

OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

651421-X

RELEASED: 7-30-99
REVISED: 2-4-00
(REV. A)

MATERIAL FILTER

MAXIMUM INLET PRESSURE 6,000 P.S.I. (414 BAR)



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

SERVICE KITS

Use only genuine ARO replacement parts to assure compatible pressure rating and longest service life,

Refer to Figure 3 to order replacement parts.

MATERIAL FILTER DATA

| | |
|---------------------------|--------------------------|
| MODELS | 651421-() |
| MATERIAL | Carbon steel |
| MAXIMUM FLUID PRESSURE .. | 6,000 p.s.i.g. (414 bar) |

OPERATING & SAFETY PRECAUTIONS

- ◇ Read and heed all Warnings, Cautions and Safety Precautions before operating this pump.
- ◇ Use only genuine ARO replacement parts to assure compatible pressure rating and longest service life.

⚠ WARNING HAZARDOUS PRESSURE. Can result in serious injury or property damage. Do not service or clean pump, hoses or dispensing valve while the system is pressurized.

⚠ CAUTION Be certain all operators of this equipment have been trained for safe working practices, understand it's limitations, and wear safety goggles / equipment when required.

⚠ WARNING DO NOT EXCEED MAXIMUM INLET AIR PRESSURE AS STATED ON AIR MOTOR MODEL PLATE. OPERATING PUMP AT HIGHER PRESSURE MAY CAUSE PUMP DAMAGE.

⚠ WARNING HAZARDOUS MATERIALS. Can cause serious injury or property damage. Do not attempt to return a pump to the factory or service center that contains hazardous material. Safe handling practices must comply with local and national laws and safety code requirements. Obtain Material Safety Data Sheets on all materials from the supplier for proper handling instructions.

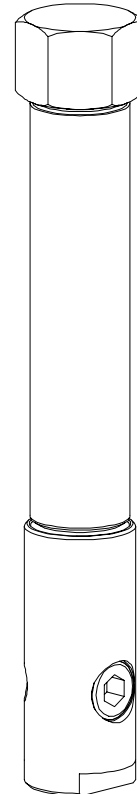


FIGURE 1

MODEL DESCRIPTION CHART

651421-X

SCREEN MESH SIZE
70 - 70 Mesh

GENERAL DESCRIPTION

The ARO Model Material Filter is used to separate foreign materials like dirt, stones and sweeping compound, from the material handling section. Material filters and strainers can be installed in a system to combat

this problem, thereby achieving longer service life. At this point, where the fluid enters the material handling section, the strainer prevents foreign material from entering the system.

ARO

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INGERSOLL-RAND
FLUID PRODUCTS

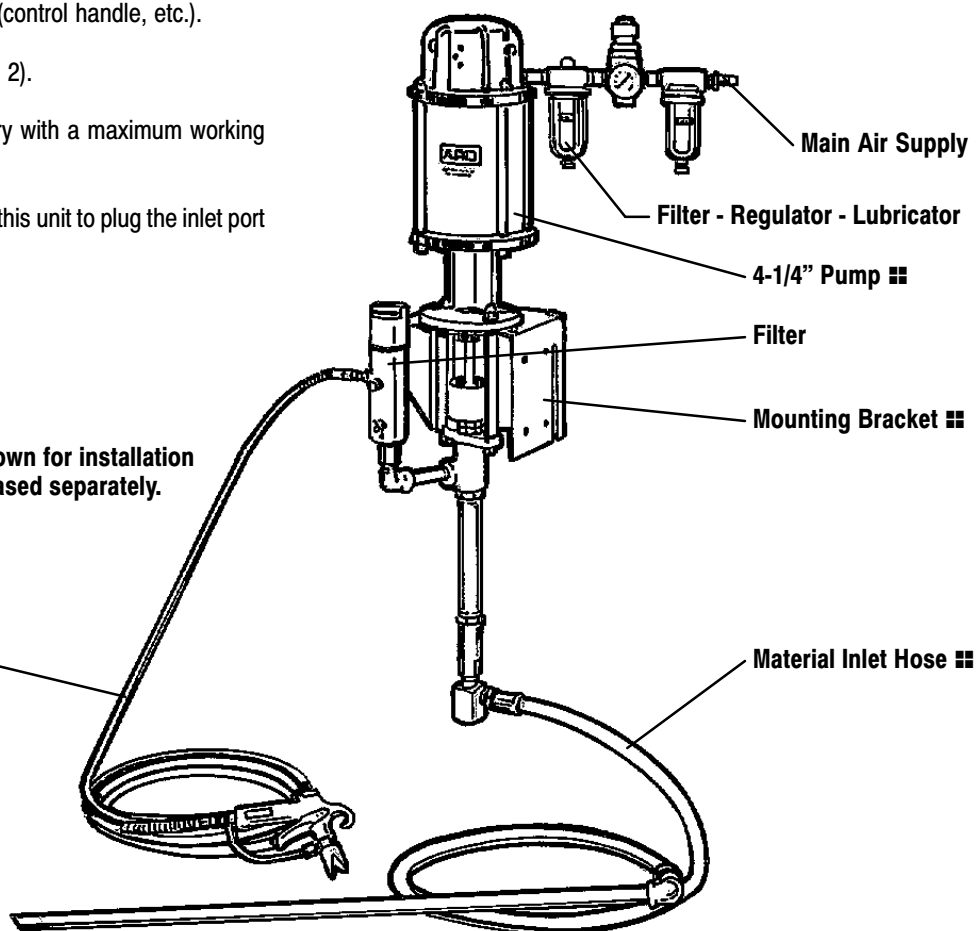
TYPICAL SYSTEM VIEW

1. Install material filter either at the inlet of material handling section or upstream from the other accessories (control handle, etc.).
2. Refer to typical installation (see figure 2).
3. The filter unit was tested at the factory with a maximum working pressure of 6,000 p.s.i. (414 bar).
4. A Y17-55-N pipe plug is included with this unit to plug the inlet port not being used.

■ These system components are shown for installation purposes only and must be purchased separately.

■ Material Outlet Hose

FIGURE 2



DISASSEMBLY

⚠ WARNING HAZARDOUS PRESSURE. Can result in serious injury or property damage. Do not service or clean pump, hoses or dispensing valve while the system is pressurized.

- Disconnect air supply line and relieve pressure from the system by opening dispensing valve or device and / or carefully and slowly loosening and removing outlet hose or piping from pump.

1. Unscrew and remove (1) cap from the (8) tube.
 2. Remove (2) gasket from (1) cap.
 3. Remove (3) spring and (4) guide button from the (8) tube.
 4. Pull the (9) tube, (6) screen assembly and (5) ball from the (8) tube.
 5. Unscrew the (8) tube from the (7) filter base and remove (2) gasket.
- Replace worn seals and parts with new parts. Reverse disassembly instructions for reassembly.

PARTS LIST

| ITEM | DESCRIPTION (Size in Inches) | QTY | PART NO. | [MTL] |
|------|------------------------------|-----|----------|-------|
| 1 | Cap | (1) | 92990-1 | [C] |
| 2 | Gasket | (2) | 91447 | [D] |
| 3 | Spring | (1) | 90408 | [SS] |
| 4 | Guide Button | (1) | 93949 | [SS] |
| 5 | Ball (.8125" dia.) | (1) | Y16-126 | [SH] |
| 6 | Screen Assembly (70 mesh) | (1) | 93945-70 | [SS] |
| 7 | Filter Base | (1) | 95025 | [C] |

| ITEM | DESCRIPTION (Size In Inches) | QTY | PART NO. | [MTL] |
|------|--------------------------------------|-----|----------|-------|
| 8 | Tube | (1) | 92993 | [C] |
| 9 | Tube | (1) | 95024 | [C] |
| 10 | Pipe Plug (1 - 11-1/2 N.P.T. x 3/4") | (1) | Y17-55-N | [C] |
| 11 | Pipe Plug (1/2 - 14 N.P.T. x 9/16") | (1) | Y17-53-N | [C] |

MATERIAL CODE

[C] = Carbon Steel [SH] = Hard Stainless Steel
[D] = Acetal [SS] = Stainless Steel

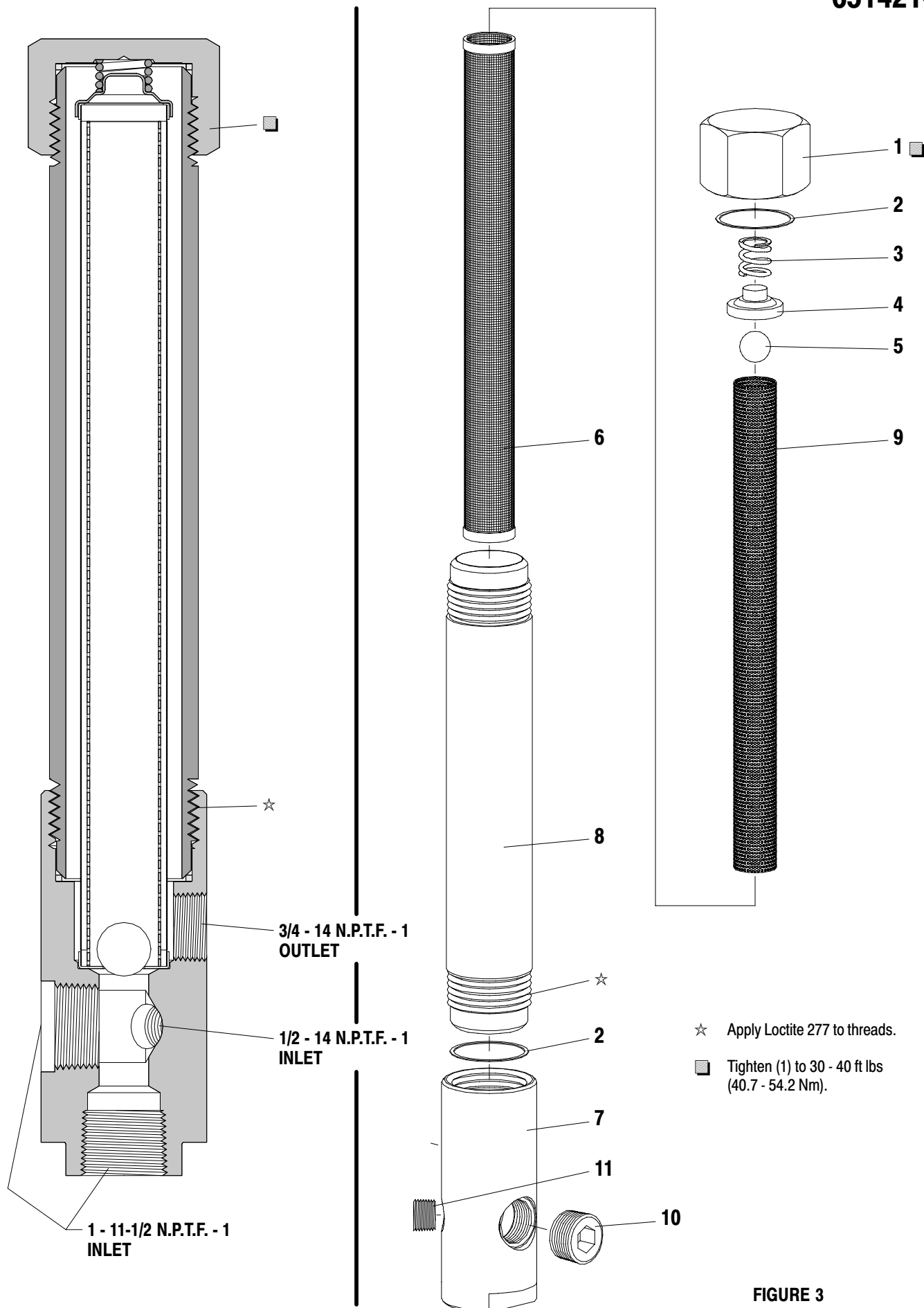


FIGURE 3

