

# High Pressure Centrifugal Pumps MKH/MKE/MKV

P U M P E N  
**OSNA**  
T E C H N O L O G I E



# High Pressure Centrifugal Pumps MKH/MKE/MKV

Non-selfpriming multistage high-pressure centrifugal pump in horizontal (MKH) and vertical (MKV) design. Beyond 40 bars (580 psi) of casing pressure in multistage horizontal construction with balance drum (MKE).

According to their product profiles the high-pressure centrifugal pumps MKH/MKE/MKV are either furnished with gland packing or mechanical seals.

- high efficiency
- low-noise operation
- modular principle
- optimal adjusting to the operating point
- exchangeable shaft sleeves
- application of high grade materials
- low-maintenance
- easy to service

## Application

For the pumping of clear and slightly contaminated liquids in: pressure boosting plants, central heating systems, cold and hot water circulation, water supply systems, the chemical and petrochemical industry, shipbuilding, the mining industry, power stations, filter units, fire extinguishing plants, irrigation plants

## Liquids

Fresh water, drinking water, boiler feed water, process water, sea and brackish water, hot water, condensate, fuels, acids, lyes etc.

## Capacity

up to 1.100 m<sup>3</sup>/h (4030 I.GPM, 4.840 US.GPM)

## Total head

up to 640 m (2100 ft)

## Speed

up to 3.500 r.p.m.

## Temperature

up to 140 °C (284 °F)

## Casing pressure

up to 64 bars (928 psi)

## Materials

Depending on the requirements of the liquids or the customers' requests, available in cast iron, spheroidal cast iron, bronze, cast steel or stainless steel

## Shaft sealing

Gland packing or mechanical seals

## Casing pressure

max. 40 bars (580 psi) with MKH and MKV

max. 64 bars (928 psi) with MKE

## Flanges

Discharge branch from DN 25 up to DN 250

Suction flange DIN 2533, PN 16

Discharge flange DIN 2535, PN 40

or DIN 2546, PN 64

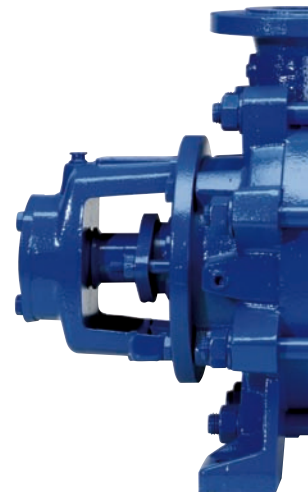
BS ANSI flange also available

## Lubrication

Antifriction bearings grease lubricated

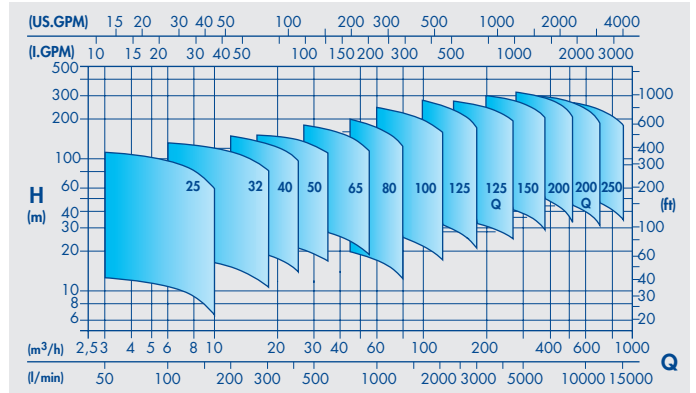
Type MKE oil lubricated

Slide bearings liquid lubricated

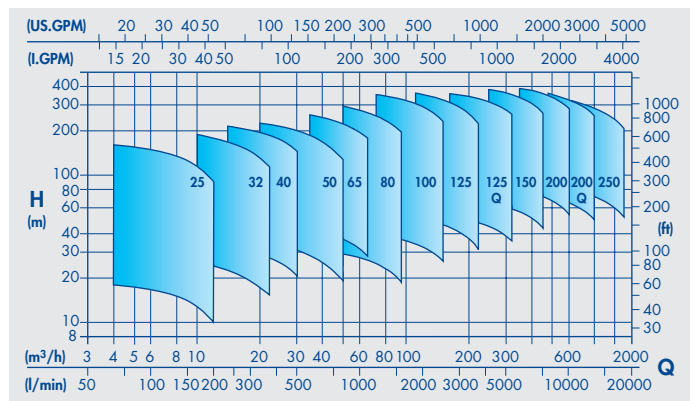


# The Complete Centrifugal Pump Programme up to DN 250 and 64 bars (928 psi)

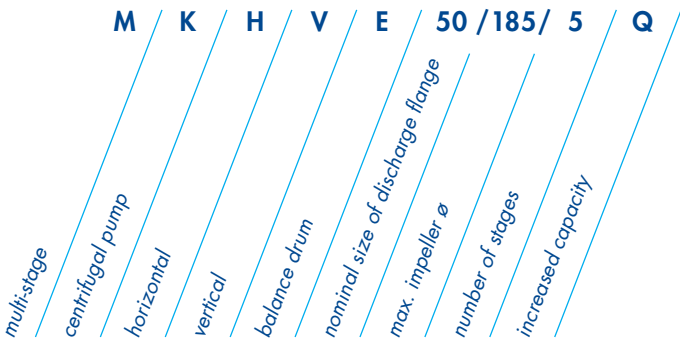
Model Designation	Min. Number of Stages	Max. Number of Stages at Speed r.p.m.			
		1450	1750	2900	3500
MKH 25/MKV 32	2	18	18	15	10
MKH 32/MKV 40	2	15	15	10	7
MKH 40/MKV 50	2	14	14	8	6
MKH 50/MKV 65	2	13	13	8	5
MKH 65/MKV 80	2	12	12	6	4
MKH 80/MKV 100	1	10	10	4	3
MKH 100/MKV 125	1	9	9	3	2
MKH 125/125 Q	1	8	7	2	-
MKH 150	1	7	6	-	-
MKH 200/200 Q	1	6	5	-	-
MKH 250	1	5	4	-	-
MKE 25	11	-	-	17	13
MKE 32	8	-	-	14	10
MKE 40	7	-	-	13	9
MKE 50	6	-	-	12	8
MKE 65	5	-	-	9	6
MKE 80	4	-	-	7	5
MKE 100	3	-	-	5	4
MKE 125/125 Q	3	-	-	4	-



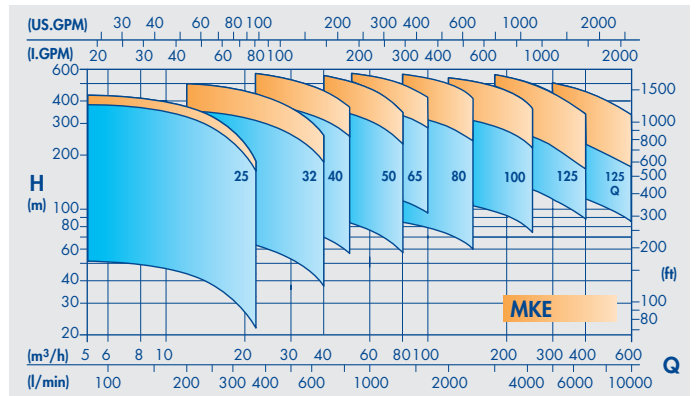
MKH, MKV, performance range at 1.450 r.p.m.



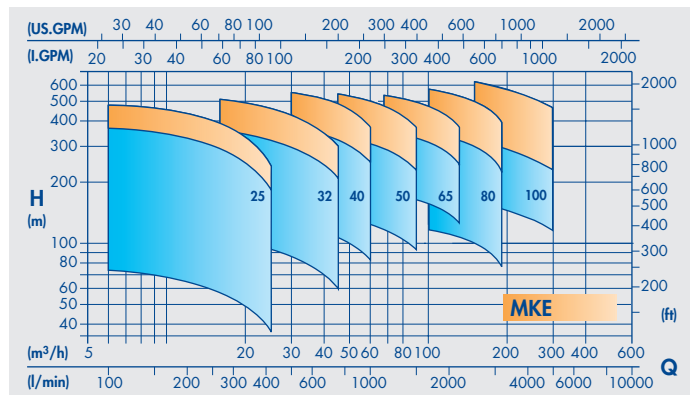
MKH, MKV, performance range at 1.750 r.p.m.



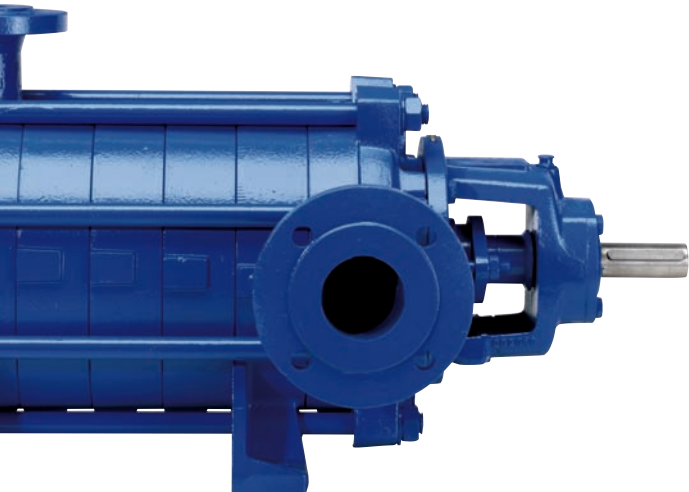
Abbreviations



MKH, MKE, MKV, performance range at 2.900 r.p.m.



MKH, MKE, MKV, performance range at 3.500 r.p.m.





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