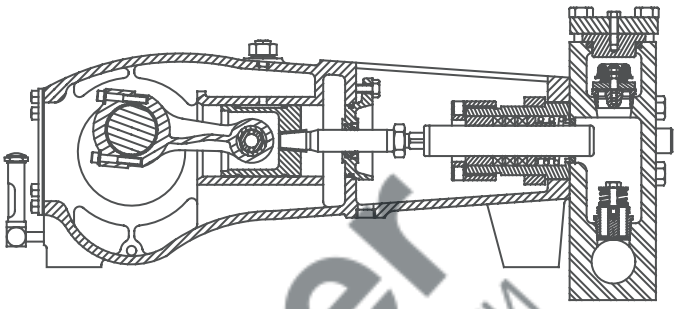
PENTAIR

MYERS® APLEX SERIES

MA-25H

TRIPLEX PLUNGER PUMP



No. of plungers..... 3
Maximum rated speed..... 600 rpm
Stroke length..... 2.00 in. 50.8 mm
Maximum rated power..... 25.0 HP 18.6 KW
Maximum rod load ..... 2475 lb. 11.0 kN
Weight ..... 455 lbs.

ENGLISH UNITS								
PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI	*GALLON PER./REV	200 RPM USGPM	300 RPM USGPM	400 RPM USGPM	500 RPM USGPM	600 RPM USGPM
.875	1.500	4145	.0156	3.1	4.7	6.2	7.8	9.4
.750	1.500	5000	.0115	2.3	3.5	4.6	5.8	6.9
*HP REQUIRED @ RPM***				8.3	12.7	16.6	20.9	25.0

METRIC UNITS								
PLUNGER SIZE M.M	STUFFING BOX BORE MM.	MAX PRESS. BAR	*LITER PER./ REV	200 RPM LPM	300 RPM LPM	400 RPM LPM	500 RPM LPM	600 RPM LPM
22.2	38.1	283.7	0.0591	11.8	17.7	23.6	39.6	35.5
19.1	38.1	344.7	0.0435	8.7	13.1	17.4	21.8	26.1
*KW REQUIRED @ RPM***				6.3	9.4	12.5	15.5	18.6

**Displacement based on 100% Volumetric Efficiency*

***Power based on 90% Mechanical Efficiency*

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

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

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

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

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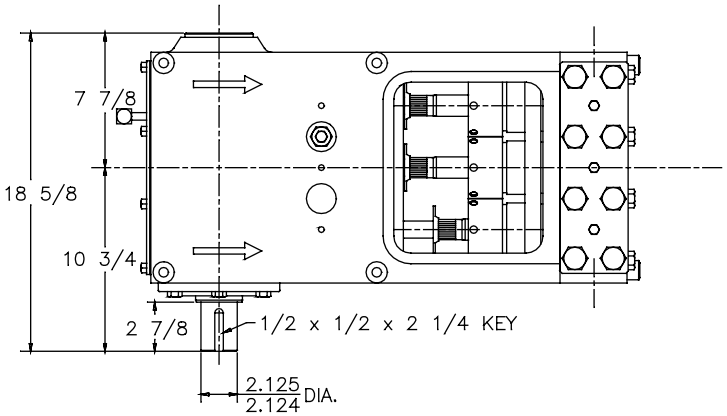

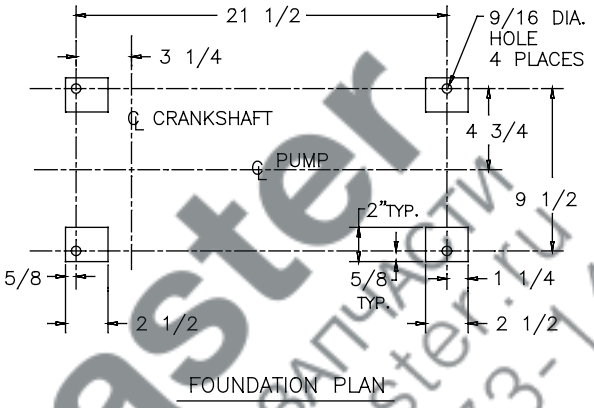

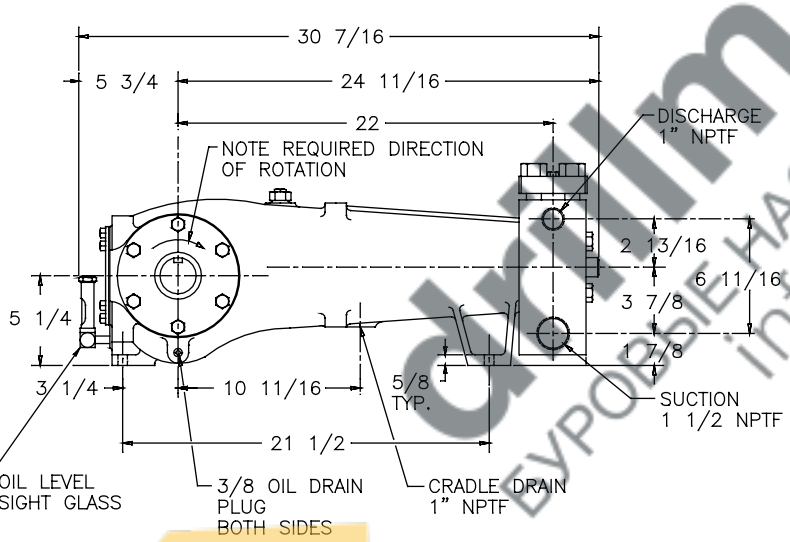

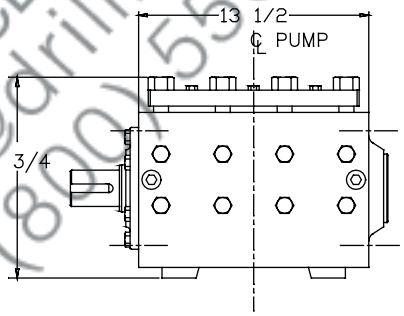

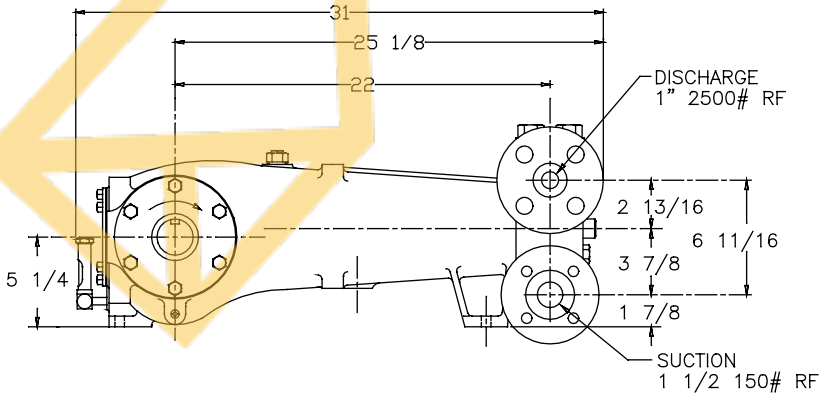

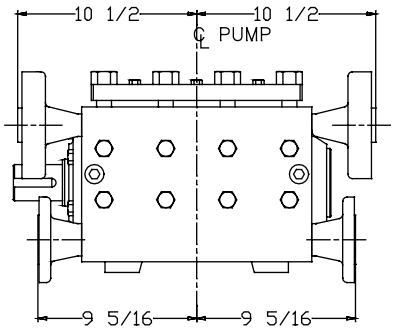

ENGINEERING DATA

MA-25H Triplex Pump

POWER END ENGINEERING DATA

Max. Input HP @ Speed	25 HP @ 600 rpm
Rated Continuous Plunger Load	2,475 lb.
Normal Continuous Speed Range	150 to 575 rpm
Minimum Speed	100 rpm
Oil Capacity	5 U.S. Qrts
Power End Oiling System	Splash & Scoop
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	3 1/4 x 3 5/8 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	3.15 in.
At Crankpin Bearings	2.25 in.
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 8620
Main Bearings, Tapered Roller	Timken®
Crankpin Bearings, Precision Automotive	Babbitt-Lined
Extension (Pony) Rod, Integral w/ Plungers	316 S.S.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 600 rpm	150 fpm
Minimum Life Expectancy, Main Bearings, L_{10}	50,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	5,000 psi
Hydrostatic Test	7,500 psi
Liquid End Materials, A.S.T.M.	
Stainless Steel Block	15.5PH
Carbon Steel Block	4140
Plunger Type “Rokide” (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	
Stainless Steel, Hardened	17-4PH
Carbon Steel	1020
Packing Types Available	
Spring-loaded, Braided Teflon & Kevlar	Style 140
Spring-loaded, Cup-type	Style 120X
Retainer Plates, Steel, A.S.T.M.	A36
Seals, Stuffing Boxes, Valve Covers	Buna-N
Bolting, High Strength, Heat Treated	Alloy Steel
Valve Types Available	
Standard, Disc Type,Hardened and Lapped	17-4PH S.S.
Optional, Dual Stem Guided	17-4PH S.S.
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Area	
Disc Valves	.57 sq.in.
Dual Stem Guided Valves	.59 sq.in.
Avg. Liquid Velocity with 7/8” plungers @ 600 rpm	
thru Disc Valves	3.5 fps
thru Dual Stem Guided Valves	3.4 fps
thru Suction Manifold	1.3 fps
thru Discharge Manifold	5.8 fps

All drawings and specifications subject to change without notice.

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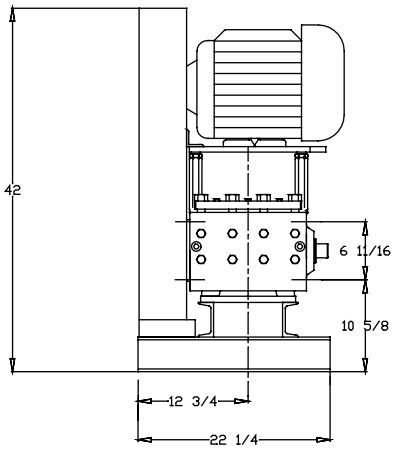

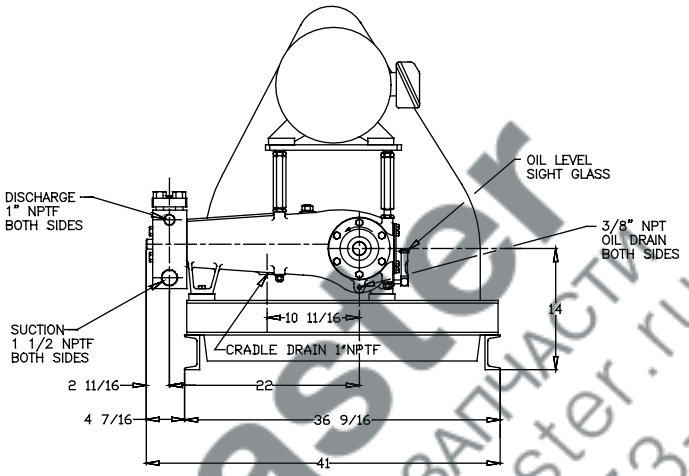

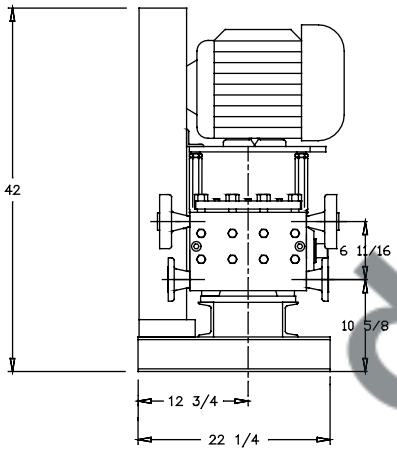

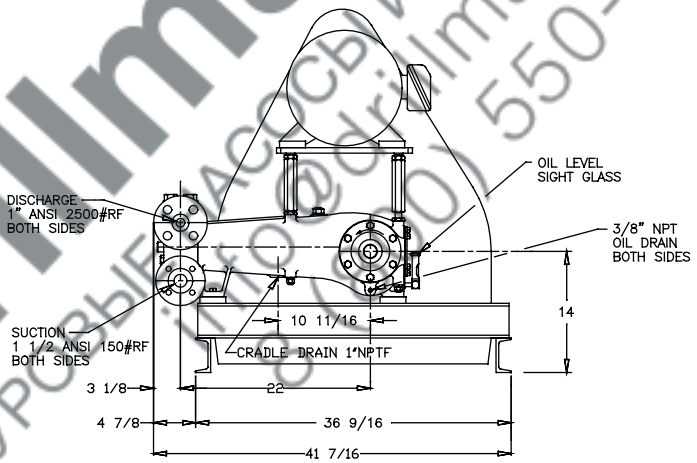

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