



Service Guide

8553
8553-1 8553-2
8553-A 8553-B

Medium-Pressure Lubricant Pump

Description

The major components of the medium-pressure lubricant pump assembly in the 8553 model series consist of a(n):

- air-operated motor
- double-acting reciprocating pump tube
- control valve assembly, z-swivel, and delivery hose
- cover w/ or w/o handle assembly (model dependent)

These medium-pressure pumps are designed to deliver:

- light through medium-viscosity non-fibrous lubricants
- rust-proofing compounds

Models 8553, 8553-1, 8553-2, 8553-A, and 8553-B

All pump models are obsolete except for model 8553-2. Service parts are available for all models.

Specifications

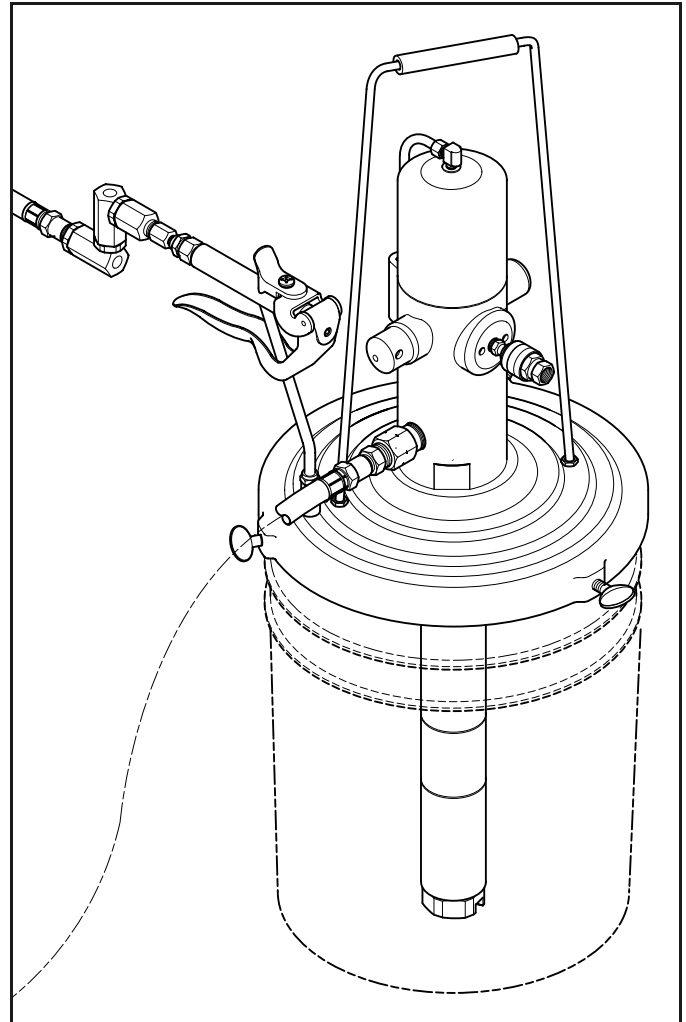
Air Motor

Piston Diameter / Stroke		Air Inlet	Max. Air Pressure	
Inches	mm		psi	Bars
2-7/16 x 1-5/8	62 x 41	1/4 " NPSI (f)	200	14
For air motor data, refer to Service Guide SER 324300-5				

Pump Tube

Material Outlet	Max. Material Pressure		Delivery/Minute (Approximate)*		Displacement/Cycle	
	psi	Bars	gal	l	ci	cc
3/8 " NPTF (f)	5200	359	0.75	2.8	0.47	7.7
* For detailed information, refer to SER 331571-A5						

Table 1 Pump Model 8553 Series Specifications



Pump Model	Cover	Original Stripped Pump Model	Current Stripped Pump Model	Container Size			
				lbs	kg	gal	l
8553	330658-4	331571-F1	331571-C5	35	-	5	-
8553-1		331571-F2					
8553-2	338166	331571-C5					
8553-A	338371	331571-A5		120	50	16	-
8553-B	318040-4	331571-B5		400	180	55	200/205

Figure 1 Medium-Pressure Pump Model 8553 Series
Current Pump Model 8553-2 Shown

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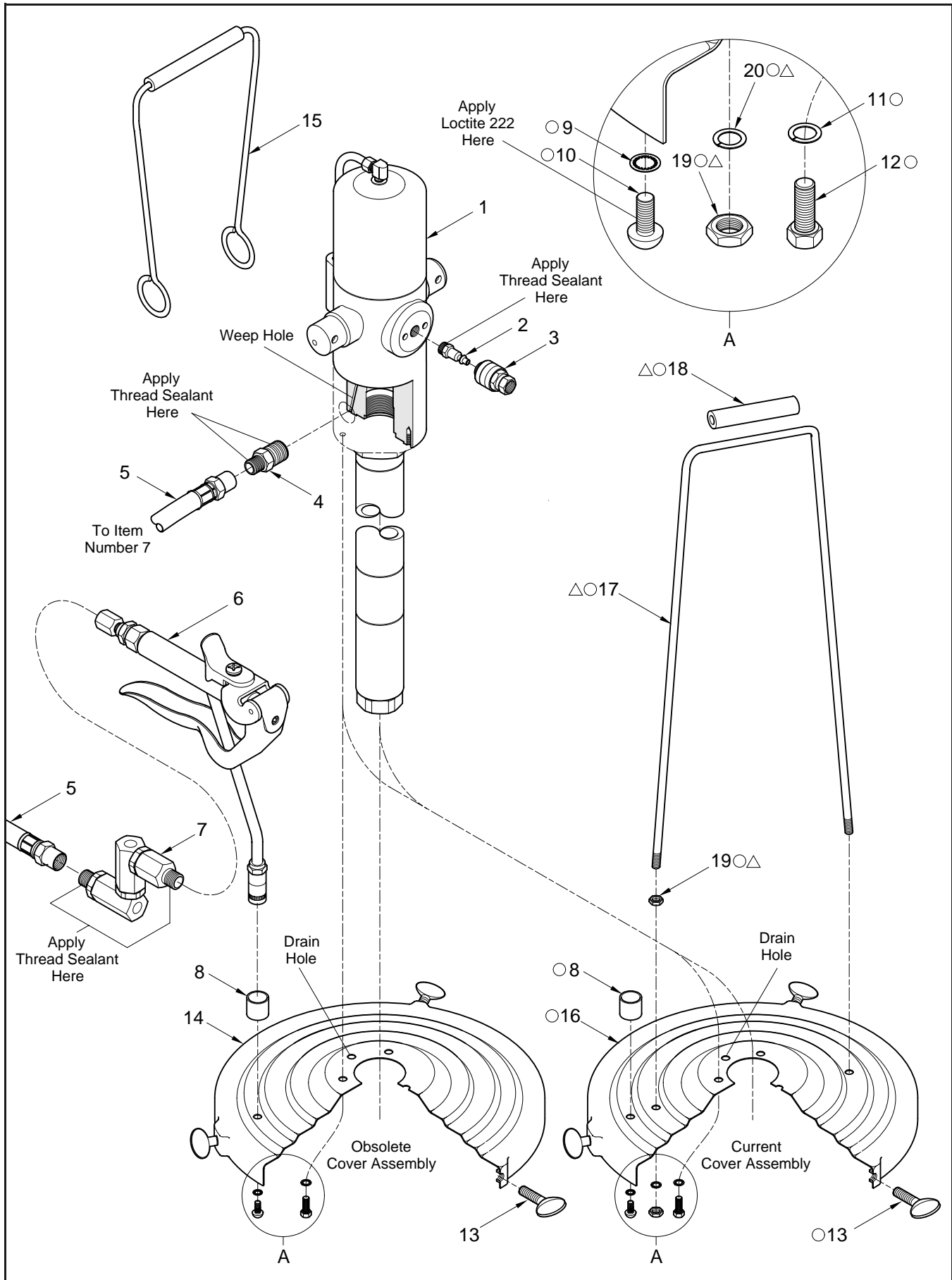


Figure 2-A Medium-Pressure Lubricant Pump Models 8553, 8553-1, and 8553-2 - Exploded View

Item No.	Part No.	Description	Model			Qty	Notes	Numeric Order Part # (Item #)
			8553	8553-1	8553-2			
1	331571-C5	Pump Assembly	All			1	See SER 331571-A5	6320-3 (6)
2	328034	Connector, 1/4 " NPTF (m)				1		18223 (13)
3	328030	Coupler Air, 1/4 " NPTF (f)				1		44734 (4)
4	44734	Adapter, 3/8 " NPTF (m)				1		B52752 (7)
5	317875-25	Hose Assembly, Material				1		77009 (9)
6	6320-3	Valve Assembly				1	See SER 6320-3	77786 (12)
7	B52752	Z-Swivel Assembly				1	See SER B52750	79029 (19)
8	315943	Bushing				1	○	170561 (10)
9		Washer, Lock, 1/4 "				1	○	172207-1 (11)
10		Screw, 1/4 " -20 x 5/16 "				1	○	172207-2 (20)
11	172207-1	Washer, Lock, 1/4 "				3	○	315943 (8)
12	77786	Capscrew, 1/4 " -20 x 1/2 "				3	○	317875-25 (5)
13	18223	Screw, Thumb, 1/4 " -20				3	○	321678 (18)
14		Cover Assembly	●		1		321696 (17)	
15		Handle Assembly			1		327137 (15)	
16		Cover Assembly			1	○	328030 (3)	
17		Handle			1	○△	328034 (2)	
18		Grip (Rubber)		●	1	○△	330657-B4 (14)	
19		Nut, 5/16 " -18			4	○△	331571-C5 (1)	
20		Washer, Lock, 5/16 "			2	○△	338141 (16)	

Legend:
 Part numbers left blank (or in *italics*) are not available separately
 ○ △ designates a repair kit item

Repair Kits

Part No.	Kit Symbol	Description
338166	○	Kit, Cover
393607	△	Kit, Handle

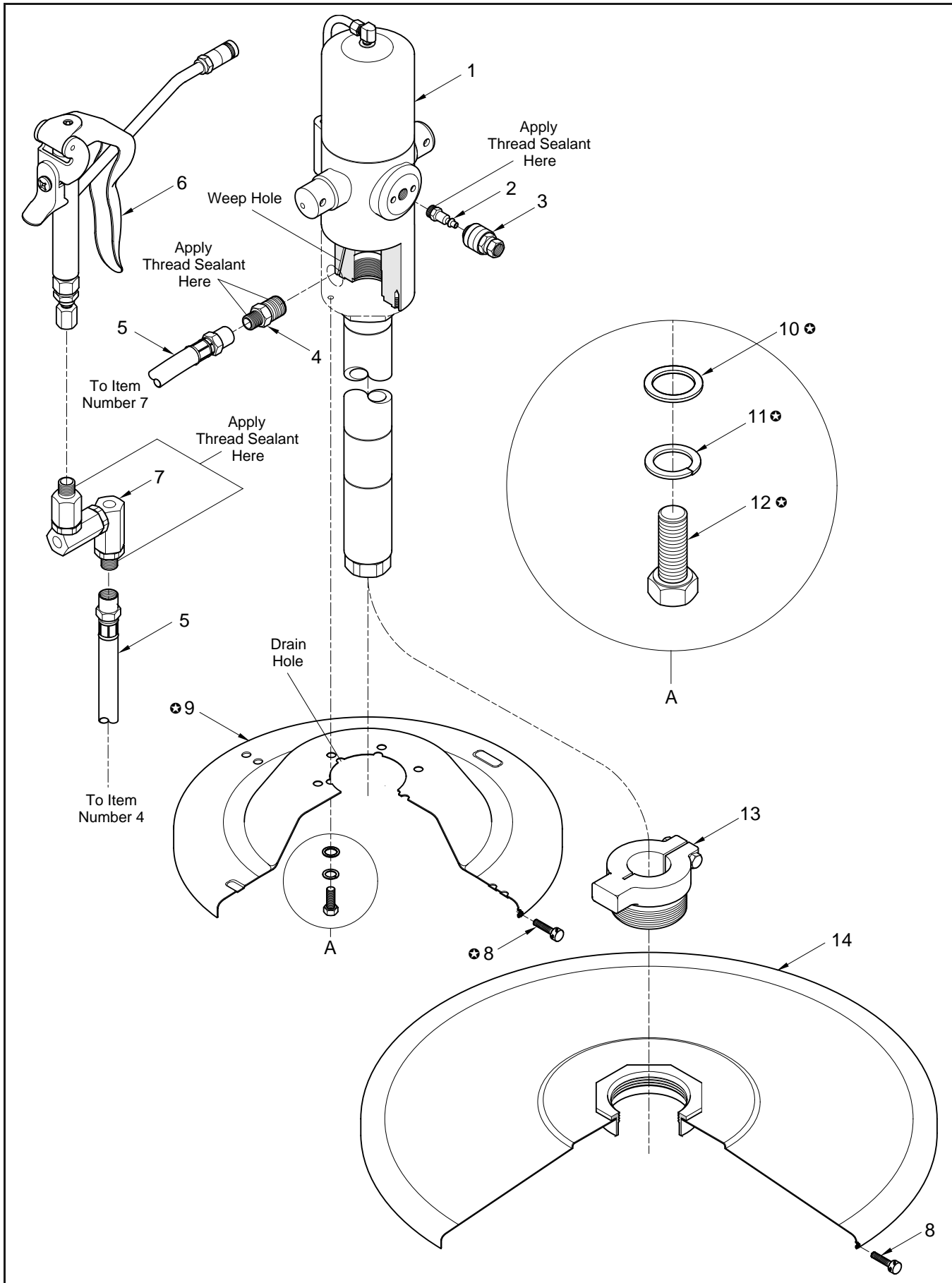


Figure 2-B *Medium-Pressure Lubricant Pump Models 8553-A and 8553-B - Exploded View*

Item No.	Part No.	Description	Model		Qty	Notes	Numeric Order Part # (Item #)	
			8553-A	8553-B				
1	331571-A5	Pump Assembly	●		1	See SER 331571-A5	6320-3 (6)	
	331571-B5	Pump Assembly		●	1		17804 (10)	
2	328034	Connector, 1/4 " NPTF (m)	Both		1		44734 (4)	
3	328030	Coupler Air, 1/4 " NPTF (f)			1		48018 (8)	
4	44734	Adapter, 3/8 " NPTF (m)			1		B52752 (7)	
5	317875-25	Hose Assembly, Material			1		77786 (12)	
6	6320-3	Valve Assembly			1		See SER 6320-3	172207-1 (11)
7	B52752	Z-Swivel Assembly			1		See SER B52750	317875-25 (5)
8	48018	Screw, Thumb, 1/4 " -20			3	⊕		318040-4 (14)
9		Cover Assembly					1	⊕
10		Washer, 1/4 "	●		3	⊕	326750 (13)	
11		Washer, Lock, 1/4 "				3	⊕	328030 (3)
12		Capscrew, 1/4 " -20 x 1/2 "				3	⊕	328034 (2)
13	326750	Adapter, Bung, 2 " NPTF (m)				1		331571-A5 (1)
14	318040-4	Cover Assembly		●	1		331571-B5 (1)	

Legend:
 Part numbers left blank (or in *italics*) are not available separately
 ⊕ designates a repair kit item

Repair Kit

Part No.	Kit Symbol	Description
338371	⊕	Kit, Cover

Assembly

Model 8553-2

NOTE: Refer to **Figures 2** and **2-A** for component identification on all assembly procedures.

NOTE: The Pump Assembly bolts to the Cover with the weep hole in the air motor aligned with the drain hole in the Cover. See **Figure 2-A**.

CAUTION

Select a clean environment for all assembly procedures. Prevent contamination from foreign material. Damage to components can occur.

Pump and Cover Assembly

IMPORTANT: Make sure to remove the protective sleeve from the inlet of Pump Assembly (1).

1. Install Pump Assembly (1) into Cover (16).
2. Secure the Pump Assembly to the Cover with Lock Washers (11) and Capscrews (12).
 - Tighten the Capscrews securely.
3. Install Grip (18) onto Handle (17).
4. Screw Nut (19) onto each end of the Handle.
5. Install the ends of the Handle into the Cover.

6. Install Lock Washer (20) and additional Nut (19) onto each end of the Handle.
 - Tighten the Nuts securely.
7. Fit the bolted Pump and Cover Assembly onto the container.
8. Secure the Cover to the container with Thumb Screws (13).

Model 8553-A

9. Install Pump Assembly (1) into Cover (9).
 - Make sure the weep hole in the air motor is aligned with the drain hole in the Cover. See **Figure 2-B**.
10. Secure the Pump to the Cover with Washers (10), Lock Washers (11) and Capscrews (12).
 - Tighten the Capscrews securely.
11. Fit the bolted Pump and Cover Assembly onto the container.
12. Secure the Cover to the container with Thumb Screws (8).

Model 8553-B

13. Screw Bung Adapter (13) into Cover (14).
14. Install Pump Assembly (1) into the Bung Adapter.
 - Make sure the pump is approximately 1/4-inch (7 mm) from the bottom of the drum.
15. Tighten the Bung Adapter securely.

All Models

Air Inlet

16. Screw Connector (2) [with thread sealant] into the inlet of the air motor.
 - Tighten the Connector securely.
17. Attach Air Coupler (3) to an air line.
 - Make sure the pressure rating of the air line is sufficient for the pump.
18. Attach the Air Coupler Assembly to the Connector.

Control Valve and Material Hose

19. Screw the large diameter end of Adapter (4) [with thread sealant] into the outlet of the Pump Assembly.
 - Tighten securely.
20. Screw either end of Material Hose (5) [with thread sealant] into the Adapter.
 - Tighten securely.
21. Screw the 1/2 " -27 end of Z-Swivel (6) [with thread sealant] into the Material Hose.
 - Tighten securely.
22. Screw the opposite end of the Z-Swivel [with thread sealant] into Control Valve Assembly (6).
 - Tighten securely.
23. Test/Prime the Pump assembly.

Changes Since Last Printing

Added Model 8553-2