INGERSOLL RAND COMPANY LTD P.O. BOX 151 • ONE ARO CENTER • BRYAN, OHIO 43506-0151 ① (800) 276-4658 • FAX (800) 266-7016 © 2008 CCN 15324130 fluids.ingersollrand.com

ARO systems are to tem from air and m material. This allows system and allows t

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference. The original language of this manual is English.

NP443XXXR8-XX

EXTRUSION SYSTEM

For use with 5 gallon / 20 liter drums (tapered or straight)

READ THIS MANUAL CAREFULLY BEFORE INSTALLING,

SERVICE KITS

- Use only genuine ARO[®] replacement parts to assure compatible pressure rating and longest service life.
- 61268 for repair of 65440 air motor.

4-1/4" AIR MOTOR

43:1 RATIO

4" STROKE

21 - 66731-1

- **104302** for repair of P39124-100 filter / regulator.
- 104453 for repair of P39344-100 filter / regulator.
- 63729X-P4X for repair of 6710X-P4X lower pump end.
- **637466** for repair of lift / ram seals.

MODEL DESCRIPTION CHART NP 4 43 X XXX R8 - XX **Air Motor Size** - 4-1/4' Pump Ratio 43 - 43:1 **Check Type / Wetted Materials** - Chop-Check / Carbon Steel - Chop-Check / Stainless Steel Lower Pump End Options Refer to pump model operator's manual Ram Style R8 - Two Post, 5 gallon **Follower Assembly** 10 - 651840-1 22 - 66731-2 11 - 651840-2 30 - 67347-1 12 - 651840-3 31 - 67347-2 13 - 651841-1 40 - 67347-11 20 - 66731 41 - 67347-12

OPERATOR'S MANUAL INCLUDING: OPERATION, INSTALLATION AND MAINTENANCE.

INCLUDE MANUALS: 6712X-XXX Extrusion Pump (97999-602), 66731-X Follower Plate (pn 97999-213), 67347-X Follower Assembly (pn 97999-1102), 65184X-X Follower Plate (pn 97999-605), RM052S-X Two Post Lift / Ram (pn 97999-1345), & S-636 General Information (pn 97999-636).

RELEASED: 12-10-08 REVISED: (REV. 01)

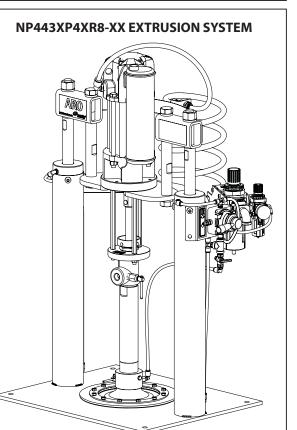


Figure 1

Ingersoll Rand

Industrial Technologies

GENERAL DESCRIPTION

By delivering a smooth, continuous bead of the proper size, an ARO system helps the operator maintain both production rate and produce high quality standards. Maintained quality standards assures that the material benefits are realized. To further maximize operator production time, the ARO system has a built-in lift / ram feature for quick and easy drum changeover and easy lifting of the pump assembly from the container.

ARO systems are totally enclosed, sealing the material in the system from air and moisture, preventing premature cure-out of the material. This allows for either continuous or intermittent use of the system and allows the need for daily system clean-up.

NP443XXXR8-X

INSTALLATION

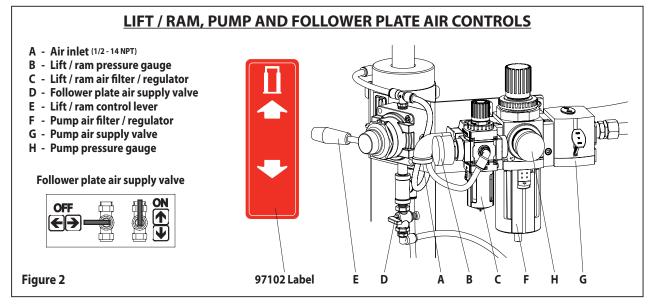
The NP443XXXXR8-XX Extrusion System comes completely assembled. Remove the unit from the crate and place on a level surface. Install the material hose and dispensing device as required. When the following instructions are observed, heavy paste materials can be pumped directly from their original drum without air inclusion or excessive waste. The follower plate creates an air tight seal as well as clean-wiping action in its progressive downward movement into the drum.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS / INITIAL SET-UP PROCEDURE

Read the warnings on page 2 of RM052S-X Two Post Lift / Ram Operator's Manual.

MARNING Stand clear when raising or lowering the lift.



TO RAISE THE LIFT, (THE FIRST TIME):

- Take note of the pump / drum clearance above. Be certain the lift / ram is clear of any objects above. Also, refer to "Operating and Safety Precautions" found on page 2 of RM052S-X Two Post Lift / Ram Operator's Manual.
- 2. Connect the air supply (125 p.s.i. / 8.6 bar max.) to the air inlet. Adjust the air pressure on the lift / ram pressure regulator (turn the knob clockwise) to 20 p.s.i. (1.4 bar).
- 3. Shift the control valve lever to the "up" position.
- 4. Raise the lift / ram high enough to clear the height of the drum. Stop the lift upward travel by moving the control valve lever to the "neutral" (center) position.
- Once the lift / ram assembly and pump are in the "up" position, place and center an opened drum of material on the lift / ram base.
- Lubricate the lower follower wiper plate seal with grease. NOTE: Make certain the grease is compatible with the material being dispensed. This ensures a smooth fit into the drum, as well as prevents curing type compounds from bonding to the seal.
- 7. Check the vent plug on the follower plate to be sure it easily threads in and out. It is recommended to lubricate the threads of the plug to help prevent possible set-up of the compound at this point (see RM052S-X Operator's Manual).

TO LOWER LIFT:

WARNING PINCH HAZARD. Follower can descend quickly, causing injury. Keep hands clear when aligning with container. Read the warnings on page 2 of RM052S-X Two Post Lift / Ram Operator's Manual.

NOTE: Be certain the follower plate vent plug has been removed so that the air trapped between the follower and the material is al-

lowed to escape from this vent.

NOTE: The lift / ram may hesitate momentarily before starting downward. The air pressure inside the post air chamber must decrease before it will begin to descend.

- 1. Shift the control valve lever to the "down" position and proceed to lower the pump.
- 2. Replace the vent plug once the material begins to ooze from the vent opening.
- 3. The unit is now ready for operation. Open the pump air supply valve. Adjust the air pressure on the pump filter / regulator (turn the pump regulator knob clockwise) until the pump begins to cycle.
- 4. Trigger the gun to prime the pump with material.

TO RAISE LIFT, (NORMAL OPERATION):

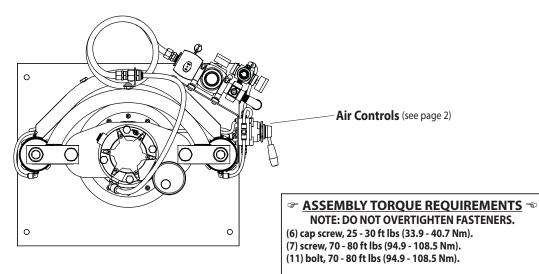
- 1. Close the pump air supply valve.
- 2. Shift the control valve lever to the "up" position.
- 3. Raise the lift / ram high enough to clear the height of the drum. Stop the lift upward travel by moving the control valve lever to the "neutral" (center) position.

TO CHANGE THE DRUM:

NOTE: The control valve lever must be in the "neutral" position and the pump air supply valve should be closed.

- 1. To avoid damage, DO NOT OVER PRESSURIZE THE DRUM.
- 2. Open the follower plate air supply valve to allow air under the follower plate.
- 3. Shift the control valve lever to the "up" position.
- 4. Place and center a new drum into position. Remove the cover.

PARTS LIST / NP443XXXXR8-XX							
ltem	Description (size)	Qty	Part No.		ltem	Description (size)	Qty
1	Pump Assembly (models NP443 <u>E</u> P4XR8-XX)	(1)	67120-P4X		8	Lock Washer (7/8")	(4)
	(models NP443 <u>F</u> P4XR8-XX)	(1)	67121-P4X	1	9	Tie Rod	(2)
2	Male Elbow (1/2 - 14 NPT x 1/2" o.d. tube)	(1)	59756-362		10	Mounting Plate	(1)
	(included with item 3)	(-)		-	11	Bolt (7/8" - 14 x 2")	(2)
3	Two Post Lift / Ram	(1)	RM052S-C	4	12	Muffler	(1)
4	Follower Assembly (see "Model Description Chart", page 1)	(1)			13	Adapter (models NP443XP4XR8- <u>3</u> X only)	(1)
5	Lock Washer (3/8")	(3)	Y14-616-C	1		(models NP443XP4XR8- <u>4</u> X only)	(1)
6	Cap Screw (3/8" - 16 x 1-1/2")	(3)	Y6-67-C		14		(3)
7	Screw (7/8" - 14 x 4")	(2)	94009	7		NP443XXXXR8- <u>3</u> X and - <u>4</u> X only)	<u> </u>
	1	/	1		15	Wet-Sol "Plus" (1 quart) (not shown)	(1)





Apply anaerobic pipe sealant to all male pipe threads.

Part No. Y14-875

97126

96737

95145

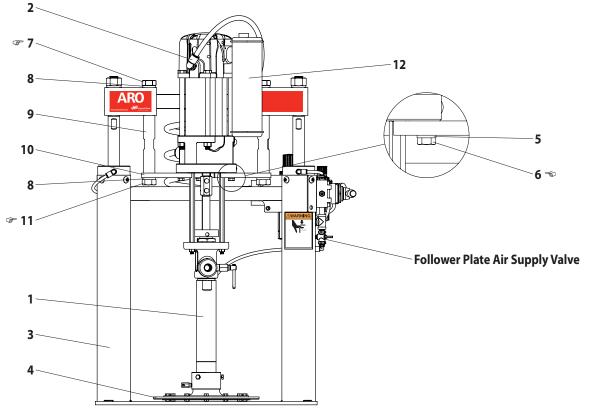
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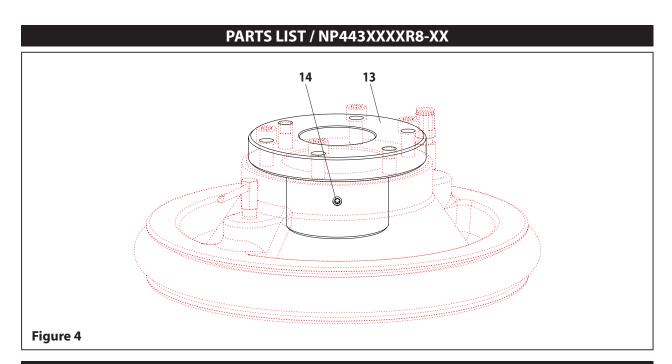
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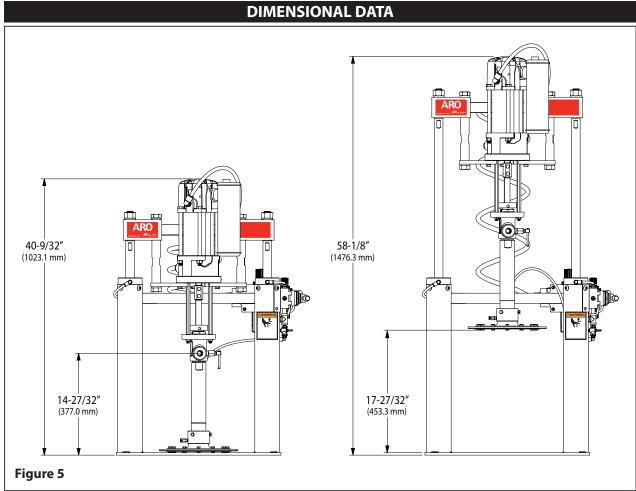
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Y29-46-S

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