



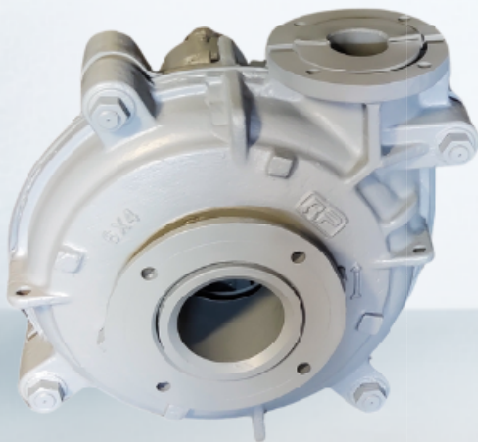
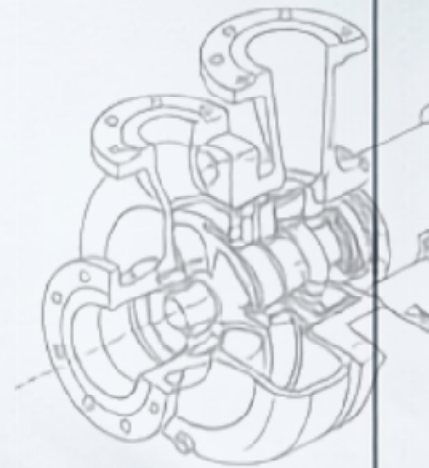
Enduring Quality and Trust

RONAK PUMPS AND VALVES PVT. LTD.

An ISO 9001:2008 Certified Company

INDUSTRIAL SLURRY PUMPS

Mining, Minerals, Aggregate,
& Crushing Industries



**HIGH
DURABILITY**



**HIGH
DURABILITY**



**EFFICIENT FLUID
HANDLING**



**ABRASION
RESISTANCE**

ABOUT US

Ronak Pumps and Valves Pvt. Ltd. is a company which excels in manufacturing chemical process pumps of top quality. Founded by Mr. Pravin S. Patel in 1997, the company rides on the immense knowledge and experience accumulated by Mr. Pravin in his long-standing presence in the industry.

The company is based in the well-organised industrial area of Kathwada, Ahmedabad, with connectivity through roadways and air network that ensures a free-flowing business channel.

This catalogue introduces the RP Pumps slurry range: the RP-RSP horizontal slurry pump for surface duty, and the RP-VSP vertical sump pump for sump and tank installations, engineered for continuous pumping of highly abrasive and dense slurries.

Heavy-Duty Pumping Applications Certified Company

The RP-RSP slurry pump range is designed to perform continuous pumping of highly abrasive / dense slurries for regrind, flotation, transporting and tailings duty in chemical, minerals and solid-particle processing plants, as well as other industrial applications.

- Coarse sand
- Ball mill discharge
- Fly ash slurry, lime grinding slurry
- Coal
- Flotation
- Mineral sands
- Dredging
- Oil sands
- Phosphoric acid / phosphate matrix
- Heavy media, minerals concentrate
- Process chemical
- Pulp and paper
- Acid slurry
- Rod mill discharge

Product Range Overview

RP-RSP — Horizontal Slurry Pump: horizontal, single-stage, end-suction, tangential-discharge pump, available in Rubber Lined (RSPr) and Metal Lined (RSPm) construction.

RP-VSP — Vertical Sump Pump: vertical, modular sump pump with base plate, column pipe and close/semi-open impeller for sump and tank installations.



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www.ronakpumps.com

Model: RP-RSP

HORIZONTAL SLURRY PUMP

The RP-RSP slurry pump is a horizontal, single-stage, end-suction design with a tangential discharge nozzle. Engineered to handle high concentrations of fine abrasive solids in suspension, or corrosive and abrasive mixtures, RP-RSP is a workhorse in solids-handling industries.

RP-RSP offers a broad range of configurations, allowing the pump to be tailored to the customer's specific application.

Advantages

- Lower power requirements — up to 25% less
- Long, even wear life
- Less pump downtime
- Lower cost-per-tonne pumped



RP-RSP slurry pump

Two Liner Constructions

- RSPr — Rubber Lined Pumps
- RSPm — Metal Lined Pumps

Materials of Construction

Wetted parts are interchangeable and configured to customer requirement, across a wide range of rubber elastomer and metal liners.

RSPm — metal liners

- CF8, CF8M, CF3M, CF3
- CN7M, CD4MCu
- Alloy C276 (Hastelloy C276)
- CD3MN (Duplex), CE3MN (Super Duplex)
- ASTM A532 GR IIIA (500 BHN)
- HIGH CHROME

RSPr — rubber elastomer liners

- Natural rubber
- Urethane
- Neoprene
- Chlorobutyl
- Nitrile
- Hypalon or Viton



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IMPELLER & THROAT BUSH DESIGN

The RP-RSP impeller and throat-bush combination is a superior upgrade over conventional slurry pump design, engineered to enhance efficiency and improve wear performance. A unique vanelet on the back of the impeller streamlines flow through the impeller.

Design Features & Benefits

Enduring Quality and Trust

- Heavy-duty through-bolt construction eases maintenance and cuts downtime
- Graded cast-iron fully lined casing for durability, strength and long service life
- Large-diameter, slow-turning, high-efficiency impellers for maximum wear life and low operating cost
- Large open internal passages reduce internal velocities and maximise wear life
- Thick elastomer or alloy bolt-in liners for corrosion resistance and easy change-out
- Minimal shaft/impeller overhang reduces shaft deflection and increases packing life
- Cartridge-style bearing assembly allows clean-environment maintenance without pump removal
- Grease or oil lubrication options; optional dry-running shaft seal
- Interchangeable seal arrangements — full flush, low flow, centrifugal or mechanical

Multiple Drive Arrangements

- Direct coupled — direct-drive, base-mounted
- Belt driven — side-drive, base-mounted
- Direct overhead motor mount

Discharge Positions

Discharge orientation is field-adjustable to Top, Horizontal or Bottom to suit piping layout.

Applications

- Mineral processing — acidic slurries, fine tailings, leaching, electrolysis
- Pulp and paper — lime and mud, CaCO_3 and TiO_2
- Power Plant
- Air pollution — gypsum slurries, absorber pumps
- Water pollution — mill effluent
- Sand Washing Plant
- Minerals Industries
- Stone Crusher Industries

Discharge positions (IMAGE)



Top Horizontal Bottom



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RP PUMPS®

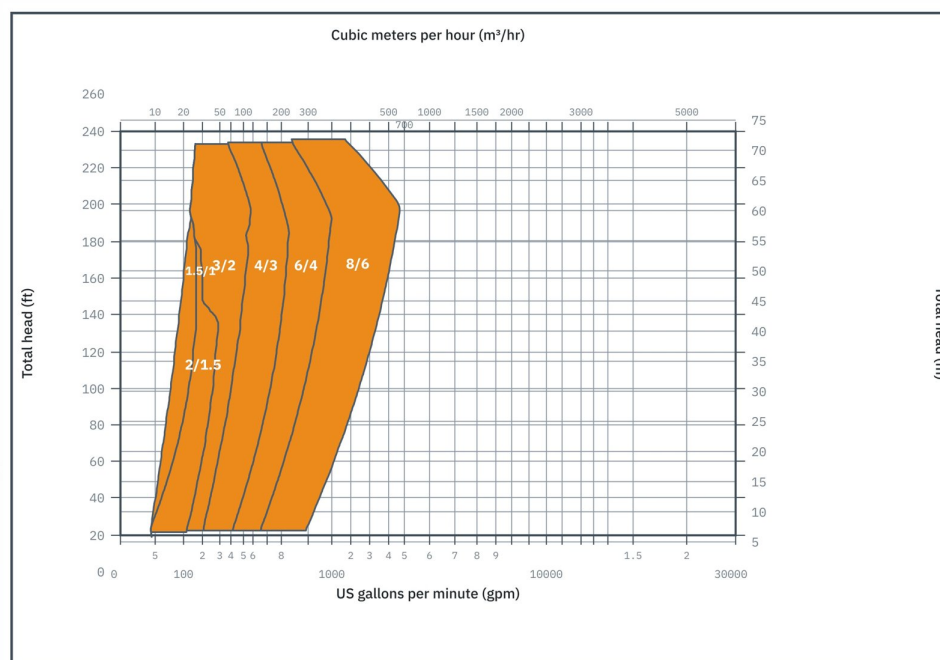
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TYPICAL PERFORMANCE POINT

Parameter	Value
Flow	1500 m ³ /h
Total Head	70 m
Slurry SG	3.15
Solid SG	6.75
Solids (Cw)	19.00 %
Max. Solid Size	20 mm

PERFORMANCE CURVES

Family performance envelope for the RP-RSP horizontal slurry pump range, covering pump sizes 1.5/1 through 8/6.



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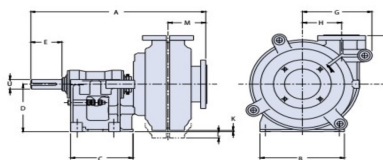
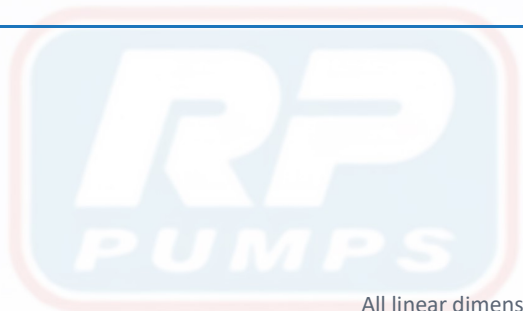


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GENERAL ARRANGEMENT



All linear dimensions in millimetres (mm); mass in kilograms (kg). '-' means not applicable for that size.

DIMENSION & MASS TABLE — RP-RSP SERIES

Pump Size	A	B	C	D	U	Key	E	G	H	J	K	M	Mass Metal (kg)	Mass Rubber (kg)
1.5/1 B	583	295	248	197	28	8x7	79	181	98	171	46	106	90	75
2/1.5 B	596	295	248	197	28	8x7	79	203	114	184	33	115	100	85
3/2 C	777	406	311	254	42	12x8	122	238	138	210	67	156	200	160
4/3 C	848	406	311	254	42	12x8	121	292	149	262	20	192	300	230
4/3 D	948	492	364	330	65	18x11	152	292	149	262	100	192	380	280
6/4 D	1028	492	364	330	65	18x11	150	406	229	338	12	228	660	420
6/4 E	1188	622	448	457	80	22x14	220	406	229	338	139	228	810	620
6/4 EE	1240	622	448	457	85	22x14	222	435	229	460	49	230	1110	980
8/6 E	1318	622	448	457	80	22x14	222	551	318	460	-	292	1510	980
8/6 F	1518	857	635	610	100	28x16	279	551	318	460	91	304	1650	1160



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Horizontal Slurry Pump Parts



Horizontal Slurry Pump Parts



Model: RP-VSP

VERTICAL SUMP PUMP



RP-VSP vertical sump pump

Features

- Designed to meet specific lengths and application requirements
- Base plate designed to match existing support arrangements
- Standardised and modular design
- Compact design using less floor space
- Close / semi-open impeller
- Easy maintenance, replaceable parts
- Heavy-duty shaft, sleeve & bearings; grease/oil lubrication

Operating Range

Parameter	Rating
Capacity	Up to 500 m ³ /h
Head	Up to 60 m
Discharge Size	DN 25 to 150 mm
Temperature	Up to 130 °C
Speed	Up to 2900 rpm
Pressure	Up to 10 kg/cm ²
Pump Length	Up to 3 m

ADVANTAGES

- Standard shaft sealing by oil seal, mechanical seal or stuffing-box packing
- Column pipe connects the pump casing to the base plate and protects the shaft
- Supports intermediate bush bearings where required
- Suction strainer, simple mounting, self-priming
- Optimised hydraulic performance

Materials of Construction

- | | | |
|-------------------------------|-----------------|-------------------------|
| • ASTM A532 GR IIIA (500 BHN) | • CF8M | • R55 |
| • HIGH CHROME | • CF3M (SS316L) | • Bronze, Alloy 20 |
| • Carbon steel (WCB) | • CD4MCu | • Graded grey cast iron |
| • CF8 | • Ni-Resist | • Alloy steel |

Applications

Sulphuric acid, nitric acid, HCl transfer; solvents, diesel and petrol transfer; light slurries and organic chemical processing; water, cooling water, effluent, cleaning product and hydrocarbons; zinc and copper plant; salt and pharmaceutical duties.

ETP, STP and waste-water treatment plants; scrubber applications; slurry transfer; dyes and intermediates; steel rolling mills; pulp, paper, sugar, salt and starch industries; ceramic and general industrial services.

Application Industries

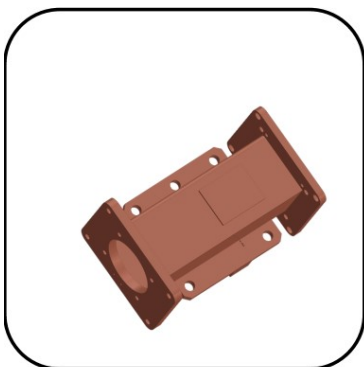
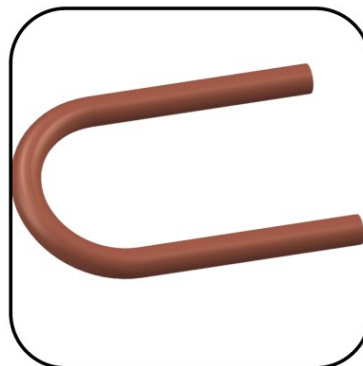
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|----------------------------|---|
| • Sand Washing Plant | • Chemical process industries |
| • Minerals Industries | • Fertilizer plants |
| • Stone Crusher Industries | • Bulk drugs & pharmaceutical |
| • Power Plant | • Pulp and paper |
| • Sugar plants | • Cement |
| • Mining Industry | • Effluent treatment plants, power, steel |



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Vertical Slurry Pump Parts





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