

Change to:

General Purpose Pump Systems Specification Sheet

Niagara General Purpose Electric Motor Driven Pump Systems are designed to provide safe operation and long, reliable life with the following features:

- Electrical
 - The power supply connects to a non-metallic, NEMA 4X motor starter.
 - Wiring is provided with liquid-tight PVC coated flexible steel conduit and fittings.
 - Motor: General purpose TEFC with rolled steel frame, class F insulation, dual rated 50/60 Hz, C-face (for direct coupling to the pump), Certified Class 1, Div 2, Groups A,B,C,D. IP55 ingress protection and suitable for VFD operations as per NEMA MG1 part 31.4.4.2
- Drive
 - Pump and motor are direct coupled.
 - The pump adapter is machined to fit the motor C-face.
 - Coupling and shafts are fully enclosed for personnel protection from rotating components.
 - The pump cannot be operated unless the pump adapter (which encloses the rotating components) is bolted directly to the motor which provides a fail-safe against operation without the guard (pump adapter) being in place.
- Pump
 - The high quality Giant Industries triplex plunger pumps are operated at or below the rated maximum speed and pressure. When operated below the rated maximum speed or pressure, the life of the pump is extended.
 - Industry rule-of-thumb: when a pump is operated at 50% of the

maximum rated pressure, the life of the pump is doubled and when operated at 50% of the maximum speed, the life of the pump is quadrupled.

- Where extended pump life is required, please see our pumps which are operated below the rated rpm.
- Detailed specifications, manuals and accessories are available online at www.Giantpumps.com, the first characters of the pressure washer part number is the Giant pump model number.

- Accessories and pressure controls

- The inlet is provided with a strainer to prevent debris from entering the pump and a thermal relief valve to prevent over temperature water from entering the pump.
- Pump outlets
 - One outlet is fitted with a safety relief valve which provides redundant over-pressure protection.
 - Another outlet is fitted with an unloader valve or a pressure regulating valve which are the primary pressure relief valves.
 - These high quality valves are rated at or above the designed operating pressure and flow.

- Frame

- Standard frame is compact heavy duty steel which is hot dip galvanized and provided with motor starter mounting bracket, forklift slots and mounting holes for optional bolt on casters.
- The enclosed forklift slots provide additional safety when being handled with a forklift.
- Optional fully enclosed cages with lift eyes are available.