

SERIES 3620

MODEL HM(2)

TWO-STAGE STAGE

FLEX-COUPLED SPLIT CASE

Sizes: 5" Discharge
Flows: To 1,400 GPM
Heads: To 1,250 Feet
Temp: To 400°F

Services:

Cooling Water
 Raw Water Intake
 Municipal Water Supply
 Condenser Circulating
 Boiler Feed
 Industrial Process

ROTATING ASSEMBLY

- Includes investment cast, 304 stainless steel, single suction impeller
- Modular design maximizes the sharing of common components
- 304 stainless steel shaft sleeves completely protect the shaft from wear and corrosion
- 304 stainless steel gland assemblies ensure that packing can be adjusted without the worry of corrosion
- Tongue & groove style design for throat bushings, stage pieces and all case wear rings keep pressure losses at a minimum
- 304 stainless steel shaft sleeve nuts are located outside of the fluid chamber minimizing corrosion and allowing for an easier disassembly when the need for service arises

CASING

- Supplied standard in ASTM A48 class 30 cast iron
- Heavy wall thickness for corrosion allowance and high pressure applications
- Horizontally split to permit complete access to the rotating assembly as well as jackscrews to aid in the casing top removal
- Double volute design on both stages significantly reduces radial loads on shafting and allows for a more compact & efficient design
- Cast integral vortex suppressor in casing top at each impeller eye designed to reduce vortexing of fluid prior to it entering the impeller eye
- Threaded taps for gauges and pressure relief valve
- Dedicated cast support for the nameplate allows for a high visibility design
- Suction & discharge gauge package with 304 stainless steel buffer tube, fittings and ball valves
- Suction and discharge flanges supplied in 250 PSI rating with raised face for high pressure applications

SHAFT SEALING

- Wide variety of packing available and supplied standard
- Component, single cartridge and/or double cartridge mechanical seals can be supplied upon request

SHAFT ASSEMBLY

- 420 stainless steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Designed and sized specifically for the aggressive fire protection markets

CASE WEAR RINGS

- Supplied in standard bronze or other specified alloy
- Tongue & groove case wear rings are renewable which will renew factory running clearances and performance
- Machined in a proprietary process eliminating pins to prevent rotation during operation

IMPELLERS

- Supplied standard in investment cast, 304 stainless steel
- Opposed impeller design allows for hydraulically balanced rotor with broad band, high efficiency performance
- Machined and dynamically balanced prior to assembly

WATER JACKETS

- Water cooled seal chamber and bearing housing ensure lower operating temperatures in high temperature boiler feed applications
- Bearing housing features a water passage around the split housing ensuring no cooling water can penetrate the bearing housing leakage

BEARING HOUSINGS

- Cartridge style bearings are completely removable and replaceable without the need for casing top removal
- Both inboard & outboard bearings can be inspected and replaced without the need for complete pump disassembly
- Designed for a minimum 50,000 hour bearing life using 5300 series, double row, deep groove inboard and 7300 series duplex, angular contact outboard bearings provide superior axial and radial support
- Ring-oiled lubrication skims clean oil from the surface of the oil sump for superior lubrication