



V Series

Heavy-Duty

**Vertical Cantilever
Slurry Pump**

**Elastomer and
Hi-Chrome Wet Parts**



SERIES OVERVIEW

The V Series are known for their reliable abrasion and corrosion resistance in sumps and pits where conventional lighter-duty pumps are not suited. Schurco Slurry has invested in producing the highest quality and heaviest duty wear components that will outlast the competition.

Mining & Mineral Processing

applications benefit from the slow running speeds of the V Series pumps and their easily replaceable elastomer or white iron liners and impellers. Especially suited for sumps and pits where washdown from all over the plant collects for removal.



Industrial operations are familiar with the heavy toll that maintenance on slurry pumps can take on a budget. Schurco Slurry® pumps are designed for ease of maintenance, minimizing downtime when standby pumps are not available.

Schurco Slurry® Pumps are designed specifically for abrasive pumping of any kind

Widely Fielded Applications

- Floor Pumps
- Coal Preparation
- Mineral Processing
- Industrial Sand and Aggregate
- Frac Sand
- Chemical Processing

TECHNICAL SPECIFICATION

The V Series pumps employ a rigorous heavy-duty cantilever design, which can run continuously in abrasive and corrosive pumping environments.

Application Range

- Discharge sizes 1.5" to 10" (40 to 250 mm)
- Flow rates through 5,000 gpm (1135 m³/hr)
- Total Head up to 160 ft (50 m)
- Cantilevered depth to 12 ft (3600 mm) with suction extension pipe
- Shaft sizes through 200 mm

V Series Pumps

Base Model	Bearing Assembly	Nominal Pump Depth* (inches, [mm])	Nominal Suction x Discharge (inches, [mm])	Nominal Impeller** Diameter (inches, [mm])	Solid Sphere Passing, Ø** (inches, [mm])	Impeller** Materials	Liner Materials
1.5 V 40	PV	48 [1200]	2x1.5 [50x40]	7.40 [188]	0.47 [11.9]	Chrome Iron(s) and Elastomer(s) Available NOTE: Open face, large particle and specialized impellers for certain models	Chrome Iron(s) and Elastomer(s) Available
2.5 V 65	QV	48 [1200]	3x2.5 [75x65]	11.02 [280]	0.59 [15]		
4 V 100	RV	60 [1500]	6x4 [150x100]	14.57 [370]	1.26 [32]		
6 V 150	SV	72 [1800]	8x6 [200x150]	17.72 [450]	1.77 [45]		
8 V 250	SV	72 [1800]	10x8 [250x200]	20.47 [520]	2.56 [65]		
10 V 250	TV	84 [2100]	12x10 [300x250]	22.64 [575]	2.56 [65]		

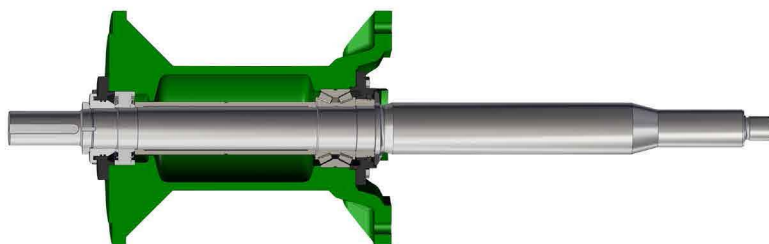
*Three standard pump depths offered for every base model: nominally 12" shorter and 12" longer than the standard depth

**Standard impeller (typically five vane, chrome iron)

Key Advantages

- Fully cantilevered design
- Continuous or "snore" operation capability
- Large particle impellers available
- Abrasion and corrosion resistant material options
- No submerged bearings
- No shaft seal required
- No gland water or packing required
- Top and bottom suction draws slurry away from bearings

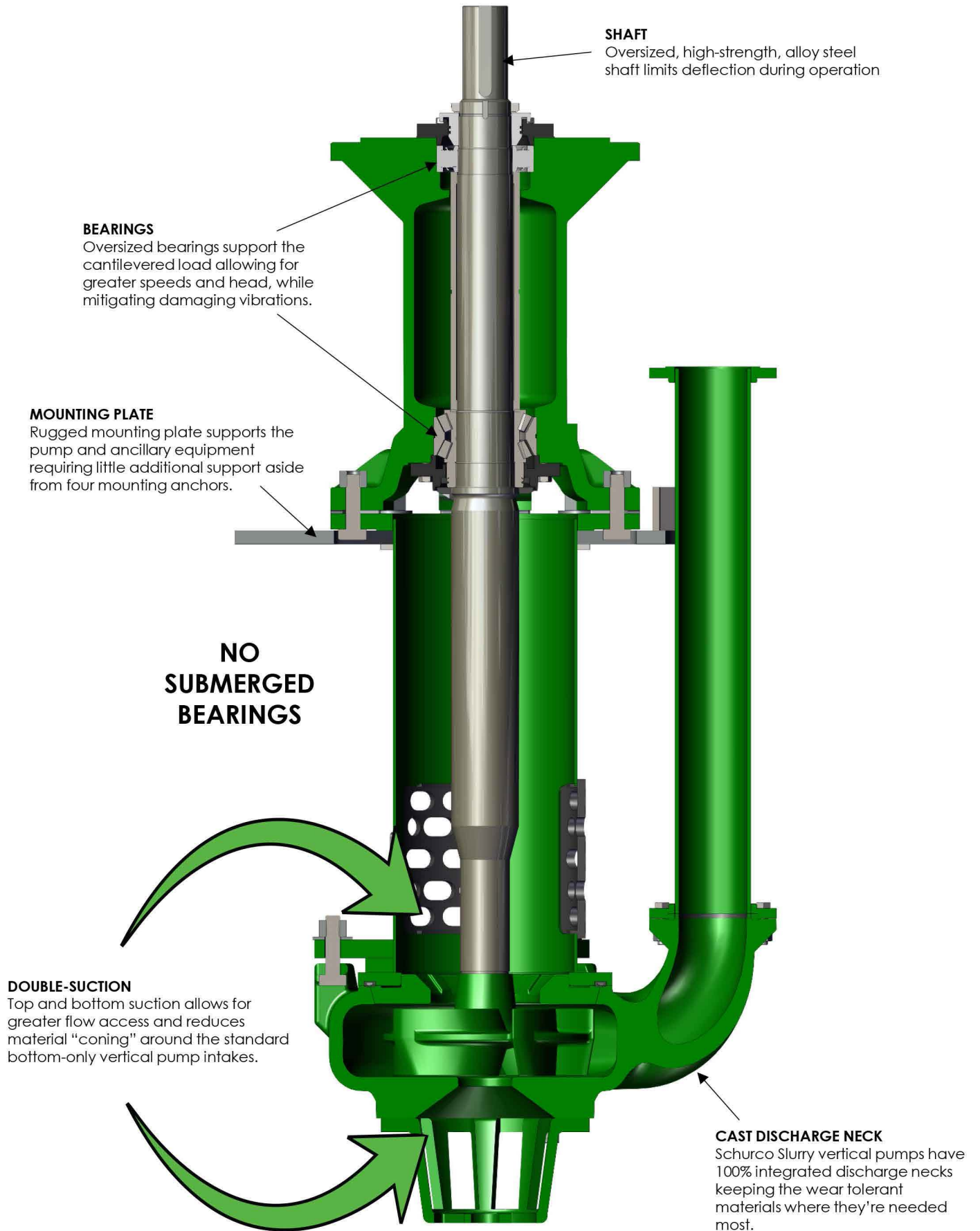
Bearing Assembly Ratings



Type	Capacity (HP [kW])
PV	20 [15]
QV	40 [30]
RV	101 [75]
SV	148 [110]
TV	268 [200]

- Grease-lubricated cartridge bearing assembly
- Extended bearing life with oversized shaft diameters and bearings
- Only the highest quality name brand tapered-roller and roller bearings
- Safe and simple impeller adjustment to maintain top efficiency

V SERIES BREAKDOWN



VERTICAL CANTILEVER FEATURES AND OPTIONS

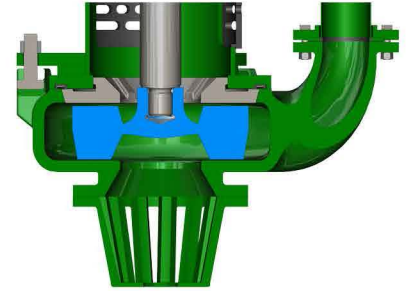
BACK LINER

The opened back liner allows plenty of room for the oversized shaft along with slurry to pass through and pump from the top and bottom. The top suction draws the slurry away from the drive end.



IMPELLER

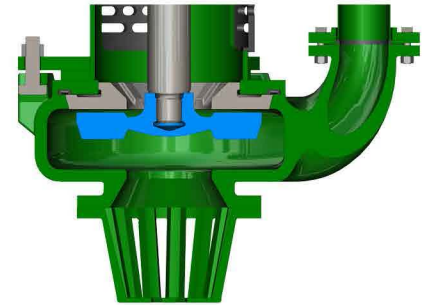
Heavy-duty open style impellers draw suction from the top and bottom allowing greater, more efficient flow, and wear evenly throughout the life of the part.



STANDARD IMPELLER

CASING

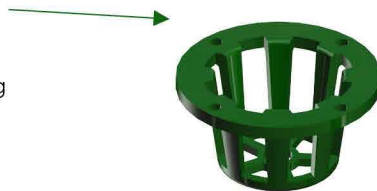
The ultra-thick casings are cast solid in the most wear resistant materials with an integral discharge neck to remove a major point of failure in other vertical pumps.



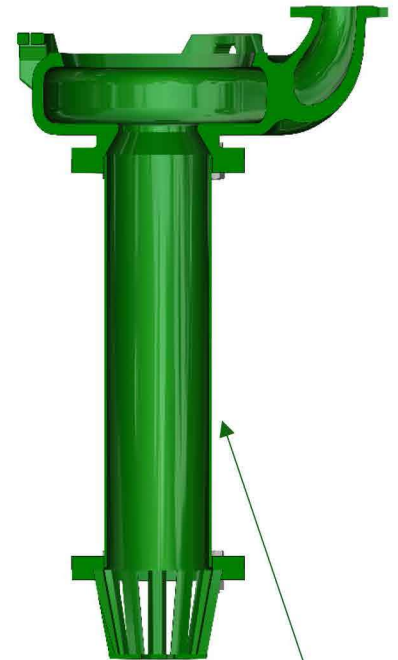
LARGE PARTICLE IMPELLER

LOWER STRAINER

The lower strainers keep large foreign material from entering the casing.



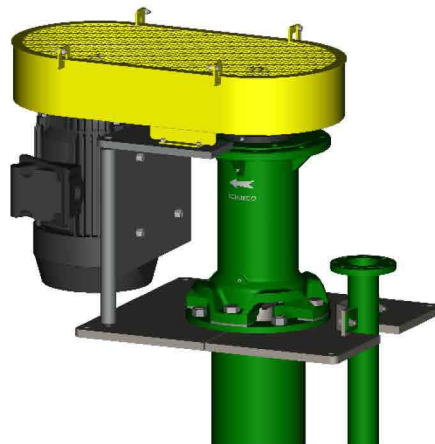
All wetted parts shown here available in elastomer configuration for most models.



SUCTION EXTENSION for pumping out deep-set pits and sumps.



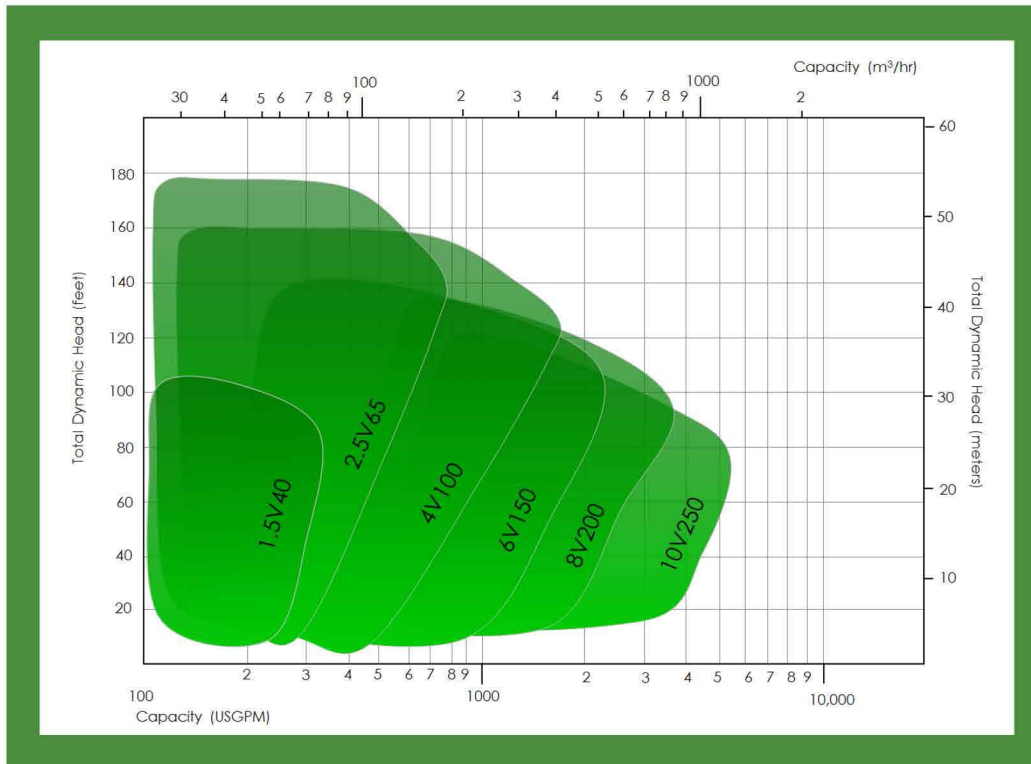
MOTOR SHAFT DOWN MOUNTING (STANDARD)



MOTOR SHAFT UP MOUNTING

BASIC SELECTION

V Series Hydraulic Coverage



Material Selection

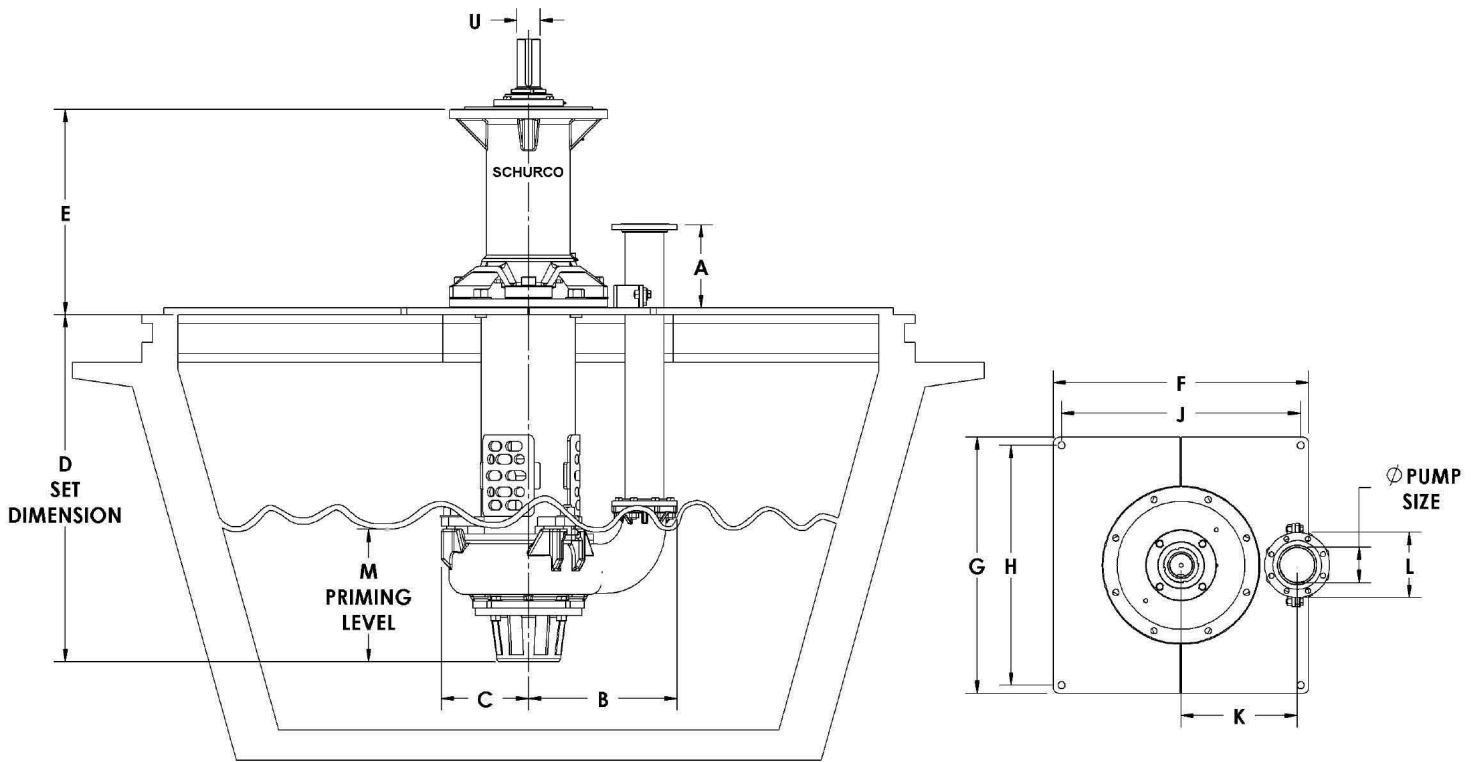
	Casing	Impellers	Liner	Seals	Column and Discharge Pipe	Mounting Plate	Shaft	Strainers
Standard	Chrome Alloy* Natural Rubber**	Chrome Alloy* Natural Rubber**	Chrome Alloy* Natural Rubber**	Rubber Nitrile	Mild Steel Rubber lined steel	Steel	AISI 1040/1045	Ductile Iron Rubber
Options	Other Alloys Neoprene Butyl EPDM Hypalon Nitrile	Other Alloys Neoprene Butyl EPDM Hypalon Nitrile	Other Alloys Neoprene Butyl EPDM Hypalon Nitrile				AISI 4340	Alloy steels Neoprene Butyl EPDM Hypalon Nitrile

*Standard Chrome Alloy: ASTM A532 Class III Type A – 27% Cr, 650BHN; Alternatives available for highly corrosive services.

** Through model 6V150



OUTLINE DIMENSIONS



Model	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	U (mm)	Mass (lbs)
1.5V40	M	5.36	11.22	6.02	35.43	14.96	19.68	19.68	17.71	17.71	8.07	5	6.85	40	629
	R	5.51	10.43	6.89	35.43	14.96	19.68	19.68	17.71	17.71	8.07	5	6.85	40	550
2.5V65	M	8.93	15.7	9.09	47.24	19.37	26.77	26.77	24.41	24.41	11.22	7	10.43	50	953
	R	9.05	14.96	10.23	47.24	19.6	26.77	26.77	24.41	24.41	11.22	7	10.43	50	850
4V100	M	10.23	21.18	12.48	59.05	26.06	39.37	34.25	31.49	36.61	15.74	9.01	15.47	80	1911
	R	10.47	21.06	13.07	59.05	26.29	39.37	34.25	31.49	36.61	15.74	9.01	15.47	80	1700
6V150	M	15.35	26.37	14.37	70.86	34.44	43.3	43.3	40.55	40.55	19.68	11.02	18.7	100	3830
	R	15.55	26.37	15.74	70.86	34.76	43.3	43.3	40.55	40.55	19.68	11.02	18.7	100	3350
8V200	M	17.71	31.69	17.32	70.86	34.56	51.18	47.24	43.3	47.24	23.62	13.5	21.65	100	6800
10V250	M	19.68	36.61	18.5	82.67	39.37	68.89	57.08	53.14	64.96	27.55	15.98	26.96	100	9000

All dimensions in inches except shaft diameter "U" which is in [mm]

Type: "M" is all metal construction, "R" is all rubber (or other elastomer) wetted parts.

These dimensions are a first look only. Please consult factory certified drawings for any construction or layout purposes.



SCHURCO SLURRY® PUMPS

Centrifugal Slurry Pumps

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