

# Etanorm V

## Vertical Low-pressure Pump



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- Pumping neutral degreasing solutions and phosphating solutions
  - Lubricating oil supply and sealing oil supply for turbines, generators, large compressors, large gear units
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# Etanorm V – Vertical Low-pressure Pump

## Operating data

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q [m <sup>3</sup> /h]	≤ 625	≤ 675
Head	H [m]	≤ 100	≤ 100
Fluid temperature	T [°C]	≤ +70	≤ +70
Design D			
Fluid temperature		≤ +95	≤ +95
Design W			

## Benefits

### ■ Energy-efficient

- Flexible speed control makes for achieving maximum efficiency.
- PumpDrive can be mounted either to the wall or in the control cabinet.
- A standard feature, IE3 asynchronous motors ensure highly efficient operation.
- The pump is available with KSB SuPremE IE5 motor on request.<sup>1)</sup>
- The Etanorm pump's hydraulic system ensures excellent efficiency.
- The impeller diameter is trimmed to match the duty point enabling energy savings and reduced operating costs.

### ■ Wide range of variants

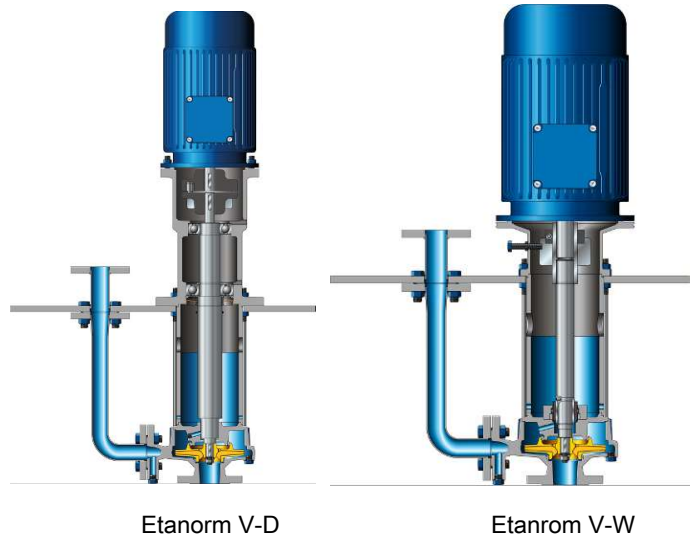
- As standard, the volute casing and impeller are available in a wide range of materials for many applications.
- The vertical design makes for low space requirements of the pump which is available in various immersion depths up to 2000 mm (Etanorm V-D to 535 mm).

### ■ High operating reliability

- Design without mechanical seal reduces the number of parts subject to wear.
- The robust and rigid drive lantern with precision-machined centring fits ensures accurate alignment of pump shaft end and motor shaft end.
- On-site precision alignment of the coupling is not required.
- The SiC/SiC plain bearing in the pump's discharge cover is wear-resistant and compensates lateral movement or deflection of the shaft.
- The high-quality Flender Eupex coupling ensures smooth running (Etanorm V-D).
- V-ring prevents the fluid handled from entering the deep groove ball bearing (Etanorm V-D).
- The generously dimensioned ball bearing absorbs the axial forces and thus increases operating reliability (Etanorm V-D).

### ■ Easy to service

- The wear rings in the casing cover and volute casing can be easily replaced.
- KSB offers a 24-hour service hotline and a 24-hour spare parts hotline. Original KSB spare parts can be supplied Germany-wide within 24 hours.



## Materials

Component	Material
Volute casing	Grey cast iron EN-GJL-250 / A 48 Cl. 35B Stainless steel 1.4408 / A743 Gr. CF8 M
Casing cover	Grey cast iron EN-GJL-250 / A 48 Cl. 35B Stainless steel 1.4408 / A743 Gr. CF8 M
Shaft	Tempered steel C45+N Duplex steel 1.4462
Impeller	Grey cast iron EN-GJL-250 / A 48 Cl. 35B Stainless steel 1.4408 / A743 Gr. CF8 M Bronze CC480K-GS / B30 C90700

<sup>1</sup> \*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)



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