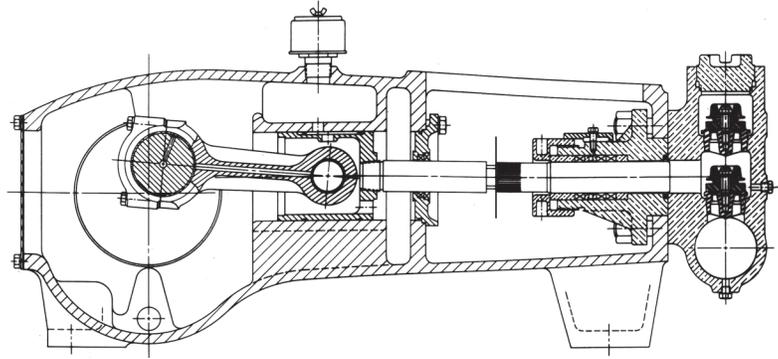


MYERS® APLEX SERIES

MA-240M-HD QUINTUPLEX PLUNGER PUMP



No. of plungers.....	5
Maximum rated speed.....	450 rpm
Stroke length.....	4.25 in. 108 mm
Maximum rated power.....	270.0 HP 201.1 KW
Maximum rod load	10,300 lb. 102.9 kN
Weight	3580 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
2.250	3.250	2585	0.3568	91.4	109.7	128.0	146.3	164.6
2.125	3.250	2900	0.3263	81.6	97.9	114.2	130.5	146.8
2.000	2.875	3271	0.2890	72.2	86.7	101.2	115.6	130.1
1.875	2.875	3500	0.2540	63.5	76.2	88.9	101.6	114.3
<i>HP REQUIRED @ RPM**</i>				152	180	214	244	270

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
57.2	82.6	178.2	1.3508	337	405	472	540	607
54.0	82.6	200.0	1.2354	308	370	432	494	555
50.8	73.0	225.5	1.0942	273	328	383	437	492
47.6	73.0	241.4	0.9617	240	288	336	384	432
<i>KW REQUIRED @ RPM**</i>				114	134	158	182	204

**Displacement based on 100% Volumetric Efficiency **Power based on 90% Mechanical Efficiency*

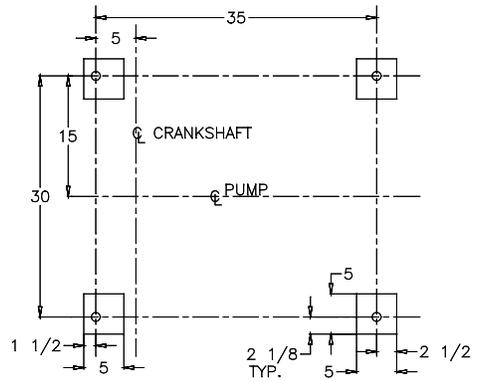
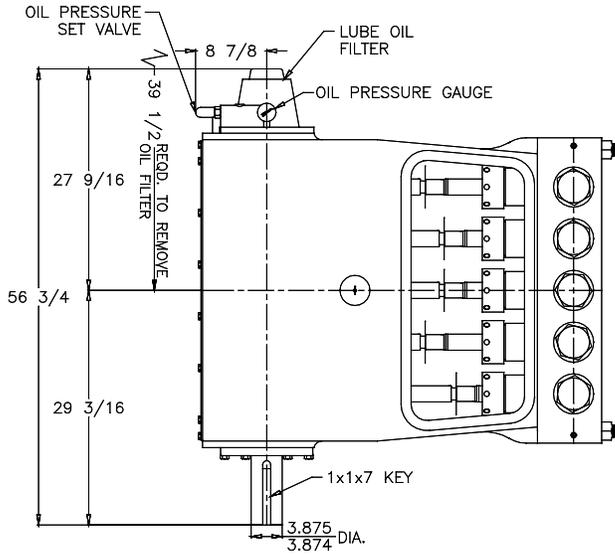
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

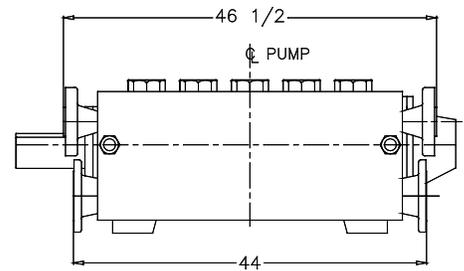
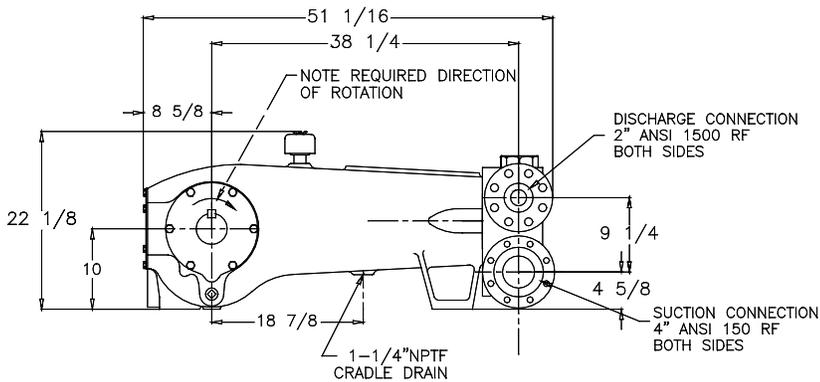
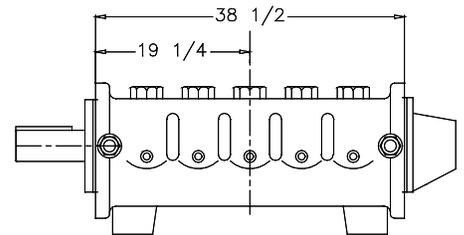
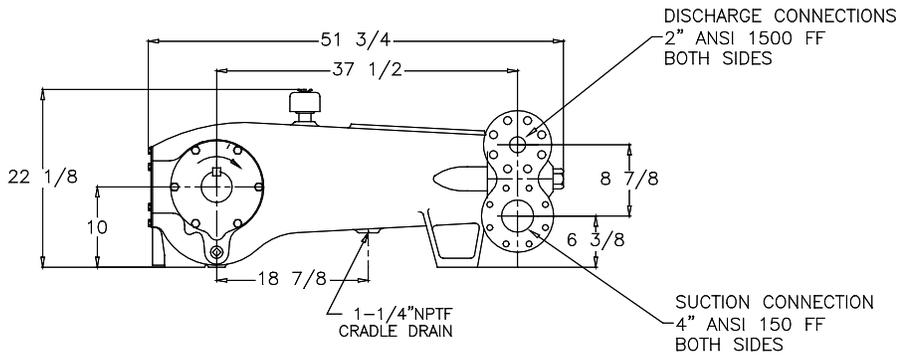
$$PUMP \text{ RPM} = \frac{USGPM \text{ Desired}}{USGPM \text{ per Revolution of Selected Plunger}}$$

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

MA-240M-HD Quintuplex Pump



FOUNDATION PLAN



ENGINEERING DATA

MA-240M-HD Quintuplex Pump

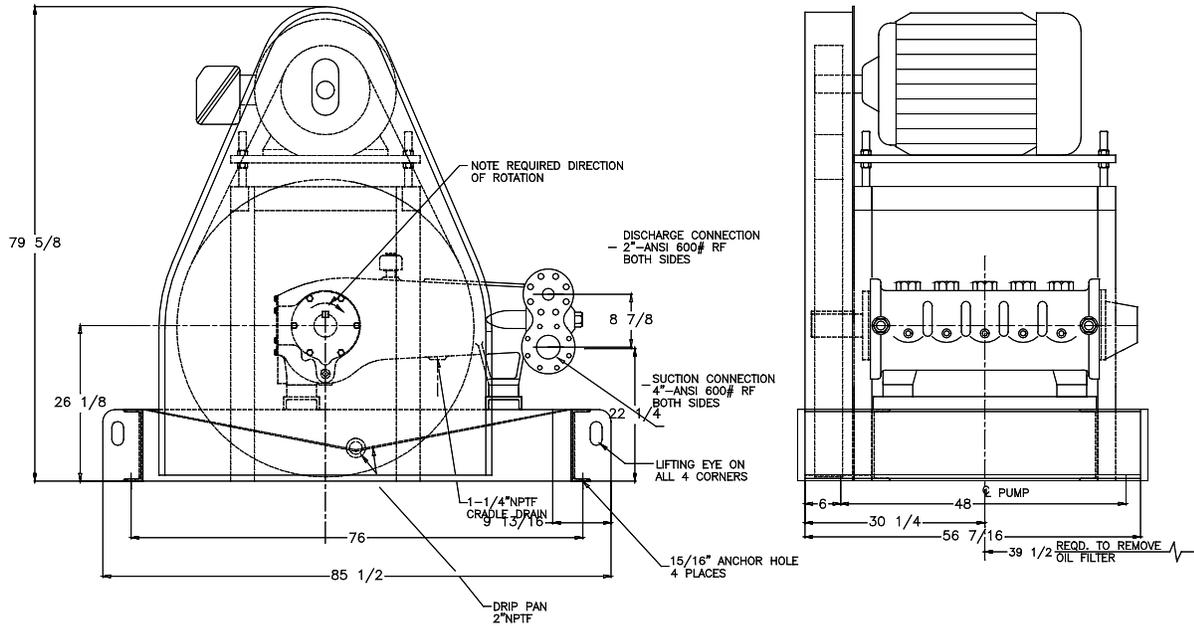
POWER END ENGINEERING DATA

Max. Input HP @ Speed	270 @ 450 RPM
Rated Continuous Plunger Load	10,300 lb.
Max. Rated Continuous Speed	450 RPM
Normal Continuous Speed Range	150 to 420 RPM
Minimum Speed	100 RPM
Oil Capacity	64 U.S. Qrts
Power End Oiling System	Pressure Lubrication System
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	5 3/4 x 6 3/16 inches
Crankshaft	Forged and Nitrided Chrome Moly Steel
Crankshaft Diameters:	
At Tapered Roller Bearings	4 in.
At Crankpin Bearings, Dia. x Length	4 x 3 inches
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 8620
Main Bearings, Tapered Roller	Timken®
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 @ 450 rpm	300 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	65,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	3,237 psi
Hydrostatic Test	4,855 psi
Available Liquid End Materials, A.S.T.M.	
Stainless Steel Block	Various Grades
Nickel Aluminum Bronze Casting	B148-C955
Forged Steel Block	A105
Plunger Type "Rokide" (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	
Nickel Aluminum Bronze	B148-C954
Carbon Steel	1020
Packing Types Available	
Gland-loaded, Non-Adjustable	Style 838
Spring-loaded, Braided Teflon & Kevlar	Style 140
Spring-loaded, cup-type	Style 120X
Spring-loaded, Garlock	Style 892IK
Seals, Stuffing Boxes, Valve Covers, Cyl. Heads	Buna-N
Disc Valve Types	
Regularly Frulnished, acetal resin	Delrin®
Optional, Hardened and Lapped,	17-4 PH S.S.
Valve Spring material	Inconel®
Valve Seat, Liquid Passage Areas	2.35 sq.in.
Avg. Liquid Velocity with 2 1/4" plungers @ 450 rpm	
thru Valves	9.0 fps
thru Suction Manifold	4.19 fps
thru Discharge Manifold	16.7 fps

MA-240M-HD Quintuplex Pump



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