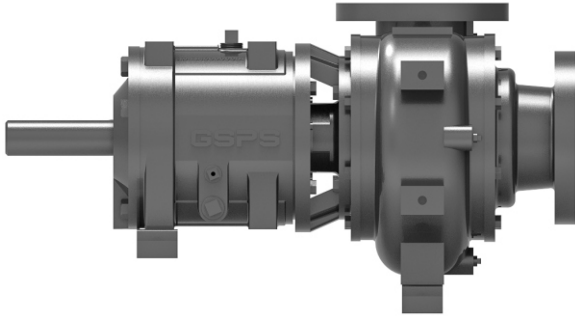


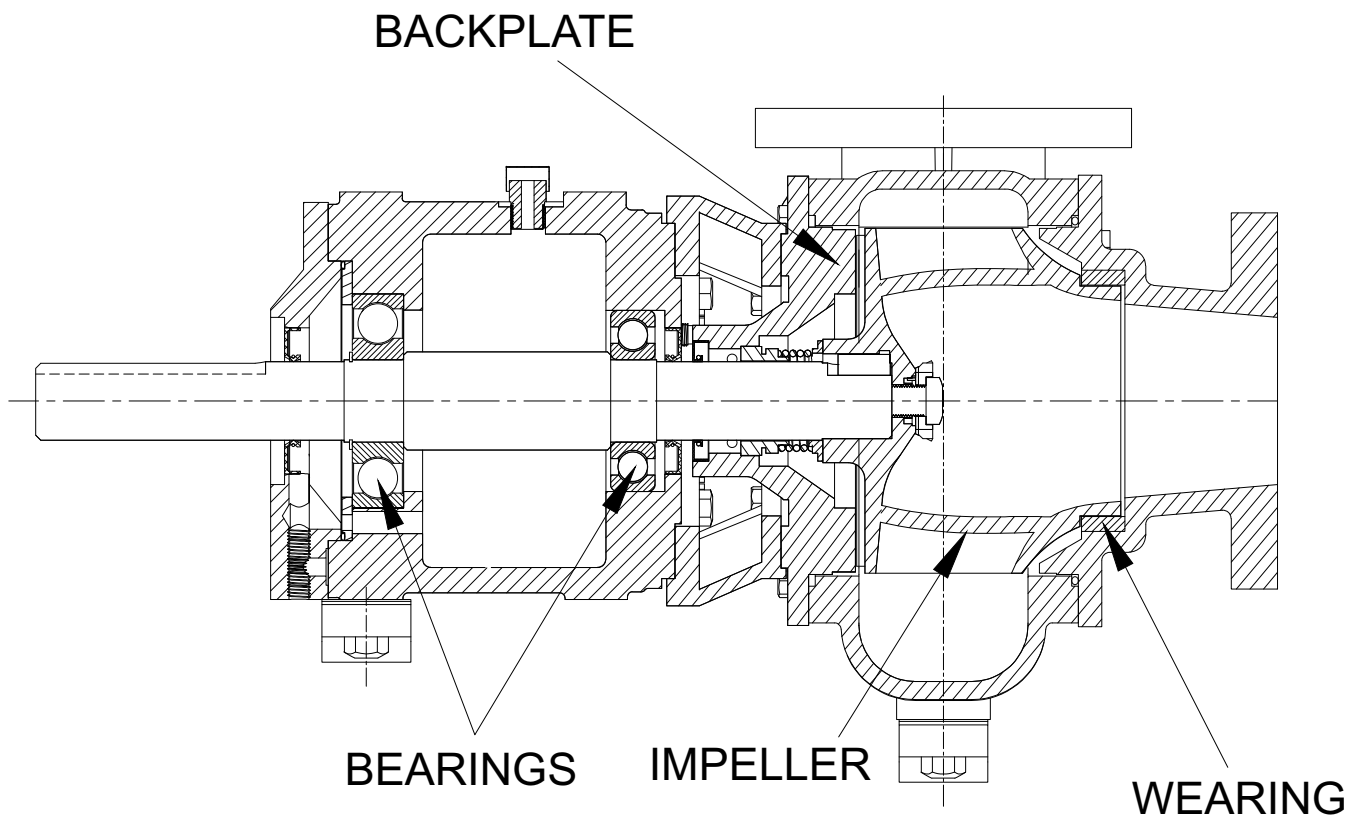


GSPS
Smart Pumps Powered By IIoT

MCL-P448S



- Size :MCL-P448S-4" discharge x 4" suction with 150# ductile iron flanges
- Casing : Ductile Iron
Impeller : Enclosed -2 vane . Handles 3.25" diameter solids
- Wear Rings : Replaceable
- Seal : with Run - Dry oil lubrication system . John Crane T -2 single mechanical seal with VitonR elastomers , stainless steel hardware and tungsten - vs . siliconcarbide seal faces for abrasion resistance
- Shaft : Heat treated 17-4PH stainless steel
- Bearings : Heavy duty , grease lubricated , deep groove ball bearings , with a minimum of 50,000 hours bearing life

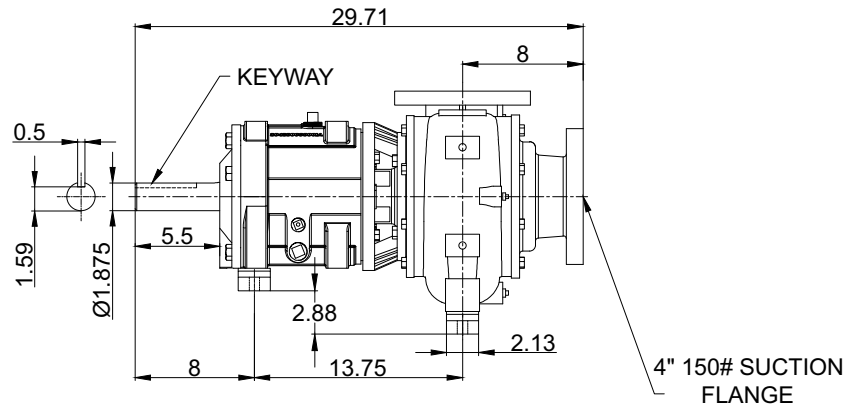
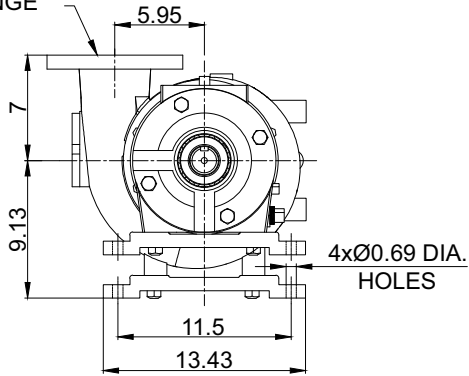




GSPS
Smart Pumps Powered By IIoT

MCL-P448S

4" 150# DISCHARGE
FLANGE



PERFORMANCE CURVES



MCL-P448S

Performance Curve

SUCTION: 4"
DISCHARGE: 4"
IMPELLER: 8.25"
SOLIDS SIZE: 3.25"

CALCULATING HORSEPOWER USING EFFICIENCY

$$\text{BHP} = \frac{\text{GPM} \times \text{FT} \times \text{SG}}{3960 \times \text{Efficiency}}$$

$$\text{KW} = \frac{\text{M}^3/\text{H} \times \text{M} \times \text{SG}}{367 \times \text{Efficiency}}$$

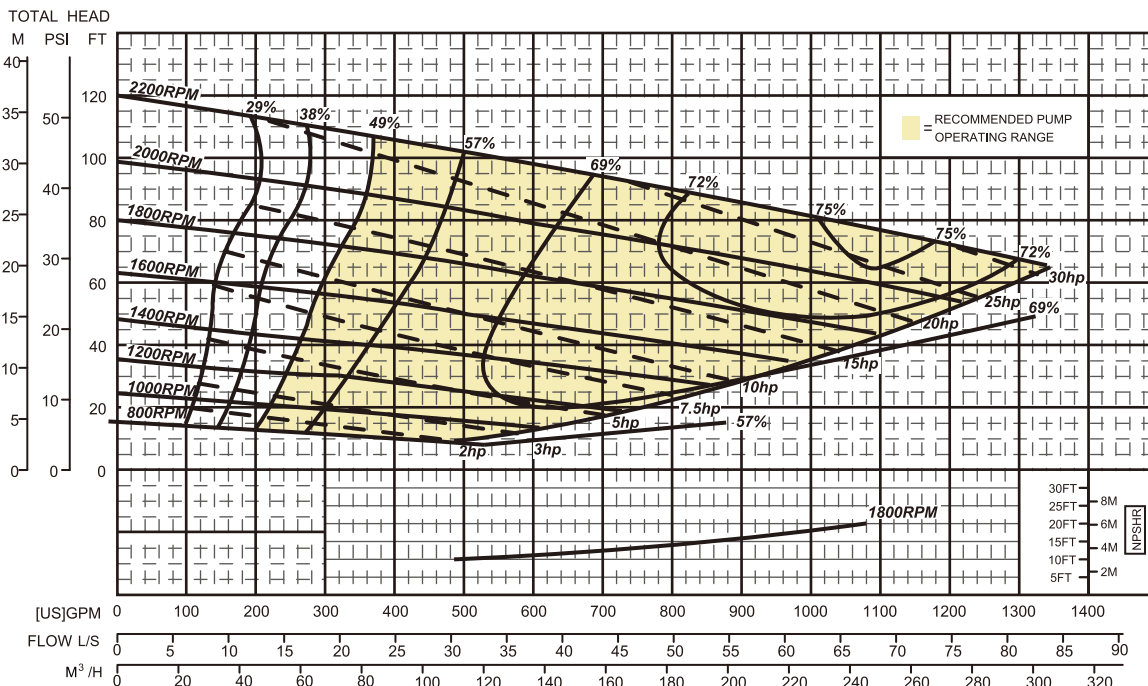
$$\text{FT} \times 0.305 = \text{M}$$

$$\text{INCH} \times 25.4 = \text{MM}$$

$$\text{GPM} \times 0.227 = \text{M}^3/\text{H}$$

$$\text{GPM} \times 3.785 = \text{L/M}$$

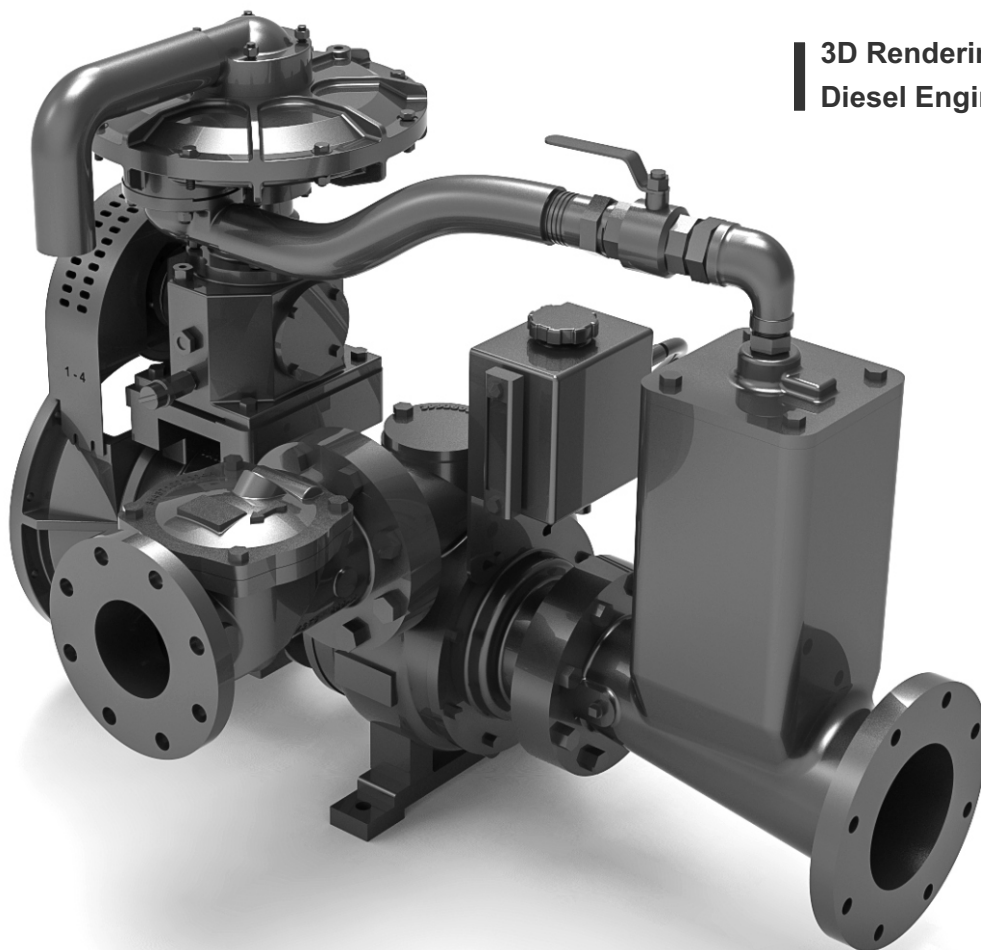
$$\text{HP} \times 0.746 = \text{KW}$$





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MCL-P448S



3D Rendering of
Diesel Engine Drive Assembly

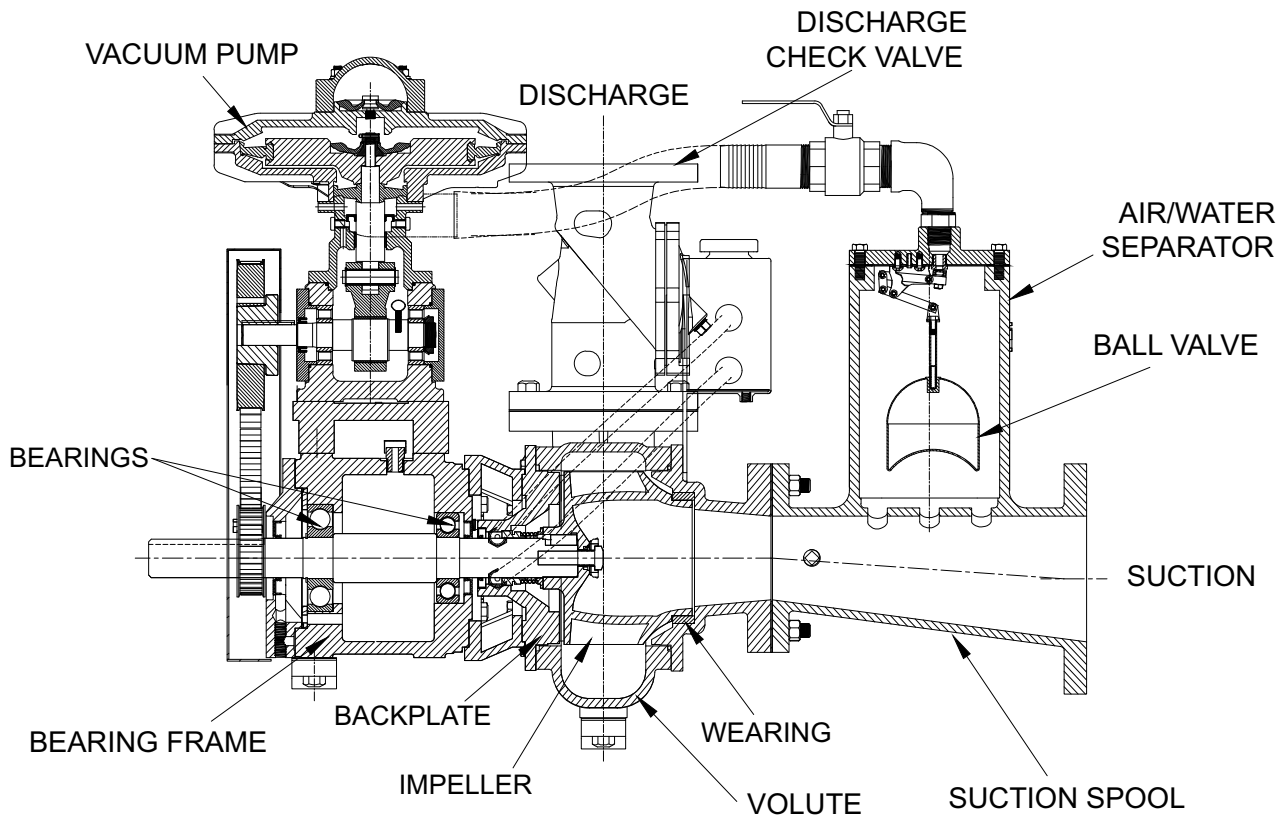
PUMP SPECIFICATIONS

- Size :MCL-P448S-4" discharge x 4" suction with 150# ductile iron flanges
Casing : Ductile Iron
- Impeller : Enclosed -2 vane . Handles 3.25" diameter solids · Wear Rings : Replaceable
- Seal : with Run - Dry oil lubrication system . John Crane T -2 single mechanical seal with VitonR elastomers ,
- stainless steel hardware and tungsten - vs . siliconcarbide seal faces for abrasion resistance
- Shaft : Heat treated 17-4PH stainless steel
- Bearings : Heavy duty , grease lubricated , deep groove ball bearings , with a minimum of 50,000 hours bearing life
- Hardware : Stainless steel float linkage
- A positive seating vacuum priming valve prevents water carry - over to the vacuum , pump or atmosphere
- Vacuum Pump -50 SCFM Maximum

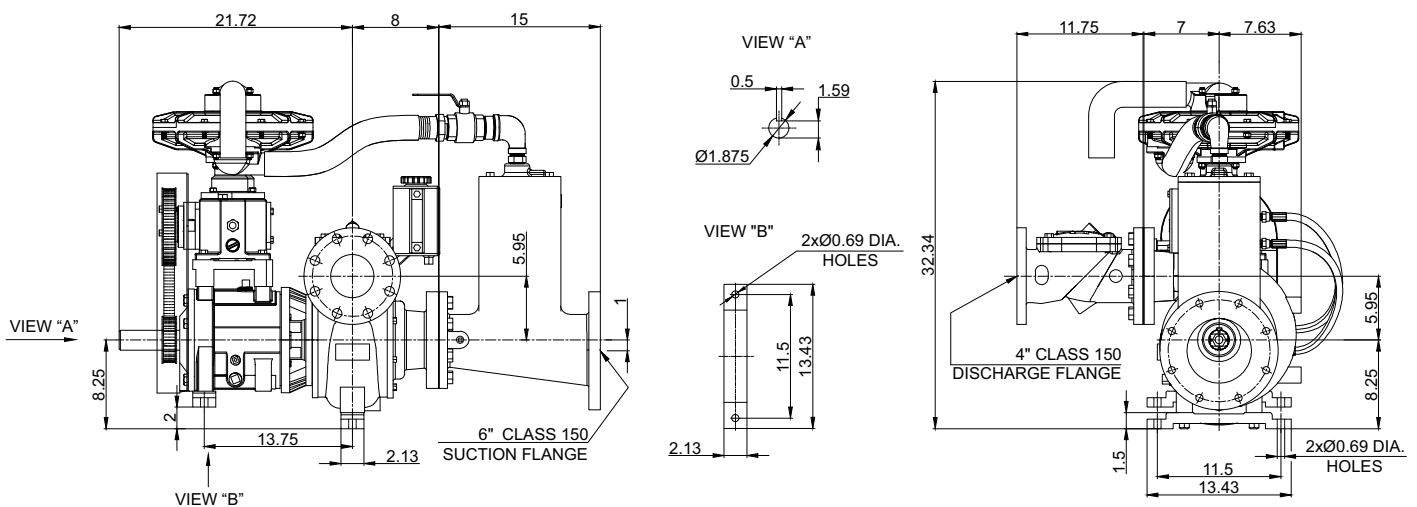


GSPS
Smart Pumps Powered By IIoT

MCL-P448S



PUMP DIMENSIONS - ELECTRICAL MOTOR DRIVEN

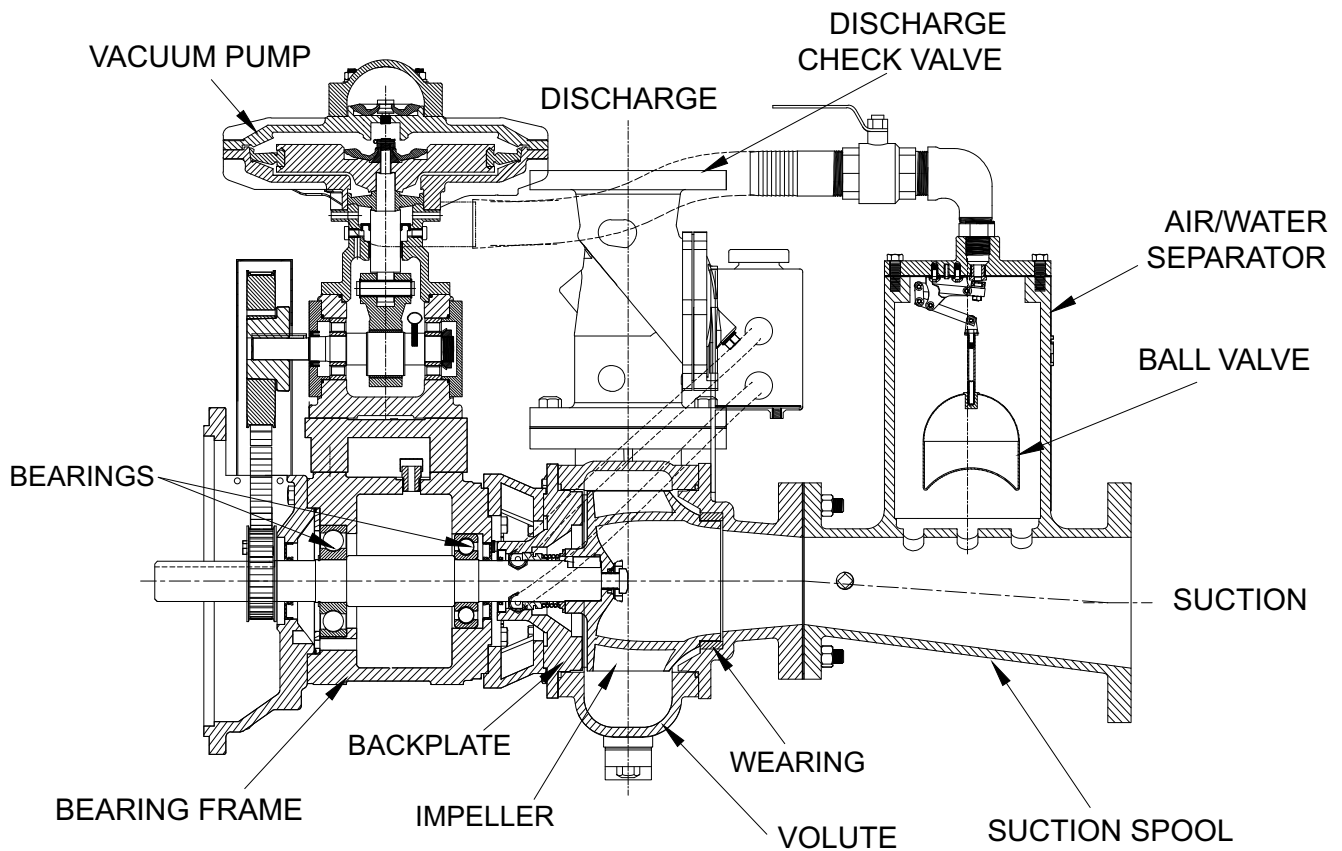


- NOTES:**
1. Flange connection dimension can vary ± 0.12 inch.
 2. Do not use for construction unless certified.

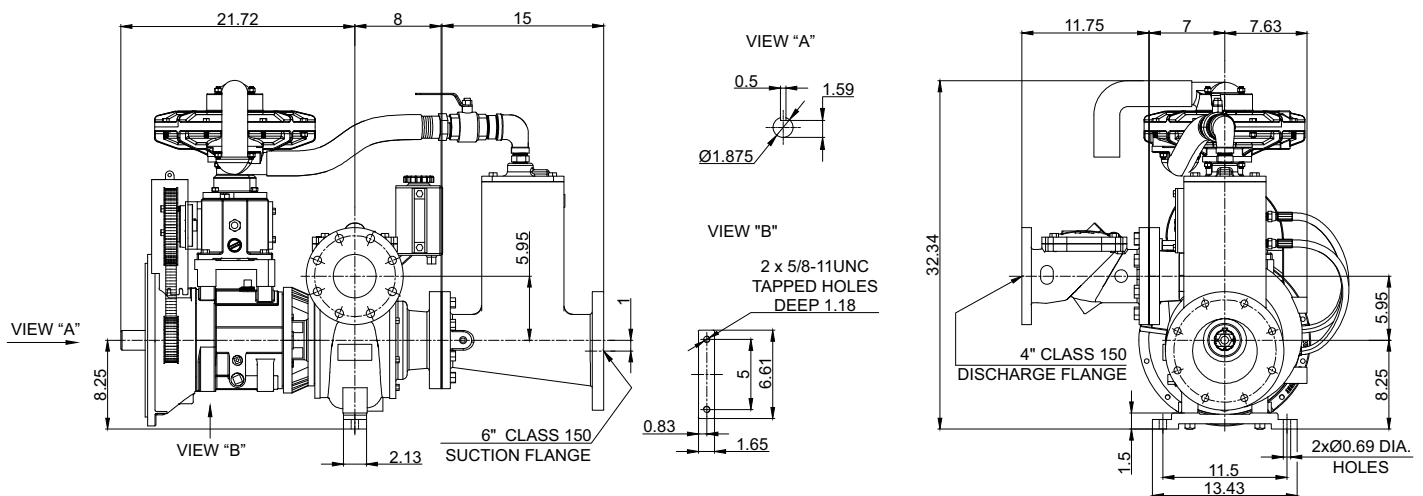


GSPS
Smart Pumps Powered By IIoT

MCL-P448S



PUMP DIMENSIONS - DIESEL ENGINE DRIVEN



- NOTES:**
1. Flange connection dimension can vary $\pm .12$ inch.
 2. Do not use for construction unless certified.