

GVRN

Vertical metal pump





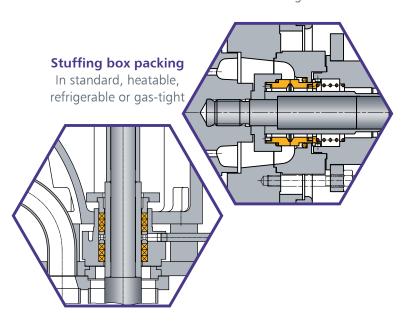


Technical data

	GVRN						
Size DN	100 to 450						
Q _{max} m³/h (gpm)	4000						
H _{max} m (ft)	85						
Submersion depth _{max} m (ft)	3400						
Temperature °C (°F)	-40 bis +250						
Standards	ISO 5199						
Closed Impeller	Standard						
Back pull out design	Standard						
Foot bearing	Standard						
Seal	Stuffing box packing, Mechanical seal						

Mechanical seal

Single-acting and double-acting versions



Options

- Temperature and vibration monitoring
- Equipment health monitoring with i-Alert®3
- Flange connections according to international standards
- Suction tube and/or suction strainer design
- Gas supply systems
- High temperature design with encapsulated screw connections and single acting gas lubricated mechanical seal
- Pump accessories

Applications

Usable in almost all sophisticated $\rm H_2SO_4$ applications.

Materials 1.4136S / RHRS

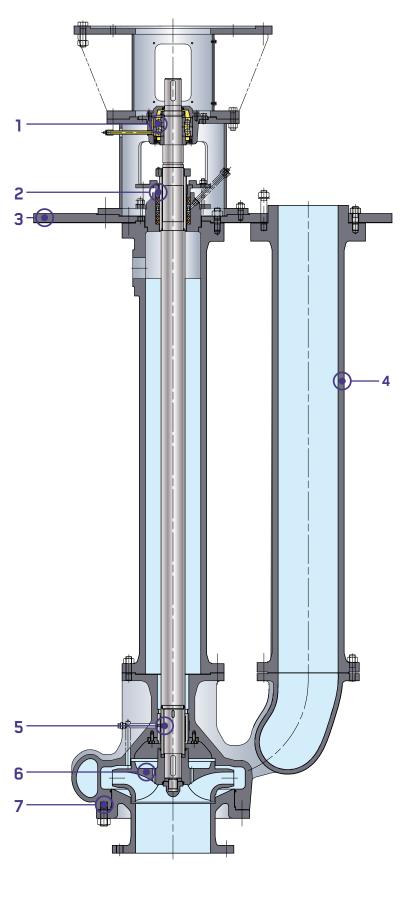
Corrosion and erosion resistant high alloy ferritic cast steel. Typical applications are highly concentrated sulphuric acid up to 225 °C (437 °F), oleum, fertilizer RHRS production, crude phosphoric acid containing solids.

Main features

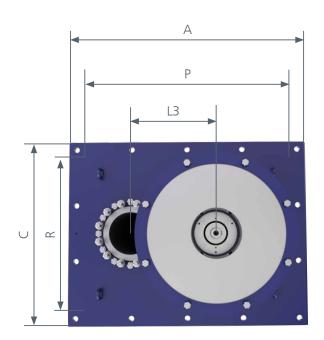


- Long sleeve bearing service life, thanks to radial load compensation in the double volute, and flow erosion in the hydraulics minimized through reduced flow speeds in the double volute.
- Broad range of hydraulics designed for the operational aspects of modern sulphuric acid plants.

 Optimum efficiency of over 80 %.
- 7 Cast version with generous wall thickness for a long service life, and a cost-optimized welded design variant is also available.



Pumps & installation dimensions



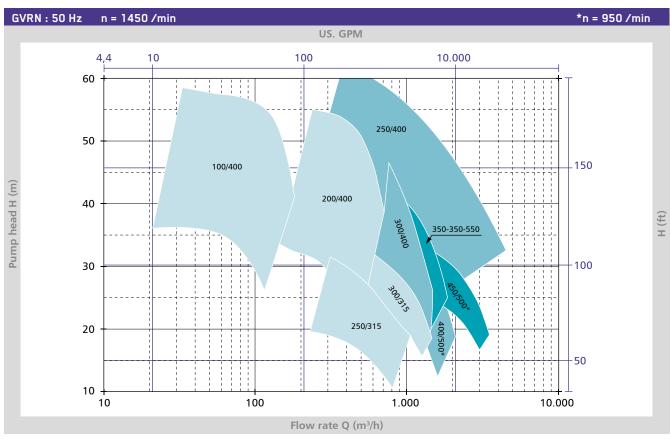


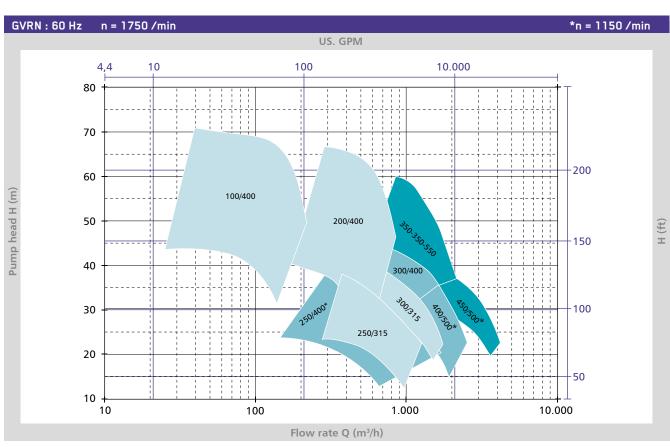
Size	ВВ	TT (Standard)	Pump dimensions			Sole plate				Opening for Installation		Flange dimensions	
			Н	h1	ød	g	Α	С	L3	Р	R	N1	N2
100-400	1	1900	345	135	55	31	1040	830	375	810	600	125	100
200-400	1	2100	345	135	55	31	1260	980	450	1000	720	250	200
250-315	1	2100	345	135	55	31	1410	1090	500	1120	800	300	250
300-315	1	2100	345	135	55	31	1505	1235	500	1215	945	300	300
250-400	2	2060	450	210	80	45	1630	1230	600	1250	940	300	250
300-400	2	2100	450	210	80	45	1630	1230	625	1340	940	350	300
400-500	2	2100	450	210	80	45	1870	1470	725	1600	1200	400	400
350-350-550	2V	2170	450	210	100	45	2060	1220	945	1830	1025	350	450
450-500	2V	2170	450	210	100	45	2000	1720	750	1800	1520	450	400

 $BB = Bearing \ bracket \ TT = Depth \ of \ submersion \ N2 = Pressure \ flange$

All dimensions are shown in millimetres.

Capacity ranges









– An ITT Brand

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