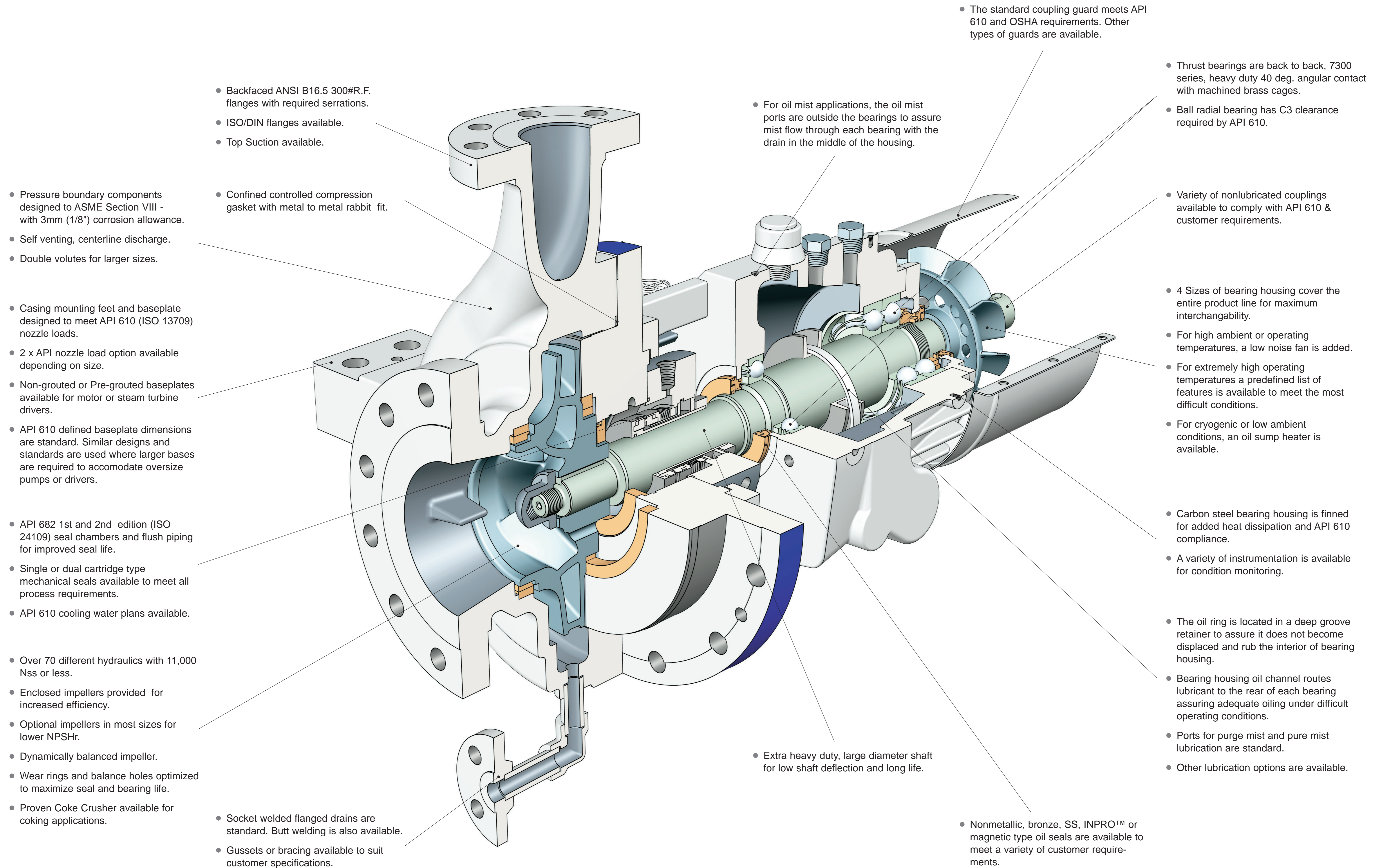


Process Pumps Type OHH API 610 9th Edition (ISO 13709)

SULZER



- Backfaced ANSI B16.5 300#R.F. flanges with required serrations.
- ISO/DIN flanges available.
- Top Suction available.

- Pressure boundary components designed to ASME Section VIII - with 3mm (1/8") corrosion allowance.
- Self venting, centerline discharge.
- Double volutes for larger sizes.

- Casing mounting feet and baseplate designed to meet API 610 (ISO 13709) nozzle loads.
- 2 x API nozzle load option available depending on size.
- Non-grouted or Pre-grouted baseplates available for motor or steam turbine drivers.
- API 610 defined baseplate dimensions are standard. Similar designs and standards are used where larger bases are required to accommodate oversize pumps or drivers.

- API 682 1st and 2nd edition (ISO 24109) seal chambers and flush piping for improved seal life.
- Single or dual cartridge type mechanical seals available to meet all process requirements.
- API 610 cooling water plans available.

- Over 70 different hydraulics with 11,000 Nss or less.
- Enclosed impellers provided for increased efficiency.
- Optional impellers in most sizes for lower NPSHr.
- Dynamically balanced impeller.
- Wear rings and balance holes optimized to maximize seal and bearing life.
- Proven Coke Crusher available for coking applications.

- Socket welded flanged drains are standard. Butt welding is also available.
- Gussets or bracing available to suit customer specifications.

- For oil mist applications, the oil mist ports are outside the bearings to assure mist flow through each bearing with the drain in the middle of the housing.

- Extra heavy duty, large diameter shaft for low shaft deflection and long life.

- The standard coupling guard meets API 610 and OSHA requirements. Other types of guards are available.

- Thrust bearings are back to back, 7300 series, heavy duty 40 deg. angular contact with machined brass cages.
- Ball radial bearing has C3 clearance required by API 610.

- Variety of nonlubricated couplings available to comply with API 610 & customer requirements.

- 4 Sizes of bearing housing cover the entire product line for maximum interchangeability.
- For high ambient or operating temperatures, a low noise fan is added.
- For extremely high operating temperatures a predefined list of features is available to meet the most difficult conditions.
- For cryogenic or low ambient conditions, an oil sump heater is available.

- Carbon steel bearing housing is finned for added heat dissipation and API 610 compliance.
- A variety of instrumentation is available for condition monitoring.

- The oil ring is located in a deep groove retainer to assure it does not become displaced and rub the interior of bearing housing.
- Bearing housing oil channel routes lubricant to the rear of each bearing assuring adequate oiling under difficult operating conditions.
- Ports for purge mist and pure mist lubrication are standard.
- Other lubrication options are available.

- Nonmetallic, bronze, SS, INPRO™ or magnetic type oil seals are available to meet a variety of customer requirements.