

No. of plungers



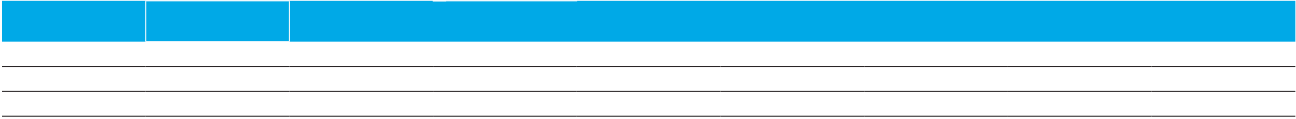
44.346

2487EM6panKa77çEM6panKa06005461.86301.2495in§30(3.6)EM6panK(EM6panK.g)in§79.7EM6pa302EM6panKa992EM6pan0.30856005522.5076291.9294in§43036QEM6pan.2.9MID7200059807622.6095in(4.30)60

43n24

33236QEM6pan14jL45.32n032EM6panKa77k45.32n-0732073

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\*Displacement based on 100% Volumetric Efficiency

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

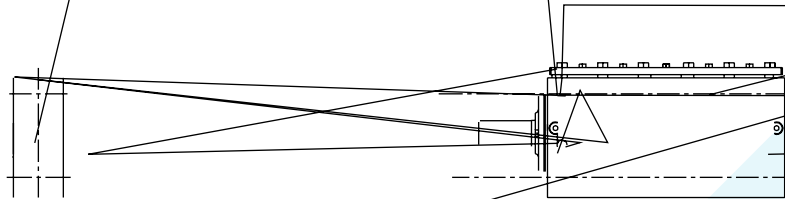
$$\text{PUMP rpm} = \frac{\text{USGPM Desired}}{\text{USGPM per Revolution of Selected Plunger}}$$

Power based on 90% Mechanical Efficiency

$$\text{Ikw} = \frac{\text{M}^3/\text{HR} \times (\text{Discharge Bar} - 1/2 \text{ SuctionBar})}{32.4}$$

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

**MA-75M Quintuplex Pump**  
(Measurements shown in inches)



**MA-75L Quintuplex Pump**  
(Measurements shown in inches)

# ENGINEERING DATA

## MA-75M, MA-75L, MA-75H QUINTUPLEX PUMPS

### POWER END ENGINEERING DATA

|   |                             |
|---|-----------------------------|
| Max. Input Power @ Speed.....                         | 75 hp @ 550 rpm             |
| Rated Continuous Plunger Load .....                   | 3,535 lbs.                  |
| Max. Rated Continuous Speed.....                      | 550 rpm                     |
| Normal Continuous Speed Range .....                   | 150 to 500 rpm              |
| Minimum Speed .....                                   | 100 rpm                     |
| Oil Capacity .....                                    | 12 U.S. Qts                 |
| Power End Oiling System .....                         | Splash & Scoop              |
| Power Frame, One-Piece .....                          | Cast Iron                   |
| Crosshead, Full Cylindrical .....                     | Cast Iron                   |
| Crosshead, Dia. x Length .....                        | 4 x 4-1/2 in.               |
| Crankshaft .....                                      | Ductile Iron                |
| Crankshaft Diameters:                                 |                             |
| At Tapered Roller Bearings .....                      | 3.35 in.                    |
| At Crankpin Bearings, Dia. x Length .....             | 2-3/4 x 2 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®                     |
| Center Bearings, Two Precision Steel Backed .....     | Babbitt-Lined               |
| Crankpin Bearings, Precision Automotive .....         | Steel Backed, Babbitt-Lined |
| Extension (Pony) Rod Integral w/ Plungers .....       | 316 S.ST.                   |
| Connecting Rod, Automotive Type .....                 | Ductile Iron                |
| Average Crosshead Speed @ 550 rpm .....               | 252 fpm                     |



**MA-75M Quintuplex Pump**  
(Measurements shown in inches)

