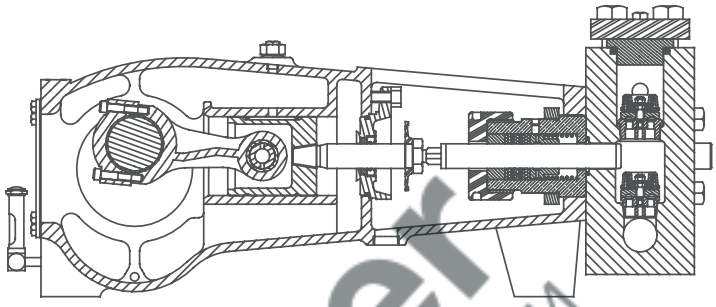
PENTAIR

MYERS® APLEX SERIES

MA-40H

TRIPLEX PLUNGER PUMP



No. of plungers..... 3
Maximum rated speed.....550 rpm
Stroke length.....2.5 in. 63.5 mm
Maximum rated power.....40.0 HP 29.8 KW
Maximum rod load .....3456 lb. 15.3 kN
Weight .....845 lbs.

ENGLISH UNITS **MA-40H**

PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI	* GALLON PER/REV.	200 RPM US GPM	250 RPM US GPM	350 RPM US GPM	450 RPM US GPM	550 RPM US GPM
1.00	1.750	4392	0.026	5.1	6.4	8.9	11.5	14.0
.875	1.500	5000	0.020	3.9	4.9	6.8	8.8	10.7
*HP REQUIRED @ RPM***				14.5	18.2	25.4	32.7	40.0

ENGLISH UNITS **MA-40H**

PLUNGER SIZE MM.	STUFFING BOX BORE MM.	MAX PRESS. BAR	* LITER PER/ REV.	200 RPM LPM	250 RPM LPM	350 RPM LPM	450 RPM LPM	550 RPM LPM
25.4	44.5	320.8	0.097	19.3	24.1	33.8	43.4	53.1
22.2	38.1	344.7	0.074	14.8	18.5	25.8	33.2	40.6
*KW REQUIRED @ RPM***				10.8	13.6	18.9	24.4	29.8

**Displacement based on 100% Volumetric Efficiency*

***Power based on 90% Mechanical Efficiency*

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

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

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

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

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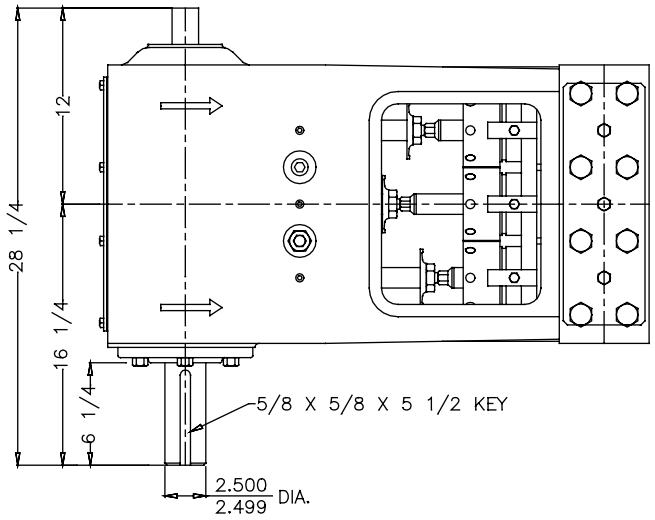

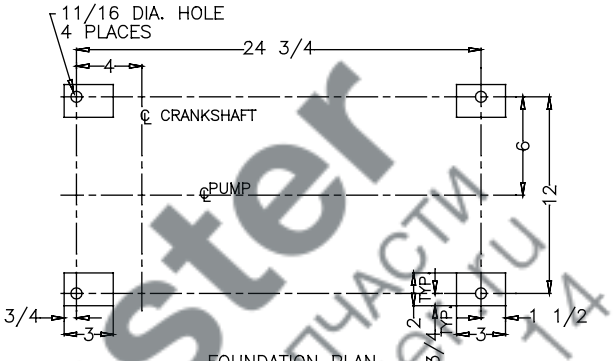

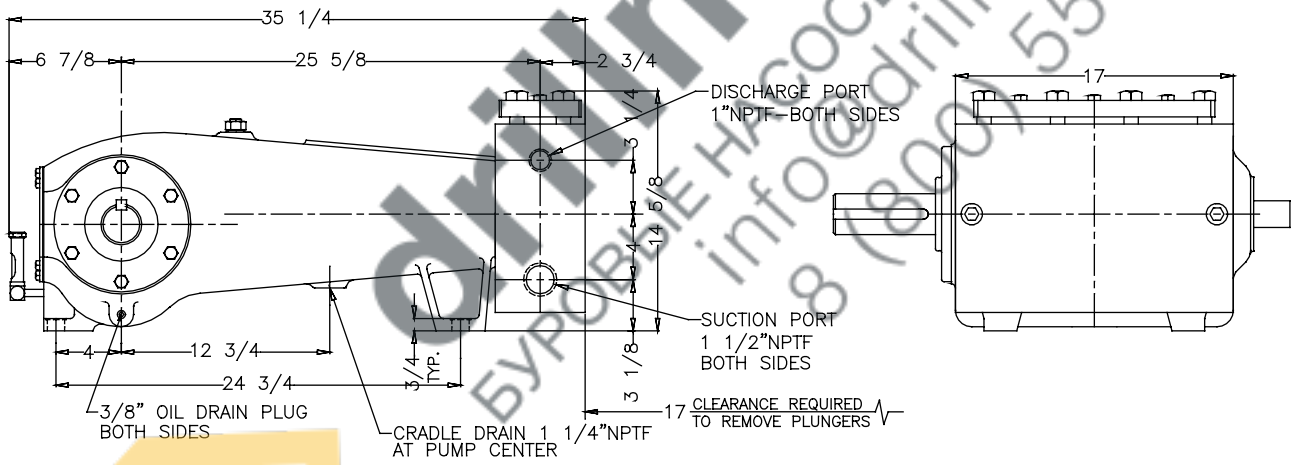

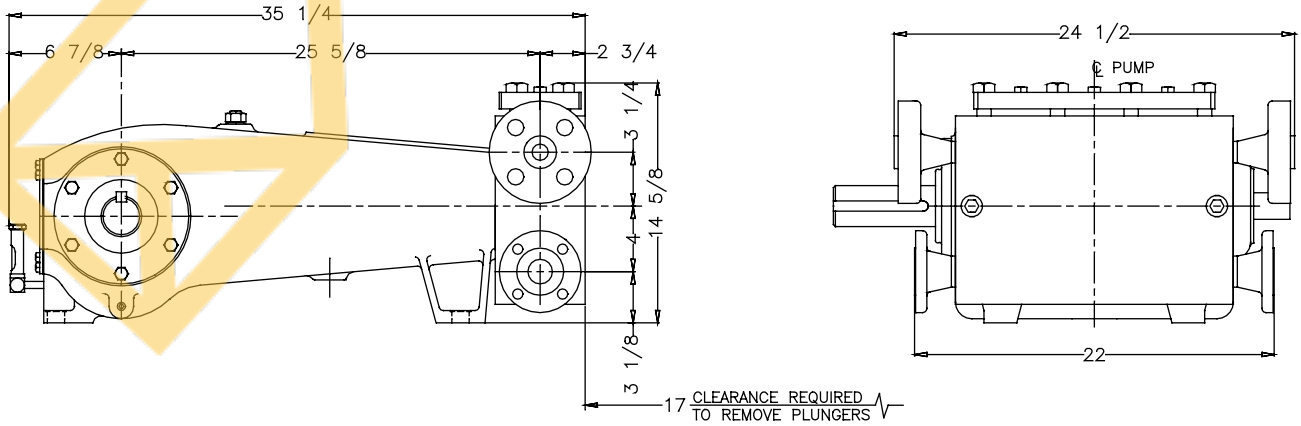

ENGINEERING DATA

MA-40H Triplex Pump

POWER END ENGINEERING DATA

Max. Input Power @ Speed	40 HP@ 550 rpm
Rated Continuous Plunger Load	3,456 lb.
Max. Rated Continuous Speed	550 rpm
Normal Continuous Speed Range	150 to 500 rpm
Minimum Speed	100 rpm
Oil Capacity	8 U.S. Qrts
Power End Oiling System	Splash & Scoop
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	4 x 4 1/2 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	2 3/4 in.
At Crankpin Bearings, Dia. x Length	2 3/4 x 2 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®
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	229 fpm
Minimum Life Expectancy, Main Bearings, L_{10}	100,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	5,000 psi
Hydrostatic Test	7,500 psi
Available Liquid End Materials, A.S.T.M.	
Stainless Steel Block	15-5PH
Forged Steel Block	4140 or A105
Plunger Type “Rokide” (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	
Carbon Steel	1020
Stainless Steel, Hardened	17-4PH
Packing Types Available	
Spring-loaded, Braded Teflon & Kevlar	Style 140
Spring-loaded, cup-type	Style 120X
Valve Cover and Cyl. Head Plugs	416 S.S.
Retainer Plates, Ductile Iron, A.S.T.M.	A36
Seals, Stuffing Boxes, Valve Covers, Cyl. Heads	Buna-N
Valve Types:	
Disc Valves	17-4PH
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Areas	1.4 sq.in.
Avg. Liquid Velocity with 1 1/4” plungers @ 550 rpm	
thru Valves	3.348 fps
thru Suction Manifold	2.91 fps
thru Discharge Manifold	13.56 fps

All drawings and specifications subject to change without notice.

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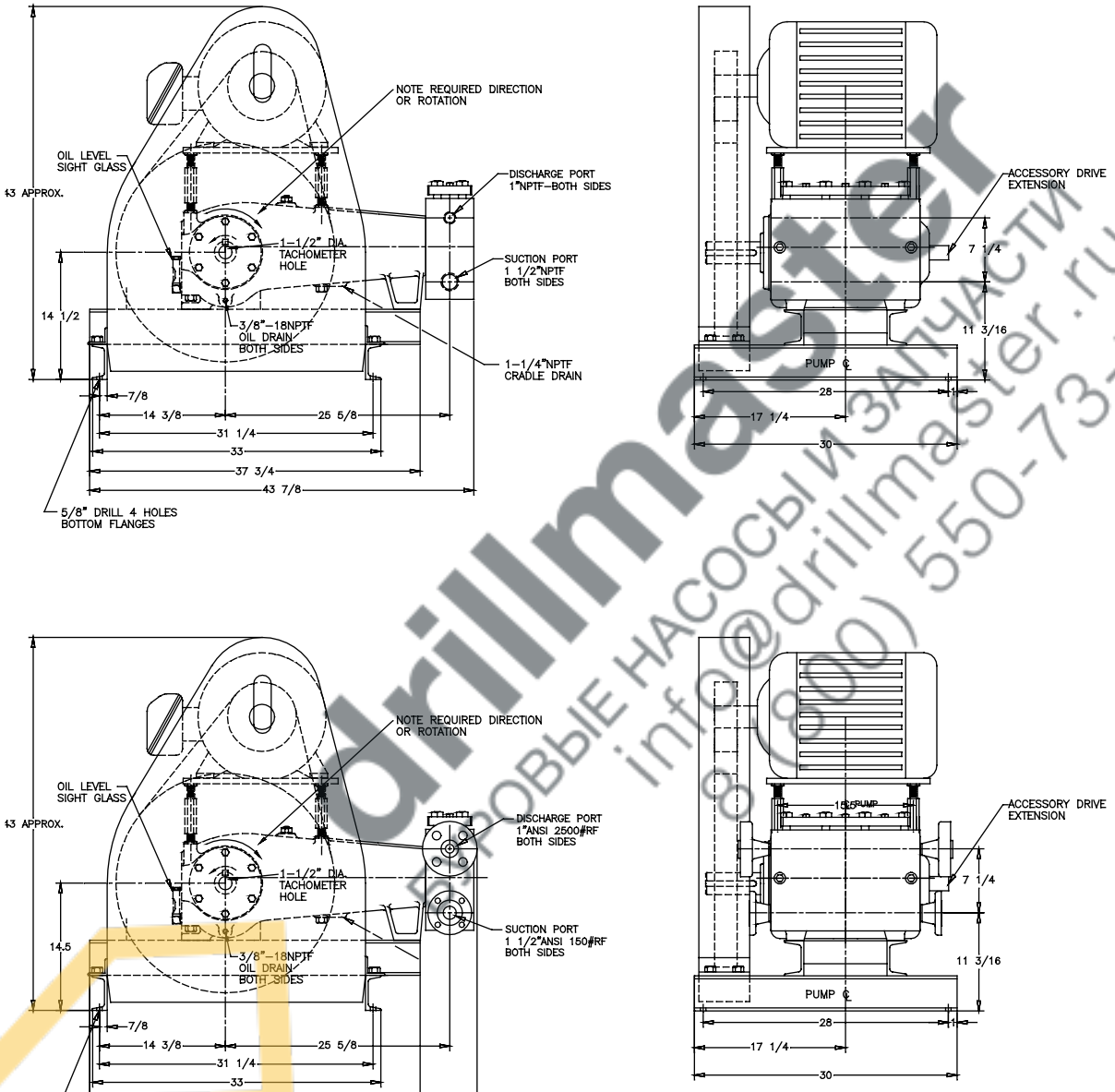

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