

The AMERIFLO split case product line has the most diverse hydraulic, third party certified coverage offered in the fire protection industry. With third party certified flows from 300 GPM through an incredible 8,000 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 split case product available from any manufacturer today with the lowest documented horsepower.

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 5030

MODEL SC

SINGLE STAGE
FLEX-COUPLED SPLIT CASE

Sizes: 3" to 14" Discharge
Flows: 300 GPM to 8,000 GPM
Heads: 40 PSI to 367 PSI
Temp: To 250°F

Services:
Fire Protection



SHAFT ASSEMBLY

- 4340 quenched and tempered high chrome 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

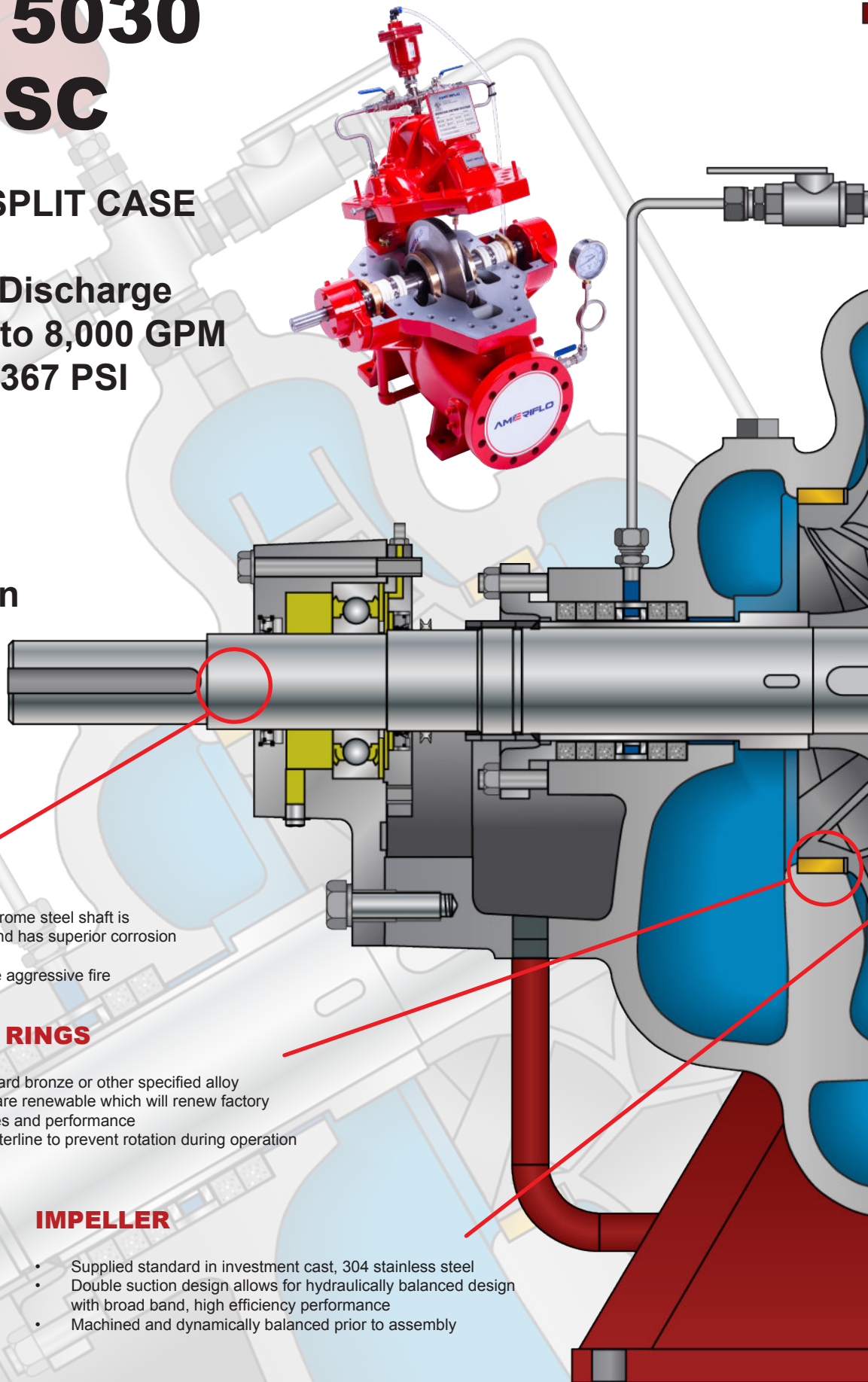
- Supplied in standard bronze or other specified alloy
- Case wear rings are renewable which will renew factory running clearances and performance
- Pinned at the centerline to prevent rotation during operation

IMPELLER

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

AMERIFLO

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CASING

- Supplied standard in ASTM A536 ductile iron
- Heavy wall thickness for corrosion allowance and high pressure applications
- Horizontally split to permit complete access to the rotating assembly
- Casing assembly design features pry bar locations at each quadrant as well as jackscrews to aid in the casing top removal
- Double volute design 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
- Flush plan features 304 stainless steel tubing and valves to control packing lubrication
- 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
- Alternate metallurgy options available upon request

ROTATING ASSEMBLY

- Includes investment cast, 304 stainless steel, double 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
- 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

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 6300 series, deep groove inboard and outboard bearings provide superior axial and radial support
- Specifiable purge grease lubrication design allows new grease to be installed while purging old grease through bottom purge port
- Each bearing housing is protected from containments by using lip seals at every location where the shaft enters the housings

SINGLE POINT DRAIN

- Both packing housing chambers have pre-plumbed drain connected and routed to a single point for ease in collection of packing leakage

Flush plan features all 304 stainless steel tubing and valves to control packing leakage

Investment cast, 304 stainless steel impellers with heavy duty bronze case wear ring allows for renewable factory running clearances

Shaft assemblies are constructed out of 420 stainless steel

Bearing housings feature purge grease lubrication

Single point drain connection simplifies the collection of packing leakage

Heavy duty ribbed, ductile iron casing with double volute for high efficiency operation

Every casing assembly features pry-bar locations and jackscrews to aid in pump disassembly

All pump models have 304 stainless steel buffer tube and valves for mounting of glycerin filled suction and discharge gauges

Heavy duty ductile iron casing with 250# raised face flanges with drilled and tapped gauge connections at suction and discharge location

