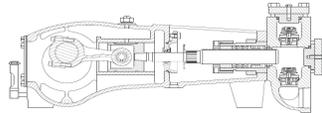


No. of plungers 3
 Maximum rated speed 450 rpm
 Stroke length.....4.00 in. 101.6 mm
 Maximum rated power..... 95 HP 71 KW
 Maximum rod load6259 lb. 27.8 kN
 Weight..... 2005 lbs.

ENGLISH UNITS



PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI.	*GALLON PER./REV.	250 RPM USGPM	300 RPM USGPM	350 RPM USGPM	400 RPM USGPM	450 RPM USGPM
1.750	2.875	2600	.1250	31.2	37.5	43.7	50.0	56.3
1.625	2.500	3016	.1078	27.0	32.3	37.7	43.1	48.5
1.500	2.500	3539	.0919	23.0	27.5	32.2	36.8	41.4
1.375	2.250	4212	.0772	19.3	23.2	27.0	30.9	34.7
1.250	2.250	5096	.0638	16.0	19.1	22.3	25.5	28.7
1.125	1.750	6291	.0517	12.9	15.5	18.1	20.7	23.3
<i>HP REQUIRED @ RPM**</i>				53	63	74	84	95

METRIC UNITS

PLUNGER SIZE M.M	STUFFING BOX BORE MM.	MAX PRESS. BAR	* LITER PER./REV	250 RPM LPM	300 RPM LPM	350 RPM LPM	400 RPM LPM	450 RPM LPM
44.5	73.0	186.0	0.4733	118.3	142.0	165.7	189.3	213.0
41.3	63.5	215.8	0.4081	102.0	122.4	142.8	163.2	183.6
38.1	63.5	253.2	0.3479	87.0	104.4	121.8	139.2	156.6
34.9	57.2	301.3	0.2923	73.1	87.7	102.3	116.9	131.5
31.7	57.2	364.6	0.2415	60.4	72.5	84.5	96.6	108.7
28.6	44.5	450.1	0.1957	48.9	58.7	68.5	78.3	88.1
<i>KW REQUIRED @ RPM**</i>				39	47	54	63	71

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

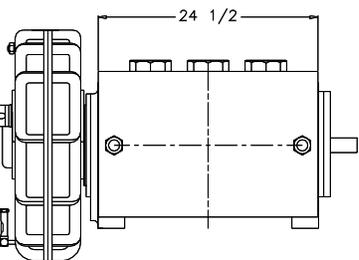
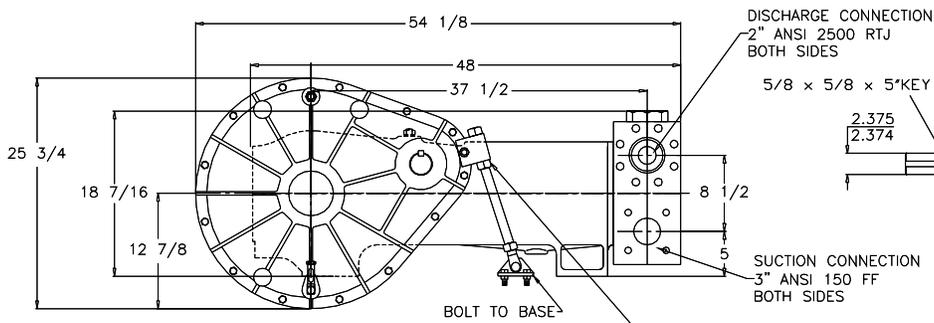
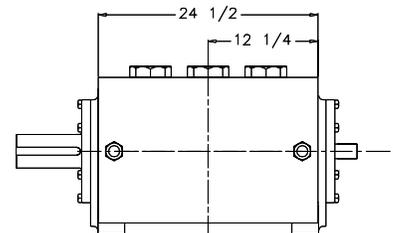
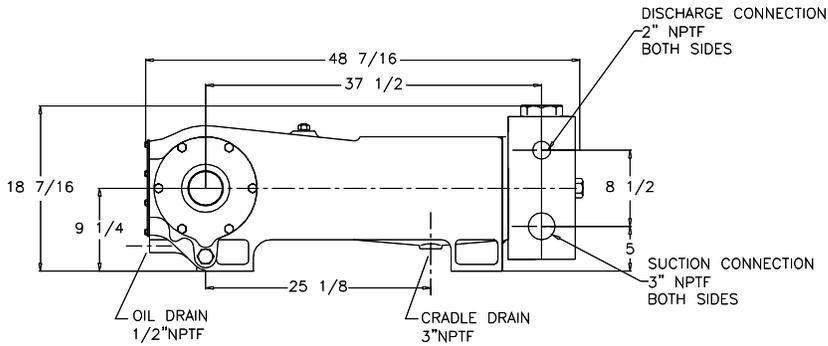
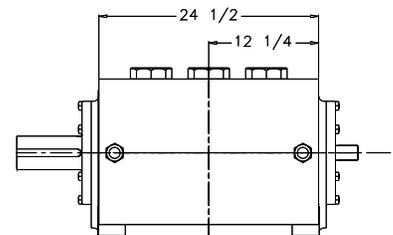
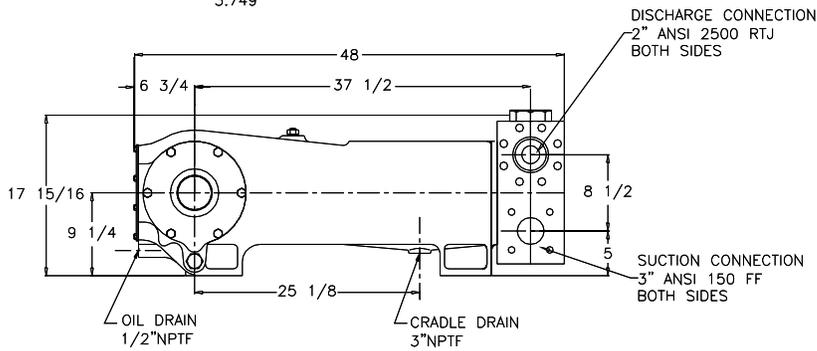
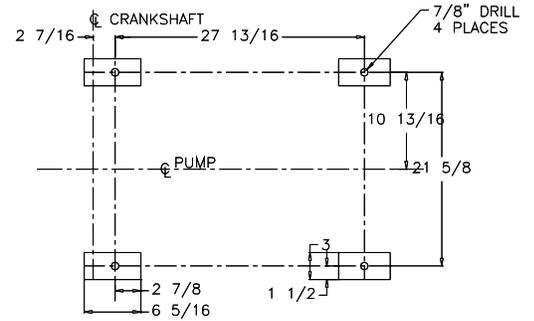
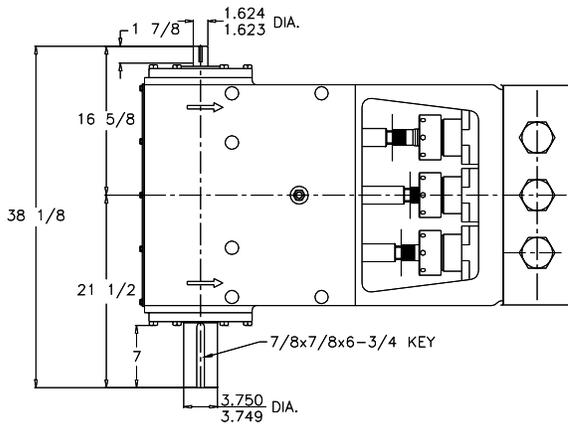
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

$$IKW = \frac{M^3/HR \times (\text{Discharge Bar} - 1/2 \text{ Suction Bar})}{17.99}$$

$$PUMP \text{ RPM} = \frac{USGPM \text{ Desired}}{USGPM \text{ per Revolution of Selected Plunger}}$$

$$PUMP \text{ RPM} = \frac{M^3/HR \text{ Desired}}{M^3 \text{ per Revolution of Selected Plunger}}$$

MA-95H Triplex Pump



NOTE: TORQUE REACTION ARM
MUST BE FIRMLY SECURED TO BASE.

NOTE: HEIGHT OF PINION SHAFT MAY BE
ADJUSTED TO SECURE PERFECT VERTICAL
ALIGNMENT WITH ENGINE SHAFT

ENGINEERING DATA

MA-95H Triplex Pump

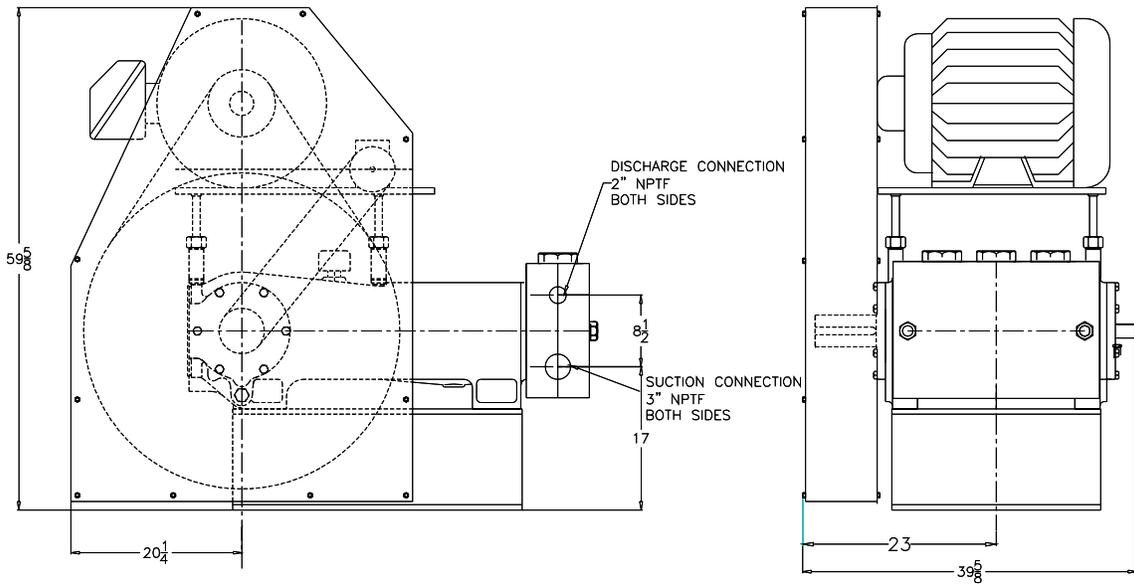
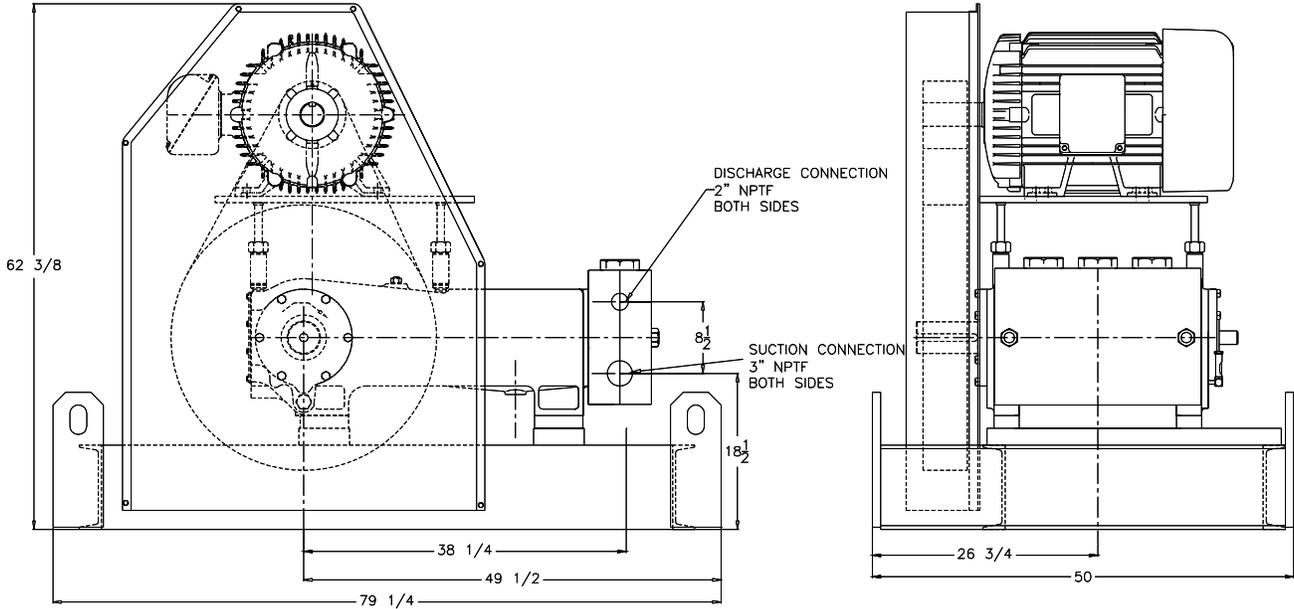
POWER END ENGINEERING DATA

Max. Input HP @ Speed	95 HP @ 450 rpm
Rated Continuous Plunger Load	6259 lb.
Normal Continuous Speed Range	150 to 400 rpm
Minimum Speed	100 rpm
Oil Capacity	15 U.S. Qrts
Power End Oiling System	Splash and Scoop
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	5 3/4 x 6 3/16 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	4.0 in.
At Crankpin Bearings	4 x 3 in.
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 8620
Main Bearings, Tapered Roller	Timken
Crankpin Bearings, Precision Automotive	Babbitt-Lined
Extension (Pony) Rod	17-4PH S.S.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 450 rpm	318 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	45,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	5000 psi
Hydrostatic Test	7500 psi
Liquid End Materials, A.S.T.M.	
Carbon Steel Block	4140
Stainless Steel Block	15-5PH S.S.
Stainless Steel Block	2205 Duplex S.S.
Plunger Type "Rokide" (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	
Packing Types Available:	
Spring-loaded, Cup-type	Style 120X
Spring-loaded, Kevlar	Style 140
Seals, Stuffing Boxes, Valve Covers	Buna-N
Bolting, High Strength, Heat Treated	Alloy Steel
Valve Types Available:	
Standard, Hardened and Lapped	17-4PH S.S.
Optional, Abrasion Resistant	17-4PH S.S.
Valve Spring Material	Inconel
Valve Seat, Liquid Passage Area	2.3 sq.in.
Avg. Liquid Velocity with 1 5/8" plungers @ 450 rpm	
thru Valves	4.4 fps
thru Suction Manifold	1.9 fps
thru Discharge Manifold	4.2 fps

MA-95H Triplex Pump



Myers **APLEX**
INDUSTRIAL PUMP DIVISION

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