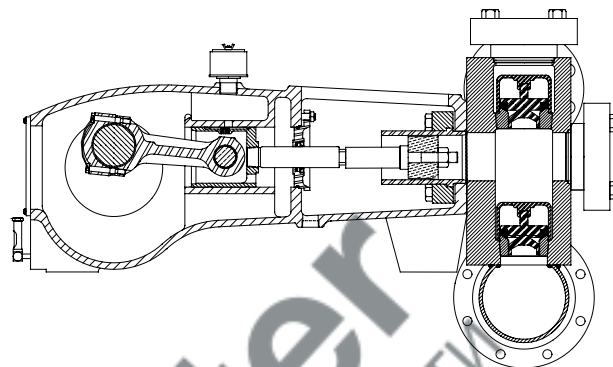




MYERS® APLEX SERIES

SC-300L

QUINTUPLEX PISTON/PLUNGER PUMP



Intermittent Duty Only

No. of pistons/plungers 5
 Maximum rated speed 400 rpm
 Stroke length 4.25 in. 108.0 mm
 Maximum rated power 400 HP 298 KW
 Maximum rod load 16,780 lb. 74.50 kN
 Weight 4800 lbs.

ENGLISH UNITS

SC-300L

	PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX. PSI.	* GALLON PER/REV.	200 RPM US GPM	250 RPM US GPM	300 RPM US GPM	350 RPM US GPM	400 RPM US GPM
PISTON OR PLUNGER	4.500	5.250	1055	1.463	292.6	365.8	438.9	512.1	585.2
	4.375	5.250	1116	1.383	276.6	345.7	414.9	484.0	553.2
	4.250	5.250	1181	1.305	261.0	326.3	391.5	456.8	522.0
	4.125	5.000	1254	1.229	245.9	307.3	368.8	430.3	491.8
	4.000	5.000	1334	1.156	231.2	289.0	346.8	404.6	462.4
	3.875	5.000	1422	1.085	217.0	271.2	325.5	379.7	434.0
	3.750	5.000	1518	1.016	203.2	254.0	304.8	355.6	406.4
	3.625	4.500	1626	0.949	189.9	237.4	284.8	332.3	379.8
HP REQUIRED @ RPM**					200.2	250.2	300.3	350.3	400.0

METRIC UNITS

SC-300L

	PLUNGER SIZE MM.	STUFFING BOX BORE MM.	MAX. PRESS. BAR	* LITER PER/REV.	200 RPM LPM	250 RPM LPM	300 RPM LPM	350 RPM LPM	400 RPM LPM
PISTON OR PLUNGER	114.3	133.4	72.7	5.538	1107.7	1384.6	1661.5	1938.4	2215.4
	111.1	133.4	76.9	5.235	1047.0	1308.7	1570.4	1832.2	2093.9
	108.0	133.4	81.4	4.940	988.0	1235.0	1482.0	1729.0	1976.0
	104.8	127.0	86.5	4.654	930.8	1163.5	1396.1	1628.8	1861.5
	101.6	127.0	92.0	4.376	875.2	1094.0	1312.8	1531.6	1750.4
	98.4	127.0	98.0	4.107	821.4	1026.7	1232.0	1437.4	1642.7
	95.3	127.0	104.7	3.846	769.2	961.5	1153.8	1346.1	1538.4
	92.1	114.3	112.1	3.594	718.8	898.5	1078.2	1257.9	1437.6
KW REQUIRED @ RPM**					149.3	186.6	223.9	261.2	298.3

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

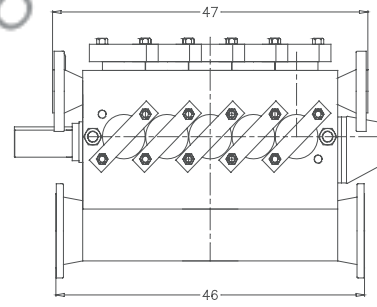
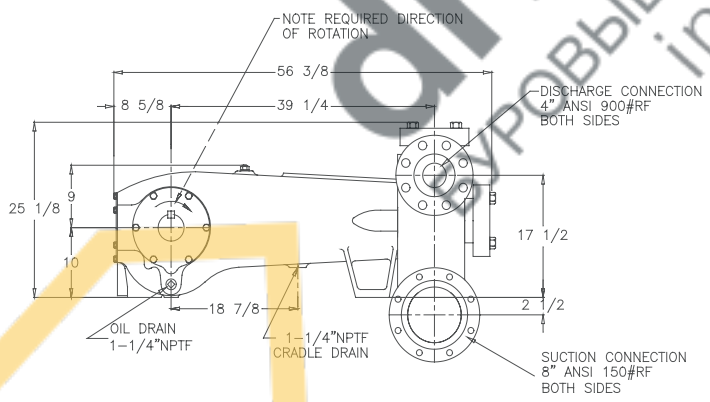
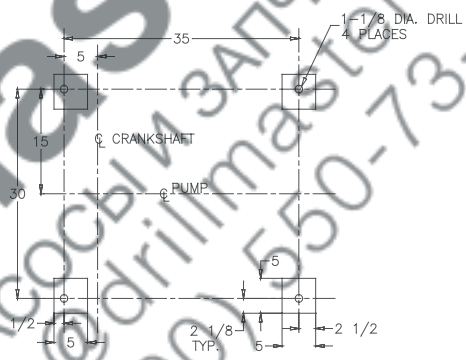
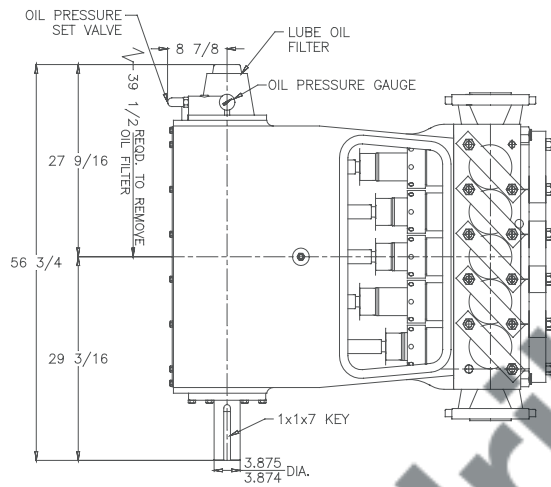
$$\text{IHP} = \frac{\text{USGPM} \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

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

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

SC-300L Quintuplex Pump



ENGINEERING DATA

SC-300L Quintuplex Pump

POWER END ENGINEERING DATA

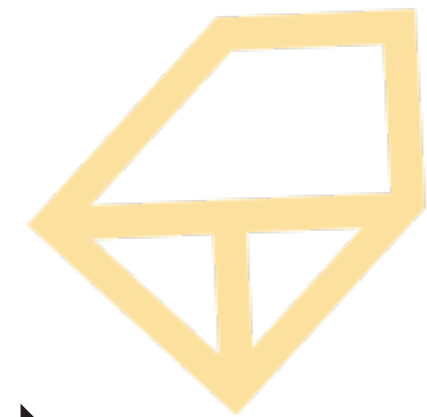
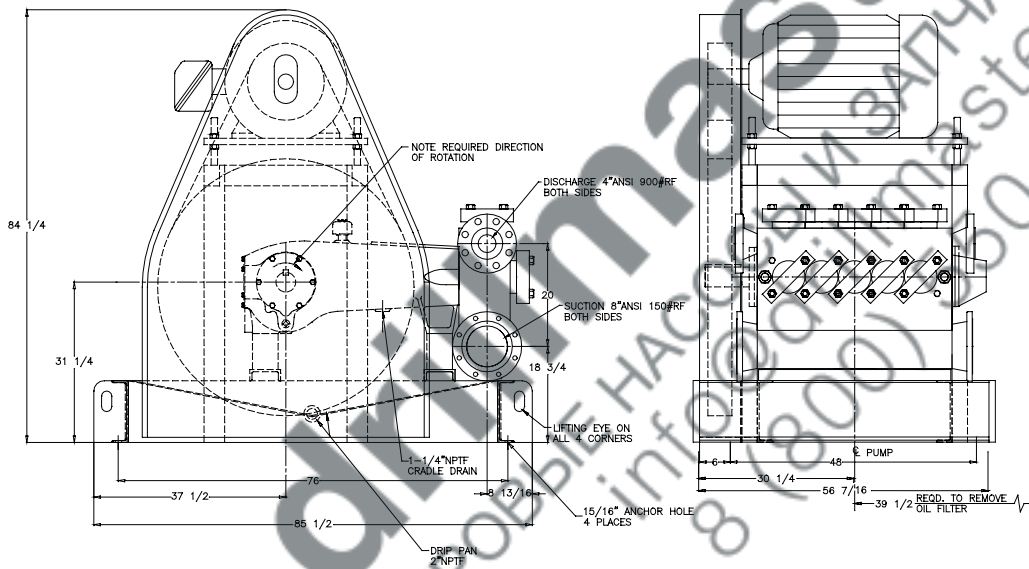
Max. Input Power @ Speed	400 HP @ 400 rpm
Rated Continuous Plunger Load	16,780 lb.
Normal Continuous Speed Range	150 to 380 rpm
Minimum Speed	100 rpm
Oil Capacity	64 U.S. Qrts
Power End Oiling System	Pressure Lubrication System
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length.....	5 3/4 x 6 3/16 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	4 in.
At Crankpin Bearings, Dia. x Length.....	4 x 3 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	17-4 PH S.ST.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 400 rpm	267 fpm

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	1,626 psi
Hydrostatic Test	2,500 psi
Liquid End Materials, A.S.T.M.	
Carbon Steel.....	A516 Gr.70
Piston Type.....	Rubber
Liners	Hardened Steel
Plunger Type “Rokide” Stainless Steel, (Chromium Oxide-Coated)	416 or 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 892IK
Valve Cover and Cyl. Head Plugs	A36
Seals, Stuffing Boxes, Valve Covers	Buna-N
Valve Type.....	Abrasion Resistant
Valve Type, Wing Guided	17-4PH S.ST.
Valve Spring Material	Inconel®
Avg. Liquid Velocity, with 4 1/2” Plungers @ 400 RPM	
thru Suction Manifold.....	3.7 fps
thru Discharge Manifold	16.3 fps

All drawings and specifications subject to change without notice.

SC-300L Quintuplex Pump



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