PENTAIR

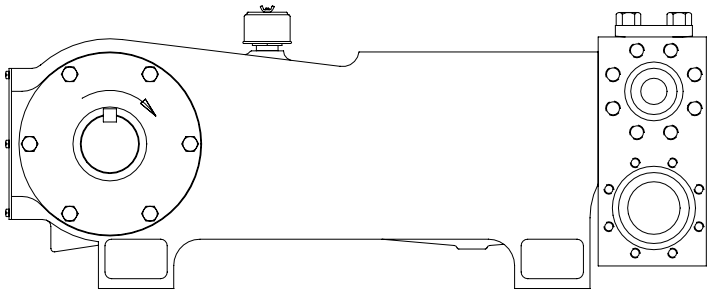
POWER ZONE EQUIPMENT, INC.

Official Distributor of Pentair Industrial Products

MYERS® APLEX SERIES

MA-155H

TRIPLEX PLUNGER PUMP



No. of plungers..... 3
Maximum rated speed.....450 rpm
Stroke length.....4.50 in. 114.3 mm
Maximum rated power.....155.0 HP 115.5 KW
Maximum rod load .....9087 lb. 40.34 kN
Weight .....2935 lbs.

ENGLISH UNITS **MA-155H**

PLUNGER SIZE IN.	STUFFING BOX BORE IN.	MAX PSI.	*GALLON PER/ REV.	250 RPM US GPM	300 RPM US GPM	350 RPM US GPM	400 RPM US GPM	450 RPM US GPM
1.875	3.000	3289	0.161	40.3	48.4	56.5	64.5	72.6
1.750	3.000	3776	0.141	35.1	42.2	49.2	56.2	63.3
1.625	2.500	4379	0.121	30.3	36.4	42.4	48.5	54.5
1.500	2.500	5000	0.103	25.8	31.0	36.1	41.3	46.5
*HP REQUIRED @ RPM***				86.0	103.3	120.5	137.7	155.0

METRIC UNITS **MA-155H**

PLUNGER SIZE MM.	STUFFING BOX BORE MM.	MAX PRESS. BAR	* LITER PER/REV.	250 RPM LPM	300 RPM LPM	350 RPM LPM	400 RPM LPM	450 RPM LPM
47.6	76.2	226.7	0.611	152.8	183.3	213.8	244.4	274.9
44.4	76.2	260.3	0.532	133.1	159.7	186.3	212.9	239.5
41.2	63.5	301.9	0.459	114.7	137.6	160.6	183.5	206.5
38.1	63.5	344.7	0.391	97.8	117.3	136.8	156.4	176.0
*KW REQUIRED @ RPM***				64.1	77.0	89.9	102.7	115.6

**Displacement based on 100% Volumetric Efficiency*

***Power based on 90% Mechanical Efficiency*

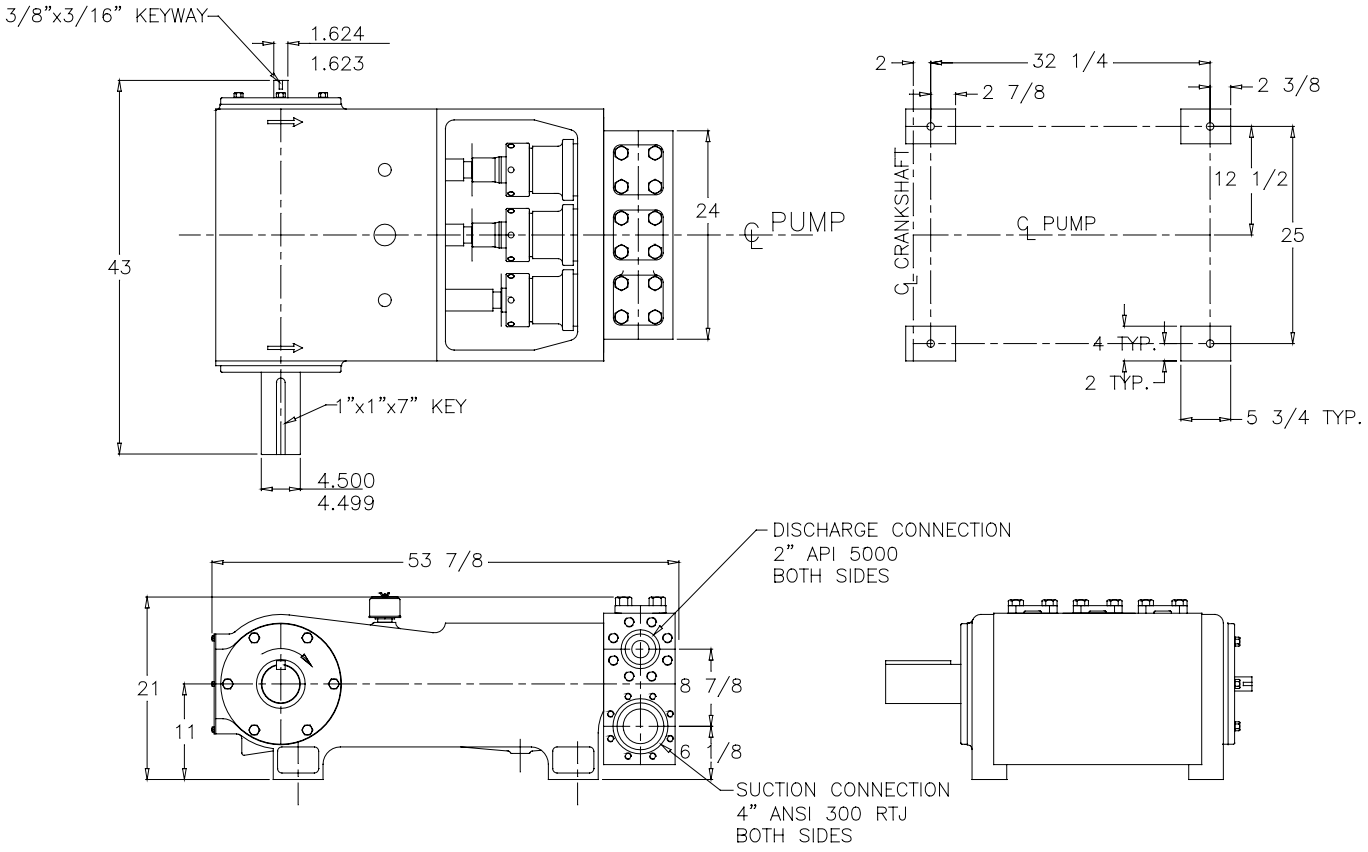
$$IHP = \frac{USGPM \times (Discharge\ psig - 1/2\ Suction\ psig)}{1542}$$

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

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

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

MA-155H Triplex Pump



ENGINEERING DATA

MA-155H Triplex Pump

POWER END ENGINEERING DATA

Max. Input Power @ Speed	155 HP @ 450 rpm
Rated Continuous Plunger Load	9,087 lb.
Max. Rated Continuous Speed	450 rpm
Normal Continuous Speed Range	150 to 350 rpm
Minimum Speed	100 rpm
Oil Capacity	22 U.S. Qrts
Power End Oiling System	Splash
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 3/4 in.
At Crankpin Bearings, Dia. x Length	4 1/2 x 3 3/4 in.
Crosshead (Wrist) Pin, Case-Hardened and Ground	AISI 8620
Wrist Pin Bushing, SAE 660, dia. x width	1 5/16 x 2 in.
Main Bearings, Tapered Roller	Timken®
Crankpin Bearings, Precision Automotive	Steel Backed, Babbitt-Lined
Extension (Pony) Rod	17-4 PH S.S.
Connecting Rod, Automotive Type	Ductile Iron
Average Crosshead Speed @ 450 rpm	338 fpm
Minimum Life Expectancy, Main Bearings, L_{10}	60,000+ hrs.

LIQUID END ENGINEERING DATA

Max. Continuous Working Pressure	5,000 psi
Hydrostatic Test	7,500 psi
Available Liquid End Materials, A.S.T.M.	
Carbon Steel Block	4140
Stainless Steel Block	2205 Duplex or 15-5 PH S.S.
Plunger Type “Rokide” (Chromium Oxide-Coated)	316 S.S.
Packing Types Available:	
Spring-loaded, Chevron	Style 120X
Spring-loaded, Kevlar Compression	Style 140
Seals, Stuffing Boxes, Valve Covers, Cyl. Heads	Buna-N
Available Valve Types:	
Standard, Disc, Hardeded and Lapped	17-4 PH S.S.
Optional, Abrasion Resistant, Hardened	17-4PH S.S.
Valve Spring Material	Inconel®
Valve Seat, Liquid Passage Area	2.3 sq.in.
Avg. Liquid Velocity with 1 3/4” plungers @ 450 rpm:	
thru Valves	5.9 fps
thru Suction Manifold	2.8 fps
thru Discharge Manifold	16.5 fps

All drawings and specifications subject to change without notice.

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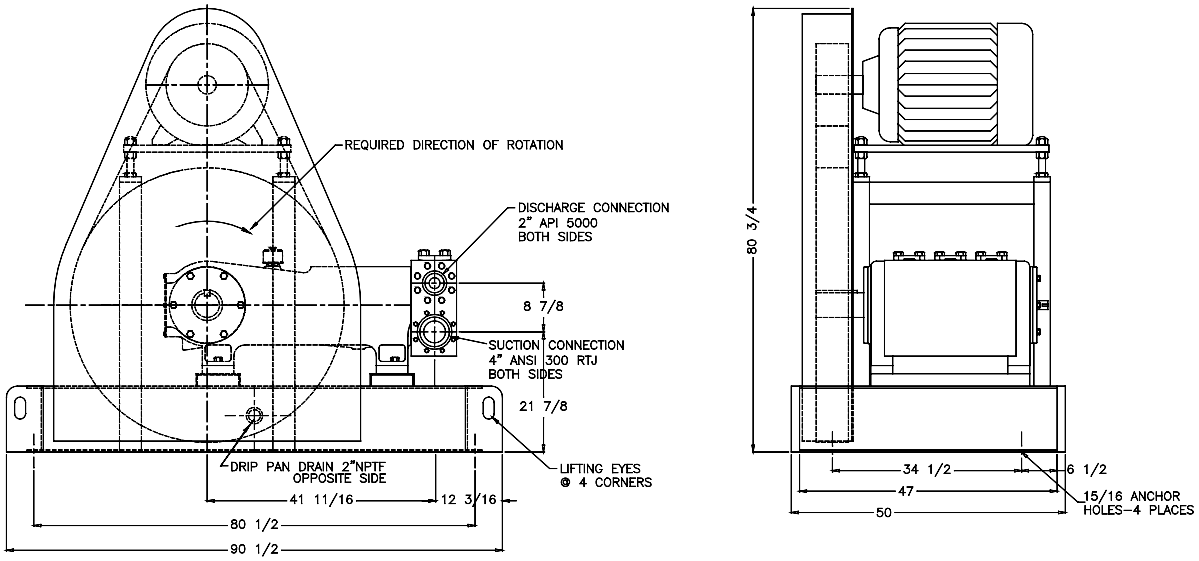

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