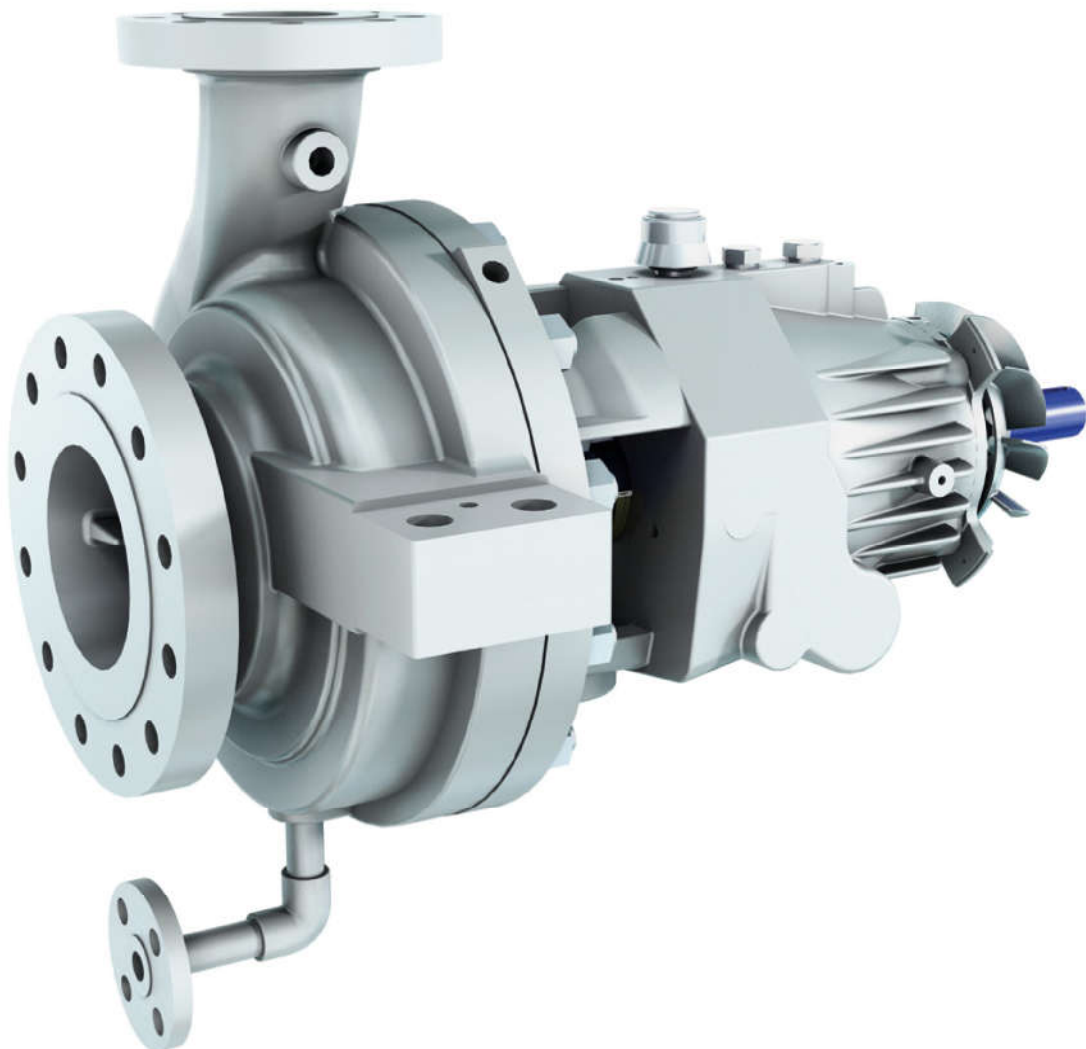


SOURCE

**SOB ISO 13709 (API 610 11th) Type
OH2 Single Stage End Suction
Process Pumps**



SOB Process Pumps



Oil & Gas



Hydrocarbon
Processing
Industry



Power
Generation



Pulp and
Paper



General
Industry



Chemical
Processing
Industry

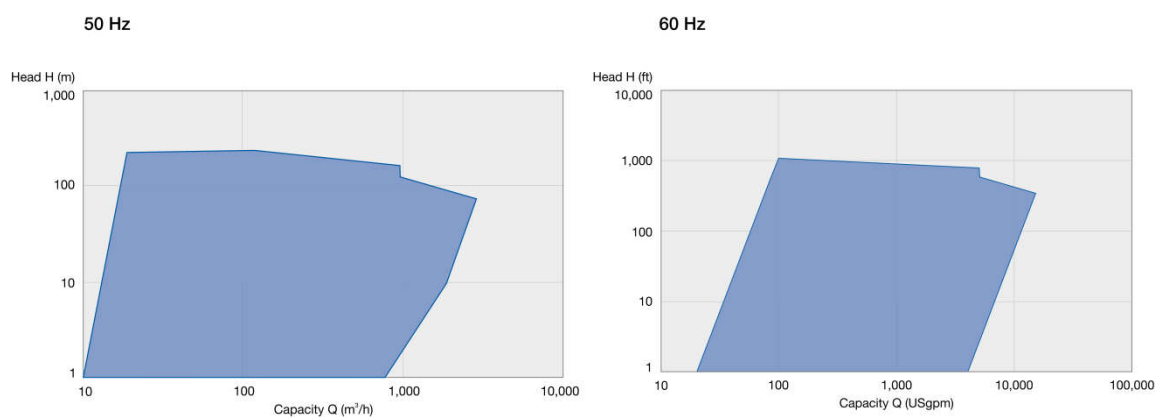


Water

Operate Data

50 Hz		60 Hz
25 to 400 mm	Pump sizes	1 to 16 inches
up to 2,250 m ³ /h	Capacities	up to 10,000 USgpm
up to 370 m	Heads	up to 1,200 feet
up to 75 bar	Pressures	up to 1,100 psi
-75 to 425 °C	Temperatures	-100 to 800 °F

Performance Range



SOB Process Pumps

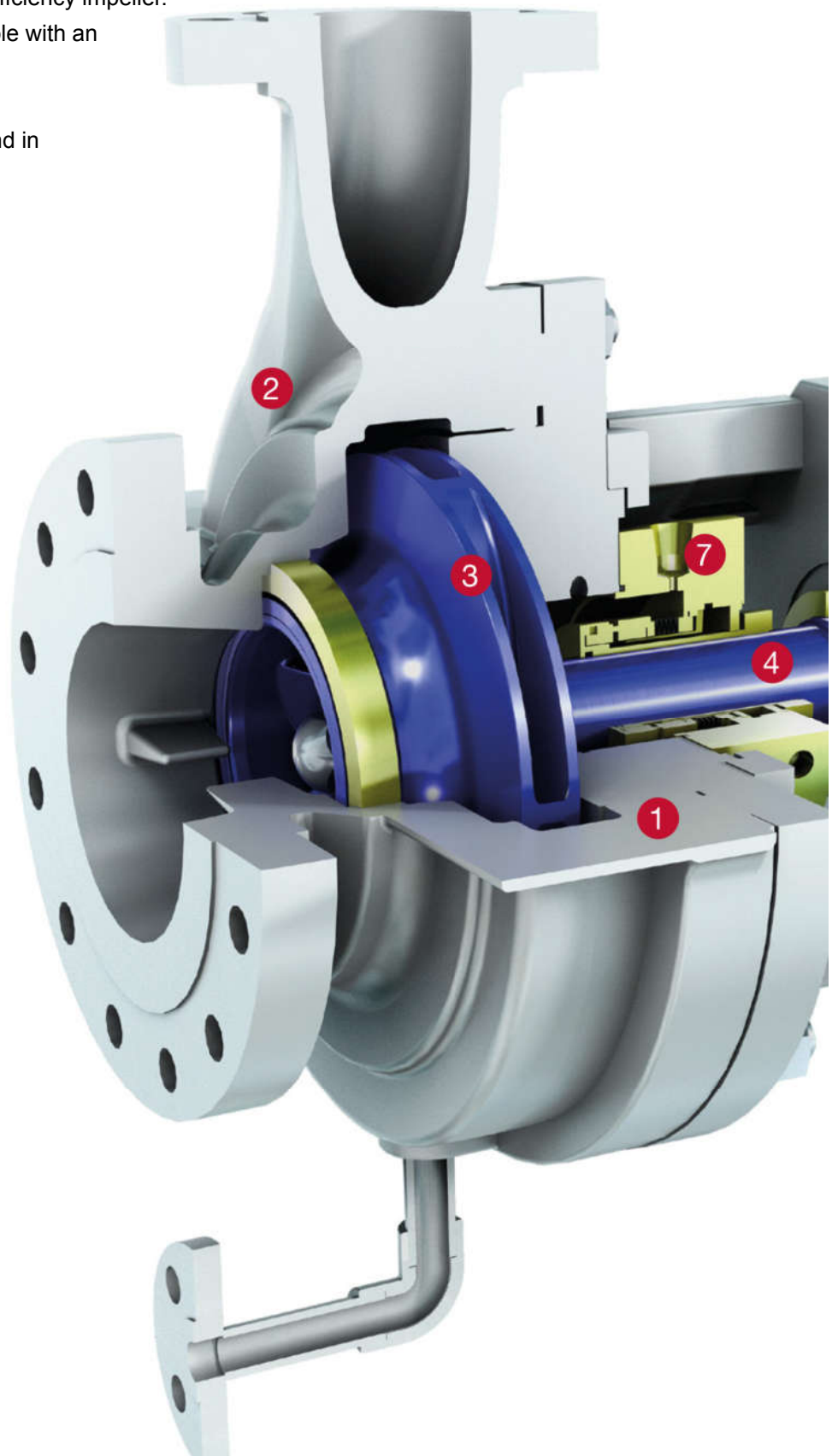
API 610 Material Codes

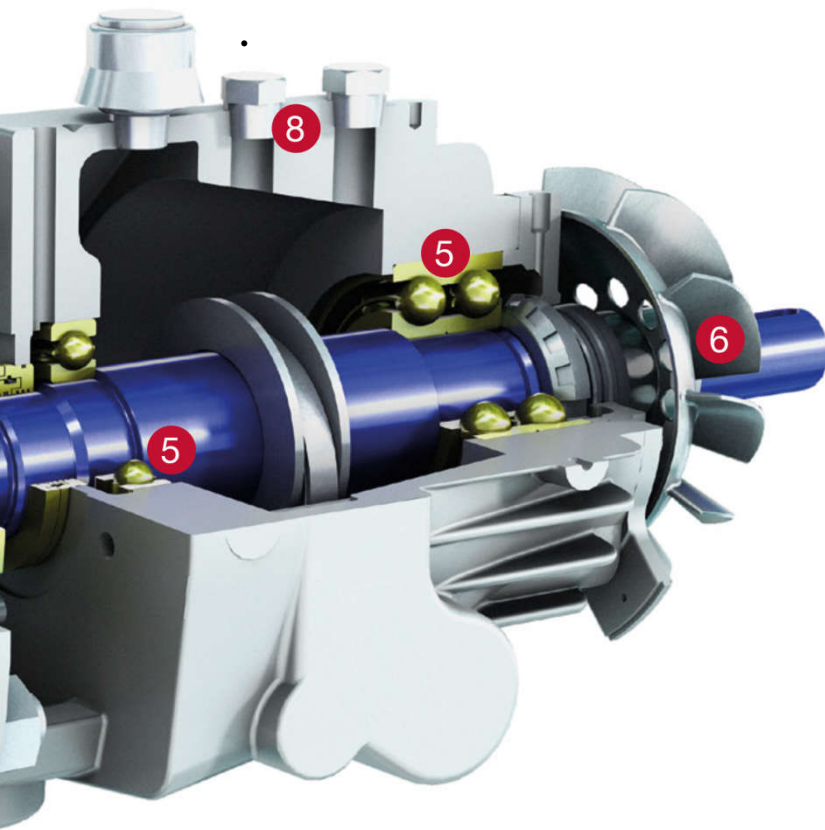
S-4, S-5, S-6, S-8, S-9, C-6, A-8, D-1, D-2, 317L

The SOB are designed to API 610 for heavy duty Process flows and heads. The SOB utilizes a conventional enclosed, high efficiency impeller. Larger sizes of SOB are available with an inducer for lower NPSH3.

SOB pumps are commonly found in

- Synfuels
- Refining
- Gas Processing
- Petrochemicals
- Nitrogenous Fertilizer





1 Casing feet and baseplate

- With the bearing housing foot prohibited by API 610, casing feet and baseplate are heavily reinforced to carry nozzle loads while maintaining API610 alignment requirement.

2 Pressure casing

- Designed to 20% of tensile strength plus 3mm corrosion allowance for long life
- 300# RF flanges are standard. 600# RF with optional high pressure casing

3 Impeller

- Enclosed impeller provided for efficiency

4 Extra heavy duty, large diameter shaft

- Provides minimal shaft deflection and long seal and wear ring life

5 Bearings

- Opposed 40 degrees angular contact thrust bearings with machined brass cage for long term reliability. C3 Ball radial bearing. Optional triple row thrust bearing and roller radial bearing

6 Bearing housing

- Carbon steel construction with cooling fins for improved heat dissipation

7 API 682 mechanical seal

- Fully cartridge seals in API 610 seal chamber for improved seal environment and life

8 Bearing assembly

- 4 sizes of bearing housing cover the product range for maximum interchangeability
- Low noise fan added for high ambient or high product temperatures
- Ring oil, purge mist or pure mist lubrication



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