

MPPV

VERTICAL MINING PROCESS PUMP



Ruhrpumpen's **MPPV** is a heavy-duty cantilever sump pump designed for applications requiring greater reliability and durability than conventional vertical process pumps can offer.

Its heavy-duty design makes the MPPV ideal for heavy continuous handling of abrasive and corrosive liquids and slurries whilst submerged in sumps or pits.

Benefits

- **Reliability** by design
- **Low spare costs** from long wear life
- **Low energy costs** from maintained efficiency
- **Aftermarket support** from our Global Service Network

The **MPPV** heavy-duty sump pump is available in various standard lengths to suit common sump depths. A suction extension pipe can be fitted to the bottom inlet to extend the depth of the sump by up to 2 meters. This extension pipe does not change the minimum submergence condition required for startup of the pump.

Pumping is maintained even when the top inlet is not submerged, thus enabling the level of liquid to be lowered right down to the bottom of any suction extension pipe. Always respecting the minimum immersion level. However, variation may occur depending on operating conditions.

To suit special requirements other wet ends (strainers) can be fitted to the standard **MPPV** pump dry end.

Applications

The **MPPV** is available in a wide range of sizes to suit most pumping applications such as:

- minerals processing
- coal preparation
- chemical processing
- effluent handling
- sand and gravel
- slurry handling

Using either hard metal or elastomer covered components the **MPPV** is ideal for:

- abrasive and/or corrosive slurries
- large particle sizes
- high density slurries
- continuous or "snore" operation
- heavy duties demanding cantilever shafts

Less wear, less corrosion

Wetted components are available in a wide range of alloys and elastomers. Ruhrpumpen selects the optimum combination of materials for maximum resistance to wear in virtually any industrial application, including those demanding both abrasion and corrosion resistance, and where larger particles or high density slurries are encountered.

- ASTM A532 III Type A
- White Iron with high Chrome and low Carbon
- Corrosion-resistant steels and rubbers

No submerged bearing failures

The robust cantilever shaft avoids the need for lower submerged bearings which are often the source of premature bearing failure.

- Heavy-duty roller bearings, above mounting plate
- No submerged bearings
- Labyrinth/flinger bearing protection
- Rigid, large diameter shaft

No shaft sealing problems

The vertical cantilever design requires no shaft seal and no priming is required.

The top and bottom inlet design is ideally suited for “snore” conditions.

Less risk of blocking

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

Zero ancillary water costs

The vertical cantilever design with no gland or submerged bearings avoids the need for expensive gland or bearing flushing water.



Performance chart

