

Intermittent Duty Only

No. of plungers	3
Maximum rated speed	600 rpm
Stroke length.....	2.25 in. 7.15 mm
Maximum rated power.....	60 HP 44.7 KW
Maximum rod load	5280 lb. 23.44 kN
Weight	475 lbs.

ENGLISH UNITS

SC-45H

PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI	*GALLON PER/REV.	200 RPM S GPM	300 RPM US GPM	400 RPM US GPM	500 RPM US GPM	600 RPM US GPM
1.375	2.250	3556	0.0434	8.7	13.0	17.4	21.7	26.0
1.250	2.250	4302	0.0359	7.2	10.8	14.3	17.9	21.5
1.125	1.750	5000	0.0290	5.8	8.7	11.6	14.5	17.4
<i>HP REQUIRED @ RPM**</i>				20.0	30.0	40.0	50.0	60.0

METRIC UNITS

SC-45H

PLUNGER SIZE MM.	STUFFING BOX BORE MM.	MAX PRESS. BAR	*LITER PER/REV.	200 RPM LPM	300 RPM LPM	400 RPM LPM	500 RPM LPM	600 RPM LPM
34.9	57.2	245.2	0.1643	32.9	49.3	65.7	82.2	98.6
31.8	57.2	296.6	0.1359	27.2	40.8	54.4	68.0	81.5
28.6	57.2	344.7	1.0980	219.6	329.4	439.2	549.0	658.8
<i>KW REQUIRED @ RPM**</i>				14.9	22.3	29.8	37.3	44.7

* Displacement based on 100% Volumetric Efficiency

** Power based on 90% Mechanical Efficiency

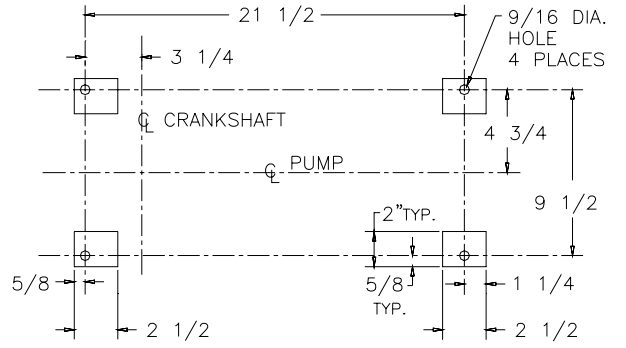
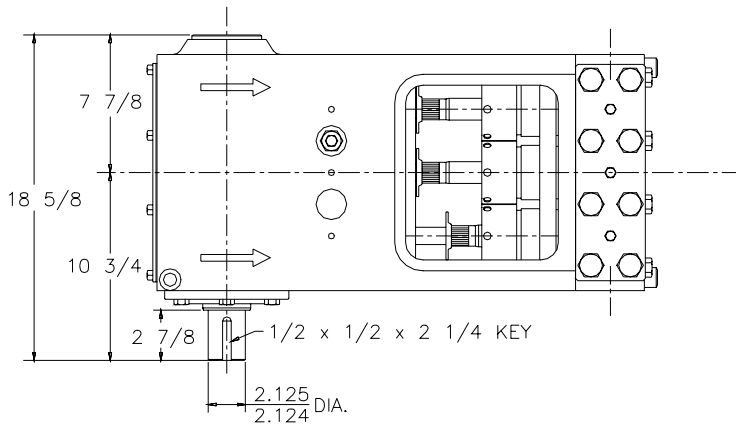
$$\text{IHP} = \frac{\text{USGPM} \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1714}$$

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

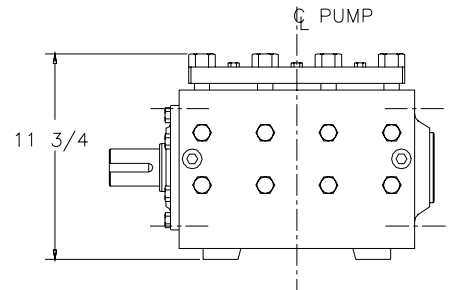
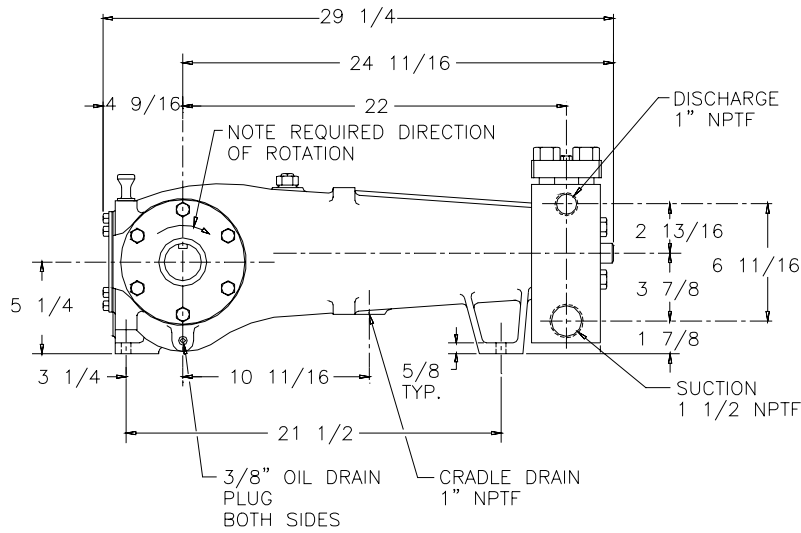
$$\text{PUMP RPM} = \frac{\text{USGPM Desired}}{\text{USGPM per Revolution of Selected Plunger}}$$

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

SC-45H Triplex Pump



FOUNDATION PLAN



ENGINEERING DATA

SC-45H Triplex Pump

POWER END ENGINEERING DATA

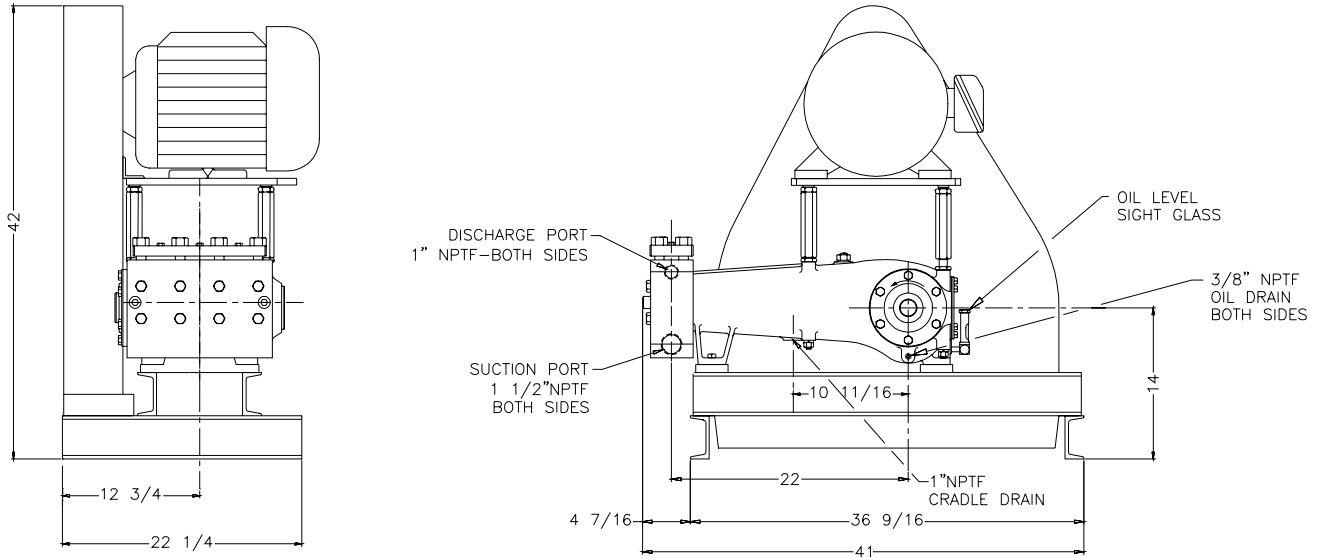
Max. Input Power @ Speed	60 HP @ 600 rpm
Rated Continuous Plunger Load	5,280 lb.
Normal Continuous Speed Range	250 to 600 rpm
Minimum Speed	50 rpm
Oil Capacity	5 U.S. Qrts
Power End Oiling System	Splash & Scoop
Power Frame, One-Piece	Cast Iron
Crosshead, Full Cylindrical	Cast Iron
Crosshead, Dia. x Length	3 1/4 x 3 5/8 in.
Crankshaft	Ductile Iron
Crankshaft Diameters:	
At Tapered Roller Bearings	3.15 in.
At Crankpin Bearings, Dia. x Length	2 1/4 x 1 5/8 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	225 fpm
Minimum Life Expectancy, Main Bearings, L ₁₀	15,000+ hr.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	3,000 psi
Hydrostatic Test	4,500 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 8921K
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	
Suction573 sq.in.
Discharge958 sq.in.
Avg. Liquid Velocity, with 1 7/8" Plungers @ 600 RPM	
thru Suction Manifold	4.73 fps
thru Discharge Manifold	10.64 fps

All drawings and specifications subject to change without notice.

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