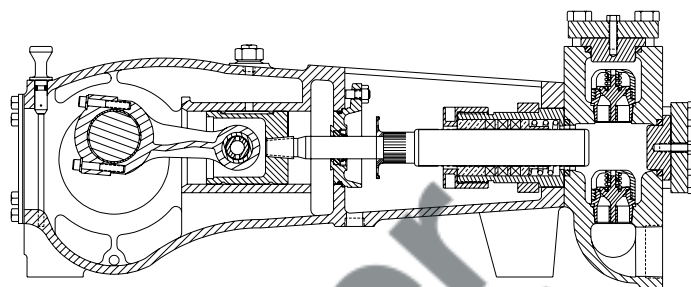




MYERS® APLEX SERIES

SC-65

TRIPLEX PLUNGER PUMP



Intermittent Duty Only

No. of plungers	3
Maximum rated speed	550 rpm
Stroke length	2.75 in. 69.85 mm
Maximum rated power	92 HP 68.5 KW
Maximum rod load	7216 lb 32.04 kN
Weight	750 lbs.

ENGLISH UNITS

SC-65

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
2.250	2.875	1815	0.1420	28.4	35.5	49.7	63.9	78.1
2.125	2.875	2035	0.1267	25.3	31.7	44.3	57.0	69.7
2.000	2.875	2297	0.1122	22.4	28.1	39.3	50.5	61.7
1.875	2.875	2613	0.0986	19.7	24.7	34.5	44.4	54.2
1.750	2.875	3000	0.0859	17.2	21.5	30.1	38.7	47.2
HP REQUIRED @ RPM**				33.4	41.8	58.5	75.2	92.0

METRIC UNITS

SC-65

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
57.2	73.0	125.1	0.5375	107.5	134.4	188.1	241.9	295.6
54.0	73.0	140.3	0.4796	95.9	119.9	167.9	215.8	263.8
50.8	73.0	158.4	0.4247	84.9	106.2	148.6	191.1	233.6
47.6	73.0	180.2	0.3732	74.6	93.3	130.6	167.9	205.3
44.5	73.0	206.8	0.3252	65.0	81.3	113.8	146.3	178.9
KW REQUIRED @ RPM**				24.9	31.1	43.6	56.1	68.6

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

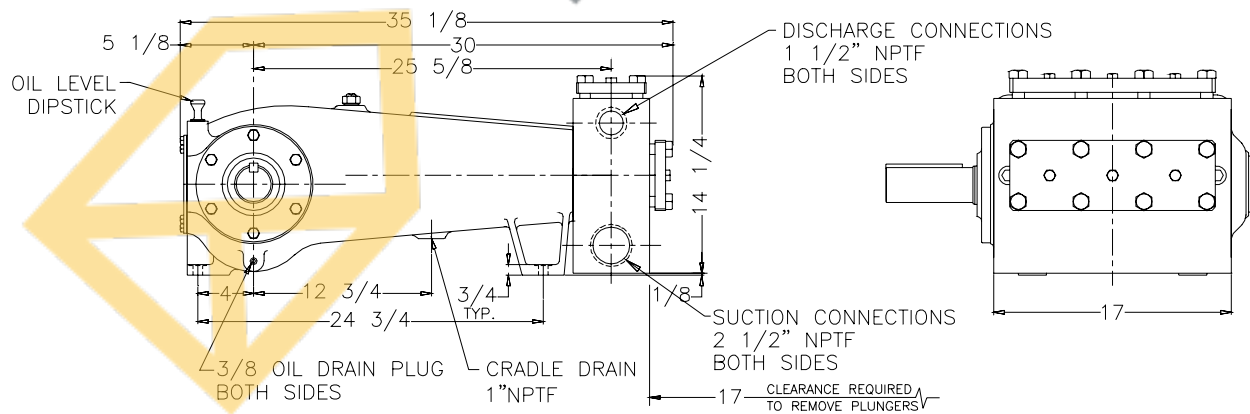
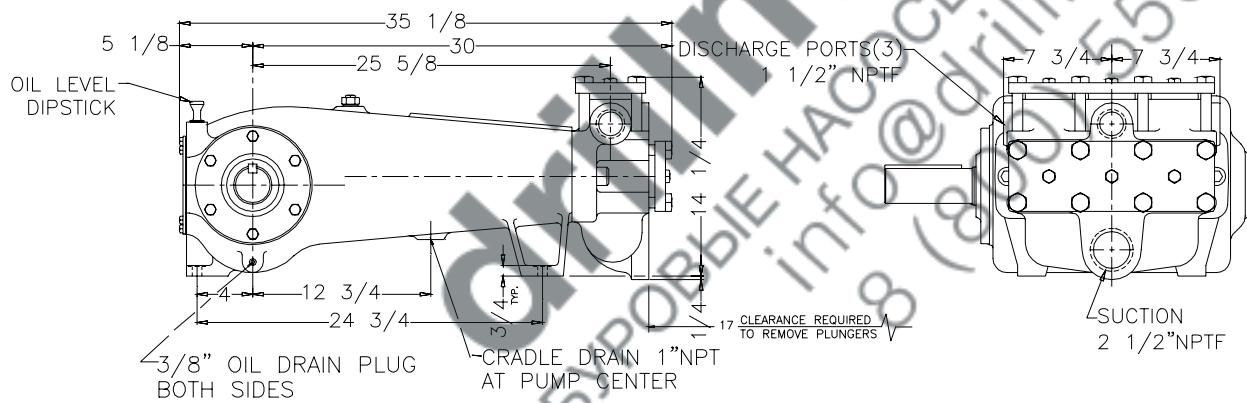
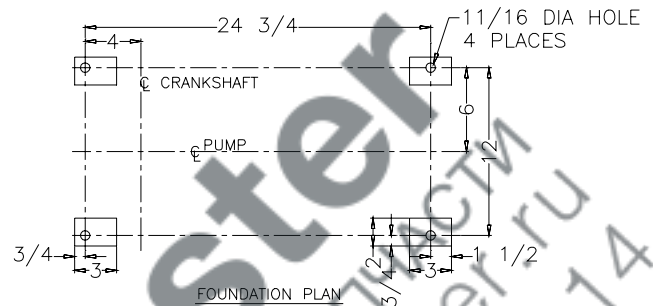
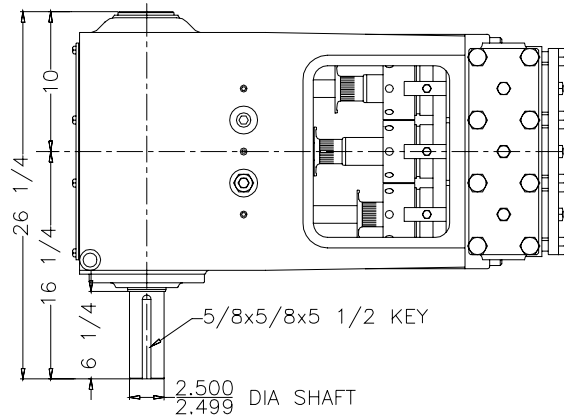
$$\text{IHP} = \frac{\text{USGPM} \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

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

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

SC-65 Triplex Pump



ENGINEERING DATA

SC-65 Triplex Pump

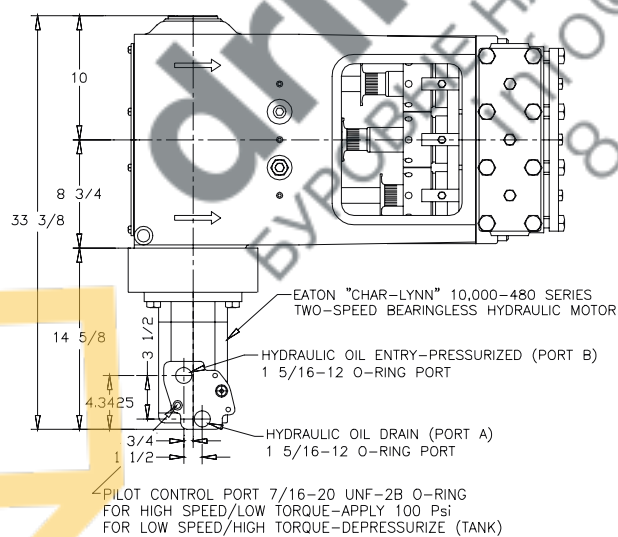
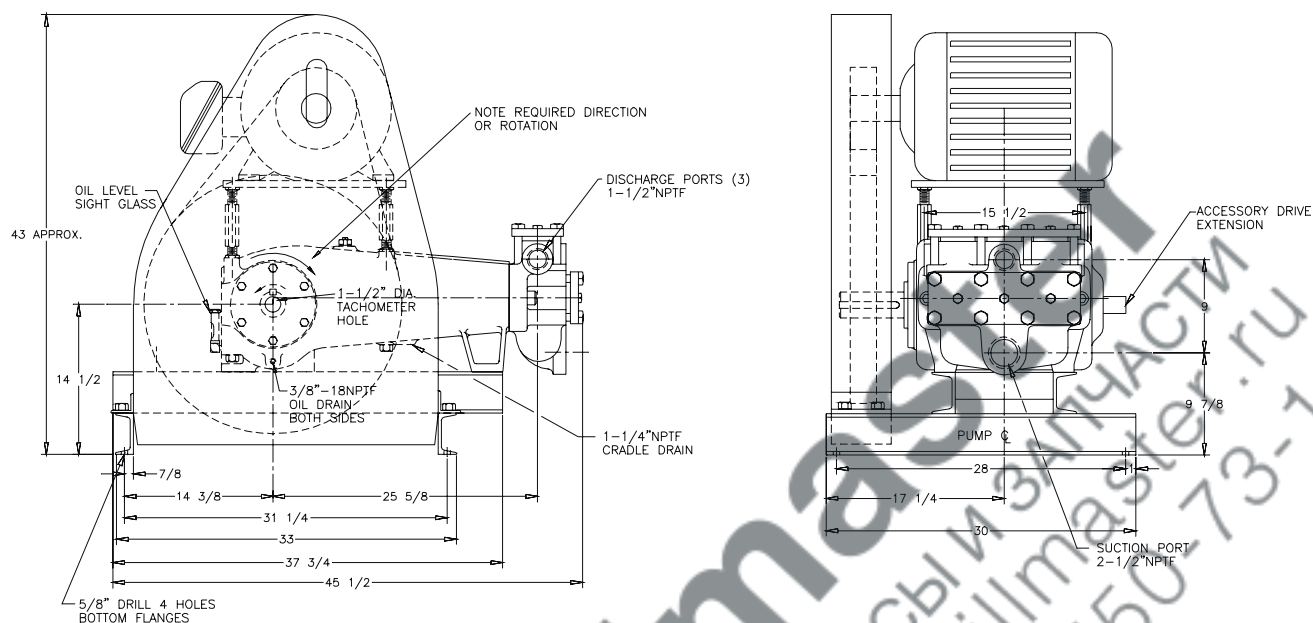
POWER END ENGINEERING DATA

Max. Input Power @ Speed	92 HP @ 550 rpm
Rated Continuous Plunger Load	7,216 lb.
Normal Continuous Speed Range	100 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	3.35 in.
At Crankpin Bearings, Dia. x Length	2 3/4 x 2 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 @ 550 rpm	252 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	30,000+ 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	A510 Gr.70
Stainless Steel	316 or 2205 S.ST.
Plunger Type Rokide® Stainless Steel, (Chromium Oxide-Coated)	416 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, Abrasion Resistant	17-4PH S.ST.
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Area	
Plate (disc) Valves, (Delrin® or S.S.)	2.3 sq.in.
Abrasion Resistant Valve.....	1.5 sq.in.
Avg. Liquid Velocity, with 2 1/4" Plungers @ 600 RPM	
thru Plate Valves	7.3 fps
thru Dual Stem Valves.....	12.3 fps
thru Suction Manifold.....	5.2 fps
thru Discharge Manifold	14.1 fps

SC-65 Triplex Pump



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CAMBRIDGE, ONTARIO N1T 0A5
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