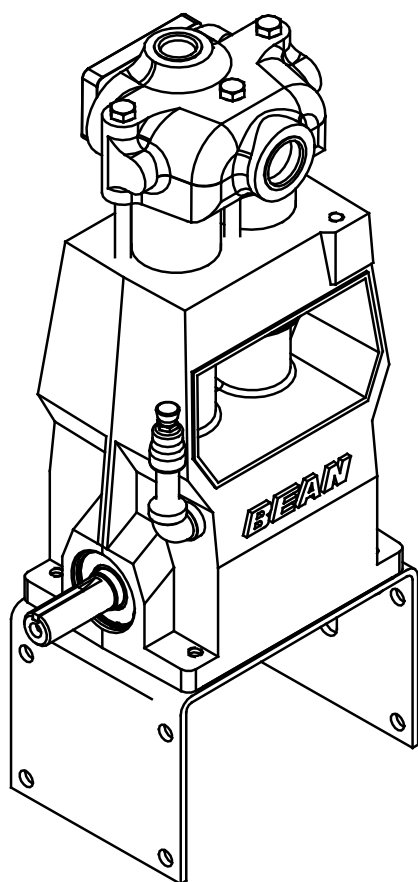


Ao4 Piston Pump Data

2.6 BHP Continuous Duty (3.2 BHP Intermittent Duty)

Ao4

Standard Cast ISO Drawing



Specifications

Pump Model	Ao4
Configuration	Ao4 Vertical Duplex Piston
Number of Pistons	2
Stroke Length	1.0 Inches
Frame Load Rating	1,140 lbs
Pump Weight (Average)	43 lbs
Direction of Rotation	Either
Internal Gear Ratio	NA
Intermittent Duty Speed Rating	500 RPM
Continuous Duty Speed Rating	400 RPM
Ball Valve Max Speed Rating	NA
Minimum Speed	300 RPM
Mechanical Efficiency	90%
Lubrication System (Standard)	Splash, Gravity Return
Lube Oil Capacity	1 Quart
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Minimum Fluid Temperature	0 °F (-20 °F Capability)
Standard Suction Size	1.00 Inch NPT
Standard Discharge Size	0.50 Inch NPT 0.75 Inch NPT
Fluid End Material	Cast Iron, Aluminum Bronze
Valve Types	Disc Valves
Hydraulic Motor Mount	SAE A - 2 Bolt with 7/8"-13T

Performance Table

Pump Model	Piston Diameter (in)	Displacement (GAL/REV)	Maximum Pressure (PSI)	Pump Capacity (GPM) @ Input Speed (RPM)				
				300 RPM	350 RPM	375 RPM	400 RPM	500 RPM
Ao410	1.250	0.0106	900	3.19	3.72	3.98	4.25	5.31
Ao411	1.375	0.0129	750	3.86	4.50	4.82	5.14	6.43
Ao413	1.625	0.0180	550	5.39	6.28	6.73	7.18	8.98

* Horsepower based on 85 or 90% mechanical efficiency. Actual application horsepower requirements can be calculated using the equation:
 $BHP = (GPM * PSI) / (1714 * 0.85 \text{ or } 0.90)$

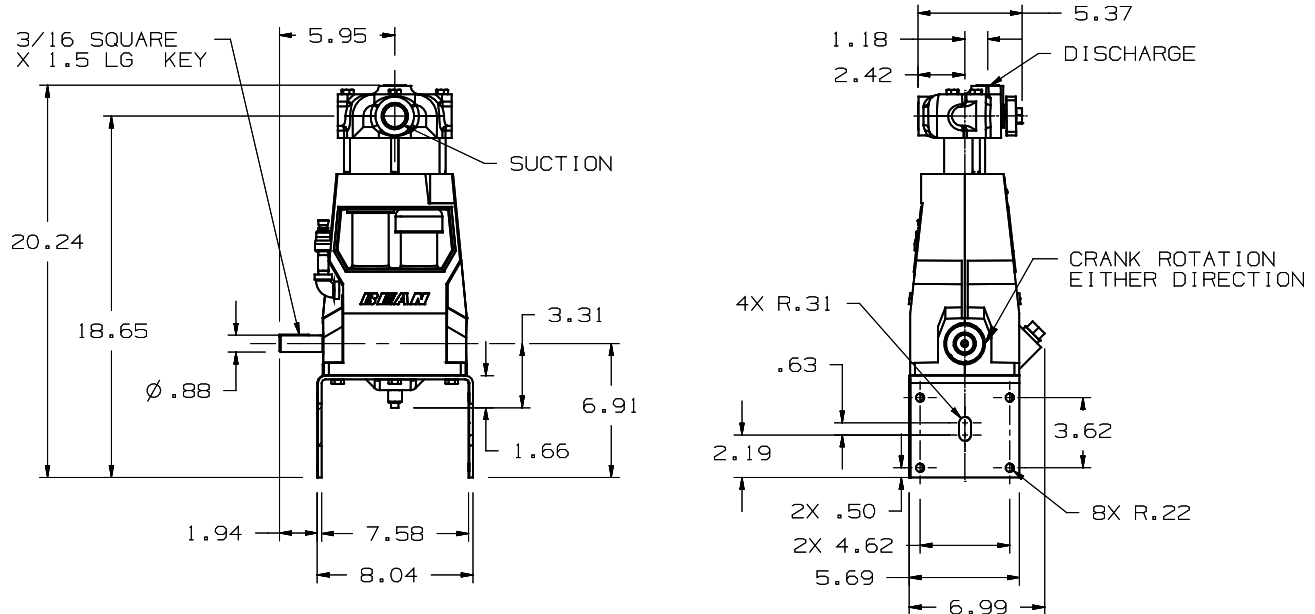
* Pump capacities shown are based on 100% volumetric efficiency.

* Dimensions shown are for general sizing purposes and should not be used for construction. Contact FMC for actual dimensions of pump ordered.

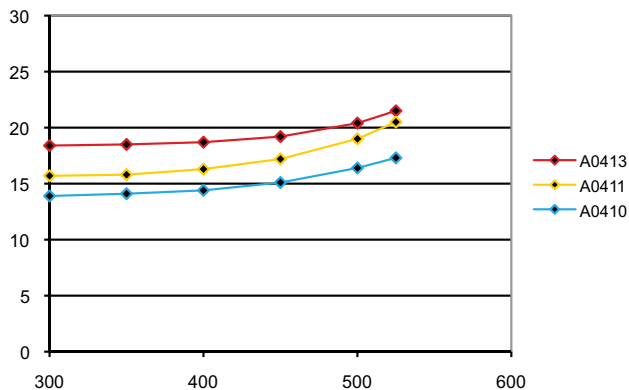
* FMC reserves the right to modify this information without prior notice.

Ao4

Cast Pump Engineering Dimensional Outline



Ao4 NPSHr value for Standard Disc Valves



- FMC recommends NPSHa (available) exceeds NPSHr (required) by 5 feet of water.
- Take special consideration when calculating NPSHa. Recalculate NPSHa after pump model has been selected for more accurate values.
- NPSHr values are in feet of water. If you are pumping a different liquid than water, convert the required NPSH from water to the liquid being pumped by dividing the published NPSHr value by the specific gravity of the liquid being pumped.
- FMC published NPSHr values are based on test data collected on specific pumps at the factory and are estimated values. Actual NPSHr values for an ordered pump can only be determined by a factor test. For NPSH critical applications, contact the factory for additional information and request an NPSHr test performed on your pump before shipment.
- Pump drawing dimensions in inches.

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