PUMP SPECIFICATIONS

50FB-M, 60FB-M, 60FJ-M, 80FC-M Pump End

DETAILED SPECIFICATIONS

SPECIAL NOTE:
When preparing the specifications for your new pumper, assure the use of a Hale pump by incorporating these pump specifications as written. No competitive pump can match Hale's construction or performance.

Pump Assembly

1. The pump shall be of a size and design to mount on industrial gas or diesel engine and have the capacity of ____ gallons per minute (U.S. gpm) @ _____ psi performance.

2. The entire pump end shall be manufactured and tested at the pump manufacturer's factory.

3. The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 500 PSI. The pump shall be fully tested at the pump manufacturer's factory to the performance spots. Pump shall be free from objectionable pulsation and vibration.

4. The pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI. All moving parts in contact with water shall be of high quality bronze or stainless steel. Pump utilizing castings made of lower tensile strength cast iron not acceptable.

5. Pump body shall be vertically split, on a single plane, for easy removal of the impeller, including clearance rings.

6. Pump shaft to be rigidly supported by a double row, heavy-duty, deep groove ball bearing for minimum deflection.

7. The pump shaft shall have only one mechanical seal. The mechanical seal shall be spring loaded, maintenance free and self-adjusting. (No exceptions.)

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9. Pump impeller shall be hard, fine grain bronze of the mixed flow design; accurately machined, hand-ground and individually balanced. The vanes of the impeller intake eye shall be hand-ground and polished to a sharp edge, and be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

10. Impeller clearance rings shall be bronze, easily renewable without replacing impellers or pump volute body.

11. The pump shaft shall be electric furnace heat-treated and corrosion resistant with a positive impeller lock. Pump shaft must be sealed with double lip oil seal to keep road dirt and water out of gearbox.

PUMP SPECIFICATIONS

Priming Pump

1. The priming pump shall be a positive displacement, oil-less rotary vane electric motor driven pump conforming to the requirements of NFPA 1901. The pump body shall be manufactured of heat treated anodized aluminum for wear and corrosion resistance.
2. The pump shall be capable of producing a minimum 24 Hg vacuum at 2000 feet above sea level.
3. The electric motor shall be a 12 VDC (or 24 VDC) totally enclosed unit.
4. The priming pump shall not require lubrication.
5. The priming pump shall be operated by a single push-pull control valve mounted on the pump operator panel. The control valve shall be of all bronze construction.

Drive Disc

A drive disc to connect to the engine flywheel shall be provided. Spring dampened disc shall be supplied for gasoline or 2-cycle diesel engines and an elastometic drive disc for 4-cycle diesel engines.

NOTE: The 50FB-M, 60FB-M, 60FJ-M and 80FC-M pump bodies are also available as an option in bronze.

NOTE: When rating the 80FC-M Pump end, over 2000 GPM it is recommended to use two priming pumps.