

Address 13 Patrick Road Jetpark, Boksburg, Johannesburg

MV Vertical Slurry Pump



The MV/MVR heavy duty pump is designed for applications requiring greater reliability and durability. The bearing assembly allows the jump to operate in the "snore" condition without damage to the bearings. It is designed for handeling abrasive slurries and corrosive fluids by using either elsatomer or alloy lined wet ends components. The pump is suitable for mining, chemical treatment, waste water treatment, gravel and general process application.

Typical Application

Mill Discharge
Coarse Sand
Tailings
Mineral Concentration
Heavy Media
Coal Washing
Chemical Processing
Effluent Handling
FGD
Waste Water

Pump Designation

100 RV MV(R)

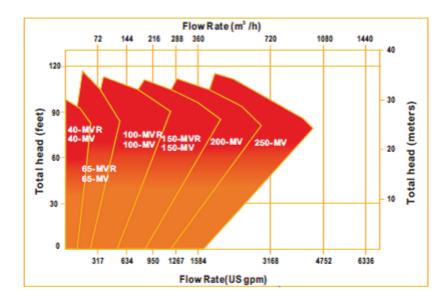


MV-Metal lined vertical slurry pump MVR-Rubber lined vertical slurry pump

Bearing Assembly Model

Discharge Diameter (mm)

MV Pump Quick Selection Chart



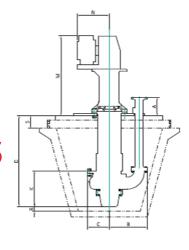
Pump Range

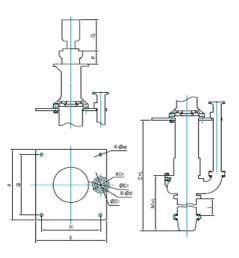
Discharge Size: 40 to 250mm Capacity: 17 to 1000m3/h

Head: 4 to 40 m



Outline Dimensions





Pump Features

Wide range of hard metal or rubber wet parts to ensure longer service life

Double suction semi-open impeller, effectively reduces the axial load

No subermeged bearing avoids the need for gland or bearing flushing water

Suction pipe or agitator available, which can be used for pumping the high density slurries under the pit

MVR models feature full rubber covering for corrosion resistance

Can be run in insufficient suction duties

The screened inlets and large impeller passages reduce the risk of blockages

Material Options

| Pump Size | A | В | С | D | E | F | G | н | 1 | Φn | к | Key Size | Note | N dimen motor | ision c | Q hange | Weight (KG) | Š | | harge ΦD2 | | |
|---------------|-----|-----|-----|---------------|------|------|------|------|---------|------|-----|-------------|------|---------------------|-----------|------------|----------------|-------|-----|--------------|-----|----------------|
| | 137 | | | 900* | 500 | 500 | 450 | 450 | 205 | 18 | 174 | 12×8 | 1113 | 675 | 248 | 629 | 285 250 | 280 | 127 | 40 | 98 | 4-Ф1 |
| 40PV-MVR | | 265 | 1/5 | 1200 | | | | | | | | | 1113 | | | | 250 | | | | | |
| 65 QV-MV | 224 | 374 | 234 | 900 | | | | | | | | | 1390 | | | | 432 | | | | | |
| 65 QV-MVR | 230 | 380 | 260 | 1200° 1500 | 680 | 680 | 620 | 620 | 285 | 19 | 265 | 14×9 | 1396 | 794 | 290 | 681 | 381 | 350 | 178 | 65 | 140 | 4-@19 |
| 100RV-MV | | | 311 | 1200 | 1000 | | | | 929 400 | 0 22 | 393 | 22×14 | | | 0 416 960 | | 867 | | | | 191 | 8- Φ 19 |
| | | 435 | | 1500* | | | | | | | | | | | | | | | | | | |
| | 261 | | | 1800 | | | | | | | | | 1803 | | | | | 350 2 | 229 | | | |
| | | | | 2000 | | 870 | 800 | 929 | | | | | | | | 960 | | | | 104 | | |
| | | | | 2400 | | | 000 | | | | | | | | | | | | | | | |
| | | | | 1200 | | | | | | | | | | | | | | | | | | |
| 100RV-MVR | 266 | 535 | 332 | 1500* | | | | | | | | | 1809 | | | | 743 | | | | | |
| | | | | 1800 | | | | | | | | | | | | | | | | | | |
| 150SV-MV | 395 | 670 | 400 | 1500 | | | | | | | | | 2186 | | | | 1737 | | | | | |
| 150SV-MVR | 395 | 670 | 400 | 1800* | 1100 | 1100 | 1030 | 1030 | 500 | 28 | 475 | 28×16 | 2194 | | 476 | 1011 | 1523 | 350 | 280 | 150 | 241 | 8- Q 2 |
| 13031 111 111 | 333 | 0,0 | 400 | 2100 | | | | | | | | | | | | | 2323 | _ | | | | |
| | | | | 1500 | | | | | | | | | | | | | | | | | | |
| 200SV-MV | 461 | 805 | 441 | 1800* 2100 | 1300 | 1200 | 1100 | 1200 | 600 | 28 | 550 | 28×16 | 2191 | 1300 | 4/6 | 1011 | 3090 | 350 | 545 | 200 | 298 | 8- Q 2 |
| | | | | 1800 | | | | | | | | | | | | | | | | | | |
| 250TV-MV | 494 | 903 | 490 | 2100* | 1750 | 1450 | 1350 | 1650 | 700 | 48 | 685 | 28×16 | 2572 | 1750 | 561 | 1246 | 4090 | 400 | 406 | 250 | 362 | 12- 0 |
| | | | | 2400 | | | | | | | | | | | | | | | | | | |
| | | | | | | - | | | | | | | | | | | | | | | | |

A major advantage of the slurry pump is the number of optional materials available. This enables a pump to be constructed with the most appropriate materials specifically to meet duty requirements

Note: All the dimensions are in millimeter (mm)

means the standard pump length.

size includes: 0, 300, 600, 900, 1200, 1800 mm, when L=0 mm, the pump is standard length.

R dimension range: 300 - 500 mm.

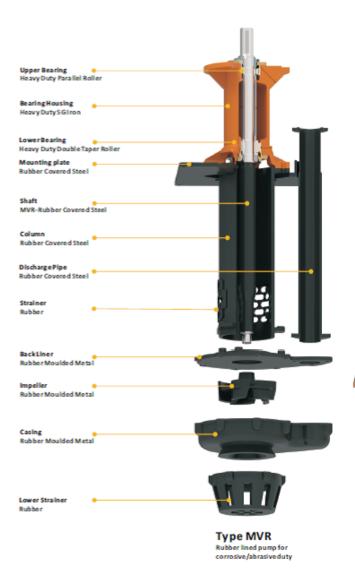
| Material Code | Hardness (HRC) | Impact Toughness (J/cm2) | Application | Standards |
|------------------|-------------------|--------------------------------|---|-----------------------|
| M05 | ≥58 | 5~7 | Alloy MOS is particularly suited for greater impact load and fair corrosion resistance, and it is used when pH range is S-12. | ASTM AS32 CL III-A |
| M07 | ≥58 | 5~7 | Alloy M07 has lower wear resistance but higher impact resistance than Alloy M05. It is used when pH range is 5-12. | ASTM A532 CL III-A |
| M49 | 35~45 | 5~7 | Alloy M49 has certain ension resistance and better corrosion and abrasion resistance, which is used in mild add application with pH =4, particularly suitable for Flu Gas Desulphurization (FGD) applications. | |
| м33 | 30~40 | 5~7 | Alloy M33 excels in ension resistance and corosion resistance, which can be used in oxidizing medium with pH =1, such as delivery of phosphogypsum and nitric acid, sulfuric acid and phosphoric acid, etc. | |
| M12 | 60~67 | 2″5 | Alloy M12 has better wear resistance than Alloy M05, but it is not best suited for corrosion application. It can be selected when pH ranges of 6-14, where Alloy M05 provides fair wear life. | |
| M61 | 60~67 | 5~6 | Alloy M61 has better toughness compared to Alloy M12. Aloy M61 can be further hardened by adjusting heat treatment, thereby improve its wear resistance. It is suitable for high abrasive slurry with fine particles with pH ranges of 614. | |

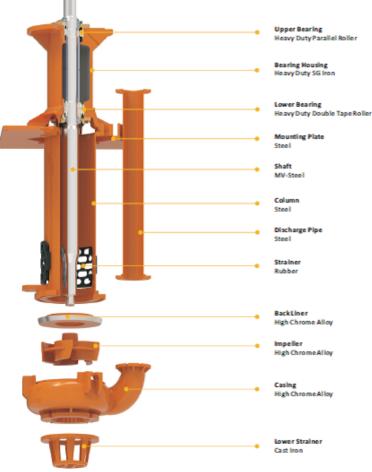




| Material Code | Material Name | Description and Application | | | | | | |
|------------------|-------------------|---|--|--|--|--|--|--|
| MOSR | Natural Rubber | M08R is a back natural rubber, low to medium harness generally used for impellers, and is required in fine particle slurries. | | | | | | |
| M26R | Natural Rubber | M26R is soft natural rubber, normally used for liners, and is required in fine particle slurries applications. | | | | | | |
| M33R | Natural Rubber | M33R is a premium grade material for use where M26R does not provide sufficient wear life. | | | | | | |
| M38R | Natural Rubber | M38R is a black natural rubber, of medium hardness, M38R is used for impellers where superior erosive is required in find particle slurries. | | | | | | |
| M55R | Natural Rubber | M55R is a premium grade material for use in a high wear application. Superior physical properties give increased cut resistance to hard, sharp particle slurries. | | | | | | |
| M02S | EPDM Elastomer | M02S is an acid resistant rubber which is of medium abrasion resistance. | | | | | | |
| M125 | Nitrile Elastomer | M12S is synthetic elastomer which is generally used in low abrasion/erosion application. It provides excellent resistance to oils, fats and waxes. | | | | | | |
| M21S | Butyl Rubber | M21S exhibits excellent chemical stability and good resistance to heat and oxidation. It is generally used in acidic applications. | | | | | | |
| M31S | Hypalon | M31S exhibits an excellent balance of chemical resistance to both hydrocarbons and acids. | | | | | | |
| M42S | Neoprene | M42S provides improved resistance to temperature, we ather and o zone attack. It has excellent oil resistance. | | | | | | |
| M51S | Fluoroelastomer | M51S has exceptional resistance to oils and chemicals at elevated temperature. Limited erosion resistance. | | | | | | |

Pump Structures







Type MV Metal lined pump for a brasive duty