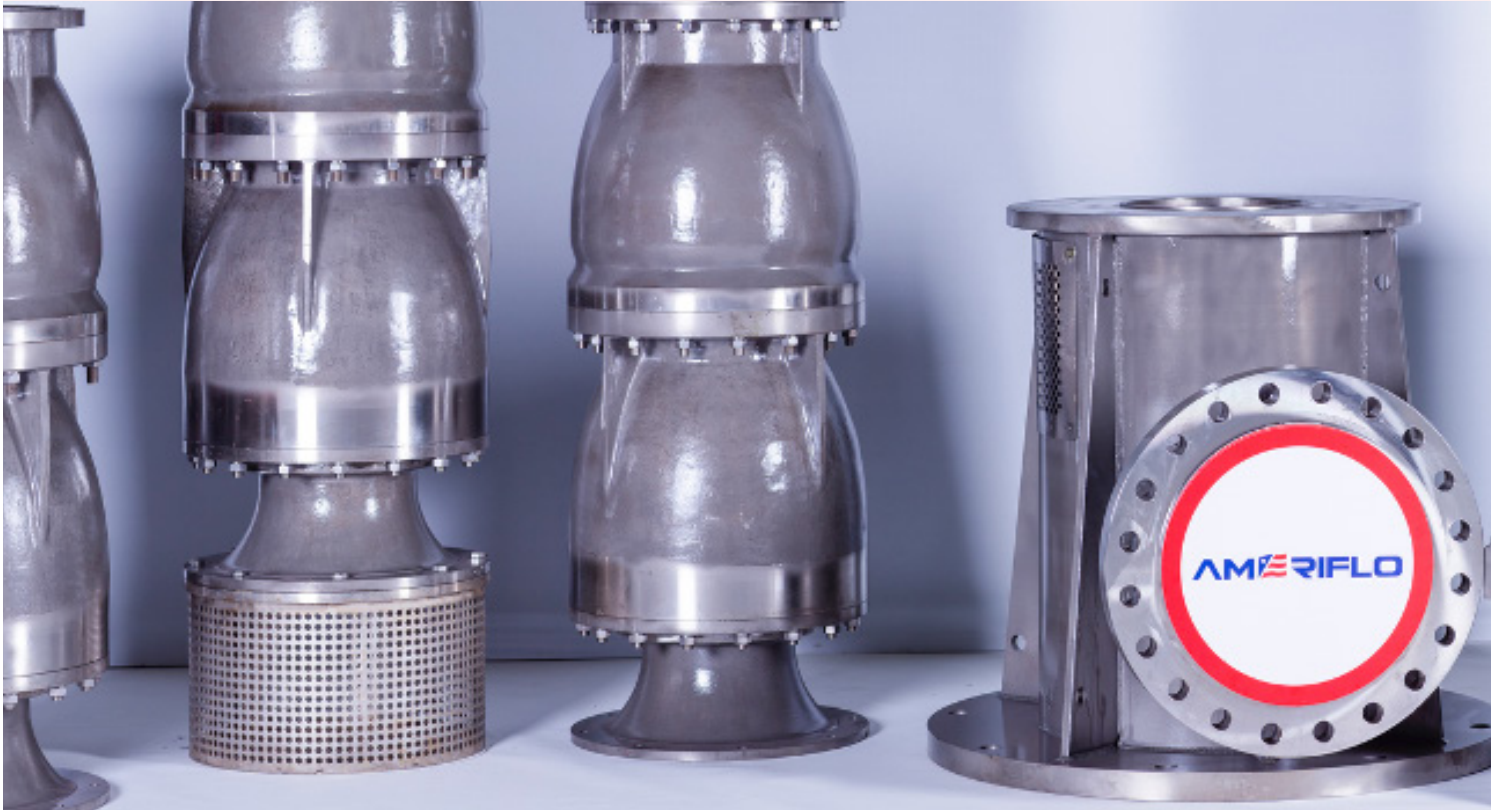




The AMERIFLO vertical turbine product line has the most diverse hydraulic, third party certified coverage offered in the fire protection industry. With third party certified flows from 100 GPM through an incredible 6,000 GPM, you will not find a more complete offering anywhere in the world. With state of the art design and manufacturing facilities, AMERIFLO uses computational fluid dynamics and solid works software to design the most efficient product available today.

All product is designed using 3D modeling to make the most efficient use of space at the job site. These products are fully compliant with NFPA 20 and are available in a variety of third party certified materials for sea water applications.



TYPICAL INSTALLATIONS:

- Residential buildings
- Commercial
- Hospitals
- Hotels
- Oil & gas
- Airports
- Power stations
- Sea water

TYPICAL APPLICATIONS:

- Water curtains
- Sprinkler
- Monitor systems
- Water curtains



SERIES 5040

MODEL VT

VERTICAL TURBINE

Sizes: 4" to 16" Discharge
Flows: 100 GPM to 6,000 GPM
Heads: 40 PSI to 610 PSI
Temp: To 250°F

Services:

Fire Protection



DISCHARGE HEAD

- Supplied standard in ASTM A36 carbon steel
- All discharge heads feature a dual safety guard designed to completely protect the user from all rotating parts
- Dedicated support for the nameplate allows for a high visibility design
- Discharge gauge package with 304 stainless steel buffer tube, fittings and ball valves
- Discharge flanges supplied in 250 PSI rating with raised face for high pressure applications
- Integral drip basin with threaded connection collects all packing leakage
- Alternate metallurgy options available upon request

DRIVER

- Vertical hollowshaft (VHS), vertical solid shaft (VSS) or right angle gear drive (RAG)(when Diesel engine driven) driver construction
- Options include non-reverse ratchet (NRR) or self release coupling (SRC)
- Thrust bearing designed to carry all axial thrust generated by vertical turbine bowl assembly
- The top adjusting nut (VHS orientation) allows for the adjustment of lateral

PACKING HOUSING KIT

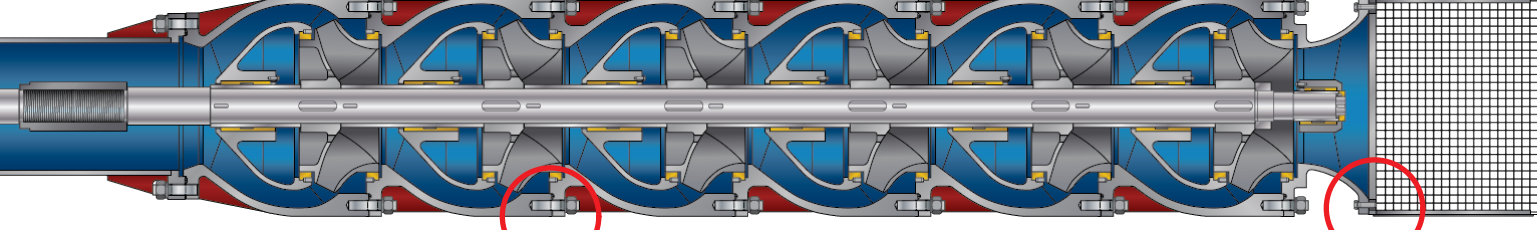
- Modular design maximizes the sharing of common components
- 304 stainless steel shaft sleeves completely protect the shaft from wear and corrosion
- 304 stainless steel gland assemblies ensure that packing can be adjusted without the worry of corrosion
- High pressure bypass port minimizes packing leakage on high pressure applications
- Labyrinth style design for lower and upper throat bushings 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

BOWL ASSEMBLY

- Supplied standard in ASTM A536 ductile iron
- Heavy wall thickness for corrosion allowance and high pressure applications
- Includes investment cast, 304 stainless steel, single suction impellers with hydraulic balancing holes to minimize axial thrust
- Pinned dual case wear rings (1 upper and 1 lower) completely protecting the bowl assembly
- 304 stainless steel shaft sleeves completely protect the shaft from wear and corrosion
- Francis impeller design allows for broad band, high efficiency performance
- Impellers are machined and dynamically balanced prior to assembly
- 4340 quenched and tempered high chrome steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Keyed impeller construction for high pressure applications
- Bronze bowl bearings
- All stages feature o-ring construction making sure no leakage is present
- Alternate metallurgy options available upon request

COLUMN ASSEMBLY

- Heavy wall, carbon steel construction
- Flanged construction makes assembly and disassembly very easy
- 4340 quenched and tempered high chrome steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Product lubricated lineshaft bearings with integral 304 stainless steel lineshaft sleeve
- Overall length (OAL) is engineered to meet the requirements at the job-site
- All flanges feature o-ring construction making sure no leakage is present
- Smaller HP models feature threaded lineshaft couplings while larger sizes have keyed lineshaft couplings standard
- Alternate metallurgy options available upon request



STRAINER

- Supplied standard in 304 stainless steel construction
- Protects the bowl assembly from large solids that may be present in the pumped fluid
- Alternate metallurgy options available upon request



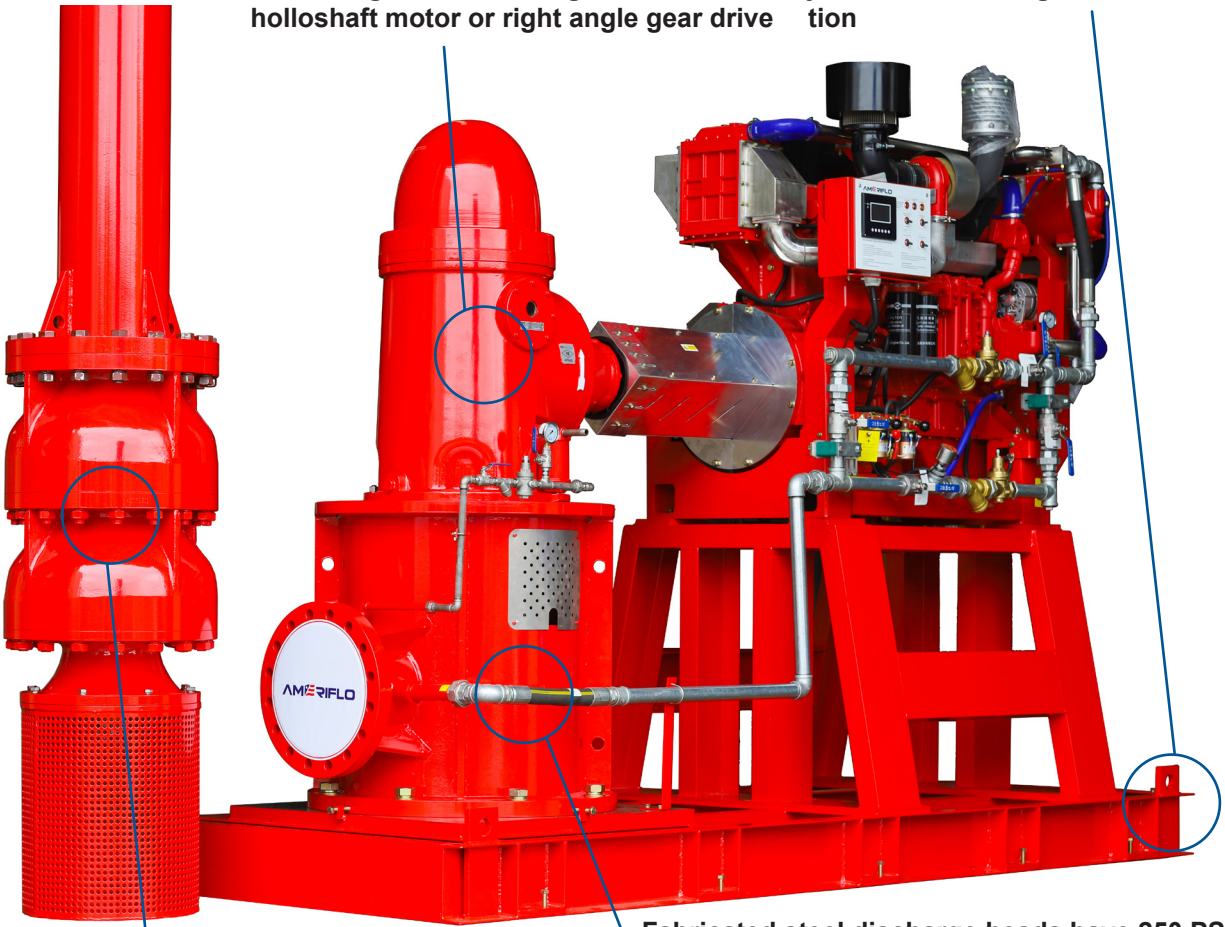
FRESH & SEA WATER CONSTRUCTION

MODEL

SERIES 5040 VT VERTICAL TURBINE

Flexible design allows for electric or Diesel engine driver using a vertical holloshaft motor or right angle gear drive

Fabricated steel I-beam bases feature jack-screw leveling to aid in field installation



Flanged bowl assemblies with o-ring construction feature hydraulically balanced, investment cast 304 stainless steel impellers, upper and lower bowl wear rings, heavy duty bowl bearings with retainers and 304 stainless steel basket strainer

Fabricated steel discharge heads have 250 PSI ANSI raised face flanges, integral coupling guard and easy to adjust high pressure packing housing kit with double shaft sleeve construction



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SERIES 5040 VT VERTICAL TURBINE PRODUCT LINE
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