

NORM-HP SERIES HOT WATER PUMPS

TECHNICAL SPECIFICATIONS:

Norm-HP series pumps cover/are high efficiency low and medium pressure end suction horizontal single stage, closed type impeller, easy to maintain centrifugal pumps with volute casing.

Pump impellers statically and dynamically balanced according to ISO 1940 (TS 2567) Class 6,3.

Discharge of the NORM-HP series pumps are located on the top as Standard. Suction and discharge flanges are manufactured according to TS EN 1092-2 or ANSI standard.

Pumps have oil lubricated heavy duty ball bearings.

All pumps are tested according to TS EN ISO 9906 / 2B.

Suitable mechanical seals are used according to specification of the medium. API plans which is selected suitable process are applied and mechanical seal are cooled with water or special medium externally.

Stuffing box are cooled externally (with cooling jacket) according to medium temperature.



GENERAL INFORMATION:

- Suction Flange Diameter : Ø65 - Ø350
- Discharge Flange Diameter : Ø40 - Ø300
- Capacity Range (Q) : 20 -1900 m³/h
- Manometric head range (Hm): 10 - 100 mws
- Operating Temperature : * 230 °C max.
- Casing Pressure (Pmax) : *25 bar (40 bar)

$P_{max} = \text{Suction Pressure} + \text{Shut off pressure}$

FIELDS OF APPLICATION

- Hot water facilities,
- Heating Systems,
- Power plants,
- Pumping of the thermal oils,
- Thermal energy conversion systems,
- Pumping of low viscous mediums (fuel, oil e.t.c) in various industries.

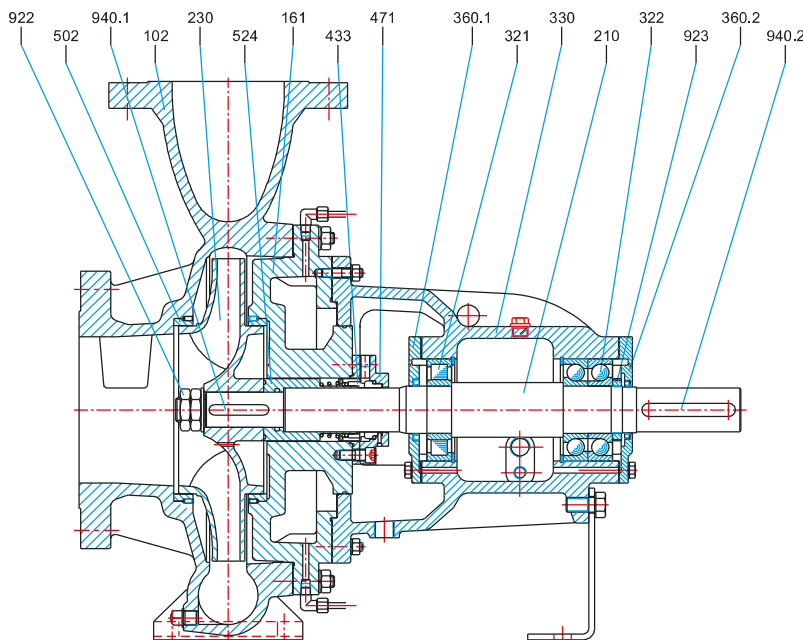
Pump Materials:

Suitable material of the pump parts are selected according to specification of medium, operating temperature and operating pressure.

Pump Feet:

Feet of the pump are located under the volute or centralized on the volute according to pressure and medium temperature.

NORM HP SECTIONAL DRAWING AND PUMP PARTS LIST



102- Volute	230- Impeller	360.1 Bearing housing cover (Front Side)	524- Shaft Sleeve
161- Stuffing box	321- Ball bearing (NU &)	360.2 Bearing housing cover (Coupling Side)	922- Impeller Nut
183 Support foot	322- Ball bearing (73..)	433-Mechanical seal	923- KM nut
210- Shaft	330- Bearing Housing	471- Mechanical seal cover	940.1- Impeller key
		502- Wear ring	940.2-Coupling key

Pressure and Temperature Limits:

