

No. of plungers 3
 Maximum rated speed 500 rpm
 Stroke length.....3.00 in. 76.2 mm
 Maximum rated power.....60.0 HP 44.7 KW
 Maximum rod load4752 lb. 21.09 kN
 Weight 945 lbs.

ENGLISH UNITS

PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI.	* GALLON PER./REV.	300 RPM USGPM	350 RPM USGPM	400 RPM USGPM	450 RPM USGPM	500 RPM USGPM
3.000	4.000	672	0.2753	82.6	96.4	110.1	123.9	137.7
2.875	4.000	732	0.2582	77.5	90.4	103.3	116.2	129.1
2.750	4.000	800	0.2314	69.4	81.0	92.6	104.1	115.7
2.625	4.000	878	0.2108	63.2	73.8	84.3	94.9	105.4
2.500	3.250	968	0.1912	57.4	66.9	76.5	86.0	96.5
2.375	3.250	1073	0.1723	51.8	60.4	69.0	77.7	86.3
2.250	3.250	1195	0.1549	46.5	54.2	62.0	69.7	77.5
2.125	2.875	1340	0.1381	41.5	48.4	55.3	62.2	69.1
2.000	2.875	1513	0.1223	36.7	42.8	49.0	55.1	61.2
1.875	2.875	1721	0.1076	32.3	37.6	43.0	48.4	53.8
1.750	2.875	1976	0.0937	28.1	32.8	37.5	42.2	46.8
1.625	2.500	2291	0.0808	24.2	28.3	32.3	36.4	40.4
1.500	2.500	2689	0.0688	20.7	24.1	27.5	31.0	34.4
1.375	2.250	3200	0.0579	17.4	20.2	23.1	26.0	28.9

HP REQUIRED @ RPM** 35.9 41.9 47.8 54.0 60.0

METRIC UNITS

PLUNGER SIZE M.M	STUFFING BOX BORE MM.	MAX PRESS. BAR	* LITER PER./REV	300 RPM LPM	350 RPM LPM	400 RPM LPM	450 RPM LPM	500 RPM LPM
76.2	101.6	46.3	1.0423	312.7	364.8	416.9	469.0	521.2
73.0	101.6	50.5	0.9775	293.3	342.1	391.0	439.9	488.8
69.9	101.6	55.2	0.8761	262.8	306.6	350.4	394.3	438.1
66.7	101.6	60.5	0.7981	239.4	279.3	319.2	359.2	399.1
63.5	82.6	66.7	0.7239	217.2	253.4	289.6	325.8	362.0
60.3	82.6	74.0	0.6523	195.7	228.3	260.9	293.5	326.2
57.2	82.6	82.4	0.5865	176.0	205.3	234.6	263.9	293.3
54.0	73.0	92.4	0.5228	156.8	183.0	209.1	235.3	261.4
50.8	73.0	104.3	0.4630	138.9	162.1	185.2	208.4	231.5
47.6	73.0	118.7	0.4074	122.2	142.6	163.0	183.3	203.7
44.5	73.0	136.2	0.3547	106.4	124.2	141.9	159.6	177.4
41.3	63.5	158.0	0.3059	91.8	107.1	122.4	137.7	153.0
38.1	63.5	185.4	0.2605	79.2	91.2	104.2	117.2	130.3
34.9	57.2	220.6	0.2192	65.8	76.7	87.7	98.7	109.6

KW REQUIRED @ RPM** 26.7 31.2 35.6 40.2 44.7

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

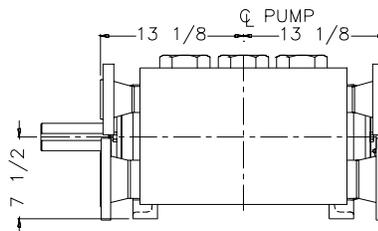
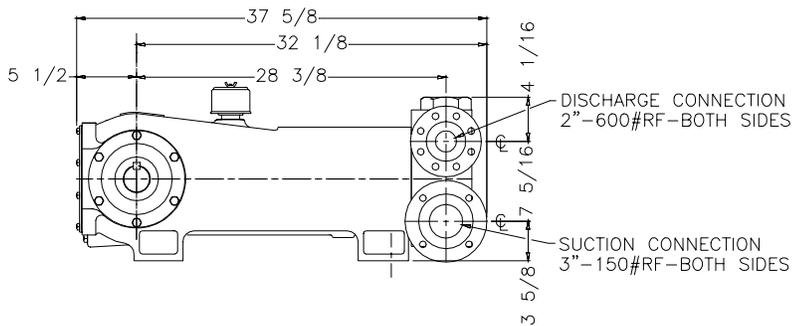
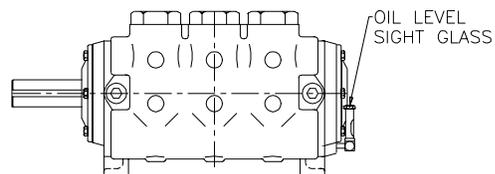
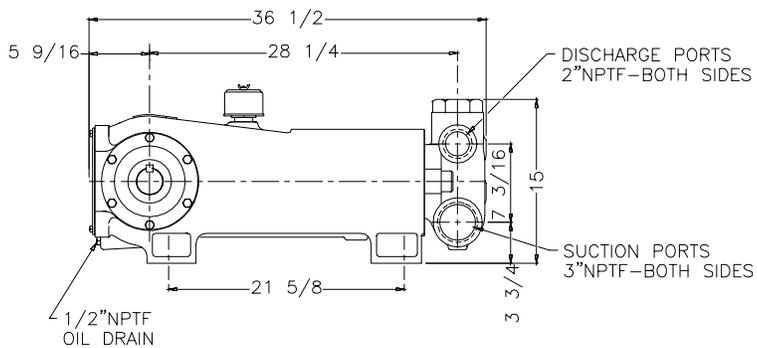
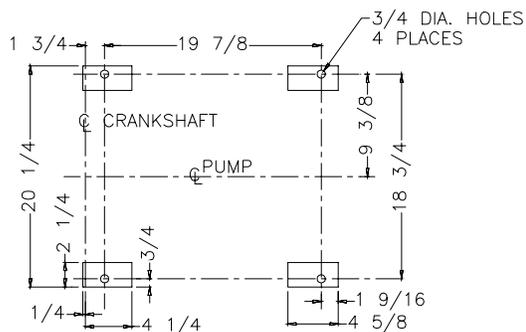
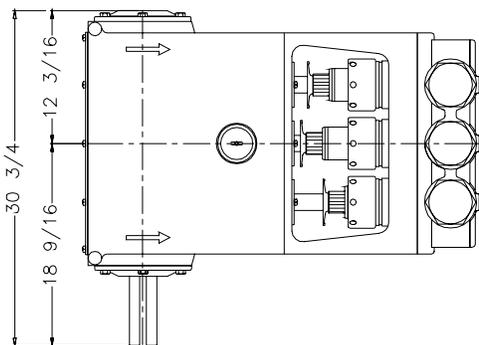
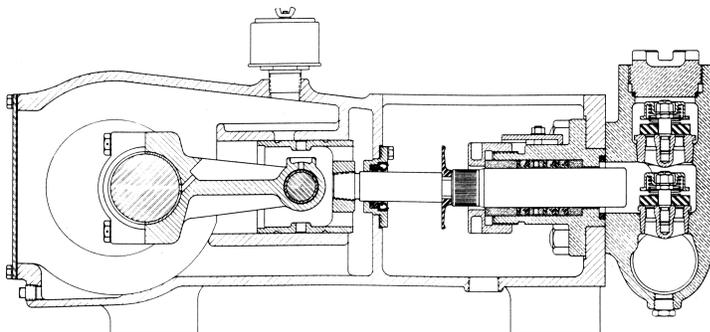
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1.542}$$

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

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

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

MA-60M Triplex Pump



ENGINEERING DATA

MA-60M Triplex Pump

POWER END ENGINEERING DATA

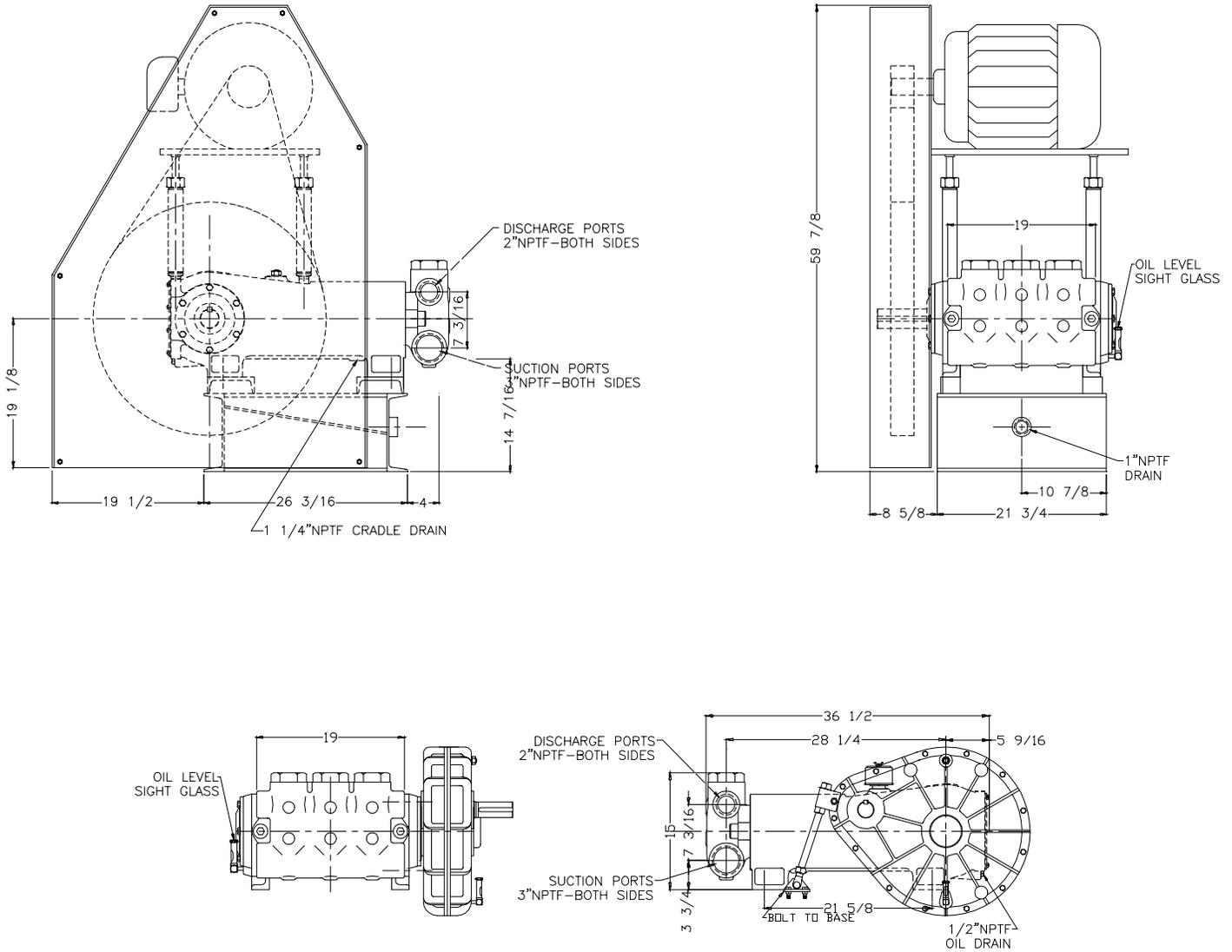
Max. Input Power @ Speed	60 HP @ 500 rpm
Rated Continuous Plunger Load	4,752 lb.
Max. Rated Continuous Speed	550 rpm
Normal Continuous Speed Range	150 to 450 rpm
Minimum Speed	100 rpm
Oil Capacity	9 U.S. Qrts
Power End Oiling System	Splash
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	4 3/4 x 5 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	2 5/8 in.
At Crankpin Bearings, Dia. x Length	3 1/2 x 3 in.
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 8620
Wrist Pin Bushing, SAE 660, dia. x width	1 5/16 x 2 in.
Main Bearings, Tapered Roller	Timken
Center Bearings, Two Precision Steel Backed	Babbitt Lined
Crankpin Bearings, Precision Automotive	Steel Backed, Babbitt-Lined
Extension (Pony) Rod Integral w/ Plungers	316 S.S.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 550 rpm	250 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	60,000+ hrs.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	3,200 psi
Hydrostatic Test	4,800 psi
Available Liquid End Materials, A.S.T.M.	
Nickel Aluminum Bronze Casting	B148-C955
Carbon Steel Block	A105
Stainless Steel Block	2205 Duplex or 316 S.S.
Ductile Iron Casting	A536 80-55-06
Plunger Type "Rokide" (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	316 S.S.
Gland, Stuffing Box	Nickel Aluminum Bronze
Packing Types Available:	
Spring-loaded, cup-type	Style 120X
Spring-loaded, Garlock	Style 892IK
Valve Cover and Cyl. Head Plugs	316 S.S.
Retainer Plates, Ductile Iron, A.S.T.M.	A536 80-55-06
Seals, Stuffing Boxes, Valve Covers, Cyl. Heads	Buna-N
Available Valve Types:	
Standard, Acetal Resin	"Delrin"
Optional, Hardened and Lapped	17-4PH S.S.
Valve Spring Material	Inconel
Valve Seat, Liquid Passage Area	2.3 sq.in.
Avg. Liquid Velocity with 2 1/4" plungers @ 550 rpm:	
thru Suction Manifold	4.1 fps
thru Discharge Manifold	10.4 fps

All drawings and specifications subject to change without notice.

MA-60M Triplex Pump



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