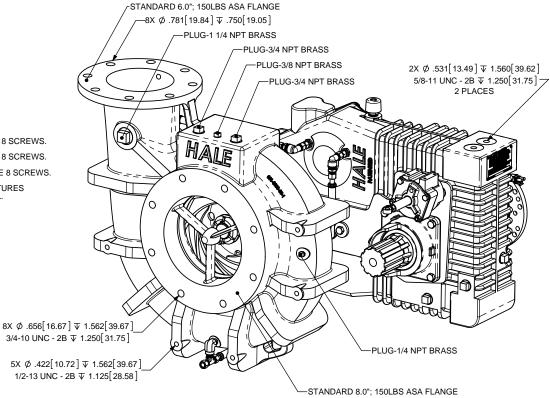
HALE MARINE TYPE 8FGF WITH HORIZONTAL XG GEARBOX **PUMP INSTALLATION**

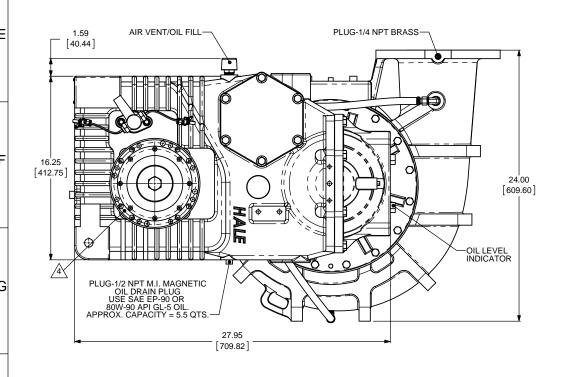
NOTES:

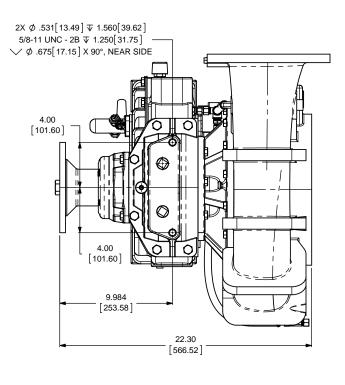
- SEE LIMIT CHART, HALE DOCUMENT F-72 FOR MAXIMUM ALLOWABLE PUMP PRESSURE, ENGINE HORSEPOWER AND TORQUE LIMITS FOR HALE CENTRIFUGAL PUMPS
- APPLY LOCTITE #246 HIGH TEMPERATURE THREAD LOCKER OR EQUIVALENT TO SCREW THREADS AND TORQUE SCREWS PER HALE ENGINEERING STANDARD ES018-002
- UNLESS OTHERWISE INDICATED FASTENERS ARE GRADE 5 ZINC PLATED STEEL.
- THE HALE COMBINATION FLANGE (OUTPUT) IS SIZED FOR SPICER 1600, 1700, AND 1800 SERIES FLANGES.
 - 1600 SERIES WITH 6-5/8" DIA FEMALE PILOT, USE (8) 3/8 DIA SAE GRADE 8 SCREWS.
 - 1700 SERIES WITH 7-3/4" DIA FEMALE PILOT, USE (8) 3/8 DIA SAE GRADE 8 SCREWS.
 - 1800 SERIES WITH 7-3/4" DIA FEMALE PILOT, USE (12) 3/8 DIA SAE GRADE 8 SCREWS.
- PUMP MUST BE INSTALLED IN COMPARTMENT WITH AMBIENT AIR TEMPERATURES ABOVE 32°F (0°C) TO PREVENT FREEZING WATER IN GEARBOX COOLER COIL.

| FOR ADDITIONAL OPTIONS AND ACCESSORIES REFER TO THE FOLLOWING DRAWINGS. | | | | |
|---|----------------|--|--|--|
| OPTION | DRAWING NUMBER | | | |
| ESP PRIMING PUMP | PL821 | | | |
| PVG PRIMING VALVE | PL480 | | | |
| SPV PRIMING VALVE | PL819 | | | |
| SPEED COUNTER ADAPTER | PL910 | | | |
| PUMP SHIFT INDICATOR LIGHTS | PL748 | | | |
| SG/LG/XLG GEARBOX ASSEMBLY | PL914 | | | |

|) | DIMENSION TABLE | | | | |
|---|-----------------|------------|-----------------|---------------|--|
| | PART NUMBER | PUMP MODEL | DIM "A" | DIM "B" | |
| | 501-00016-000 | 8FGF19XG | 16.25" [412.75] | 0.10" [2.540] | |
| | 501-00016-001 | 8FGF21XG | 16.06" [407.92] | 0.05" [1.270] | |
| | 501-00016-002 | 8FGF23XG | 15.91" [404.11] | 0.00" [0.000] | |





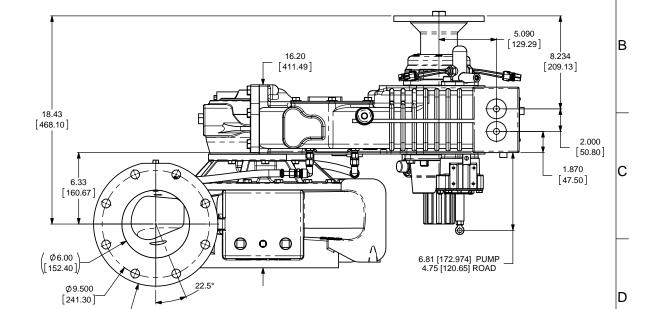


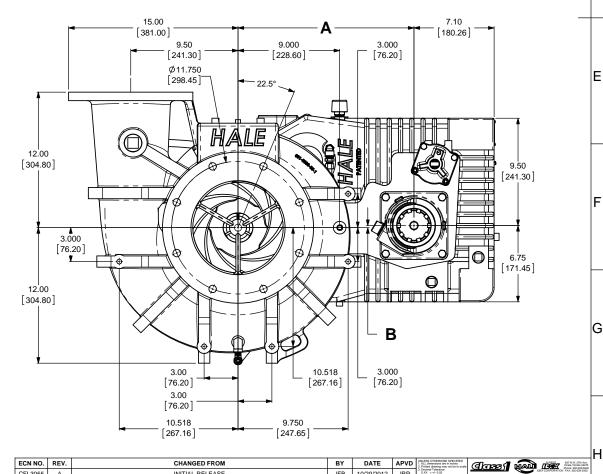
DRIVE LINE RECOMMENDATIONS

APPARATUS BUILDER SUPPLIED DRIVE LINES SHALL BE
OF APPROPRIATE SIZE TO MATCH THE CHASSIS AND
PUMP REQUIREMENTS WITH INDIVIDUAL JOINT CANCELLATION
AND PHASING BEFORE AND AFTER THE PUMP. DRIVE SHAFT BALANCE
(INCLUDING YOKES) SHALL NOT EXCEED THE RECOMMENDED LIMIT
OF EITHER THE DRIVE SHAFT OR CHASSIS TRANSMISSION
MANUFACTURER'S SPECIFICATION. DRIVE SHAFT FULL RANGE
OPERATING SPEEDS SHALL NOT EXCEED 42% OF ITS CRITICAL SPEED.

WARNING

8FGF MIDSHIP MAXIMUM PUMP PRESSURE





FSG-PL-01304

PUMP INSTALLATION D FSG-PL-01304

[279.40]

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