

Omega

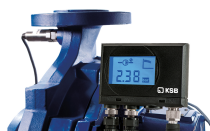
Axially Split Volute Casing Pump



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| <ul style="list-style-type: none"> • Waterworks • Desalination plants • Pressure boosting • Water transport | <ul style="list-style-type: none"> • Service water and cooling water for power stations and industry • Irrigation pumping stations • Drainage pumping stations | <ul style="list-style-type: none"> • Fire-fighting systems • Shipbuilding • District heating systems and district cooling systems |
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KSB Guard



PumpMeter

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Omega – Axially Split Volute Casing Pump

Operating data

Characteristic	Value	
Size	DN [mm]	80-400
	DN ["]	3-15
Flow rate ¹⁾	Q [m³/h]	≤ 4400
	Q [US.gpm]	≤ 19375
Head ²⁾	H [m]	≤ 210
	H [ft]	≤ 689
Operating pressure ²⁾	p [bar]	≤ 25
	p [psi]	≤ 363
Fluid temperature ³⁾	T [°C]	0 to 140
	T [°F]	32 to 284

Benefits

■ High operating reliability

- The double-entry impeller balances axial thrust, reducing the loads acting on the rolling element bearings.
- The pump casing's double-volute design balances radial forces, ensuring low vibration levels during operation.

■ Low maintenance costs

- Long service life of the rolling element bearings, sealing elements and coupling thanks to a short, rigid shaft and the spring-loaded bearing arrangement
- Corrosion and abrasion-resistant materials make for maximum service lives of shaft protecting sleeves, casing wear rings and impeller wear rings as well as of the impeller.

■ Service-friendly design

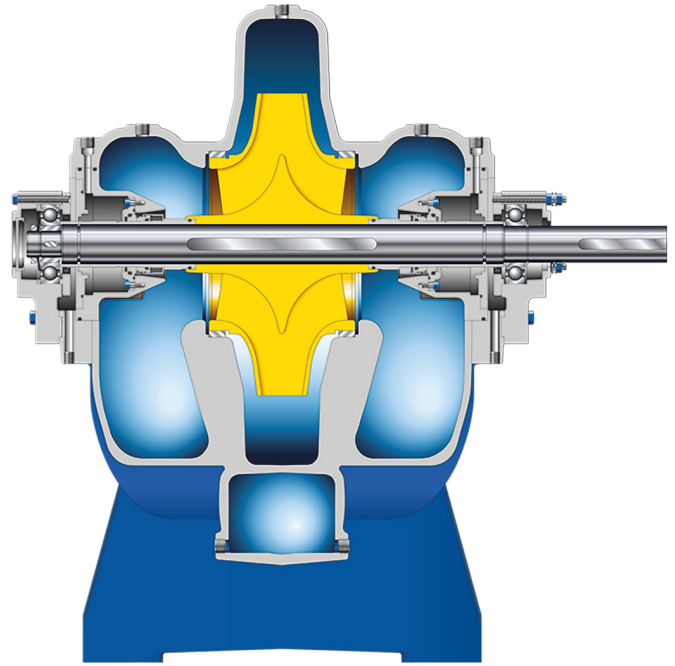
- Fast and easy to assemble thanks to self-centring components such as rotor, mechanical seal, upper casing half, bearing housings and seal housing
- The hexagon head bolts used are easy to remove, enabling fast maintenance. The casing split flange provides direct access to the inside of the pump.

■ Reliable sealing

- The solid casing split flange on the upper casing half and lower casing half ensures reliable and trouble-free sealing of the casing halves.

■ Energy-efficient operation

- High efficiencies reduce energy costs during operation.
- The double-volute casing and the rigid shaft enable a compact, energy-efficient design.
- The hydraulic system is optimised for high speeds.



Materials

Component	Material ⁴⁾
Volute casing	Nodular cast iron / cast duplex steel
Impeller	Bronze / stainless steel / duplex steel
Shaft	Stainless steel / duplex steel
Shaft protecting sleeves	Stainless steel
Casing wear rings	Bronze / stainless steel
Impeller wear rings (optional)	Bronze / stainless steel / duplex steel

¹ For larger flow rates see type series RDLO / RDLOV

² Depending on the material and size

³ For standard design with internal circulation (see API Plan 01): T ≤ 65 °C [149 °F]
For standard design with external circulation (see API Plan 11): T ≤ 80 °C [176 °F]

⁴ Other materials on request