulic Check Valves

These Valves should not give any trouble unless foreign matter such as dirt or grit are present in the fluid supply. If a leak develops remove the Check Valves from the Hydraulic Cylinder. Remove the "O" Rings and replace with a new one. Inspect the ball seat in the Valve while the "O" Ring is removed. If it shows any indication of wear or damage, the entire Valve Assembly should be replaced. Refer to the RPS for Enerpac Air Pump D3001A0115AA for part numbers {item 6} and cross section {figure 7} of the Valves.

1. When operations described in paragraphs 7.1 through to 7.2 have been completed, the entire unit will have been dismantled and all parts inspected for wear and damage. It is especially important that all parts that operate in "O" Rings or Packing be free from pits, scoring, or any other defects that may cause excessively rapid wear of "O" Rings and Packing, since leaks will develop almost immediately under these conditions and satisfactory performance will not result.

7.6 Reassembling the Pump

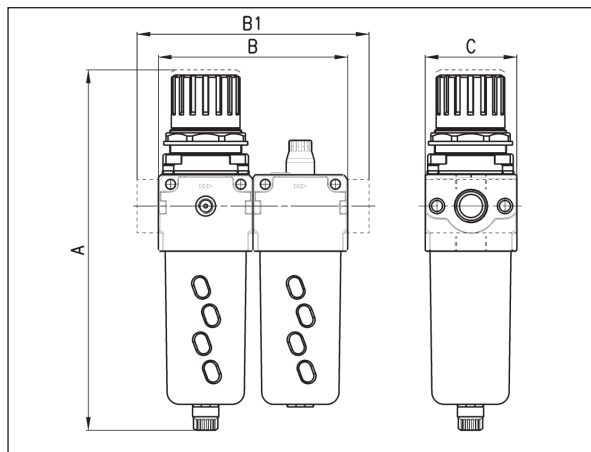
Reverse the procedure used for dismantling, making sure that all Retaining Rings are properly in place and that no "O" Rings have been damaged in reassembly.

CAUTION When reassembling the Air Motor be sure that the Air Cylinder, {item 3; figure 5} is in proper position against the flanges on the Pump Head and the Air Cylinder Ends before tightening the bolts that clamp the Air Motor together. Use a soft hammer to position the flanges tightly against the Air Cylinder Ends BEFORE tightening the bolts. Failure to do this can result in over-tightening the bolts initially and when the bolts on the opposite side are drawn up this may result in the bolt lugs being broken or twisted off when the assembly is drawn down into position. Bolts should be secured lightly at first then drawn up in sequence until uniform torque has been applied to all of the bolts around the perimeter of the pump (10-12 foot lbs).

7.7 Pump Not Running Properly

It is not necessary to dismantle the Air Motor. Proceed as follows. If for any reason the pump does not run properly, look for one of the following causes.

1. If the pump appears to be short stroking and running too fast without pumping properly, it usually indicates that the Air Check Assembly is not working as it should be. (See section 7.2 for correction procedure). Refers to hydraulic check valve repairing or replacement.
2. Loss of pressure may be caused by one of two reasons:-
 - i. the Hydraulic Check Valves have developed a leaky condition or
 - ii. the hydraulic fluid is bleeding past the packing in the Hydraulic Cylinder. (See section 7.3 to 7.5 for repair instructions). Refers to hydraulic packing replacement.
3. Should the pump commence to run erratically and in a jerky manner after a period of time, it is usually an indication that a seizing action is taking place in the Hydraulic Piston and Cylinder Assembly. (See section 7.1 and 7.3 for disassembly instructions). This is usually caused by foreign matter such as alkali, dirt, grit or chemicals that do not have sufficient lubrication qualities being present in the fluid supply. If the Hydraulic Piston and Cylinder have not been damaged, a thorough cleaning will normally place the pump in operation again.



4. For maximum volume of flow, make sure that a sufficient flow of air is supplied to the pump. Hooking the pump up to a smaller pipe size than the "AIR IN" port on the pump will not allow it to run at its full rated capacity. Long runs of relatively small pipe supplying air to the pump will have the same effect.
5. If an excessive amount of oil or water is coming through the pipe air exhaust, check the following:-
 - a. The Lubricating Unit in the air supply is delivering too much oil. Adjust to about one drop of oil for every 20 strokes of the pump.
 - b. The Filtering Unit in the air supply is not functioning properly. The bowl should be cleaned periodically to assure delivery of clean air to the pump.
 - c. The Hydraulic Fluid being pumped (oil or water) may be leaking past the packing in the Hydraulic Cylinder into the Air Motor. (See section 7.3 for correction procedure).

8.0 STORAGE AND SPARES

8.1 Reassembling the Pump

Hydraulic Harness and Fittings

1. Wipe all hoses clean and apply a light coating of oil or suitable rust inhibitor to all nipples, couplings, and tee blocks.
2. Always keep dust caps fitted to nipples and couplings when hoses are not in use.

Air Driven Pump Unit

1. Always store the pump upright.
2. Apply light oil coating or suitable rust inhibitor to all exposed un-plated metal items.
3. Leave the oil Return-To-Tank valve in the open position.
4. Leave the air control valve in the open position.
5. Always keep dust covers on inlet/outlet hydraulic fittings.

8.2 RECOMMENDED SPARES

Complete Seal Kit for Air Motor & Hydraulic Assembly:
D3001A0100SK

Mod.	A	B	B1	C	Flow rate (NI/min)
MC104-C-5	193,5	90	-	45	1450
MC238-C-5	256,5	124	-	60	4800
MC202-C-5 ★	256,5	124	-	60	4900



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