

Data sheet

Liquid ring compressor vacuum-pump
for suction vehicles



VacuStar

WR 2500 – 3100 – 4000

Liquid ring compressor vacuum-pump

- Overview page 2
- Dimensions page 4
- Features page 3
- Technical data page 4 + 5

VacuStar WR 2500 – 3100 – 4000

Liquid ring compressor vacuum-pump

■ Overview



CVS develops and manufactures compressor vacuum-pumps specifically designed for installation in vacuum trucks. The development is made in close collaboration with our customers. This guarantees the optimum product for your application.

The liquid ring compressor vacuum-pump

The series WR was developed especially for the high requirements on mounting in suction vehicles, municipal vacuum trucks and combination trucks (combined suction and water jetting).

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■ Features

- High quality liquid ring compressor vacuum-pumps from CVS for higher suction level and more suction power
- Unique and robust design guarantee long lasting performance and high operating hours
- Compact and light-weight liquid ring compressor vacuum-pumps for higher payload on the truck

Liquid ring compressor vacuum-pumps with system

The series WR consists of 5 sizes with a volume flow of up to 4063 m³/h / 2391 cfm.

Technical subject to alteration

■ Advantages

- Swivel mounted pump between the mounting feet
- Suction and pressure flange can be connected electively on shaft side or opposite
- Mechanical seal
- Low weight design by using aluminum
- Connection flanges can be swiveled
- Installation friendly design
- Only one water drain

■ Optional

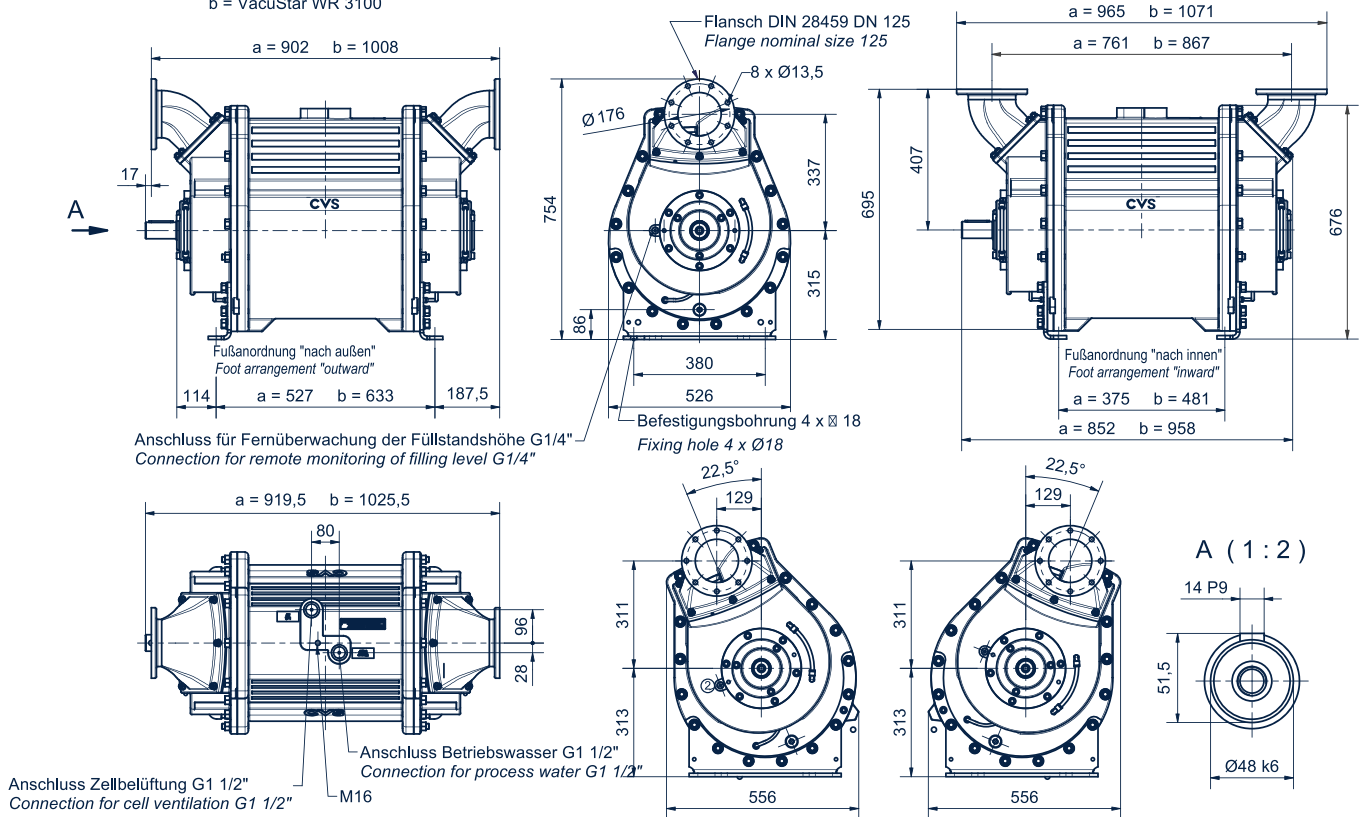
- Ceramic-coated housing and end covers for extreme conditions. Excellent resistance to abrasion, erosion and cavitation. Chemical resistance to acid and alkaline media.
- Stainless steel impeller made of V2A, corrosion and abrasion resistant, well suited for low temperature applications, resistant to weak organic and inorganic acids.
- The integrated cell ventilation protects the water ring pump against cavitation > Increased service life.
- Drive via v-belt or hydraulic



■ Dimensions

Dargestellt Typ 3100: Drehrichtung der Antriebswelle rechts
Pictured type 3100: Rotating direction of shaft clockwise

a = VacuStar WR 2500
b = VacuStar WR 3100



■ Technical data

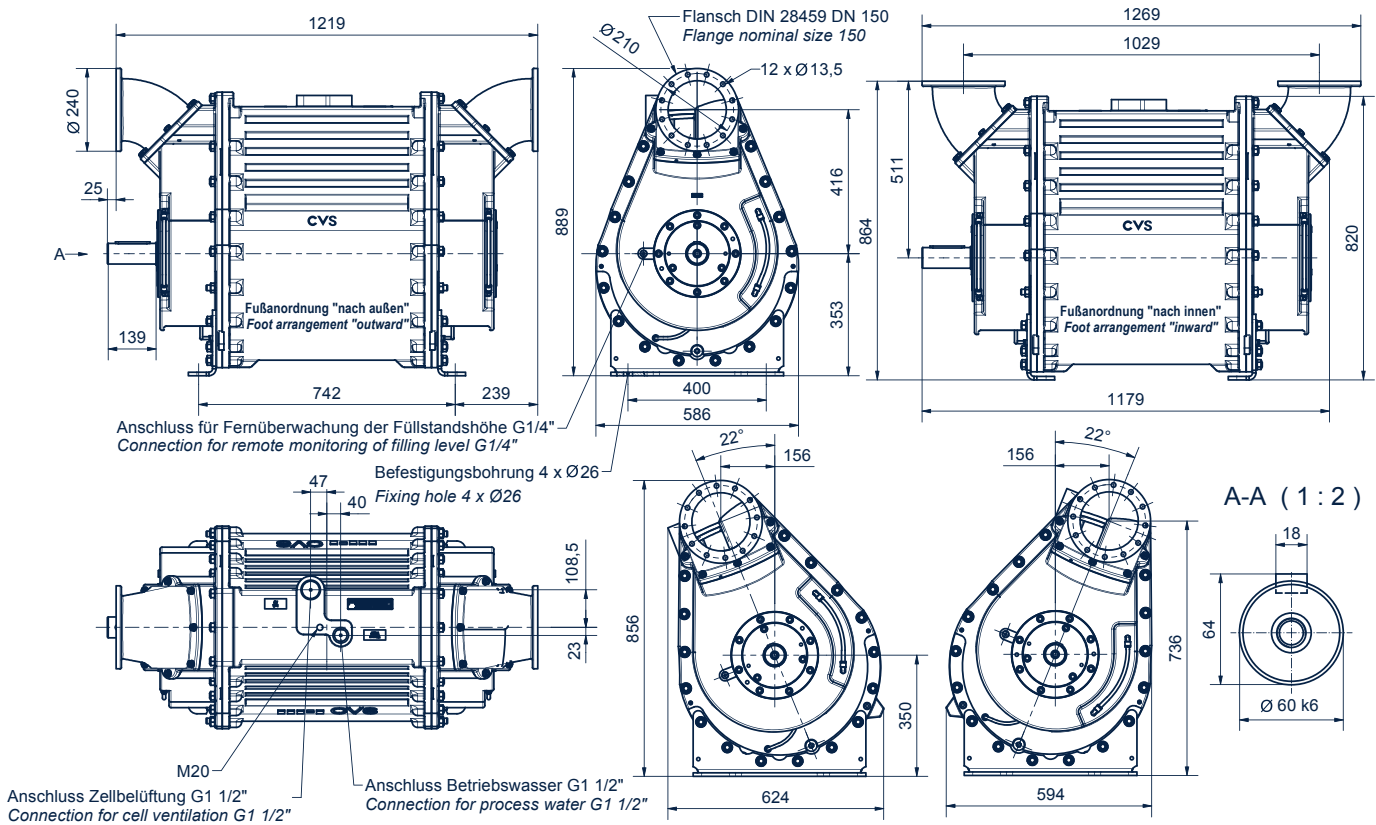
		VacuStar WR 2500	VacuStar WR 3100
Max. suction volume flow	m ³ /h / cfm	2500 / 1470	3100 / 1825
Max. operating pressure	bar g / psig	1.5 / 21.3	1.5 / 21.3
Max. operating vacuum*	mbar / HG"	130 / 26	130 / 26
Nominal speed range	1/min / rpm	800 - 1600	800 - 1600
Max. power requirement at 0.5 bar g / 7.25 psig	kW / hp	77.0 / 105	94.0 / 128
Sound pressure level in 7 m distance at 400 mbar / 18 HG"	dB(A)	70	72
Weight	kg / lb	175 / 385	192 / 422

* Depending on cooling water temperature

Technical subject to alteration

■ Dimensions

Dargestellt: Drehrichtung Antriebswelle rechts
 Pictured: Rotating direction of shaft clockwise



■ Technical data

		VacuStar WR 4000
Max. suction volume flow	m ³ /h / cfm	4063 / 2391
Max. operating pressure	bar g / psig	1.0 / 14.5
Max. operating vacuum*	mbar / HG"	130 / 26
Nominal speed range	1/min / rpm	800 – 1300
Max. power requirement at 0.5 bar g / 7.25 psig	kW / hp	131.5 / 176
Sound pressure level in 7 m distance at 400 mbar / 18 HG"	dB(A)	73
Weight	kg / lb	298 / 657

* Depending on cooling water temperature

Technical subject to alteration