



MISSION VCP-IR Single Stage Centrifugal Pump

The MISSION™ VCP-IR single stage, vertically mounted centrifugal pump now includes a new top pull out design ball bearing power frame, increasing the functionality of the well-known MISSION Magnum I vertical close-coupled pump

Design incorporates a spacer type flexible coupling to connect the pump shaft to a standard TC or TSC frame vertically mounted, shaft down, non-modified electric motor, offering ease of maintenance as well as a small foot print for installing pump in areas with limited floor space. Furnished with the optional articulated maintenance arm, the rotating assembly can now be accessed without disturbing the interconnecting piping or the electric motor driver, eliminating the need for costly and dangerous lifting equipment to remove a heavy close-coupled motor/pump assembly as well as significantly reducing the time required to replace pump impeller, shaft sleeve, mechanical seal, bearings and seals and other pump wear parts. Use of the standard TC frame motor driver provides shorter lead time and reduced cost for initial scope of supply and replacement motors. Machined motor stand with rabbit fit provides quick and accurate alignment of pump and motor shaft for long, trouble free operation. Machined suction stand with cast-in single or dual flanged inlet connections, includes foundation bolt holes for quick and easy mounting of unit and securing to foundation. Shimming under individual pump and driver equipment mounting feet is no longer required to level and align driver and driven shafts. Vertical units are available in the popular Mission pump sizes from 4 X 3 X 13 to 8 X 6 X 14 as well as a new size pump utilizing the Mission XP 8 X 6 X 18 pump for high head requirements such as pumping of drilling and completion fluids from offshore supply vessels to the mud pits on the top deck of offshore drilling structures.

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Features and benefits

- Removable and replaceable power frames
- Reduced foot print; unit occupies more vertical space in lieu of horizontal
- No cutting of electrical leads and rewiring to perform routine maintenance
- Replaceable casing wear pads furnished for pump sizes 4X3X13 through 8X6X14 to increase casing life cycle
- Single and double mechanical seals available
- Reduced maintenance time and increased safety from reduced weight of the components required for removal of rotating assembly
- Reduced down time