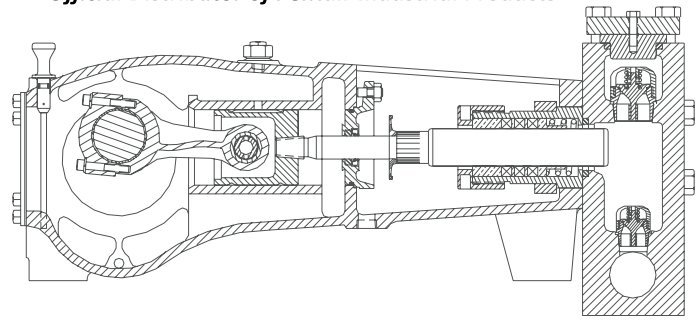


MYERS® APLEX SERIES

SC-30H TRIPLEX PLUNGER PUMP



Intermittent Duty Only

No. of plungers.....	3
Maximum rated speed.....	650 rpm
Stroke length.....	1.75 in. 44.45 mm
Maximum rated power.....	40 HP 29.8 KW
Maximum rod load	4193 lb. 18.61 kN
Weight.....	275 lbs.

ENGLISH UNITS

SC-30H

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
1.125	1.750	4218	0.0226	5.6	7.9	10.2	12.4	14.7
1.000	1.750	5000	0.0179	4.5	6.2	8.0	9.8	11.6
.8750	1.500	5000	0.0137	3.4	4.8	6.1	7.5	8.9
<i>HP REQUIRED @ RPM**</i>				15.4	21.6	27.8	34.0	40.0

METRIC UNITS

SC-30H

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
28.6	44.5	290.8	0.0855	21.4	29.9	38.5	47.0	55.6
25.4	44.5	344.7	0.0678	17.0	23.7	30.5	37.3	44.1
22.2	38.1	344.7	0.0519	13.0	18.2	23.4	28.5	33.7
<i>KW REQUIRED @ RPM**</i>				11.5	16.1	20.7	25.4	29.8

*Displacement based on 100% Volumetric Efficiency

**Power based on 90% Mechanical Efficiency

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

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

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

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

ENGINEERING DATA

SC-30H Triplex Pump

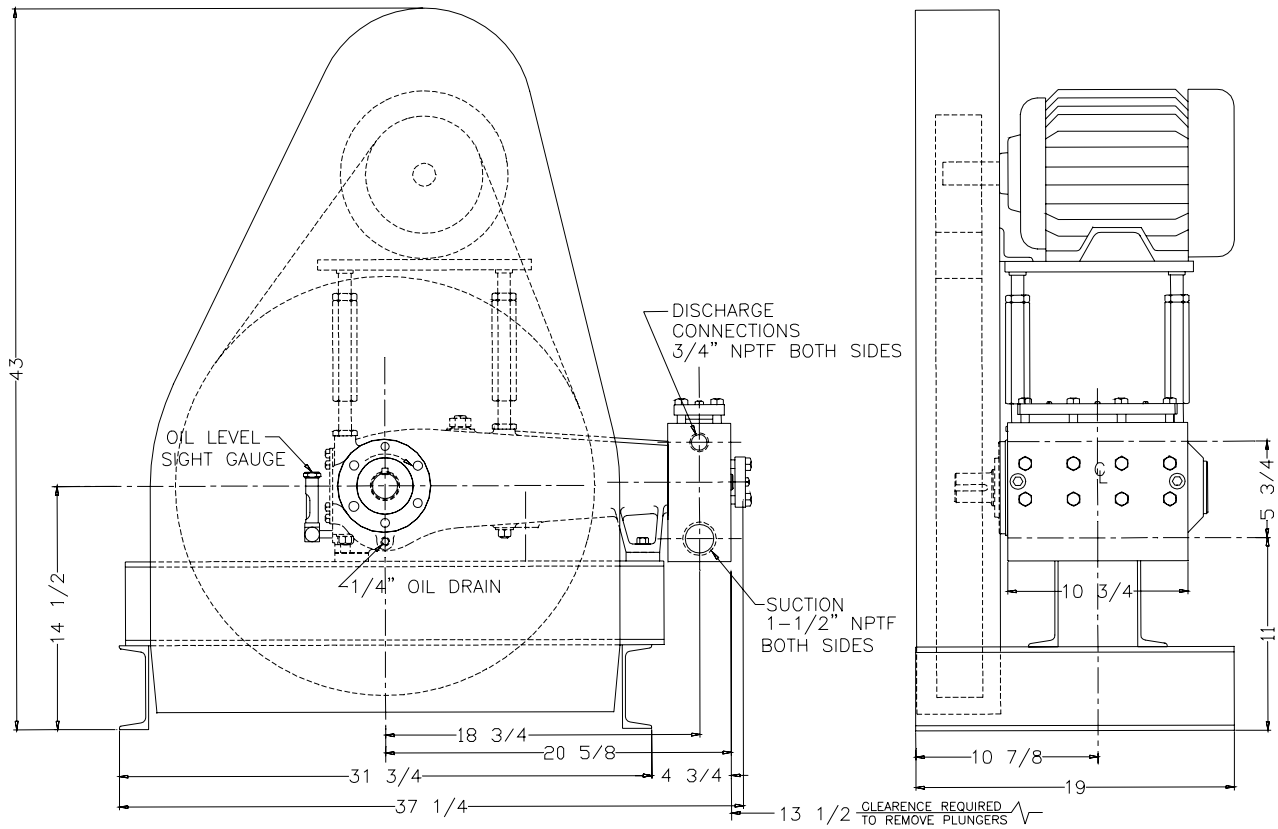
POWER END ENGINEERING DATA

Max. Input Power @ Speed	40 HP @ 650 rpm
Rated Continuous Plunger 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	5,000 psi
Hydrostatic Test	7,500 psi
Liquid End Materials, A.S.T.M.	
Carbon Steel.....	4140
Stainless Steel	15-5PH 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:	
Spring-loaded, cup-type	Style 120X
Spring-loaded, Garlock	Style 892IK
Valve Cover and Cyl. Head Plugs	316 S.S.
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 Area573 sq.in.
Avg. Liquid Velocity, with 1 1/8” Plungers @ 650 RPM	
thru Suction Manifold.....	1.5 fps
thru Discharge Manifold.....	6.00 fps

SC-30H Triplex Pump



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