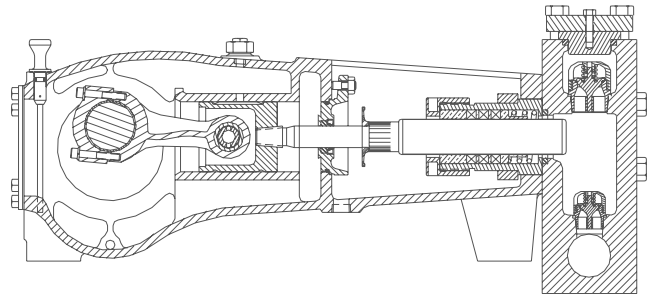




# MYERS® APLEX SERIES

## SC-45H

### TRIPLEX PLUNGER PUMP



### Intermittent Duty Only

No. of plungers .....	3
Maximum rated speed .....	600 rpm
Stroke length.....	2.25 in.    57.15 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
HP REQUIRED @ RPM**				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
KW REQUIRED @ RPM**				14.9	22.3	29.8	37.3	44.7

\*Displacement based on 100% Volumetric Efficiency

\*\*Power based on 90% Mechanical Efficiency

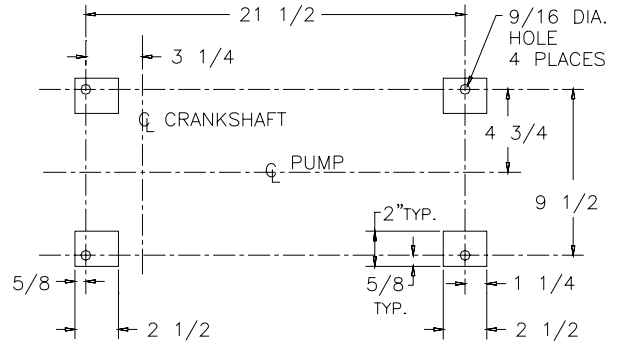
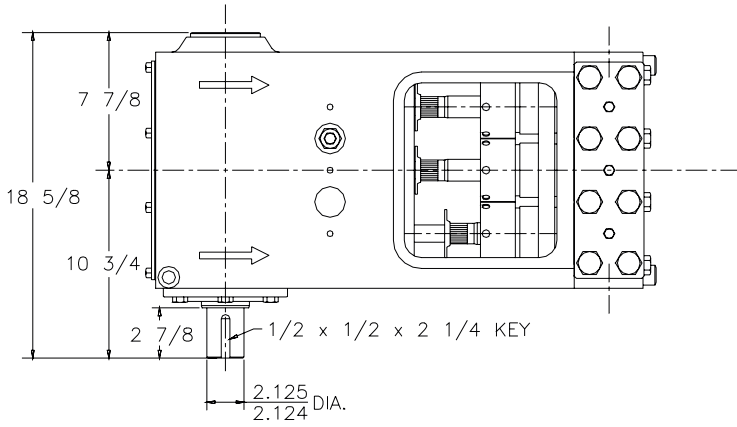
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

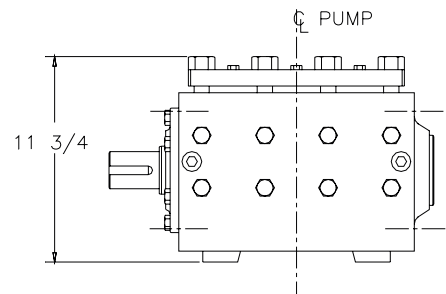
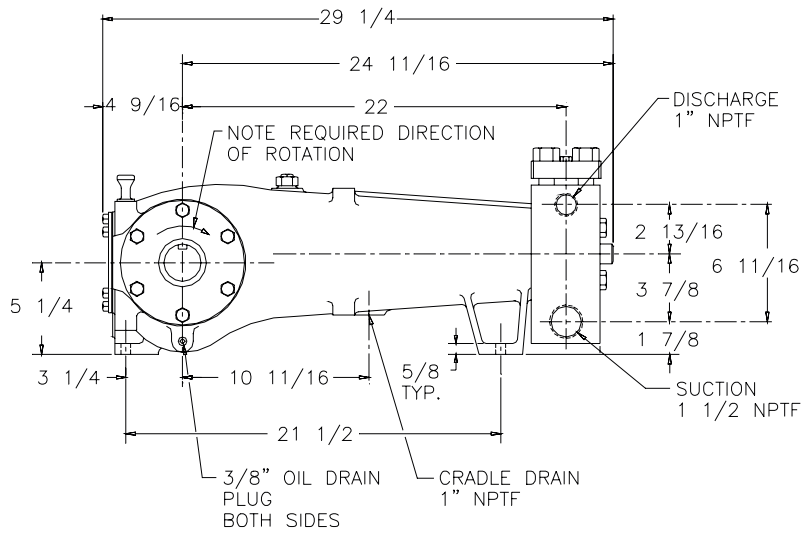
$$PUMP \text{ RPM} = \frac{USGPM \text{ Desired}}{USGPM \text{ per Revolution of Selected Plunger}}$$

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

# SC-45H Triplex Pump



FOUNDATION PLAN



# ENGINEERING DATA

## SC-45H Triplex Pump

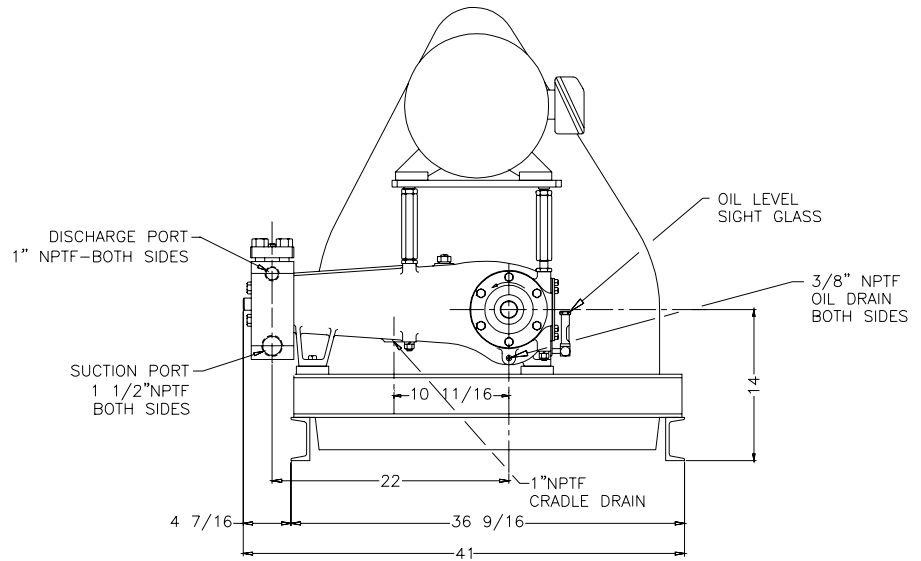
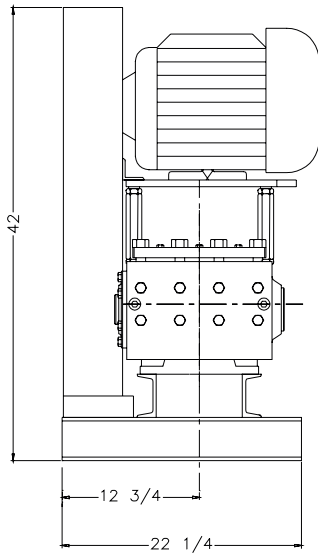
### POWER END ENGINEERING DATA

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 <sub>10</sub> .....	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 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	
Suction .....	.573 sq.in.
Discharge .....	.958 sq.in.
Avg. Liquid Velocity, with 1 7/8" Plungers @ 600 RPM	
thru Suction Manifold.....	4.73 fps
thru Discharge Manifold .....	10.64 fps

## SC-45H Triplex Pump



740 EAST 9TH STREET,  
ASHLAND, OHIO 44805  
WWW.FEMYERS.COM

490 PINEBUSH ROAD, UNIT 4,  
CAMBRIDGE, ONTARIO N1T 0A5  
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