

# APEX API 610 Heavy Duty Pump

Apex API range of heavy duty pumps, conforming to API 610 11th edition standard. Designed for the most onerous duties handling hydro carbons and chemicals at high temperatures and pressures.

Pumps are of modular construction and are available in a wide variety of materials including steel, stainless steel, duplex stainless steel and titanium.

## FEATURES

- ◆ Designed and engineered to the customer requirements
- ◆ Single stage impeller
- ◆ Double volute casing on most sizes
- ◆ Back pull out design
- ◆ Centreline mount
- ◆ Cartridge mechanical seal to API 682
- ◆ All metal flexible spacer coupling to API 671
- ◆ Heavy duty cast steel bearing housing
- ◆ Oil lubricated bearings with constant level oiler
- ◆ Bearings protected by AES Labtectal labyrinth seal
- ◆ High efficiency IE3 Motors

## BENEFITS

- ◆ Reliability through strict quality procedures, good engineering practice and quality materials as standard
- ◆ Rotating element may be removed from the pump without disturbing the pipework
- ◆ Low Nett Positive Suction Head protects the pump from cavitation damage
- ◆ Non-overloading power characteristics

## OPERATING RANGE

- ◆ Maximum flow rates up to 900 m<sup>3</sup>/hr
- ◆ Discharge flange sizes 40mm – 200mm
- ◆ Max generated head 160 m at 2900 rpm
- ◆ Flange ratings  
BS4504 PN16, BS4504 PN25, BS4504 PN40,  
ANSI 150RF or 300RF

## APPLICATIONS

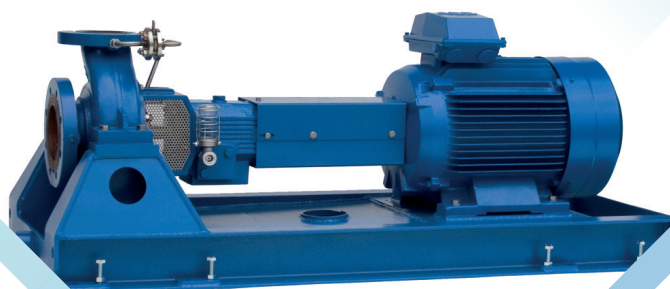
Chemical, refinery and process  
Hydrocarbon duties  
High temperature chemical service  
Offshore process applications

## WORKING PRESSURE

Standard pumps are capable of a working pressure of 40 bar subject to flange rating  
All pumps are hydrostatically tested upon assembly to 1.5 times the rated working pressure.

## MATERIALS

Castings in a variety of materials are produced in the company's own ISO 9001 foundry in Bristol, using the Replicast® method to produce porosity free castings by shell moulding. Castings can meet NORSOK and NACE MR0103 standards where required.



Cast steel  
Stainless Steel  
Duplex stainless steel  
Super Duplex stainless steel  
Titanium  
Hastalloy C  
Other grades available on request.

ASTM A216 Grade WCB  
ASTM A351 CF8M, CF3M, CF8, CF3  
ASTM A890 Grade 1B  
ASTM A890 Grade 5A  
ASTM B367 Grade 2  
ASTM A494 Grade CW-12MW



# APEX API Range Charts 50hz

