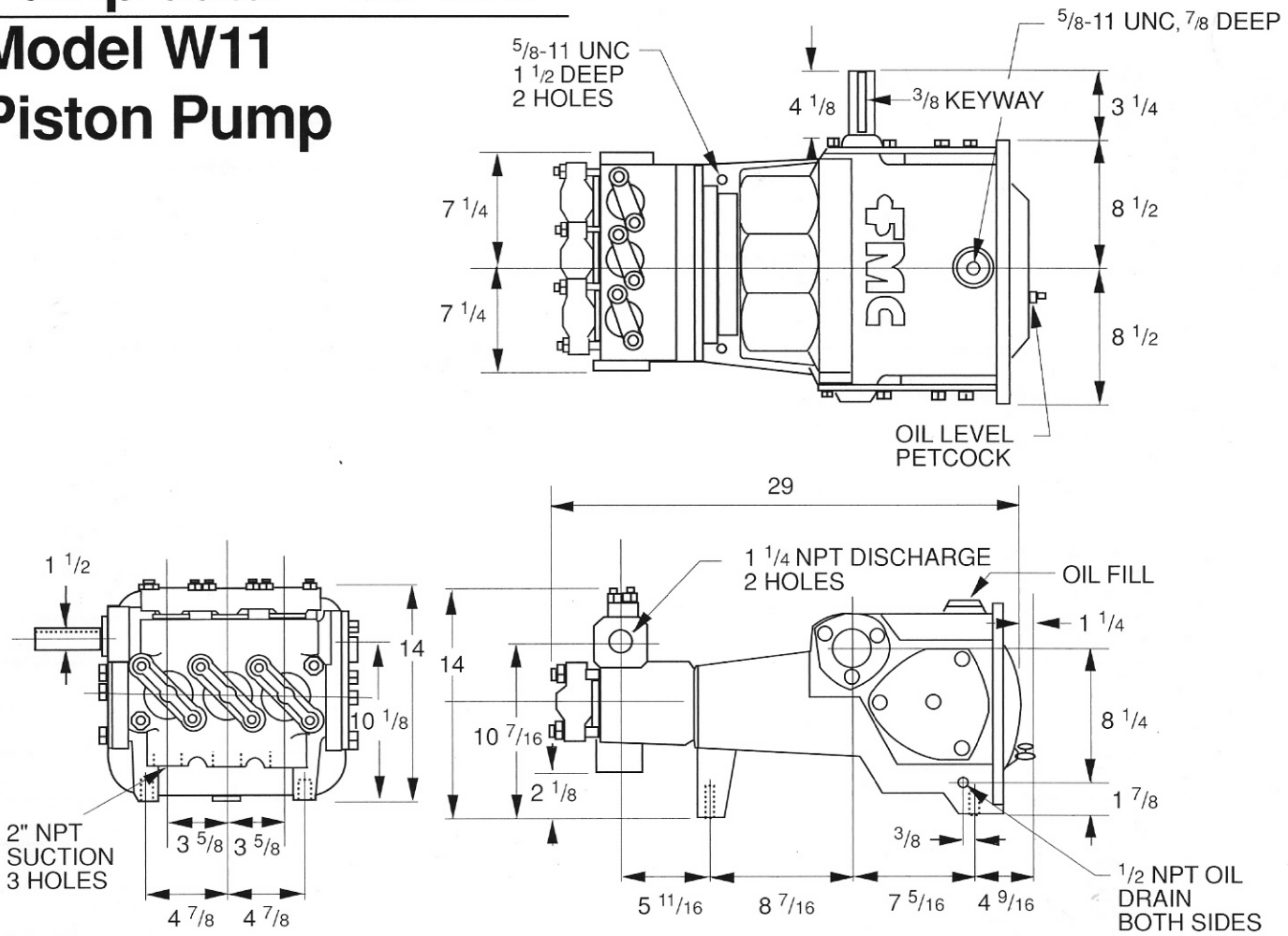
# Pump data 35 BHP
# Model W11
# Piston Pump




**Pump type:** Triplex piston

## Drive-end specifications

Stroke — 2 3/4"
Internal Gear Reduction Ratio — 3.6:1
Oil Type — SAE 30
Direction of Rotation — Top of shaft away from head
Shipping Weight — 425 lbs

Maximum Speed — SEE BACK
Minimum Speed — SEE BACK
No. of Pistons — 3
Crankcase Material — Cast Iron
Oil Capacity — 1 gallon
Shaft Extension — Standard Shown
RH shaft and double-ended shaft optional

## W11 TRIPLEX POWER PUMP

2 3/4" , (69.9 mm) STROKE 6000 lb. (26700N) FRAME (PLUNGER) LOAD

| | PISTON DIAMETER | | Displacement | | Maximum Discharge Pressure | | STD VALVE DATA | | | CYLINDER CONNECTIONS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | INCH | MM | GAL/REV | L/REV | PSIG | BAR | DISC. DIAMETER | SEAT HOLE AREA | % Area | SUCTION | DISCHARGE |
| A 1118 | 2.25 | 57.15 | .0394 | .149 | 1000 | 690 | 1.25" (31.8 mm) | .933 IN² (602mm²) | 23 | 2 NPT | 1 1/4" NPT |
| 1122 | 2.75 | 69.85 | .0589 | .223 | 1000 | 690 | | | 16 | | |
| | | | | | | | | | | | |

# W11 TRIPLEX POWER PUMP

## STANDARD MATERIAL OF CONSTRUCTION

| REF# | DESCRIPTION | MATERIAL |
|---|---|---|
| | **FLUID END** | **DI** |
| | Fluid Cylinder (valve chamber) | A48 Class 30 Cast Iron |
| | Liners (cylinders) | Solid Ceramic |
| | Packing Holder | C360 Brass |
| | Packing Nut | C360 Brass |
| | Valve Disc (Ball) | 440 Stn Stl |
| | Valve Seat | 440 Stn Stl |
| | Valve Spring | 17-7 Ph Stn Stl |
| | Valve Retainer | 416 Stn Stl |
| | Valve Cover | Carbon Steel |
| | Cylinder Gasket | Kevlar/Nitrile |
| | Valve Cover O-Ring | Buna-N |
| | | |
| | | |
| | | |
| | | |
| **POWER END** | | |
| | Power Frame (pump case) | A48 Class 30 Cast Iron |
| | Crankshaft | A536 GR 100-70-03 Ductile Iron |
| | Main Bearings | Steel-Tapered Roller Type |
| | Connecting Rod | A536 GR 80-55-06 Ductile Iron |
| | Crosshead | 416 Stn Stl |
| | Crosshead Extension (pony rod) | AISI 4140 Alloy Steel |

## Brake Horsepower Required For Specific Applications

$$= \frac{(GPM)\ (PSI)}{1450}$$

**Internal Gear Reduction Ratio= 3.6:1**

Example: $\frac{850\ RPM}{3.6}$ = 236 Crank RPM

| | Input RPM | | |
|---|---|---|---|
| | Minimum | Maximum | Max PSI |
| W1118B | 350 | 635 | 1000 |
| W1118D | 350 | 890 | 1000 |
| W1122B | 350 | 630 | 1000 |
| W1122D | 350 | 850 | 1000 |

## Technical Notes

1. Volumes indicated are based on 100% Volumetric Efficiency.
2. Horsepower required based on 85% Mechanical Efficiency.
3. Ratings are nominal speeds and pressures and may vary on FMC written approval.

**FMC Corporation**

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