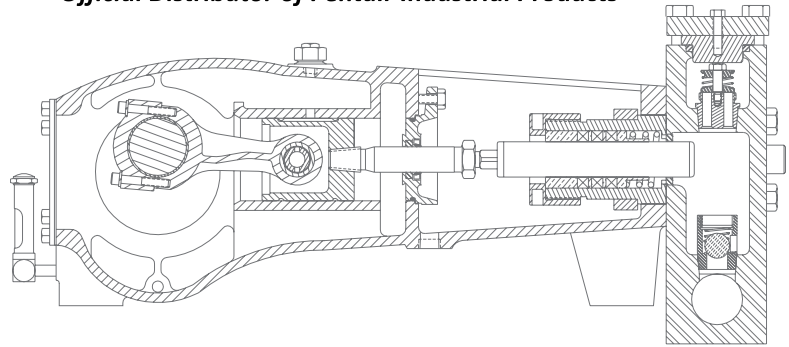


# MYERS® APLEX SERIES

## MA-15H

### TRIPLEX PLUNGER PUMP



|                          |                       |
|--------------------------|-----------------------|
| No. of plungers.....     | 3                     |
| Maximum rated speed..... | 650 rpm               |
| Stroke length.....       | 1.50 in.      38.1 mm |
| Maximum rated power..... | 15.0 HP      11.2 KW  |
| Maximum rod load .....   | 1828 lb.      8.04 kN |
| Weight.....              | 255 lbs.              |

### ENGLISH UNITS

| PLUNGER<br>SIZE IN.        | STUFFING<br>BOX BORE IN. | MAX<br>PSI. | *GALLON<br>PER./REV. | 250 RPM<br>USGPM | 350 RPM<br>USGPM | 450 RPM<br>USGPM | 550 RPM<br>USGPM | 650 RPM<br>USGPM |
|----------------------------|--------------------------|-------------|----------------------|------------------|------------------|------------------|------------------|------------------|
| .750                       | 1.500                    | 5000        | .00860               | 2.2              | 3.0              | 3.9              | 4.7              | 5.6              |
| <i>HP REQUIRED @ RPM**</i> |                          |             |                      | 5.9              | 8.3              | 10.4             | 12.6             | 15.0             |

### METRIC UNITS

| PLUNGER<br>SIZE M.M        | STUFFING<br>BOX BORE MM. | MAX<br>PRESS. BAR | * LITER<br>PER./REV | 250 RPM<br>LPM | 350 RPM<br>LPM | 450 RPM<br>LPM | 550 RPM<br>LPM | 650 RPM<br>LPM |
|----------------------------|--------------------------|-------------------|---------------------|----------------|----------------|----------------|----------------|----------------|
| 19.0                       | 38.1                     | 285.3             | 0.0325              | 8.1            | 11.4           | 14.6           | 17.9           | 21.1           |
| <i>KW REQUIRED @ RPM**</i> |                          |                   |                     | 4.3            | 6.2            | 7.7            | 9.4            | 11.2           |

*\*Displacement based on 100% Volumetric Efficiency*

*\*\*Power based on 90% Mechanical Efficiency*

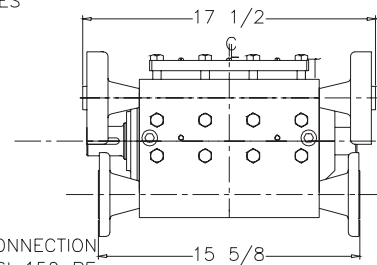
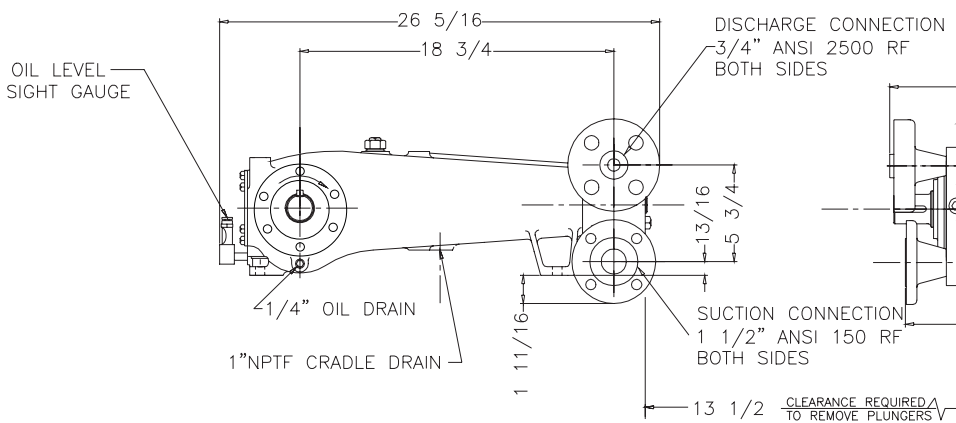
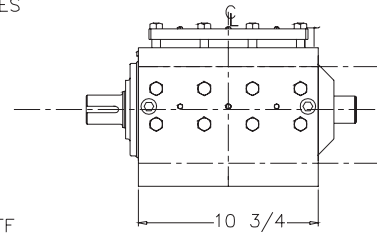
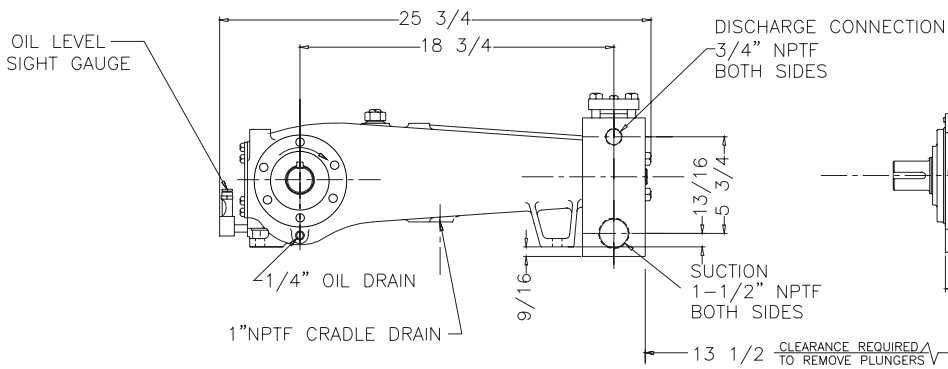
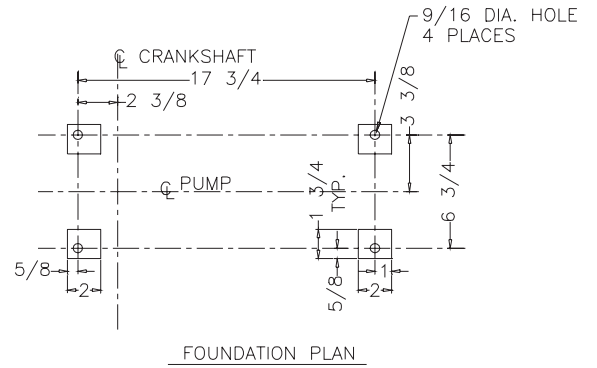
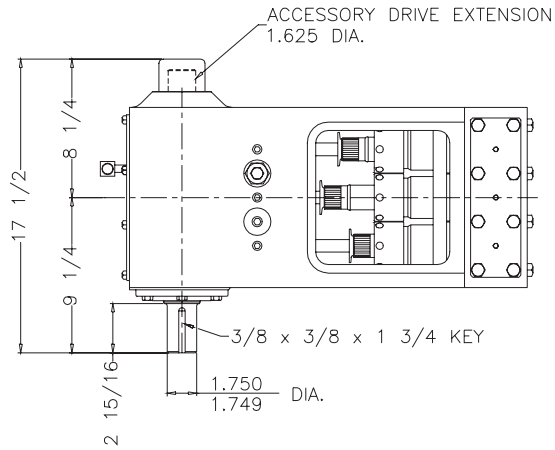
$$IHP = \frac{USGPM \times (\text{Discharge psig} - 1/2 \text{ Suction psig})}{1542}$$

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

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

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

# MA-15H Triplex Pump



# ENGINEERING DATA

## MA-15H Triplex Pump

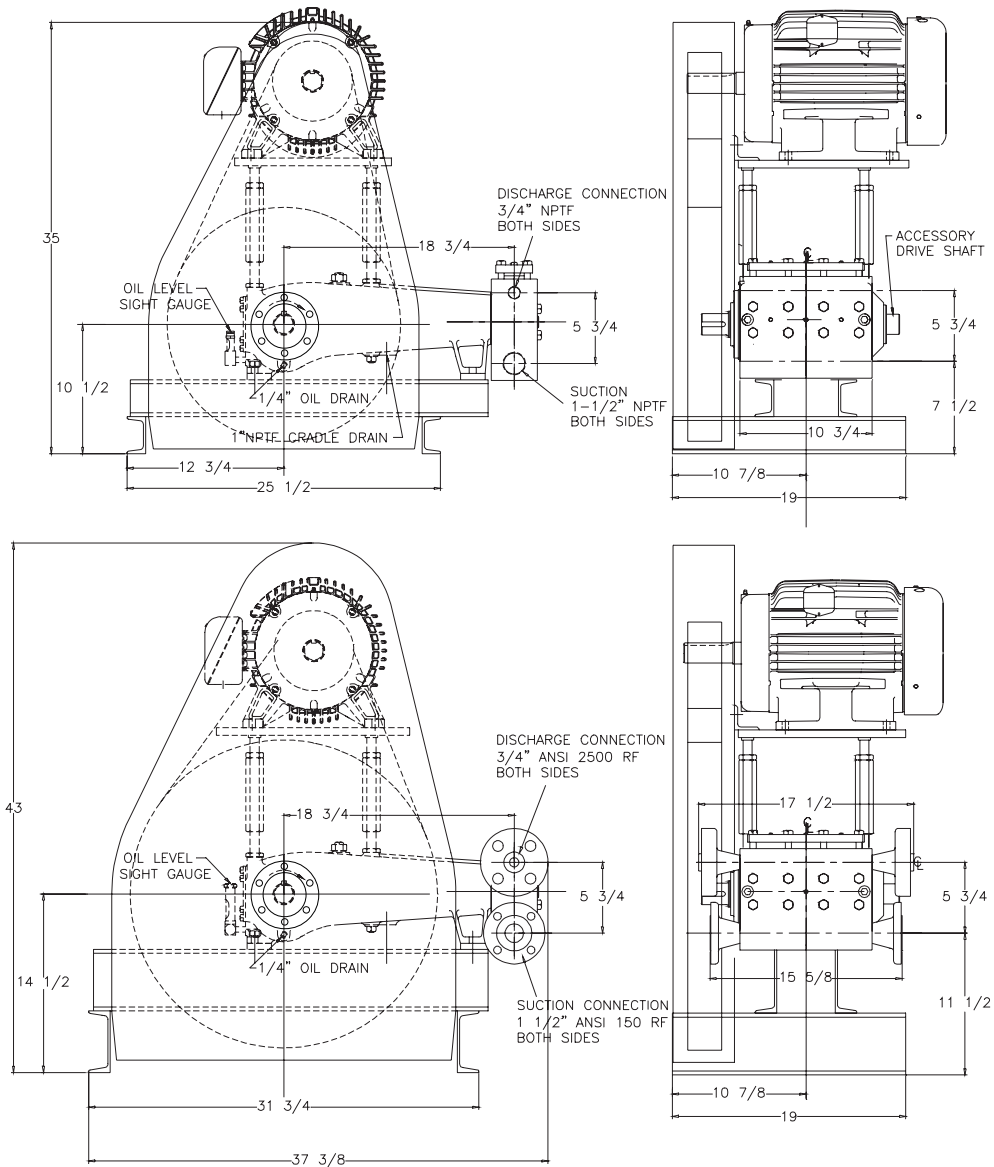
### POWER END ENGINEERING DATA

|   |                   |
|---|-------------------|
| Max. Input HP @ Speed .....                                   | 15 HP @ 650 rpm   |
| Rated Continuous Plunger Load .....                           | 1,828 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 .....                                    | 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.S.          |
| Connecting Rod, Automotive Type .....                         | Ductile Iron      |
| Average Crosshead Speed @ 600 rpm.....                        | 150 fpm           |
| Minimum Life Expectancy, Main Bearings, L <sub>10</sub> ..... | 60,000+ hr.       |

### LIQUID END ENGINEERING DATA

|   |                       |
|---|-----------------------|
| Max. Continuous Working Pressure .....              | 5,000 psi             |
| Hydrostatic Test .....                              | 7,500 psi             |
| Liquid End Materials, A.S.T.M.                      |                       |
| Stainless Steel Block .....                         | Various Grades        |
| Carbon Steel Block .....                            | 4140                  |
| Plunger Type "Rokide" (Chromium Oxide-Coated) ..... | 316 S.S.              |
| Stuffing Boxes, Field-Removable and Replaceable     |                       |
| Stainless Steel, Hardened .....                     | 17-4PH S.S.           |
| Carbon Steel.....                                   | 1020                  |
| Packing Types Available:                            |                       |
| Spring-loaded, Braided Teflon & Kevlar .....        | Style 140             |
| Spring-loaded, Cup-type .....                       | Style 120X            |
| Valve Cover and Cyl. Head Plugs .....               | 416 or 316 S.S.       |
| Retainer Plates, Steel, A.S.T.M. ....               | Ductile Iron 80-55-06 |
| Seals, Stuffing Boxes, Valve Covers .....           | Buna-N                |
| Bolting, High Strength, Heat Treated .....          | Alloy Steel           |
| Valve Types Available:                              |                       |
| Dual Stem Guided .....                              | 17-4PH S.S.           |
| Disc Type .....                                     | 17-4PH S.S.           |
| Valve Spring Material .....                         | Inconel®              |
| Valve Seat, Liquid Passage Area                     |                       |
| Dual Stem Guided .....                              | .57 sq.in.            |
| Disc Type .....                                     | .46 sq.in.            |
| Avg. Liquid Velocity with 3/4" plunger @ 650 rpm    |                       |
| thru Dual Stem Guided Valves.....                   | 9.04 fps              |
| thru Disc Type Valves .....                         | 11.2 fps              |
| thru Suction Manifold.....                          | .9 fps                |
| thru Discharge Manifold.....                        | 4.7 fps               |

## MA-15H Triplex Pump



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

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