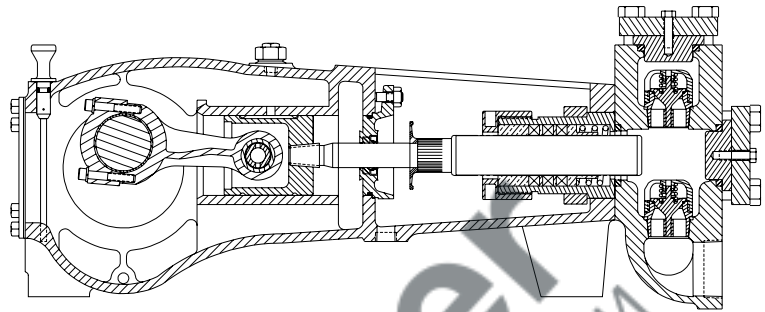




MYERS® APLEX SERIES

SC-30 TRIPLEX PUMP



Intermittent Duty Only

No. of plungers 3
Maximum rated speed 650 rpm
Stroke length 1.75 in. 44.5 mm
Maximum rated power 40 HP 30 KW
Maximum rod load 4193 lb. 18.6 kN
Weight 225 lbs.

Piston only →	ENGLISH UNITS							SC-30	
	PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI.	* GALLON PER/REV.	250 RPM US GPM	350 RPM US GPM	450 RPM US GPM	550 RPM US GPM	650 RPM US GPM
	1.750	PISTON	1743	.0546	13.6	19.1	24.6	30.0	35.5
	1.625	2.125	2022	.0471	11.8	16.5	21.2	25.9	30.6
	1.500	2.125	2373	.0401	10.0	14.1	18.1	22.1	26.1
					</				

METRIC UNITS								SC-30	
PLUNGER SIZE MM.	STUFFING BOX BORE MM.	MAX PRESS.BAR	* LITER PER/REV.	250 RPM LPM	350 RPM LPM	450 RPM LPM	550 RPM LPM	650 RPM LPM	
Piston only	44.4	PISTON	120.1	.2070	51.4	72.3	93.1	113.5	134.3
	41.3	54.0	139.4	.1785	44.6	62.5	80.3	98.2	116.0
	38.1	54.0	163.6	.1520	38.0	53.2	68.4	83.6	98.8
	34.9	54.0	194.7	.1278	32.0	44.7	57.5	70.3	82.6
	31.8	54.0	235.6	.1056	26.4	36.8	47.5	58.1	68.6
KW REQUIRED @ RPM**				11.4	16.0	20.7	25.2	29.9	

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

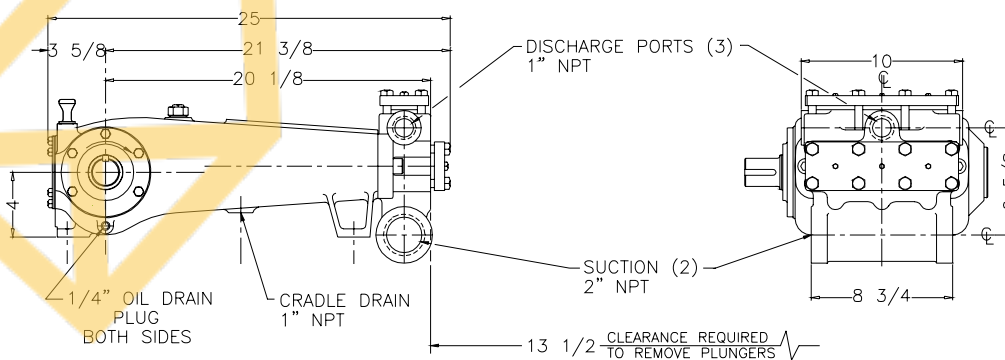
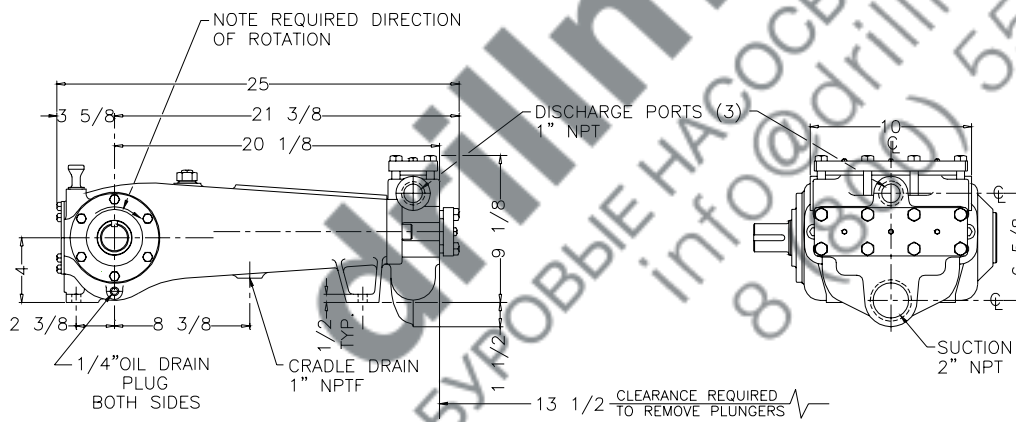
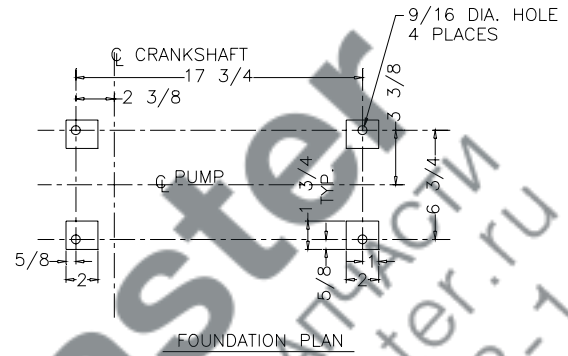
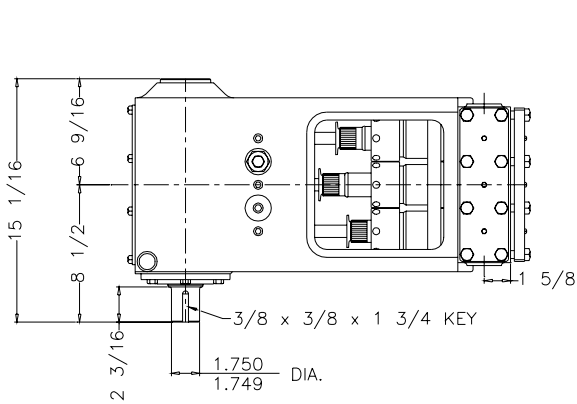
$$\text{IHP} = \frac{\text{USGPM} \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

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

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

SC-30 Triplex Pump



ENGINEERING DATA

SC-30 Triplex Pump

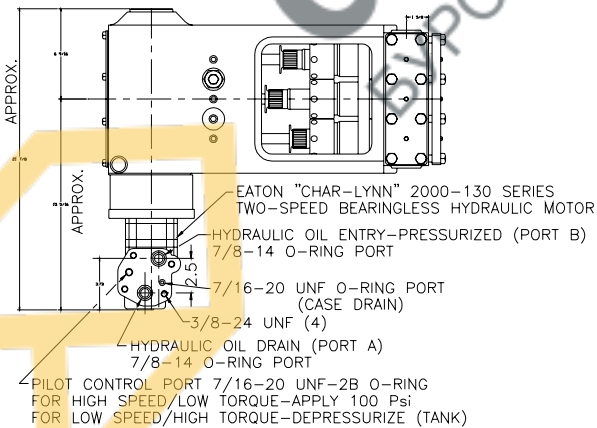
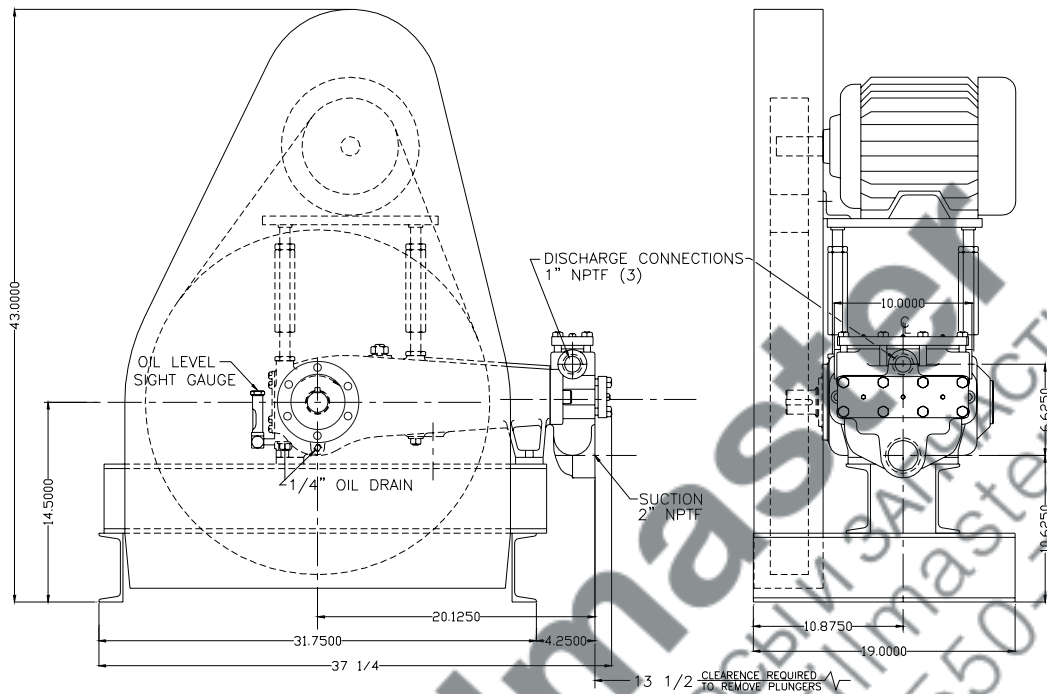
POWER END ENGINEERING DATA

Max. Input Power @ Speed	40 HP @ 650 rpm
Rated Continuous Rod Load	4,193 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, Dia. x Length	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.ST.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 600 rpm	189 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	10,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	3,500 psi
Hydrostatic Test	5,250 psi
Liquid End Materials, A.S.T.M.	
Ductile Iron.....	A536 80-55-06
Nickel Aluminum Bronze	B148 C955
Carbon Steel.....	A516 Gr.70
Stainless Steel.....	316 or 2205 S.ST.
Plunger Type Rokide® Stainless Steel, (Chromium Oxide-Coated)	316 S.ST.
Stuffing boxes, Field-Removable and Replaceable, 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 892LK
Valve Cover and Cyl. Head Plugs	316 S.ST.
Retainer Plates, Steel, A.S.T.M.	A36
Seals, Stuffing Boxes, Valve Covers	Buna-N
Valve Type, Double Stem-Guided	17-4PH S.ST.
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Area	573 sq.in.
Avg. Liquid Velocity, with 1 5/8" Plungers @ 650 RPM	
thru Valves.....	11.5 fps
thru Suction Manifold.....	2.5 fps
thru Discharge Manifold	11.6 fps

SC-30 Triplex Pump



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