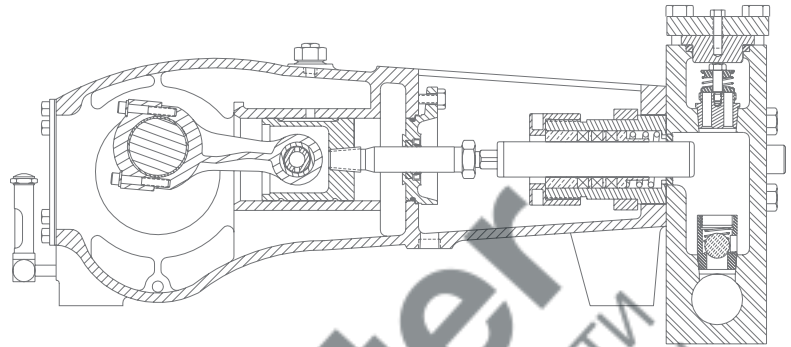




MYERS® APLEX SERIES

MA-15H

TRIPLEX PLUNGER PUMP



No. of plungers..... 3
Maximum rated speed..... 650 rpm
Stroke length..... 1.50 in. 38.1 mm
Maximum rated power..... 15.0 HP 11.2 KW
Maximum rod load 1828 lb. 8.04 kN
Weight..... 255 lbs.

ENGLISH UNITS

PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI	*GALLON PER./REV.	250 RPM USGPM	350 RPM USGPM	450 RPM USGPM	550 RPM USGPM	650 RPM USGPM
.750	1.500	5000	.00860	2.2	3.0	3.9	4.7	5.6
<i>HP REQUIRED @ RPM**</i>				5.9	8.3	10.4	12.6	15.0

METRIC UNITS

PLUNGER SIZE M.M	STUFFING BOX BORE M.M	MAX PRESS. BAR	* LITER PER./REV	250 RPM LPM	350 RPM LPM	450 RPM LPM	550 RPM LPM	650 RPM LPM
19.0	38.1	285.3	0.0325	8.1	11.4	14.6	17.9	21.1
<i>KW REQUIRED @ RPM**</i>				4.3	6.2	7.7	9.4	11.2

**Displacement based on 100% Volumetric Efficiency*

***Power based on 90% Mechanical Efficiency*

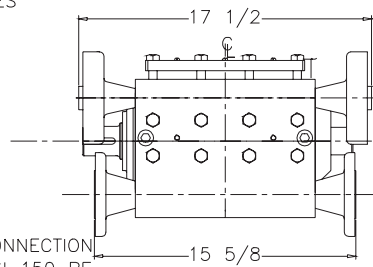
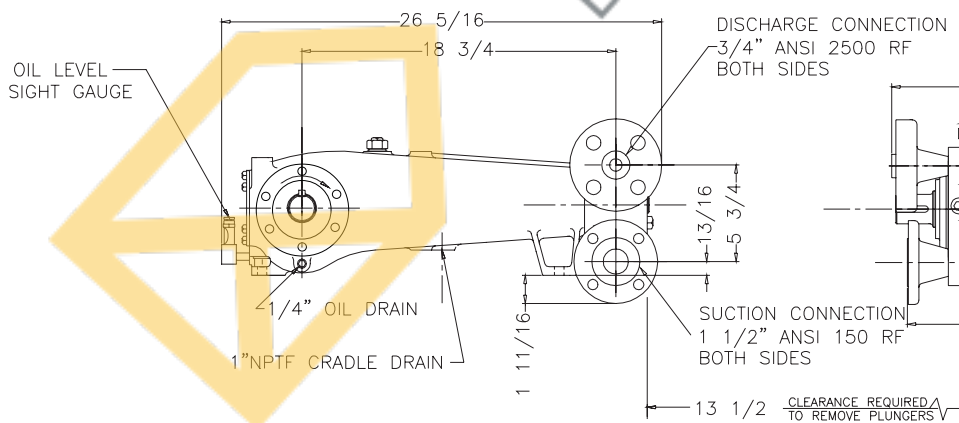
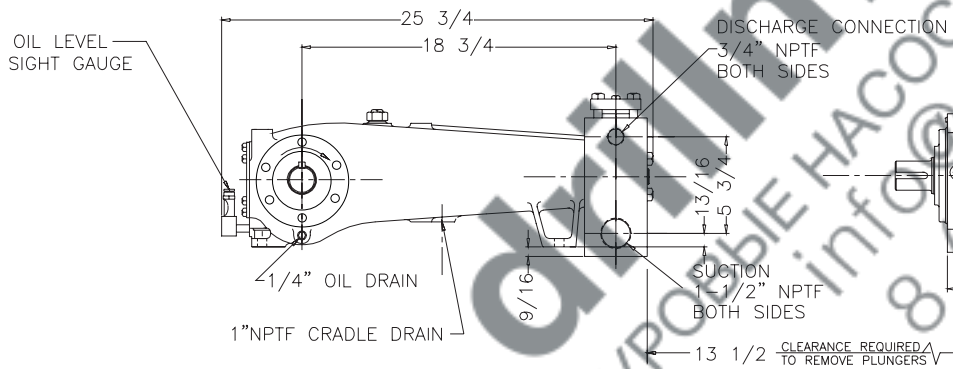
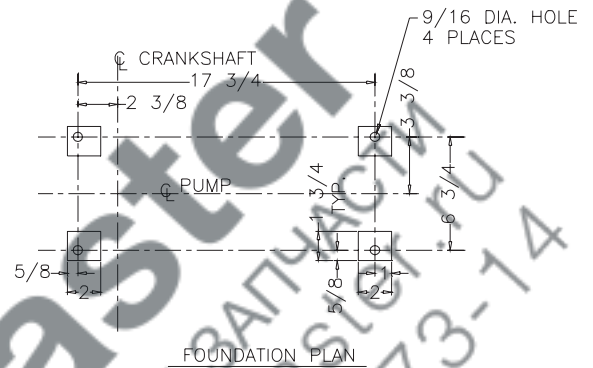
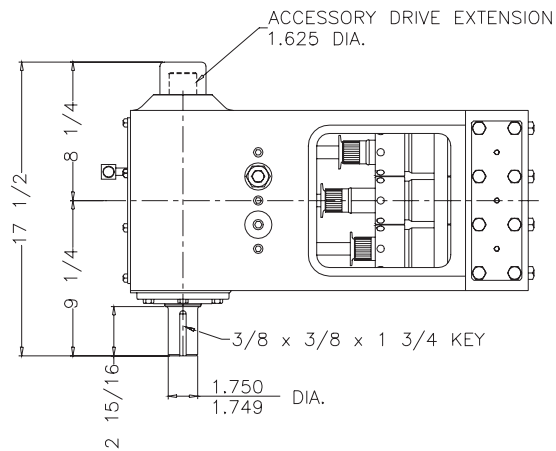
$$\text{IHP} = \frac{\text{USGPM} \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

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

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

MA-15H Triplex Pump



ENGINEERING DATA

MA-15H Triplex Pump

POWER END ENGINEERING DATA

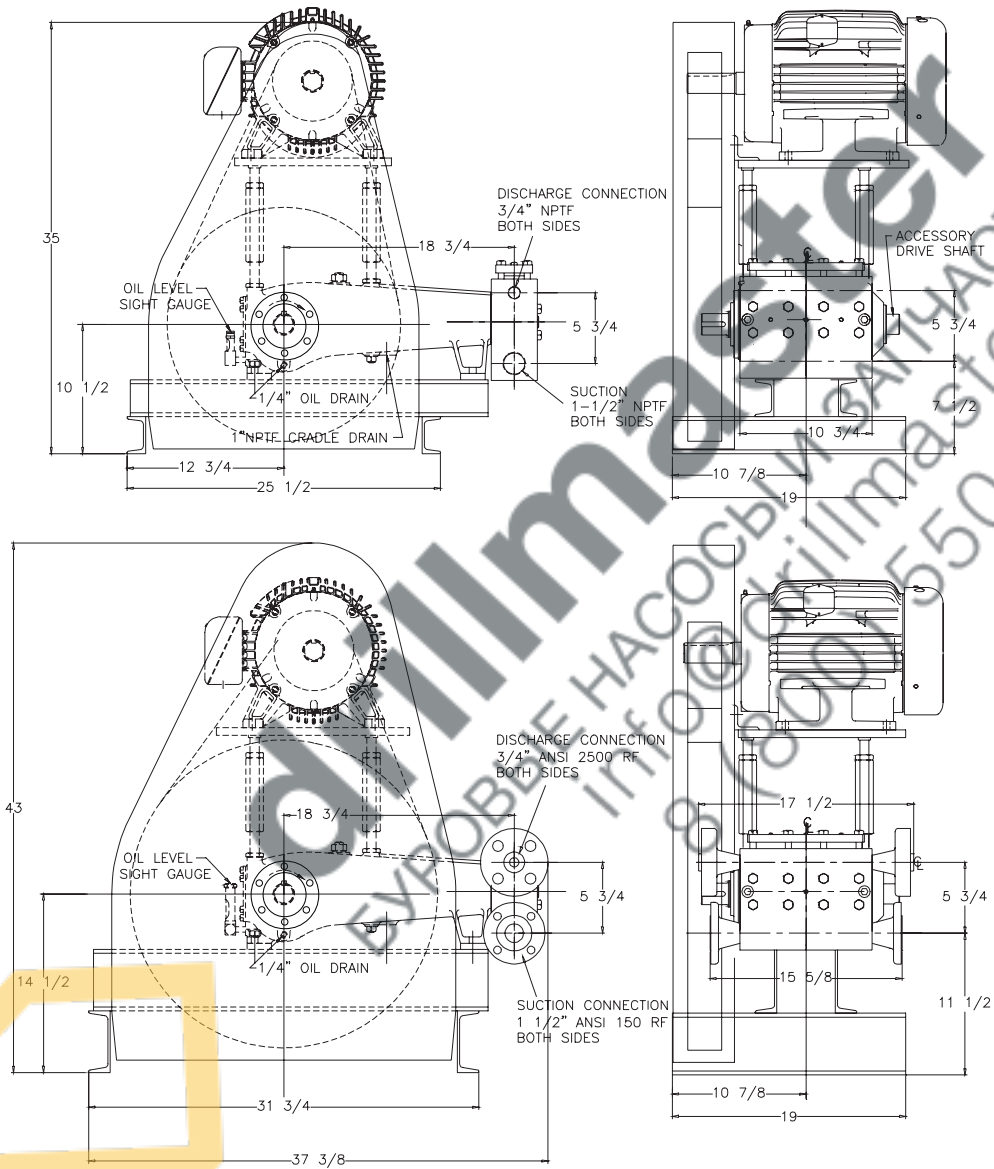
Max. Input HP @ Speed	15 HP @ 650 rpm
Rated Continuous Plunger Load	1,828 lb.
Normal Continuous Speed Range	150 to 600 rpm
Minimum Speed	100 rpm
Oil Capacity	2 U.S. Qrts
Power End Oiling System	Splash & Scoop
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	2 5/8 x 2 7/8 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	2.167 in.
At Crankpin Bearings	1.750 x 1.063 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	60,000+ 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	Various Grades
Carbon Steel Block	4140
Plunger Type "Rokide" (Chromium Oxide-Coated)	316 S.S.
Stuffing Boxes, Field-Removable and Replaceable	
Stainless Steel, Hardened	17-4PH S.S.
Carbon Steel	1020
Packing Types Available:	
Spring-loaded, Braided Teflon & Kevlar	Style 140
Spring-loaded, Cup-type	Style 120X
Valve Cover and Cyl. Head Plugs	416 or 316 S.S.
Retainer Plates, Steel, A.S.T.M.	Ductile Iron 80-55-06
Seals, Stuffing Boxes, Valve Covers	Buna-N
Bolting, High Strength, Heat Treated	Alloy Steel
Valve Types Available:	
Dual Stem Guided	17-4PH S.S.
Disc Type	17-4PH S.S.
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Area	
Dual Stem Guided	.57 sq.in.
Disc Type	.46 sq.in.
Avg. Liquid Velocity with 3/4" plunger @ 650 rpm	
thru Dual Stem Guided Valves	9.04 fps
thru Disc Type Valves	11.2 fps
thru Suction Manifold	.9 fps
thru Discharge Manifold	4.7 fps

All drawings and specifications subject to change without notice.

MA-15H Triplex Pump



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