

More powerful, more versatile, energy-efficient. **The new Movitec generation.**







Movitec shows what it is capable of.

The performance scope of Movitec pumps grows with our customers' demands: Thanks to the advancement of our reliable high-pressure pump, Movitec made by KSB is now suitable for more areas of use than ever. We have used our know-how and experience to make our tried and tested pump series suitable for a host of new applications.

What all design variants have in common is that they operate in a highly energy-efficient manner. After all, KSB optimises not just individual components but entire hydraulic systems. We offer cost-effective solutions that help secure our customers' competitive edge.

Movitec – the right pump for a diverse range of applications.

With their superior performance, Movitec pumps have proved their worth in the widest range of pumping duties. To enable us to offer our customers exactly the solution they require, we have further extended the application range of our

high-performance pump. As a result of systematic development of materials, as well as connections and sealing system variants, Movitec is now ideally suited for more duties than ever in:

- General industrial applications
- Chemical industry
- Steam and heat generation
- Food and beverage processing industry
- Cooling water supply
- Irrigation and spray irrigation
- Water treatment
- Pharmaceutical industry
- Car washes
- Marine applications
- Fire-fighting and sprinkler systems
- Pressure booster sets
- Heating, ventilation, air-conditioning

Our materials make all the difference.

Whether used to pump fluids that are at the same time hot and aggressive, abrasive media or fluids under conditions subject to stringent hygiene specifications: Where other pumps fail, Movitec will provide the same excellent service. The secret of our

success is the variety of materials meeting a wide range of requirements: For example, all design variants of Movitec operate reliably and with a high level of resistance to corrosion – in a multitude of very different applications.

	Materials		Pump sizes of new generation 2 / 4 / 6 / 10 / 15 / 25 / 90			Other pump sizes 45 / 65				
			VC	V	VS	VCF	V	VS	VE	LHS6
Baseplate	Cast iron ¹⁾	JS1030/JL1040	–	•	•	–	•	•	•	–
	Cast stainless steel	1.4308	–	○	○	–	–	–	–	–
Pump casing	Cast iron ²⁾	JL1040	•	–	–	•	–	–	–	–
	Cast stainless steel	1.4308	–	•	–	–	–	–	•	–
	Cast stainless steel	1.4408	–	–	•	–	–	–	–	•
	Stainless steel	1.4301	–	–	–	–	•	–	–	–
	Stainless steel	1.4404	–	–	–	–	–	•	–	–
Hydraulic components	Stainless steel	1.4301	•	•	–	•	•	–	•	–
	Stainless steel	1.4404	–	–	•	–	–	•	–	•
	Cast stainless steel ³⁾	1.4308	•	•	–	–	–	–	–	–
	Cast stainless steel ³⁾	1.4408	–	–	•	–	–	–	–	–

¹⁾ Powder coated / JS 1030 or JL 1040 depending on required strength

²⁾ Cathaphoretic coated ³⁾ Pump size 90 only

• Standard (preconfigured model) ○ Option – No option

They keep tight. Even under the highest pressure.

Movitec pumps are available with a variety of proven seal designs and they incorporate the material combination that best suits the fluid to be pumped. All design variants make for the highest level of flexibility: The seals ensure safe transport of a wide range of fluids at temperatures ranging from $-20\text{ }^{\circ}\text{C}$ to $+140\text{ }^{\circ}\text{C}$.

Movitec can therefore be depended on to provide reliable service at the highest safety level.

And that isn't all: Because our seals are quick and easy to replace, they are extremely service-friendly. Both Easy Access and cartridge seals can be particularly easily replaced.



Standard design



Easy Access design

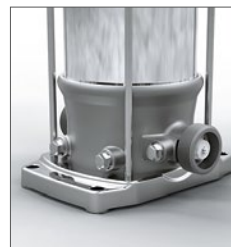
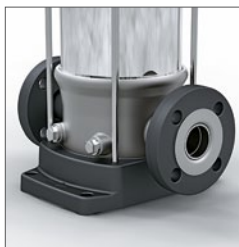


Cartridge design

One pump series with a large variety of connectors.

Movitec can be supplied with a choice of connectors which have proven their value in everyday use: There is a connector for every imaginable application. A new

addition to our product range is the so-called tri-clamp coupling, the connection of choice especially in pharmaceutical and hygiene applications.



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

FluidFuture® – is our comprehensive energy efficiency concept for your entire hydraulic system. Its aim is to improve your plant's efficiency. To make that reality, we've developed five interlocking modules. Together they enable us to identify and achieve savings right through the life cycle of your pumps and valves. High-efficiency products such as Movitec are used for optimising your plant.



Featuring optimised hydraulic components, the high-pressure in-line pump already fulfils the minimum efficiency requirements of the European ErP regulation for 2015. It thus plays an important role in saving energy at component level.



SYSTEM ANALYSIS

Our experts analyse your system and show where you can save energy – with SES System Efficiency Services or PumpMeter.



SELECTION

Your KSB partner or KSB EasySelect will help you find exactly the right pumps and valves.



HIGH-EFFICIENCY PUMPS & VALVES

Top pump and valve performance with minimum loss – all thanks to 140 years of innovation and expertise.



HIGH-EFFICIENCY DRIVES

Our high-efficiency motors even exceed today's standards.



DEMAND-DRIVEN OPERATION

Optimised control systems like PumpDrive continuously match pump output to system requirements.



HIGH-EFFICIENCY
PUMPS & VALVES

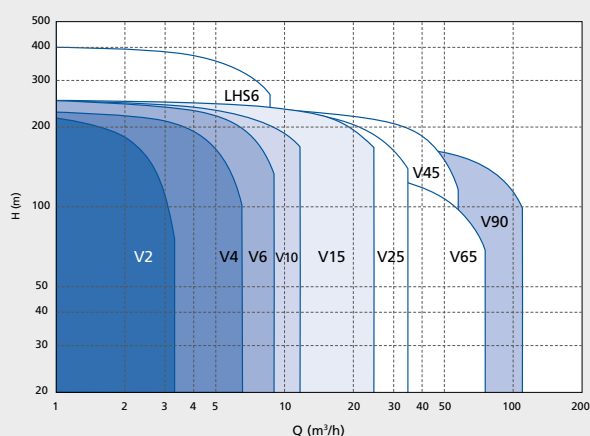
Saving costs with our new high-performance hydraulic components.

As a high-performance pump, Movitec has made a name for itself in building services applications. By optimising the pump casing and the design of the hydraulic components, we have succeeded above all in

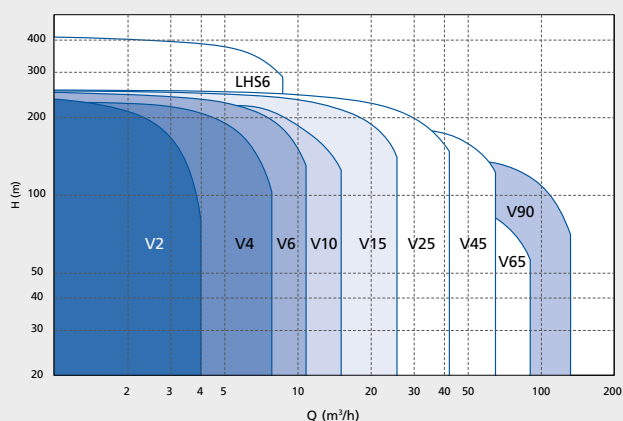
making the following improvements:

- Higher efficiencies
- Very low NPSH values to serve as a basis for dependable pump operation and a high level of operating reliability.

Movitec characteristic curves 50 Hz, 2900 1/min



Movitec characteristic curves 60 Hz, 3500 1/min



DEMAND-DRIVEN
OPERATION

PumpDrive keeps a tight grip on the pump speed.

The PumpDrive variable speed system offers the greatest energy saving potential. Once Movitec's operating parameters are set, PumpDrive precisely adjusts the motor speed, and thus the head and flow rate of the pump, to match current demand.

The bottom line: energy savings of up to 60 %. PumpDrive particularly comes into its own in applications with fluctuating flow rate requirements and a varying inlet pressure. Anyone who wants to keep costs down has to make sure that the processes within the system are efficient.



HIGH-EFFICIENCY
DRIVES

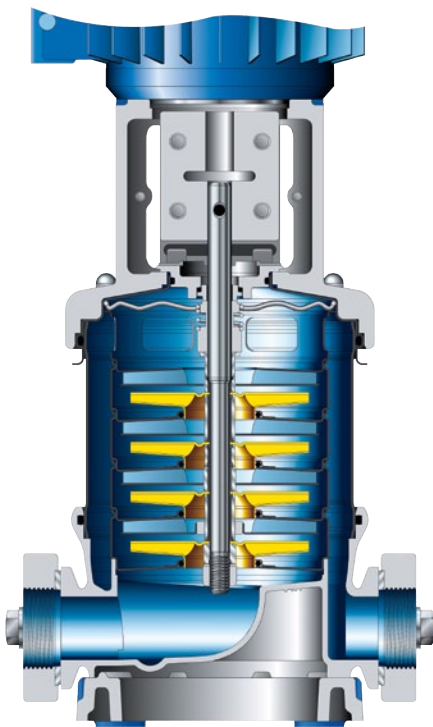
Energy-optimised drives – our IE2 motors.

Another essential part of KSB's energy efficiency concept are the IE2 motors: The new Movitec generation is equipped with these motors as a standard and at no

extra price. IE2 motors are characterised by a particularly high efficiency rating: Energy savings of up to 3.5 % are possible.

Sized for success **in industry.**

Its reliability makes Movitec very successful in highly diverse areas of use. The widely used and proven pump sizes have now been complemented with the sizes of the new generation. Jointly, the old and new sizes form a high-performance pump series that is sure to offer our customers the ideal solution for a broad range of applications.



Movitec – High-pressure in-line pump

- **Reliable**

Product-lubricated plain bearing of tungsten carbide, cast pump foot, torsion-resistant pump shroud and confined O-rings

- **Long service life**

Corrosion-resistant hydraulic components made of stainless steel

- **Easy to service**

- Can be fitted with any standardised mechanical seal (to EN12756)
- Can be fitted with Easy Access and cartridge seals allowing quick replacement

- **Flexible**

Large variety of materials and connections as well as extended temperature and pressure range



Pump sizes at a glance.

Movitec	Pump sizes of new generation				Other pump sizes		
Technical Data	VC	V	VS	VCF	V	VS	LHS
	2/4/6/10 15/25/90	2/4/6/10 15/25/90	2/4/6/10 15/25/90	45/65	45/65	45/65	6
Max. flow rate m ³ /h	112,8	112,8	112,8	75	75	75	8,6
Max. head m	255	255	255	249	249	249	401
Max. pressure class PN	40	40	40	25	25	25	40
Fluid temperature in °C	-20 to +140	-20 to +140	-20 to +140	-15 to +120	-15 to +120	-15 to +120	-15 to +120

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