



The VLR are vertical multistage, in-line, centrifugal pumps, directly connected to an electric motor. They are not self-priming.

- HIGH HYDRAULIC EFFICIENCY
- STAINLESS STEEL HYDRAULIC END
- MOTOR DESIGNED TO EN STANDARDS

Applications

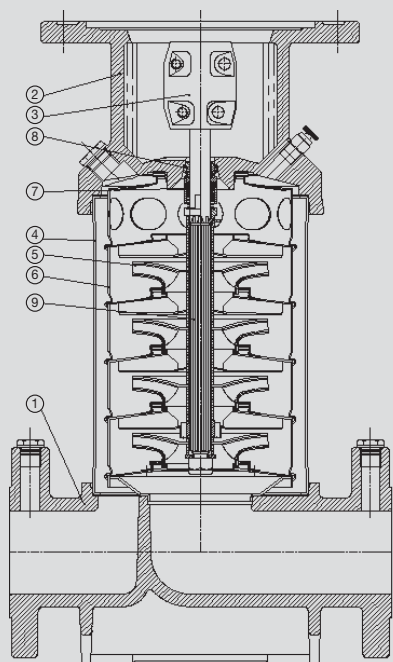
- Water supply
- Pressure Booster Systems
- Irrigation
- High pressure washes
- Firefighting systems
- Boiler supply
- Liquid transfer

Motor

- Asynchronous electric motor with enclosed stator and external ventilation
- Main dimensions are in accordance with DIN and IEC standards
- Design: V18-up to 4,0Kw
V1- to start from 5,5Kw
- Class F insulation
- Level of protection IP 55
- Maximum environmental temperature 40 °C
- Speed of rotation 2900 rpm
- Increased bearings to last longer

Versions Available

- Impeller, diffuser and outside sleeve in stainless steel
- Cast iron base, adapter and motor bracket
- VLR 32 and VLR 66 are equipped with cartridge mechanical seal, in order to avoid a motor disassembling in case of replacement
- All the "A" versions are complete with oval gas cast iron counterflanges
- The "F" version is complete with DIN round flanges



DESIGN FEATURES

Component		Material		
		VLR 2B - 16	VLR 32	VLR 66
1	Pump casing	cast iron EN GJL 200	cast iron EN GJL 500-7U	cast iron EN GJL 250
2	Motor bracket	cast iron EN GJL 200	cast iron EN GJL 200	cast iron EN GJL 200
3	Motor joint	cast iron EN GJS 400	cast iron EN GJL 500-7U	cast iron EN GJL 200
4	Sleeve	Stainless steel X5 CrNi 18-10 (AISI 304)		Stainless steel X2 CrNiMo 17-12-2 (AISI 316L)
5	Impeller	Stainless steel X5 CrNi 18-10 (AISI 304)		Stainless steel X2 CrNiMo 17-12-2 (AISI 316L)
6	Diffuser	Stainless steel X5 CrNi 18-10 (AISI 304)		Stainless steel X2 CrNiMo 17-12-2 (AISI 316L)
7	Rotating seal	silicum carbide	Tungsten carbide	silicum carbide
8	Fixed seal	Graphite		
9	Shaft	Stainless steel X2 CrNiMo 17-12-2 (Aisi 316 L)	Stainless steel X17 CrNi 16-2 (AISI 431)	Stainless steel X2 CrNiMoN 22-5-3 (UNS S 31803)
10	Gaskets	EPDM		

USAGE LIMITATIONS

	VLR 2B - VLR 4		VLR 8	
	Oval flanges	DIN Flanges	Oval flanges	DIN Flanges
Liquid temperature	-15° to +120°		-15° to +120°	
Maximum operating pressure	16 bar	25 bar(max temp 40°) 21 bar(max temp 120°)	16 bar	25 bar(max temp 40°) 23 bar(max temp 120°)
Maximum inlet pressure	VLR2B/30-2 VLR4/20	6bar	16 bar	VLR8/20-VLR8/30 6 bar
	VLR2B/30-VLR2B/110 VLR4/30-VLR4/100 VLR2B/130-VLR2B/260 VLR4/120-VLR4/260	10bar 15bar		VLR8/40-VLR8/200 10 bar
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m			

USAGE LIMITATIONS

	VLR 16	VLR 32	VLR 66
	DIN Flanges	DIN Flanges	DIN Flanges
Liquid temperature	-15° to +120°		-20° to +120°
Maximum operating pressure	VLR16/30-2 - VLR16/160 25 bar (max. temp. 85°) VLR16/30-2 - VLR16/160 23 bar (max. temp. 120°)	Max operating pressure (suction included) 25 bar	Max operating pressure (suction included) up to VLR 66-50 16 bar from VLR 66-60 25 bar
Maximum inlet pressure	VLR16/30-2 - VLR16/30 6 bar VLR16/40 - VLR16/160 10 bar		
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m		

