

Red Jacket

CAT. P15053-3

D/C: 10514

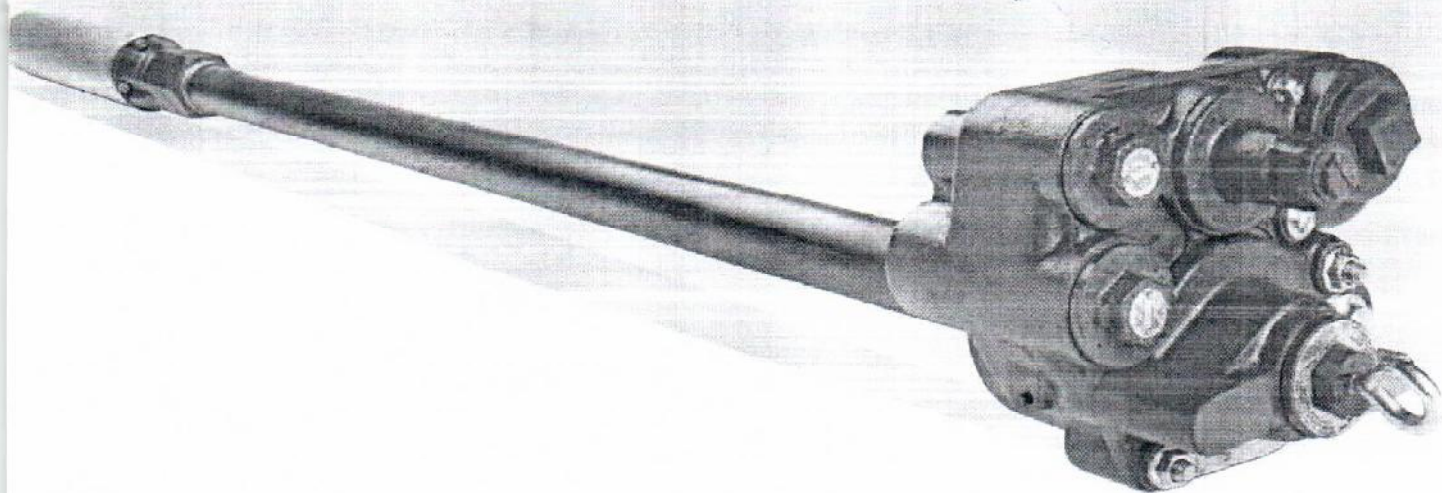


Table 2.- Distance From Eye Bolt to Inlet

MODEL#	COMPRESSED		EXTENDED	
	in	mm	in	mm
X4P150S17T1, X4AGP150S17T1	74.5	1892	101.5	2578
X4P150S17T2, X4AGP150S17T2	97.5	2476	131.5	3340
X4P150S17T3, X4AGP150S17T3	131.5	3340	198.5	5041
X4P150S17T4, X4AGP150S17T4	131.5	3340	165.5	4203

Table 3 shows pump electrical service requirements for UMPs with end view A and Table 4 shows pump electrical service requirements for UMPs with end view B.

Table 3.- Electrical Service Information (Use for UMPs Containing a Franklin Motor with End View A)

Required power supply rating for 60 Hz, 1 phase motors is 208 - 230 Vac. For 50 Hz, 1 phase motors, required rating is 220 - 240 Vac.  
3 phase motors required rating is 380 - 415 Vac.

UMP Model No.	HP	Hz	PH	Voltage Fluctuation Range		Max. Load Amps	Locked Rotor Amps	Winding Resistance (Ohms)			Capacitor Kit (μF) or Heaters (KXX)
				Min.	Max.			Black-Orange	Red-Orange	Black-Red	
AGUMP33R1, UMP33R1	1/3	60	1	200	250	4	13	7.7 - 9.4	17.4 - 21.2	25 - 30.7	144-224-5 (17.5)
AGUMP75S1, UMP75S1	3/4	60	1	200	250	6.5	25	2.9 - 3.6	14.9 - 18.2	17.7 - 21.9	144-224-5 (17.5)
AGUMP150S1, UMP150S1	1-1/2	60	1	200	250	10.5	37	2 - 2.5	11.6 - 14.2	13.5 - 16.8	144-225-5 (25)
X3AGUMP150S1, X3UMP150S1	1-1/2	60	1	200	250	10.5	37	2 - 2.5	11.6 - 14.2	13.5 - 16.8	144-225-5 (25)
AGUMP75S3-3, UMP75S3-3	3/4	50	1	200	250	5.8	17	3.6 - 4.5	20.4 - 25	23.9 - 29.6	144-224-5 (17.5)
AGUMP150S3-3, UMP150S3-3	1-1/2	50	1	200	250	10	28	2.5 - 3.1	11.5 - 14	13.9 - 17.2	144-225-5 (25)
X4AGUMP150S3, X4UMP150S3	1-1/2	50	1	200	250	10	28	2.5 - 3.1	11.5 - 14	13.9 - 17.2	144-225-5 (25)
AGUMP75S17-3, UMP75S17-3	3/4	50	3	342	457	2.2	11	25.8 - 32.4	25.8 - 32.4	25.8 - 32.4	K26
AGUMP150S17-3, UMP150S17-3	1-1/2	50	3	342	457	3.8	15.8	13.1 - 16.4	13.1 - 16.4	13.1 - 16.4	K33
X4AGUMP150S17, X4UMP150S17	1-1/2	50	3	342	457	3.8	15.8	13.1 - 16.4	13.1 - 16.4	13.1 - 16.4	K33

Table 5.- UMP Model Dimensions

		Franklin Motors (Use these lengths for UMPs with end view A shown in Figure 5)		Faradyne Motors (Use these lengths for UMPs with end view B shown in Figure 5)		Weight	
UMP Model	HP	in.	mm	in.	mm	lb.	kg
UMP33U1, AGUMP33R1	1/3	15-1/2	390	15-3/8	391	24	11
UMP75U1, AGUMP75S1	3/4	17-3/4	447	17-5/8	448	28	12.7
UMP75U3-3, AGUMP75S3-3	3/4	20	507	19-7/8	505	30.5	13.9
UMP75U17-3, AGUMP75U17-3	3/4	19-1/4	489	----	----	28	12.7
UMP150U1, AGUMP150S1	1-1/2	20-1/2	519	20-5/8	524	34	15.5
X3P150U1, X3AGUMP150S1	1-1/2	21-1/4	540	21-1/2	546	35	15.8
UMP150U3-3, AGUMP150S3-3	1-1/2	22-1/4	565	22-1/4	565	34	15.5
X4P150U3, X4GUMP150S3	1-1/2	22-3/4	576	22-7/8	581	35	15.9
UMP150U17-3, AGUMP150S17-3	1-1/2	21	532	----	----	31	14.1
X4P150U17, X4AGUMP150S17	1-1/2	21-1/2	547	----	----	32	14.5

Figure 5 identifies UMP models by their end view.

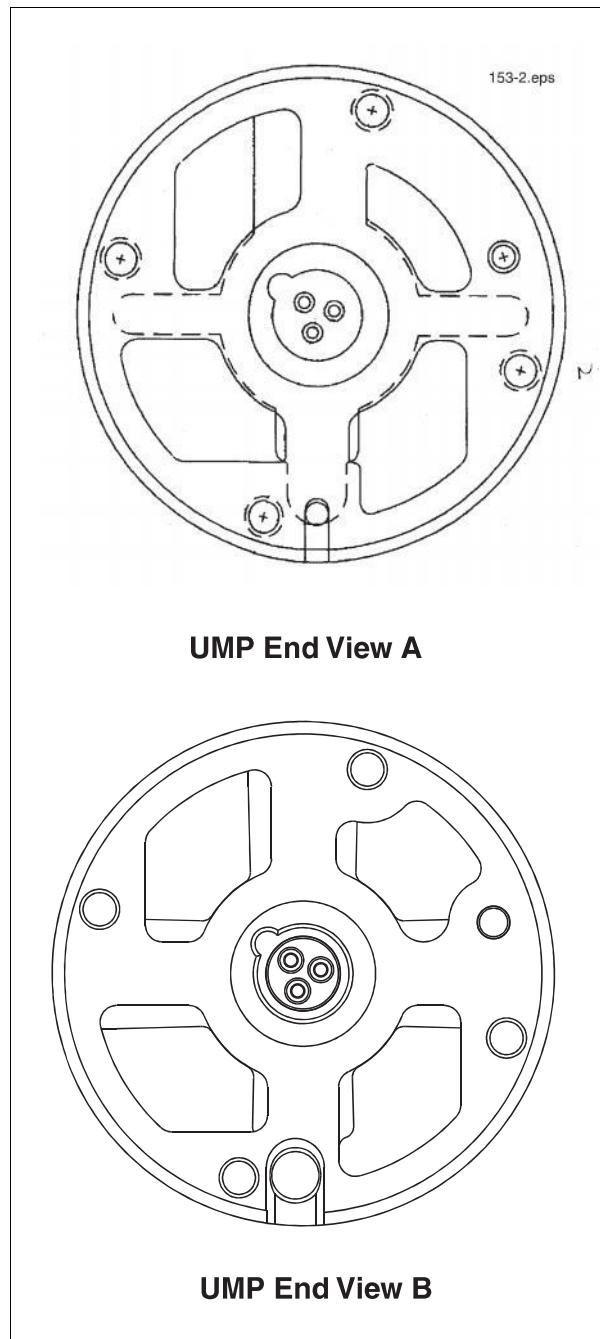


Figure 5. Identifying UMP models by their end view

## Installation

### Attaching the UMP

Table 6 lists the applicable UMPs for each packer/manifold.

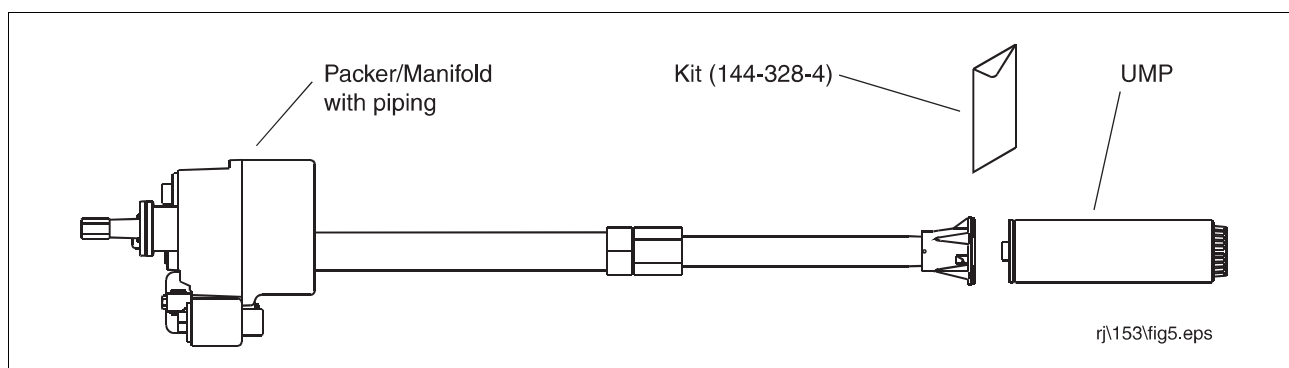
**Table 6.- Applicable UMPs for 4" Standard Packer/Manifolds**

Packer/Manifold	UMP	Packer/Manifold	UMP
AGP33R1	AGUMP33R1	P150S3-3	UMP150S3-3
P33R1	UMP33R1	X4AGP150S3	X4AGUMP150S3
AGP75S1	AGUMP75S1	X4P150S3	X4UMP150S3
P75S1	UMP75S1	AGP75S17-3	AGUMP75S17-3
AGP150S1	AGUMP150S1	P75S17-3	UMP75S17-3
P150S1	UMP150S1	AGP150S17-3	AGUMP15017-3
X3AGP150S1	X3AGUMP150S1	P150S17-3	UMP15017-3
X3P150S1	X3UMP150S1	X4AGP150S17	X4AGUMP150S17
AGP75S3-3	AGUMP75S3-3	X4P150S17	X4UMP150S17
P75S3-3	UMP75S3-3		
AGP150S3-3	AGUMP150S3-3		

The UMP is identified by the model number marked on the shell. The packer/manifold assembly with attached piping is identified by the catalog number on the capacitor cover nameplate. The catalog number will be followed by T1, T2, T3, or T4 on adjustable length pumps or a four-digit number indicating the original pump length in feet and inches (a 9 ft. 6 inch [2896 mm] pump would have 0906 after the model number).

The attachment hardware kit to be used to connect the UMP to the Packer/Manifold assembly piping consists of four Grade 5, 5/16 -18 x 1" socket head cap screws, four 5/16 spring lock washers and one discharge head gasket. It is identified by the kit number (144-328-4) marked on the bag (see Figure 6).

**NOTE: Suggested tools (non-sparking) include a 3/4" wrench, pipe wrench, 1/4" allen wrench, 9/16" wrench, screw driver, wire cutter and wire stripper.**



**Figure 6. Packer/manifold with piping attaching to UMP**