KYP SERIES

Thermal Oil Centrifugal Pumps

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KYP SERIES Thermal oil centrifugal pumps

Suction Flange	DN 50 .... DN 125
Discharge Flange	DN 32 .... DN 100
Operating Pressure	16 Bar
Speed Range	1500 - 3600 rpm
Flow Range	10 – 400 m^3/h
Head Range	10 – 100 m

Fields of Application

Chemical and refinery plants,

Textile, paper, sugar, food, drug and leather industry,

Rubber, plastic and synthetic fibre industry,

Baking and heating applications,

Heat transfer applications with a medium over 100 °C temperature.

Design Specifications

Single stage end suction centrifugal pump.

Main dimensions according to DIN 24256 (ISO 2858).

Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced.

To drop the pressure on the sealing and to balance axial trust, the impellers have back radial blades.

Pump and motor are separate components, connected to each other via a flexible coupling and mounted on a common base plate.

Maintenance is very much easier, the impeller shaft and other rotating parts being removable with no need to disconnect the suction and delivery pipes.

Maximum interchangeability of components, identical parts can be used with various sizes of a pump, which greatly simplifies and reduces stock of spare parts.

No need to cool the pump externally. Thanks to mechanical design, the temperature drops from casing to the bearing rapidly with the help of natural convection.

Shaft Specifications

The pump shaft is designed to provide minimum heat transfer, but taking into account strength and deflection values.

Sealing Application

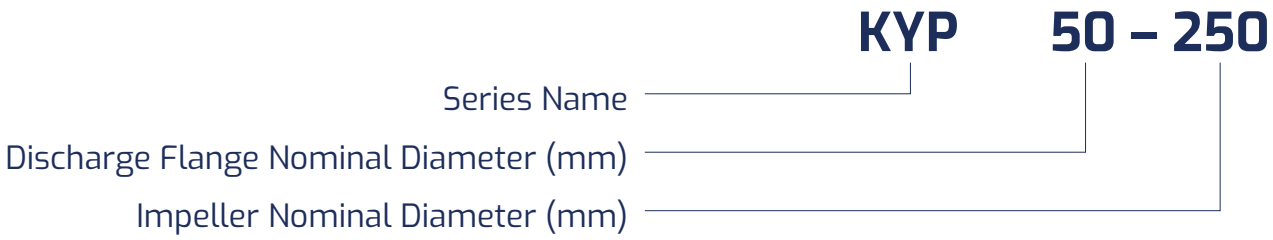
The mechanical seal stands between two roller bearings and close to the roller bearing on the coupling side. This gives the mechanical seal longer working life since it is in a lower temperature region.

There is a thermal resistant soft packing seal behind the impeller. It slows down the leakage and prevents the pumping to be stopped if there is mechanical seal damage.

Bearings

Bearing housing is made of nodular cast iron and mounted to the casing keeping minimum heat transfer from the casing to the bearing housing. On the bearing housing, there are fins for natural convection. The first bearing is on the impeller side and lubricated with working medium. Second bearing is on the coupling side and lubricated with grease.

Pump Codification



PART	MATERIAL					
	Cast Iron GG25	Ductile Cast Iron GGG40	AISI 420	AISI 304	AISI 316	Cast Bronze CuSn10
Pump Casing		●		○	○	○
Adapter		●		○	○	○
Impeller	●	○		○	○	○
Shaft			●	○	○	
Bearing Housing		●		○	○	○

● Standard Material ○ Optional Material

* Different material options are available upon request

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Customer Service
+90 850 888 8 627

Orta Mahallesi Atayolu Caddesi
No:16 Tuzla - İstanbul / Türkiye

masdaf.com