

OMKV

Multistage Vertical Shaft Centrifugal Pumps



OMKV Multistage Vertical 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.

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).

Design Specifications

OMKV series pumps are vertical 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 and the suction casing is on the bottom side. 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.

Bearings

On the discharge side, there is a grease-lubricated ball bearing (6400 C3 series) on top. It carries the axial load on the pump.

There is a teflon coated bronze sliding bearing on the suction side.

Pump Codification

OMKV 40 / 8

Series Name

Discharge Flange Nominal Diameter (mm)

Stage Number

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

● Standard Material

○ Optional Material

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