

OMK

Multistage Horizontal Shaft Centrifugal Pumps



OMK Multistage Horizontal Shaft Centrifugal Pumps

Suction Flange	DN 50 DN 125
Discharge Flange	DN 32 DN 80
Operating Pressure	40 Bar
Speed Range	1500 – 3600 RPM
Capacity Range	5 – 180 m ³ /h
Head Range	30 – 400 m



Fields of Applications

Drinking water stations,

In high-rise buildings and industrial pressurization systems,

Water treatment stations,

In boiler feed and condensate systems,

In the sanitary and cleaning sectors,

Water distribution systems,

In shipping, mining and energy sectors,

In irrigation systems,

In central heating systems.

Design Specifications

OMK series pumps are horizontal shaft, multistage, non-self-priming, centrifugal pumps with separable stage casings.

The pump impellers are dynamically balanced, single-entry, closed-type impellers, with the shaft bearing the impellers on both sides. Impellers can be trimmed to meet the desired operating point.

Axial force is balanced by balance holes. The remaining unbalanced axial force is carried by ball bearings.

In the standard installation, the discharge casing is on the motor side with its flange facing upwards, the suction casing is on the blind side with its flange facing right when viewed from the drive side, and the direction of rotation is clockwise.

The suction and discharge flanges can be oriented in different positions at 90° intervals. Upon request, the suction casing can be installed on the motor side. In this case, the direction of rotation is counterclockwise when viewed from the drive end.

Sealing Applications

Uncooled stuffing box (up to 110 °C, standard application).

Standardized, single, balanced and uncooled mechanical seals can be applied (up to 140 °C).

Bearings

The pump shaft is supported on both sides by 6400 C3 ball bearings. The suction-side bearing is fixed axially to the shaft and carries residual axial loads. The discharge-side bearing carries only radial loads and is not fixed axially. An oil seal and a water thrower prevent water from entering the bearing housing.

Pump Tagging

OMK 40 – 8

Series Name

Discharge Flange Nominal Diameter (mm)

Stage Number

PART	MATERIAL					
	Cast Iron GG25	Ductile Cast Iron GGG40	AISI 420	AISI 304	AISI 316	Cast Bronze CuSn10
Suction & Discharge Casing	●	○		○	○	○
Stage Casing	●	○		○	○	○
Impeller	●	○		○	○	○
Last Stage Casing	●	○		○	○	○
Gland		●				○
Shaft			●	○	○	
Shaft Sleeve			●	○	○	
Seal Cover	●	○		○	○	○
Bearing Housing	●	○				
Bearing Cover	●	○				

● Standard Material

○ Optional Material

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