



Application Areas and Pumped Liquids

Petroleum industry, power plants and chemical industry. Fuel oil, motorin, gasoline, LPG, lubricants, kerosene, etc.

Technical Data

Discharge Flange	_NPS 1" -NPS 10"
Capacity	_up to 1000 m³/h
Head	_up to 350 m
Speed	_up to 3600 m
Design Temperature	_up to +350 °C(*)
Design Pressure	_51 bar (*)
Design Type	_OH2

(*) The Material of pump differs according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.

Design Features

• According to API 610 11th edition (ISO 13709).

•Center line volute casing design for high pressure and temperature.

•Tangential outlet design for high efficiency at the volute casing.

•For special application double volute casing can be applied.

•Due to the back-pull-out design, the complete bearing assembly including impeller and casing cover can be dismantled without removing the volute casing from the pipe system. With spacer coupling application, also possible to take out the rotor group without dismantling the electric motor.

Pump Designation

Discharge Nozzle (inch) Suction Nozzle (inch)

Nominal Impeller Diameter (inch)

Pump Type _



•The suction and discharge flanges are capable for handling the forces and moments which are mentioned in API 610.

•The material of casing gasket is spiral wound gasket for handling high pressure.

•In case of pumping hot liquid there is cooling devices on bearing housing and special construction for mechanical seal.

•Heavy duty type shaft and bearings.

•All impellers are balanced dynamically or statically according to ISO 1940 grade 2.5.

•In case of preventive maintenance, temperature and vibration sensors can be applied.

• For high bearing life time, the constant level oilers are supplied in order to keep oil level in proper level.

•Oil ring is used in standart production and these rings prevent oil foaming.

•The base plate construction is highly rigid as defined in to API 610 standard.

Shaft Sealing

•Mechanical seal cover is designed according to API 610. This mechanical seal cover is suitable to assemble every kind of mechanical seal according to API 682.







423	CASING GASKET	230	SCREW		
422	GASKET	211	COUPLING KEY		
421	GASKET	210	IMPELLER KEY		
411	LIP SEAL	203	ANGULAR BALL BEARING		
410	LIP SEAL	200	BALL BEARING		
405	MECHANICAL SEAL	088	THROWER		
394	LOCK WASHER	069	OIL RING		
392	LOCK WASHER	068	SHAFT SLEEVE		
391	LOCK NUT	065	IMPELLER NUT		
380	SETSCREW	060	SHAFT		
361	CASING NUT	050	IMPELLER		
360	NUT	046	THROUTLING BUSH		
321	SCREW	035	BEARING COVER		
320	SCREW	034	BEARING COVER		
302	STUD	030	BEARING HOUSING		
301	CASING STUD	021	WEAR RING (CASING COVER)		
300	STUD	020	WEAR RING (CASING)		
231	OIL FILLING PLUG AND BREATHER	003	CASING COVER		
		001	VOLUTE CASING		

Material Options

Part		API 610 MATERIAL CLASS					
No		S-5	S-6	S-8	C-6	A-8	
001	VOLUTE CASING	STEEL			%12 Chrome	316 SS	
050	IMPELLER	STEEL	%12 Chrome	316 SS	%12 Chrome	316 SS	
003	CASING COVER	STEEL			%12 Chrome	316 SS	
060	SHAFT	AISI	4140 316 SS		420 SS	316 SS	
030	BEARING HOUSING	STEEL					
065	IMPELLER NUT	STEEL	316 SS				
034	BEARING COVER	STEEL					
035	BEARING COVER	STEEL					
069	OIL RING	Bronze					
411	LIP SEAL	Bronze / Viton					
410	LIP SEAL	Bronze / Viton					
046	THROUTLING BUSH	420 SS 316 S		316 SS	420 SS	316 SS	
020	WEAR RING (CASING)	%12 Chrome	%12 Chrome	316 SS	%12 Chrome	316 SS	
021	WEAR RING (CASING COVER)	%12 Chrome	%12 Chrome	316 SS	%12 Chrome	316 SS	
423	CASING	316 SS Spiral Wound					
301/361	STUD AND NUT (CASING)	AISI 4140					