

 **GOULDS PUMPS**

# Goulds VRS

Vertical Rubber-Lined Cantilever Pumps  
Designed for Abrasive and Slurry Services



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# Goulds VRS



The Goulds Model VRS builds on almost a century of cantilever and rubber-lined pump design experience. The VRS is designed using the proven reliability of the SRL and Goulds cantilever pumps. By using the existing SRL wet-end components along with a rugged power end and shaft design, the VRS offers higher efficiencies, with maximum reliability and interchangeability. Offered in standard lengths and a wide variety of elastomers, the VRS provides the right pump for the application along with years of dependable service, even under the worst operating conditions.



Model SRL

## Vertical Cantilever Pumps Designed for Abrasive and Slurry Services

- Sizes: 2, 3, 5 and 6 inch (50, 75, 125 and 150 mm)
- Flows to 1,500 GPM (341 m<sup>3</sup>/h)
- Heads to 120 feet (37 m)
- Solids to ¼ inch (6 mm)
- Pressures to 75 psi (517 kPa)
- Available in 4-foot (1.2 m) and 6 ft (1.8 m) lengths

## Design Features

Maximum interchangeability

- Wet ends are completely interchangeable with horizontal Model SRL to ease maintenance and reduce inventory

Large-diameter impellers

- Develop higher heads at lower RPMs for improved wear
- Open design ideal for sump service
- Available in a variety of elastomers to suit your application

Field-replaceable elastomer liners

Design for lower operating costs

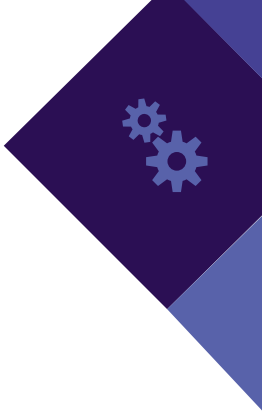
Heavy-duty bearing frame for reliable performance

Large-diameter shaft for low deflection

Operation below first critical speed

## Services

- Mineral processing
- Non-metallic mining
- Sand and gravel
- Power utility
- Pulp and paper
- General industry

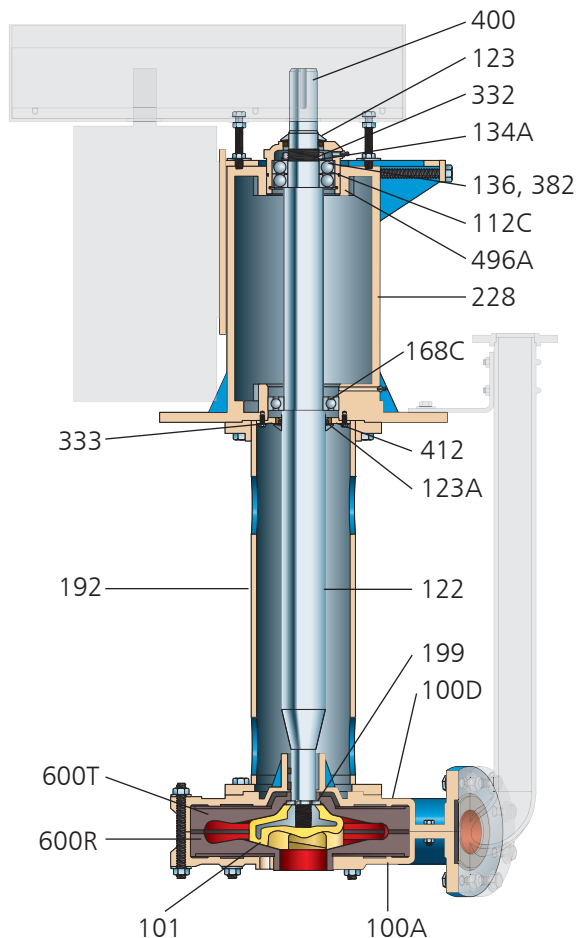


## Standard Features

- Motor mount and V-belt guard provided as standard
- Integral mounting plate
- 4-foot (1.2 m) and 6-foot (1.8 m) setting
- Field-replaceable lines

## Optional Features

- Discharge pipe
- Tailpipes for non-standard lengths
- Strainer
- High motor mount arrangement
- Metal impellers
- Range of elastomers



## Available Elastomers for VRS Pumps

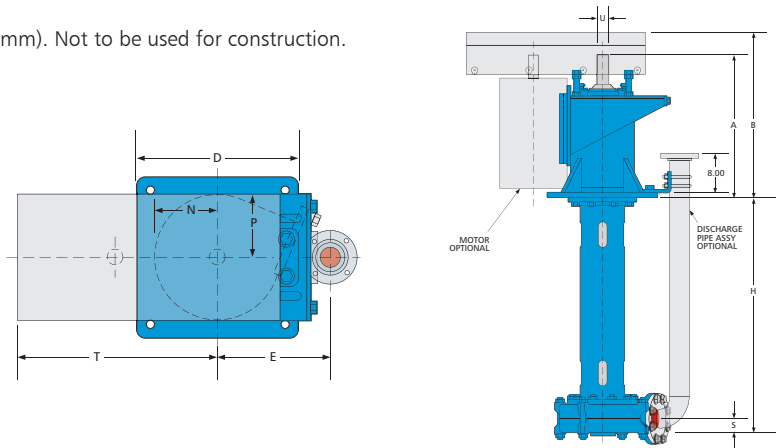
Elastomer Type	Durometer Shore A
	Hardness
Natural Rubber	40
Natural Rubber	50
Neoprene	60
Nitrile	60
Hypalon	55
Urethane	81

## Parts List and Materials of Construction

Item No.	Part Name
100A	Suction Half Casing
100D	Gland Half Casing
101	Impeller (Elastomer)
112C	Thrust Bearing
122	Shaft
123	Outboard Deflector
123A	Inboard Deflector
134A	Thrust Housing
136	Bearing Locknut
168C	Radial Bearing
192	Column Pipe
199	Shaft Washer
228	Frame
332	Outboard Seal
333	Inboard Seal
382	Bearing Lockwasher
400	Shaft Key
412	O-Ring
469A	O-Ring
600R	Suction Liner (Elastomer)
600T	Gland Liner (Elastomer)

## Dimensions

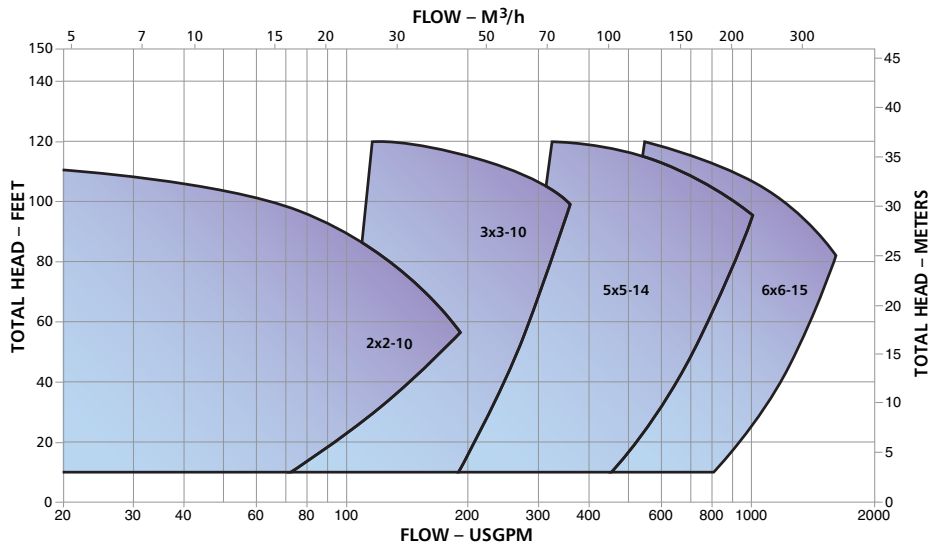
All dimensions in inches and (mm). Not to be used for construction.



Pump Model	Suct. x Disch x Impeller	Setting	Frame	A	B	D	E	H	N	P	S	T	U	Weight* lbs. (kg)
2VRS4V2	2x2-10	4 ft.	V2	21.81	26.63	19.00	13.20	48.00	8.36	8.58	2.31	23.82	1.625	575 (259)
2VRS6V3	2x2-10	6 ft.	V3	28.74	33.50	22.00	15.02	72.00	8.21	8.40	2.31	27.57	2.250	925 (420)
3VRS4V3	3x3-10	4 ft.	V3	28.74	33.50	22.00	15.56	48.00	9.64	9.85	3.06	27.57	2.250	825 (374)
3VRS6V4	3x3-10	6 ft.	V4	36.68	41.50	30.00	17.88	72.00	9.81	9.98	3.06	33.76	2.875	1525 (692)
5VRS4V4	5x5-14	4 ft.	V4	36.68	41.50	30.00	21.80	46.90	13.87	13.42	3.88	33.76	2.875	1600 (726)
5VRS6V5	5x5-14	6 ft.	V5	46.82	51.67	32.00	21.80	70.90	13.87	13.42	3.88	37.76	3.875	2750 (1247)
6VRS4V4	6x6-15	4 ft.	V4	36.68	41.50	30.00	25.09	49.10	15.36	14.97	5.13	33.76	2.875	1950 (884)
6VRS6V5	6x6-15	6 ft.	V5	46.82	51.67	32.00	25.09	73.10	15.36	14.97	5.13	37.76	3.875	3125 (1417)

\*Weight = Weight of bare pump (no motor or discharge pipe).  
For 6-foot setting dimensions, RTF.

## Hydraulic Coverage



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