Horizontal Split Case HVAC Pumps

Flex-Coupled Configuration

Patterson EnviroFlo™ horizontal split case pumps offer a high-efficiency design that minimizes energy consumption, and provides easy serviceability without disturbing piping connections.

BENEFITS

- Gauge taps at the suction and discharge connections for complete monitoring flexibility
- Durable flex coupling absorbs vibration
- Variable speed rated coupling
- Heavy c-channel base aids in pump alignment
- Precision-cast, dynamically balanced bronze impeller minimizes vibration and maximizes bearing life
- Precision bearings and machining limit shaft deflection to only 0.002″ at the seal face

FEATURES

- Flows to 6,000 GPM, heads to 160′ TDH
- OSHA coupling guard accessible from both sides
- Class 30 cast iron body
- Standard case wear ring and grease-lubricated bearings
- Standard silicon carbide mechanical seal (optional: tungsten carbide) with external seal water flush line
- Every pump hydrostatically pressure-tested
- Optional 325 psi working pressure model with 250-lb discharge flanges @ 250°F
- Bronze fitted construction with bronze shaft sleeves standard; optional stainless steel shaft and stainless steel sleeve available

ENVIROFLO
HYDRONIC PUMPING SOLUTIONS

Pumping Technology for Tomorrow's World
Patterson®

SPECIFICATIONS: FLEX-COUPLED

Pumps shall be high efficiency, horizontal split case design; base mounted with OSHA approved coupling guard. The pumps shall be single stage, class 30 cast iron and capable of being serviced without disturbing piping connections. Pumps should be suitable for 175 psi working pressure (std.) or 325 psi (optional). Flanges shall be 125 lb. ANSI (std.) or 250 lb. ANSI (optional).

The pumps shall have case wear rings and grease lubricated bearings. The impeller shall be of the enclosed double suction type, bronze construction and shall be hydraulically and dynamically balanced. The impeller shall be keyed to the shaft and secured by lock nuts.

The pumps shall have a replaceable bronze or stainless steel shaft sleeve and shall cover the liquid area under the seal. The pump shall have a mechanical seal type carbon vs. silicon carbide with seal water flush line (optional: tungsten carbide). Seal shall be suitable for continuous operation at 250°F.

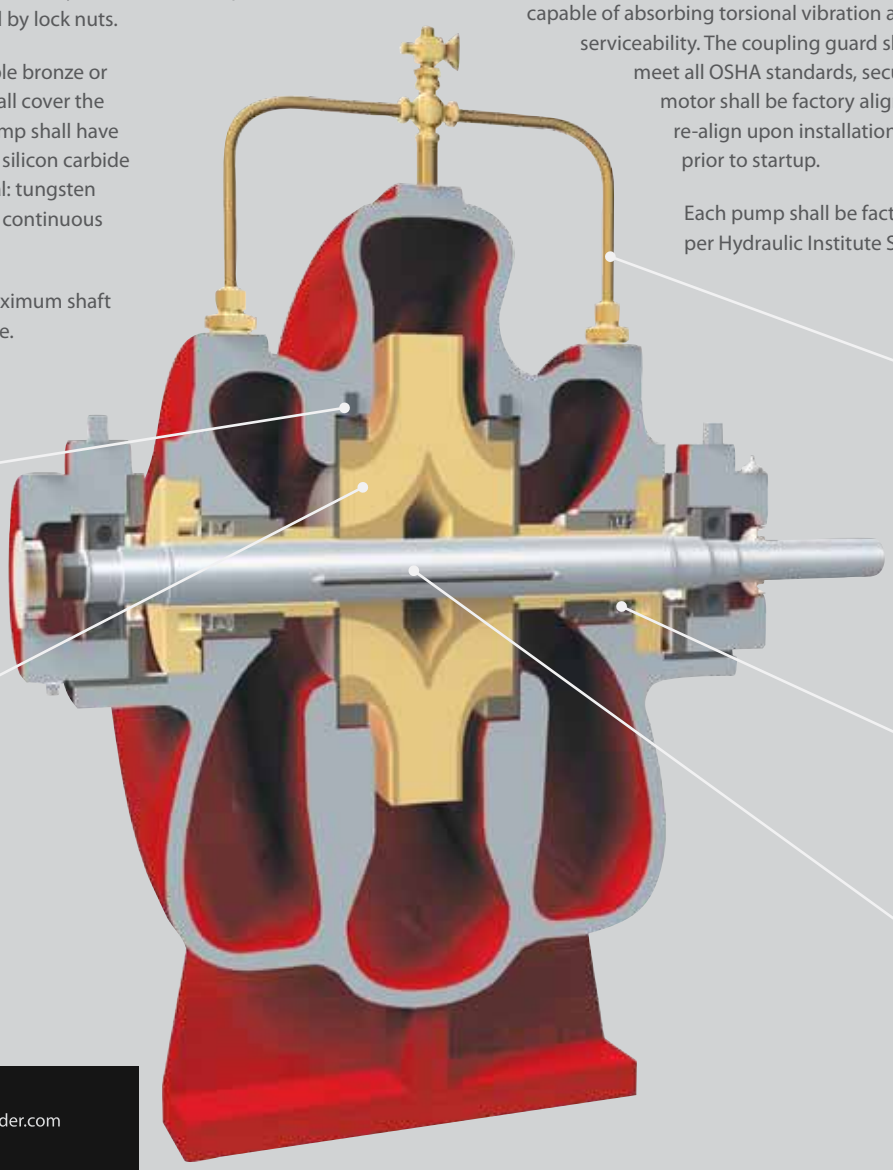
Pumps shall be designed for a maximum shaft deflection of 0.002" at the seal face.

Casing shall have tapped holes on the suction and discharge to accommodate gauges, fittings and drain ports.

Motors shall be EPAC/Nema rated and shall be of the size, voltage, and enclosure (ODP/TEFC) as outlined in the plans and specifications. The motor shall be non-overloading throughout the entirety of the pump performance curve (optional: Premium efficiency motor).

A flexible coupling shall be sized for non-overloading conditions and capable of absorbing torsional vibration and VFD approved ease of serviceability. The coupling guard shall be of safety yellow and meet all OSHA standards, secured to the base. Pump and motor shall be factory aligned. The contractor shall re-align upon installation of pump unit assembly prior to startup.

Each pump shall be factory hydrostatically tested per Hydraulic Institute Standards.



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