

► Our technology. Your success.

Pumps • Valves • Service



## A versatile range of variants: Movitec impresses in any application



## Powerful, ready for action and energy-efficient: Movitec from KSB

With its Movitec type series, KSB provides the right pump matching any requirement. In addition to the wide range of variants and the flexibility of Movitec, you will benefit from our comprehensive service and spare parts solutions. We support you with more than 2600 specialists based at 160 service centres over the entire life cycle, and ensure maximum availability and safety thanks to our worldwide sales and manufacturing network.

Trust in a reliable and professional partner, and in a powerful product suitable for a variety of applications:



### Process engineering:

- General industry
- Chemical industry
- Heat and steam generation
- Pharmaceutical industry
- Fire-fighting and sprinkler systems
- Washing plants

### Building services:

- Heating and air-conditioning systems
- Cooling water supply
- Water treatment
- Pressure boosting

### Other applications:

- Marine applications
- Irrigation and spray irrigation
- Food and beverage industries

With its high-performance hydraulic system and maximum efficiencies, Movitec plays an important role in saving energy at component level.

In addition, KSB has available ground-breaking drive and automation solutions for the highly efficient operation of the pump sets. Movitec is equipped with the economical IE3 motors as standard, for example. Optimum energy savings can be achieved in combination with the KSB SuPremE® IE5\* motor. Pump sets fitted with the PumpDrive speed control system and the PumpMeter monitoring unit add to ensuring demand-driven operation for absolute system availability.



Movitec for connection with the VSV Victaulic coupling



High-efficiency version of Movitec V equipped with KSB SuPremE® IE5\* motor, PumpDrive and PumpMeter

\*IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (only for 1500 rpm types rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW: IE5 in preparation)

## Save up to 60 % in energy with the efficient Movitec pumps from KSB

The optimisation of ProMinent products is just one example of achieving maximum efficiency by combining Movitec pumps with KSB drive and automation solutions. ProMinent's product range features process dosing pumps that are only supplied after they have passed extensive testing.

To this end, KSB devised a suitable and thought-out concept that helped clearly increase the overall efficiency and achieve energy savings of up to 60 %.

- Equipped with PumpDrive and PumpMeter, the Movitec pumps supplied by KSB ensure constant pressure and deliver the desired volume of water.
- Excellent levels of efficiency thanks to the pump's optimised hydraulic system
- The motor-mounted PumpDrive version replaces complex control cabinet solutions.

### Energy: we spend all ours to save lots of yours

The ProMinent reference is only one of many examples of how to improve your system's efficiency. As part of our FluidFuture® energy efficiency concept, we look at the hydraulic system as a whole and are able to identify any optimisation potential available.

This is always based on an analysis of the system, for example, with a quick energy check performed in just 20 seconds: KSB Sonolyzer is the first app that hears whether energy can be saved.



Sonolyzer app for  
Android smartphones



Sonolyzer app  
for iPhones



For more information visit  
[www.ksb.com/fluidfuture](http://www.ksb.com/fluidfuture)



### Walter Hetzel, ProMinent:

"PumpDrive ensures energy efficiency; PumpMeter creates transparency and system reliability."



## Maximum flexibility: Movitec's wide range of variants

KSB's Movitec is available in numerous variants so we have the right solution for any demand and requirement. This includes a wide range of sizes as well as installation and connection types. As concerns seals and materials, you can choose from a variety of options. Discover the advantages of our all-rounder for the most diverse of applications and benefit from maximum flexibility.

### Technical data at a glance

Movitec	Technical data	
	VC, V, VS	LHS
Variants	VC, V, VS	LHS
Sizes	2, 4, 6, 10, 15, 25, 40, 60, 90, 125	6
Flow rate max. in m <sup>3</sup> /h	192	8.6
Head max. in m	255	401
Pressure class max. PN	40	40
Fluid temperature in °C	-20 to +140	-15 to +120
NPSH in m	≥ 0,4	≥ 2,45

## All you need in a pump: Movitec performs in any application

### Think big: the size 125

With the addition of size 125, the Movitec type series offers an optimal selection chart and thus high flexibility in applications. High flow rates of up to 160 m<sup>3</sup>/h can be handled safely and efficiently. And the new size also introduces the best efficiency to the market: 80 %.

### Cover even more applications with Movitec VCI

Movitec VCI incorporates the proven high-performance hydraulic system of the Movitec pump series. Designed as an immersion variant it opens up a wide range of applications. Wherever fluids have to be pumped from a tank at a constant high pressure, Movitec VCI is in its element and unites the advantages of submersible pumps with those of dry-installed high-pressure pump sets.

### Movitec H(S)

Movitec is also available for horizontal installations – for flexible use.

### Movitec Low NPSH

Hydraulic systems with specially designed low-NPSH impellers are available for critical applications for Movitec in vertical and horizontal installation.



Size 125 perfectly complements the previous Movitec selection chart and so helps cover an ever wider range of flow rates.



Movitec H(S)

## Large choice of variants: the right design for every requirement

### Optimum sealing effect even under highest pressure

Movitec pumps are available with a number of proven shaft seal designs and incorporate the material combination that best suits the fluid to be pumped. This makes for the safe, reliable and service-friendly handling of the most diverse of fluids, at temperatures from -20° C to +140° C.



Standard variant

Easy Access design

Cartridge design

### One pump series with a variety of connection options

Movitec is available with different connection options so you can choose the design most appropriate for the applications in question. Movitec VE with integrated swing check valve makes KSB the only supplier in the market that offers a variant of this kind.



Oval flange  
Movitec V(S)



External thread  
Movitec VE



Victaulic coupling  
Movitec V(S)V



Tri-clamp coupling  
Movitec V(S)T



Round flange  
Movitec VCF



Round flange  
Movitec VF



Round flange  
Movitec VSF

### Our materials make all the difference

Where other pumps fail, Movitec will provide the same excellent service. The secret of our success is the variety of materials that meet a wide range of requirements. For example, all Movitec variants operate reliably and exhibit a high level of resistance to corrosion – in a multitude of very different applications.

	Materials		Sizes			Other
			2, 4, 6, 10, 15, 25, 40, 60, 90, 125	VC	V	VS
<b>Baseplate</b>	Grey cast iron <sup>1)</sup>	JS1030/JL1040	–	•	•	–
	Cast stainless steel <sup>2)</sup>	1.4308	–	○	○	–
<b>Pump casing</b>	Grey cast iron <sup>3)</sup>	JL1040	•	–	–	–
	Cast stainless steel	1.4308	–	•	–	–
	Cast stainless steel	1.4408	–	–	•	•
	Stainless steel	1.4301	–	–	–	–
	Stainless steel	1.4404	–	–	–	–
<b>Pump hydraulic system</b>	Stainless steel	1.4301	•	•	–	–
	Stainless steel	1.4404	–	–	•	•
	Cast stainless steel <sup>4)</sup>	1.4308	•	•	–	–
	Cast stainless steel <sup>4)</sup>	1.4408	–	–	•	–

<sup>1)</sup> Powder-coated / JS 1030 or JL 1040, depending on strength required

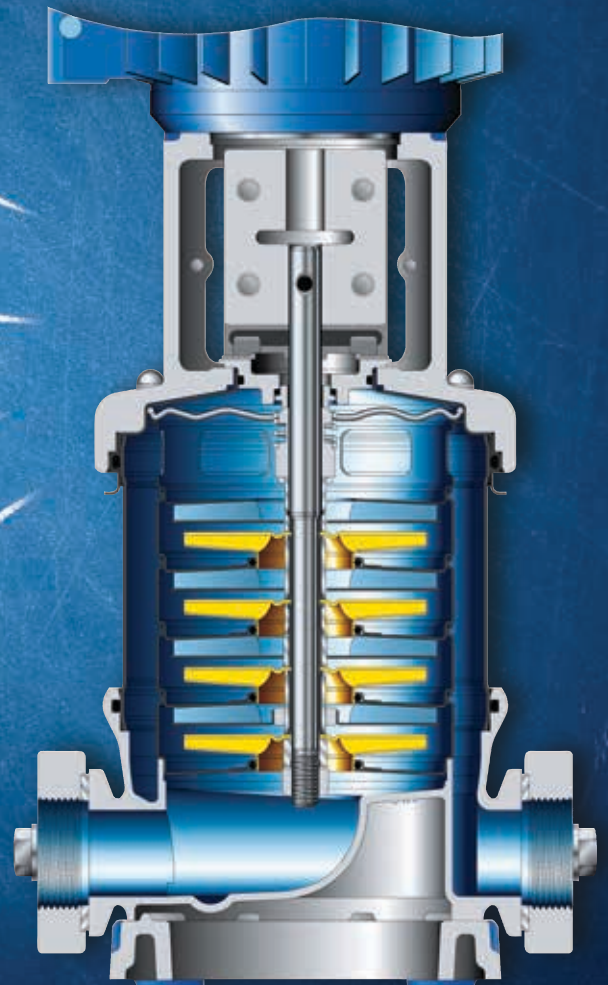
<sup>2)</sup> Sizes 2 to 15   <sup>3)</sup> With cataphoretic coating   <sup>4)</sup> Sizes 90 and 125 only

• Standard (pre-configured model)   ○ Optional – Not available

# Movitec for **maximum availability** and operating reliability

KSB's Movitec represents the optimum solution for the toughest of requirements. As a long-term partner, we know what matters in your everyday work and optimise our products accordingly. Movitec is designed for maximum availability and operating reliability with very low NPSH values to prevent system downtimes and pump failure to the extent possible and so to ensure lasting success for you.

- **Reliable operation** thanks to product-lubricated plain bearings made of tungsten carbide, a cast pump foot, a torsion-resistant pump shroud and confined O-rings
- **Long service life and high resistance** of the pump with corrosion-resistant hydraulic system components made of stainless steel
- **Service-friendly** since the pump can be equipped with any standardised mechanical seal (EN12756). In addition, the Easy Access and cartridge seals can be replaced quickly if needed.
- **Maximum flexibility** with different material variants, a variety of connection options and an extended temperature and pressure range





Technology that **makes its mark**

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