



Servicing The
**Wastewater, Slurry &
Dewatering Markets**





D. N. MODY
Founder

The Mody Pumps Heritage

began in 1957 with our beloved patriarch, D.N. Mody. He, by dint of genius, will, and innovative spirit, became the first local manufacturer of 4" and 6" submersible turbine pumps in India. The product range then grew to include a full line of submersible, sludge, and water pumps. Then, as now, and through the decades in between, D.N. Mody's zeal for artisanship defined Mody Pumps. Looking forward, we preserve the same mandate to make and support the most suitable pump for the customer's needs.

In 1996, Mody Pumps began its global journey in earnest from assembly and sales facilities in Bakersfield, California. Since then, manufacturing, testing, assembly, service, and repair activities have grown in our plants and offices in India, the U.S., Europe, Canada, UAE and in an expanding family of affiliates worldwide. Our distribution network has strengthened, both in numbers and in the nature of relationships with our distributors. We have boosted after-sales support by developing and nurturing a rising count of qualified service centers all over the world.



ISO CERTIFIED



EAC CERTIFIED

ATEX Approved / UL Pumps /
Explosion Proof
can be supplied

**"Quality
Submersible Pumps
And Service
Worldwide At A
Fair Price"**



MODY PUMPS HEADQUARTERS

USA



Vision

"MODY Pumps Inc. has been and always will be a family owned corporation. We treat our distributors like we treat our own family and employees, with trust, honesty, loyalty and above all a commitment to provide on time submersible pumps of the highest quality at reasonable prices."



Mission

"To produce quality submersible pumps for moving water and wastewater safely and efficiently, at a reasonable price, backed by superior customer service, with a firm commitment to continually improve in meeting the challenges of the ever changing global market environment"



SAMIR MODY
Global President



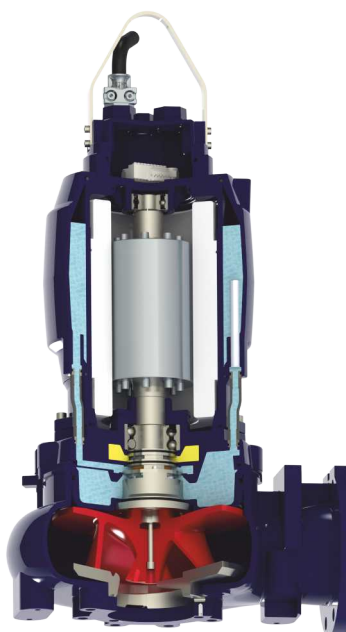
Design Features

All MODY pumps are designed and built tough to the highest industrial specifications up to date and are equipped with a number of operation/maintenance friendly features.

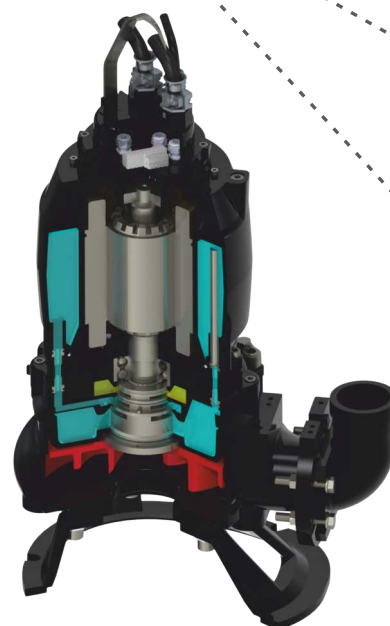
Only the very best features come as a standard in MODY pumps.

MODY PUMP Code system

MSP3-150.0	No of poles
VX3-150+ M3.ID-18,5/4	Motor power P2 Kw (50Hz) Hp (60Hz)
	Motor series
	Impeller code
	Impeller type V=Vortex, C=Channel, S=S BLADE
	Pump volute code
	Volute outlet size
	Pump series for waste water



S BLADE IMPELLER



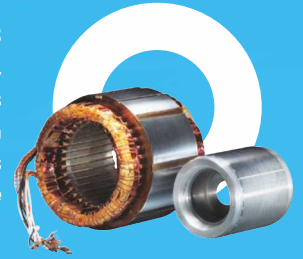
VORTEX IMPELLER

Design Features



■ Motor Unit

The pumps are equipped with Siemens motor parts standard IE-1 or IE-2, with Premium Efficiency IE-3 and Super Premium Efficiency IE-4 as option for most motor sizes, are fitted with F class insulation, (for operating temperatures up to 155 degrees Celsius), or can be optionally fitted with H class insulation. Three thermal overload switches, one per phase, are inside the winding, to combat high temperature loads. The oversized stainless steel rotor shaft and the two oversized ball bearings ensure the motor's smooth and vibration free rotation. Consequently the motor's operational life time is significantly extended.



■ Internal Motor Cooling System With "Ecoflu Cooling Jacket"

All MSP standard motor sizes are equipped with a closed cooling system. An internal impeller that is fitted in between the two mechanical shaft seals circulates the cooling liquid (ECOFLU) in a closed loop inside a cooling jacket.

The heat is then transferred to the pumped liquid by means of a cooling flange (heat exchange).

This efficient cooling system has the following great advantages:

- Maintains the optimal temperature range for the motor bearings.
- The cooling system is separated from pumped liquid to eliminate any clogging and sedimentation risk.
- The double sound absorbing pump motor casing, enables running at an extremely low noise levels.

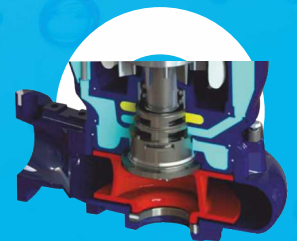
■ Cartridge Sealing System "Fast Seal"

The shaft system consists of a double set of mechanical seals that are built into a replaceable cartridge. The cartridge sealing system can be easily removed on site without the need of any special tools and thus eliminating the risk of any improper installation. The primary seal (impeller side) is made of abrasive resistant carbide against silicon carbide. The secondary seal (motor side) is made of heat resistant carbon against silicon carbide (option for MSP1&2). Both mechanical seals incorporate a stainless steel shaft sleeve (316 as option) protecting the pump shaft. Every cartridge sealing system has been pressure tested at the factory regardless if it is being installed inside a MSP Pump or sold separately as spare parts



■ Clearance Reduction System "Reducer"

The channel impellers are fitted with volute/impeller clearance reduction wear rings. This system easily allows the ring to be repositioned axially in order to reduce the clearance between the channel impeller and the volute. This sealing method advantages over other methods which use radial impeller and volute wear rings that cannot be repositioned and have to be replaced when wear levels are not acceptable.



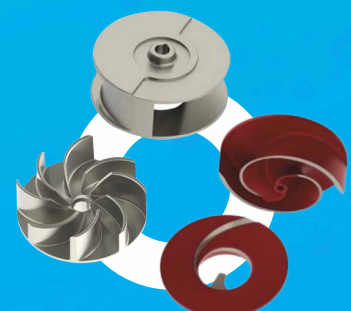
■ Pump Volute

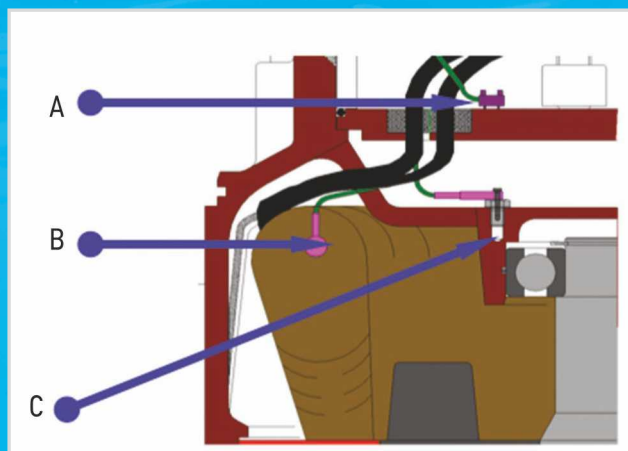
The MSP PUMP volutes are made from high quality cast iron and have been designed to have additional thickness on the walls. Extra attention has been given to the inside smoothed volute surfaces so higher hydraulic efficiency and minimum turbulence can be achieved. The volute is connected with the motor unit through a fast lock* connection system by means of stainless steel latch bolts for easy and fast removal. The motor unit can be quickly removed from the pump's volute for an easy inspection.



■ Impellers

MSP PUMP impellers are made from hardwearing ductile iron, (stainless steel 316 or DUPLEX as an option), and come in 3 different impeller types (close Channel, vortex and semi open "S" Channel) with a non clogging design that meets the pumping liquid needs and duty. The initial impeller design can be easily adjusted, (when trimmed), to meet the customer's performance requirements. The newly designed twin "S" channel impeller has blades that extend on the hub body allowing its self-cleaning characteristics to work together as system with a long deep sharp groove on the wear plate. MODY PUMP impellers are dynamically balanced and machined to exacting tolerances to reduce any unwanted vibrations.



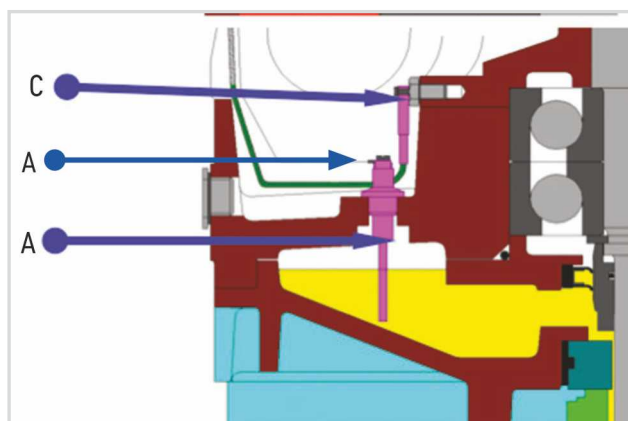


Motor Protections

A. Moisture sensors

All MSP pumps are equipped with two moisture sensors that are linked together in a series connection. Both sensors are connected to an electronic moisture monitoring system in order to effectively detect any increase in moisture inside the following areas:

- 💧 Terminal connection area (upper motor side).
- 💧 Inside the motor housing enclosure.
- 💧 Oil chamber of the sealing cartridge unit



B. Motor winding Thermo-sensor

All MSP pumps are equipped with thermo sensors to protect the stator from overheating and burning in the event of a motor malfunction. The thermal protection in the typical standard motor configuration consists of three bi-metals switches in series connection that are embedded in each respecting motor winding. Optionally we can offer with PTC or PT 100.

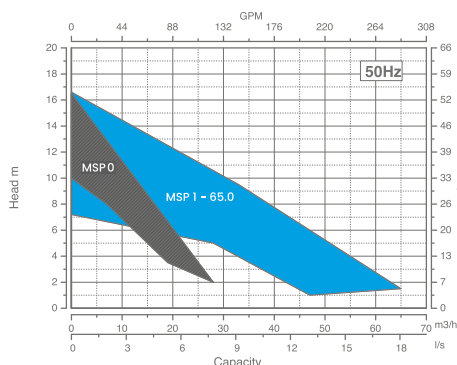
C. Bearing Thermo-sensors

In our largest pumps, (series MSP3 & MSP4 and above), the upper* and lower bearings housings can be equipped with the PT100 thermo sensors which provide the protection necessary against excessive temperatures.

* only MSP3 (M3.IE series), MSP4 (M4 series), MSP5, MSP6

Series MSP0, MSP1-65 With Vortex Impeller

The MSP0 and MSP1-65 pumps are made of cast iron and are equipped with a vortex impeller that is designed for pumping wastewater and other contaminated liquids. The MSP0 series, (single phase voltage configuration), is available with float switches and thermal protection or without them. The three phase voltage configuration can also be equipped with thermal protection upon the customer's request.



MPMR:

ELECTRONIC SUPERVISION
RELAY FOR MONITORING AND
PROTECTION OF
MODY PUMPS

UL FILE #E101681



Design Features

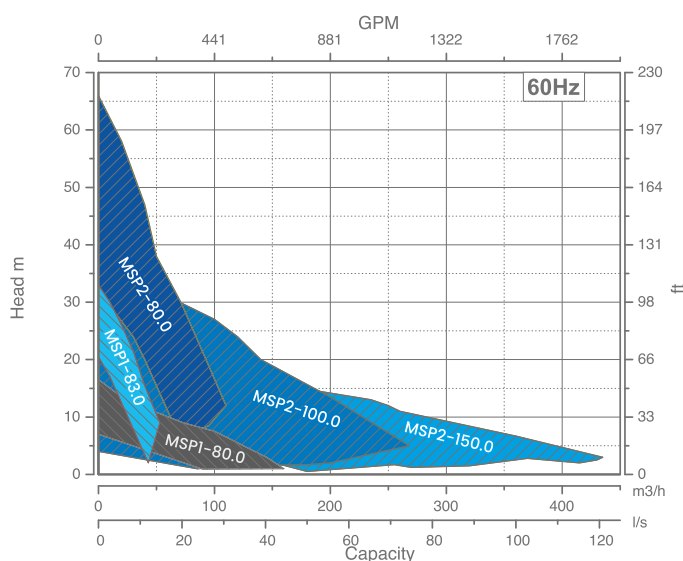
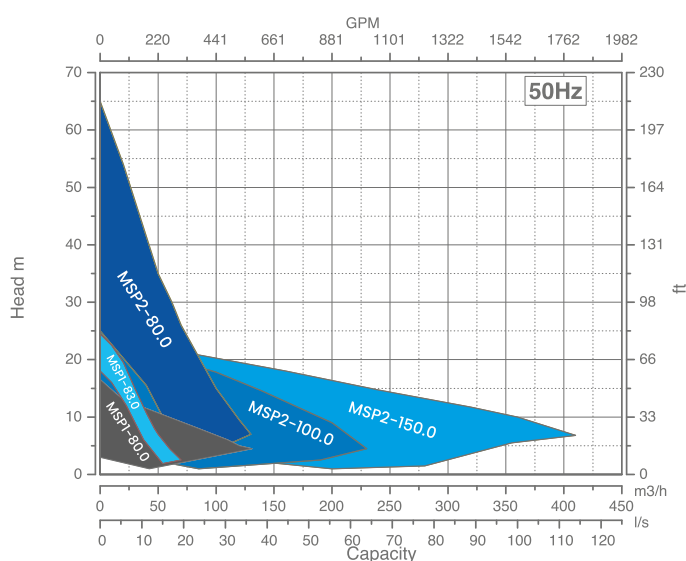


MSP1, MSP2

- 💧 Internal motor cooling system with "ECOFLU" (closed loop through a cooling jacket)
- 💧 Cartridge sealing system "Fast Seal"
- 💧 Easily adjustable channel impeller clearance system "Reducer"**, for all installation types, for improved performance and less clogging occurrences
- 💧 Oil tap drain
- 💧 Free choice* channel, vortex or S type impeller that can be fitted to the same volute
- 💧 Fast lock assembly/disassembly feature with only two latch bolts for quick and easy volute/impeller inspection (major advantage is the significant reduction of man-hours)
- 💧 Electrical motor MODY – SIEMENS motor parts standard IE-1 or higher efficiency IE-2 (Premium efficiency IE3 and Super Premium efficiency IE-4 as option for most motor sizes), have Class F insulation (rated for 155 degrees Celsius) as standard (Class H as option)
- 💧 Motor inspection hole
- 💧 Cable entry in stainless steel 316 as standard (in Duplex as option)
- 💧 Handle in Stainless steel



*MSP1-83.0, MSP2-80.0 is only available in the Vortex impeller design and has no wear rings.



MODEL	MSP1-80.0	MSP1-83.0	MSP2-80.0	MSP2-100.0	MSP2-150.0
RATING 50HZ	1,5-4KW	4-5KW	4-15KW	3-15KW	3-15KW
RATING 60HZ	2,5-6HP	6-7,5HP	7,5-25HP	4,6-25HP	4,6-25HP
MOTOR	2/4/6 POLE	2 POLE	2/4 POLE	4/6 POLE	4/6 POLE
PUMP OUTLET FLANGE	80-100/3"-4"	65-80/2 1/2"-3"	80/3"	100/4"	150/6"
PUMP INLET FLANGE	80-100/3"-4"	100/4"	80/3"	100/4"	150/6"
IMPELLER TYPES	CHANNEL/VORTEX/S	VORTEX	VORTEX	CHANNEL/VORTEX/S	CHANNEL/VORTEX/S
INSTALLATION TYPES AVAILABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE

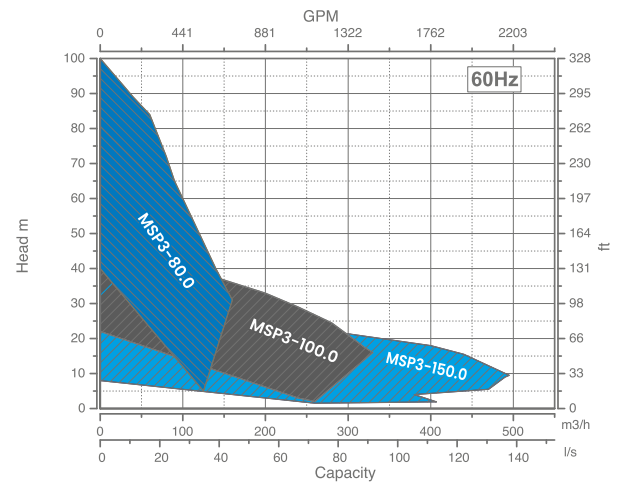
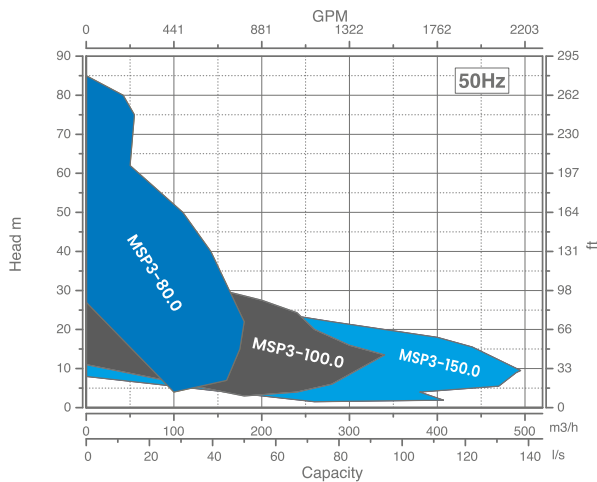
MSP3

- Internal motor cooling system with "ECOFLU " (closed loop through a cooling jacket)
- Cartridge sealing system " Fast Seal "
- Easily adjustable channel impeller clearance system "Reducer"*, for all installation types, for improved performance and less clogging occurrences
- Oil tap drain
- Free choice* channel, vortex or S type impeller that can be fitted to the same volute
- Fast lock assembly/disassembly feature with only four latch bolts for quick and easy volute/impeller inspection, (major advantage is the significant reduction of man-hours)
- Electrical motor MODY- SIEMENS motor parts standard IE-1 or higher efficiency IE-2 (Premium efficiency IE-3 and Super Premium efficiency IE-4 as option for most motor sizes) have Class F insulation (rated for 155 degrees Celsius) as standard (Class H as option)
- Motor inspection hole
- Cable entry in stainless steel 316 as standard (in Duplex as option)
- Handle in Stainless steel



Motor
M3.1C / M3.1D

*** MSP3-80.0 is only available in the Vortex impeller design and has no wear rings.**



MODEL	MSP3-80.0	MSP3-100.0	MSP3-150.0
RATING 50HZ	8-40KW	7,5-40KW	7,5-40KW
RATING 60HZ	19-55HP	19-55HP	19-55HP
MOTOR	2POLE	2/4/6POLE	4/6POLE
PUMP OUTLET FLANGE	80-100/3"-4"	100/4"	150/6"
PUMP INLET FLANGE	80-100/3"-4"	100/4"	150/6"
IMPELLER TYPES	VORTEX	CHANNEL / VORTEX / S	CHANNEL / VORTEX / S
INSTALLATION TYPES AVAILABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE



Design Features



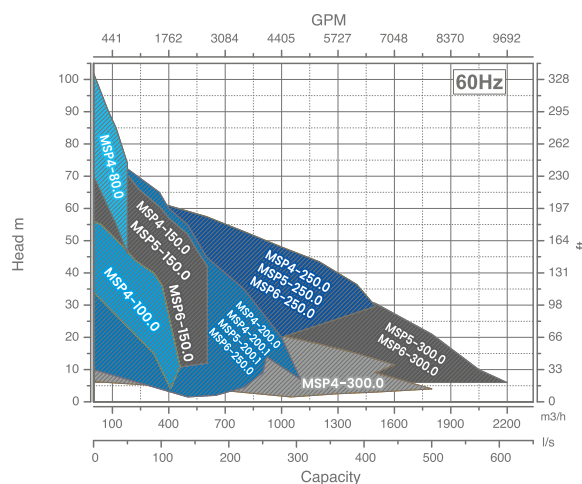
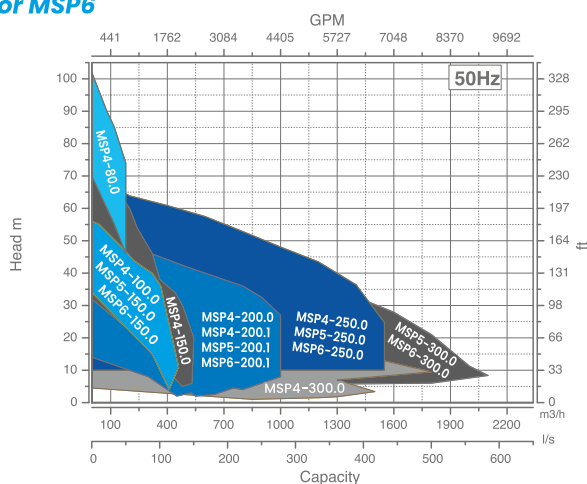
MSP4, MSP5, MSP6

- Internal motor cooling system with "ECOFLU" (closed loop through a cooling jacket)
- Cartridge sealing system "Fast Seal"
- Easily adjustable channel impeller clearance system "Reducer", for all installation types, for improved performance and less clogging occurrences
- Oil tap drain
- Free choice* channel, vortex or S type impeller that can be fitted to the same volute
- Fast lock assembly/disassembly feature with only six latch bolts for quick and easy volute/impeller inspection (major advantage is the significant reduction of man-hours)**
- Electrical motor MODY - SIEMENS motor parts standard IE-1 or higher efficiency IE-2 (Premium efficiency IE-3 and Super Premium efficiency IE-4 as option for most motor sizes) have Class H insulation (rated for 180 degrees Celsius) as standard
- Motor inspection hole
- Cable entry in stainless steel 316 as standard (in Duplex as option)
- Handle in Stainless steel



*** MSP4-80.0 is only available in the Vortex impeller design and has no wear rings.**

**** Not for MSP6**



MODEL	MSP4-80.0	MSP4-100.0	MSP4-150.0 MSP5-150.0 MSP6-150.0	MSP4-200.0 MSP4-200.1 MSP5-200.1 MSP6-200.1	MSP4-250.0 MSP5-250.0 MSP6-250.0	MSP4-300.0 MSP5-300.0 MSP6-300.0
RATING 50HZ	30-150KW	30-170KW	30-170KW	30-170KW	30-170KW	30-170KW
RATING 60HZ	46-200HP	46-220HP	15-220HP	15-220HP	15-220HP	15-220HP
MOTOR	2 POLE	2/4 POLE	2/4 POLE	4/6/8 POLE	4/6/8 POLE	4/6/8 POLE
PUMP OUTLET FLANGE	80-100/3"-4"	100/4"	150/6"	200/8"	250/10"	300/12"
PUMP INLET FLANGE	80-100/3"-4"	100/4"	150/6"	200/8"	250/10"	300/12"
IMPELLER TYPES	VORTEX	CHANNEL/VORTEX/S	CHANNEL/VORTEX/S	CHANNEL/VORTEX/S	CHANNEL/VORTEX/S	CHANNEL/VORTEX/S
INSTALLATION TYPES AVAILABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE

Grinder Pumps

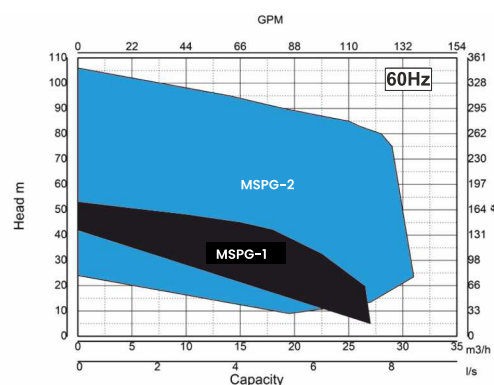
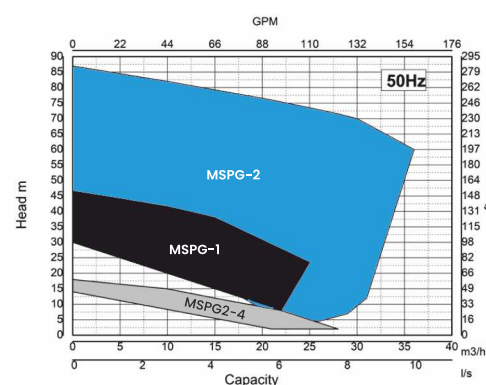
MSPG series Grinder Pumps are equipped with a grinding system that effectively reduces the size of all destructible solid pieces and fibrous materials, such as paper, textile, plastics, etc into small particles so they can be led away through pipes of relatively small diameter.

Design Features

- Stainless steel cutting system made in stainless steel with hardness 55 HRC minimum
- Internal motor cooling system with "ECOFLU" (closed loop through a cooling jacket)
- Cartridge sealing system "Fast Seal"
- Easily adjustable channel impeller clearance system "Reducer" for improved performance and less clogging occurrences
- Oil tap drain
- Ductile iron multi channel impeller
- Fast lock assembly/disassembly feature with only two latch bolts for quick and easy volute/impeller inspection (major advantage is the significant reduction of man-hours)
- MODY - SIEMENS motor parts standard IE-1 or higher efficiency IE-2 (Premium efficiency IE-3 and Super Premium efficiency IE-4 as option for most motor sizes)
- Motor inspection hole
- Cable entry in stainless steel 316 as standard (in Duplex as option)
- Handle in Stainless steel



MODEL	MSPG-1	MSPG-2
RATING 50HZ	3-5KW	4-15KW
RATING 60HZ	6-7,5HP	10-25HP
MOTOR	2 POLE	2/4 POLE
PUMP OUTLET FLANGE	50/2"	50/2GG
PUMP INLET FLANGE	GRINDER	GRINDER
IMPELLER TYPES	OPEN CHANNEL	OPEN CHANNEL
INSTALLATION TYPES AVAILABLE	WET/DRY/PORTABLE	WET/DRY/PORTABLE



Chopper Pumps

MCP Chopper series are equipped with a chopping system (made in stainless steel with hardness 55 HRC) at the inlet to the pump that effectively reduces the size of all destructible solids before passing through the pump

Design Features

- 💧 Stainless steel cutting system made in stainless steel with hardness 55 HRC minimum
- 💧 Internal motor cooling system with "ECOFLU" (closed loop through a cooling jacket)
- 💧 Cartridge sealing system "Fast Seal"
- 💧 Easily adjustable channel impeller clearance system "Reducer" for improved performance and less clogging occurrences
- 💧 Oil tap drain
- 💧 Ductile iron multi channel or vortex impeller
- 💧 Fast lock assembly/disassembly feature with only two latch bolts for quick and easy volute/impeller inspection (major advantage is the significant reduction of man-hours)
- 💧 MODY - SIEMENS motor parts standard IE-1 or higher efficiency IE-2 (Premium efficiency IE-3 and Super Premium efficiency IE-4 as option for most motor sizes)
- 💧 Motor inspection hole
- 💧 Cable entry in stainless steel 316 as standard (in Duplex as option)
- 💧 Handle in Stainless steel



EXAMPLE WITH
CHANNEL IMPELLER



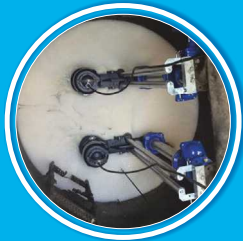
EXAMPLE WITH
VORTEX IMPELLER



A

Wet type installation

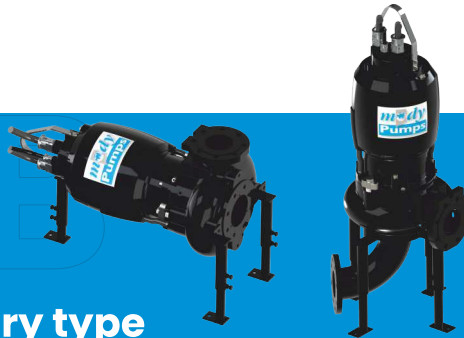
The self guiding coupling system allows for the quick and efficient pump unit inspection. The elbow shaped stationary Discharge Connection Bracket (DCB) is securely fastened at the bottom of the pump. The pump's discharge outlet is perfectly aligned with the DCB's opening and the connection is maintained sealed by the pump's own weight



B

Dry type installation

In this case a MODY pump, equipped with the ECOFLU (internal motor cooling system), is installed in a separate pump chamber. All piping is bolted directly to the pump volute (suction and discharge end). The fast lock connection system permits the fast motor unit and impeller removal from the pump's volute for an easy and friendly inspection. These pumps can replace old existing pumps with dry motors and can still remain operational even if there still water inside the pump chamber



C

Transportable installation

This type of submersible pump is equipped with a suction stand that comes with or without a strainer. This portable pump unit can be an excellent solution for dewatering construction sites especially when equipped with the ECOFLU cooling system



SERVICE ADVANTAGES

Discharge flange connection and adapter designed for quick and easy replacement of other brand pumps. When an existing pump needs to be replaced, MODY pumps may utilize the existing pump flange adapter or a MODY adapter, (see depictions below). In both cases perfect alignment with the base elbow is ensured via the existing guide rail system

MODY ADAPTERS



Corrosion Resistant Stainless Steel Pumps

MSP pumps corrosion resistant pumps are constructed of stainless steel 316 or Duplex for corrosive liquids or salt water Applications, where cast iron is not recommended. Stainless steel pumps are corrosion resistant.

MSP pumps "modular" material selection system makes it easy and economical for the customer to adapt the pump to specific requirements.

The standard material construction of MSP pump can be upgraded for overall corrosion resistance until it achieves the right combination best suited and most economical for the intended application.

MODY PUMPS Modular Material Selection System

Example Configurations

- 1 Stainless steel impeller in 316 or Duplex Volute and motor housing in cast iron Outer shaft Retaining Ring special in 316
 - 2 Same as 1 with ceramic coating inside volute and lower motor parts (which are contact with pumping media)
 - 3 Stainless steel impeller in 316 or Duplex Volute and lower motor parts (which are contact with pumping media) in 316 . Duplex on request Outer shaft Retaining Ring special in 316 Rotor shaft, cartridge sleeve (shaft protection sleeve) in Duplex.
 - 4 Outer motor casing (parts which contact with the liquid media) or combination some motor parts cooling jacket (MSP4 series) in 316. Duplex on request Volute, impeller in 316 .Duplex on request Outer shaft Retaining Ring special in 316 Rotor shaft , cartridge sleeve (shaft protection sleeve) in Duplex.
- 💧 Hi Chrome impeller & volute option available for S Blade type pumps

mody
Pumps



Example No.



Example No.



Example No.



Example No.



STANDARD COATING

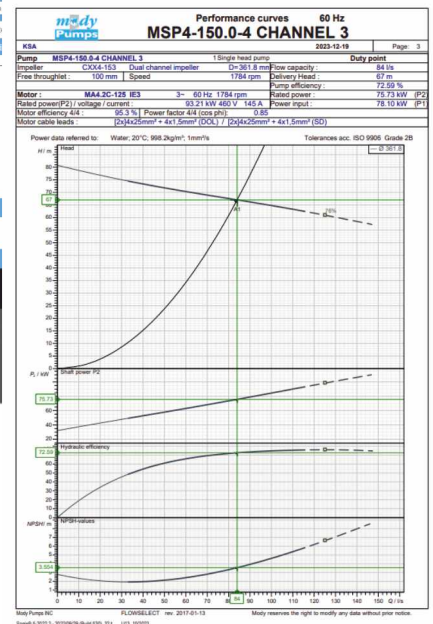
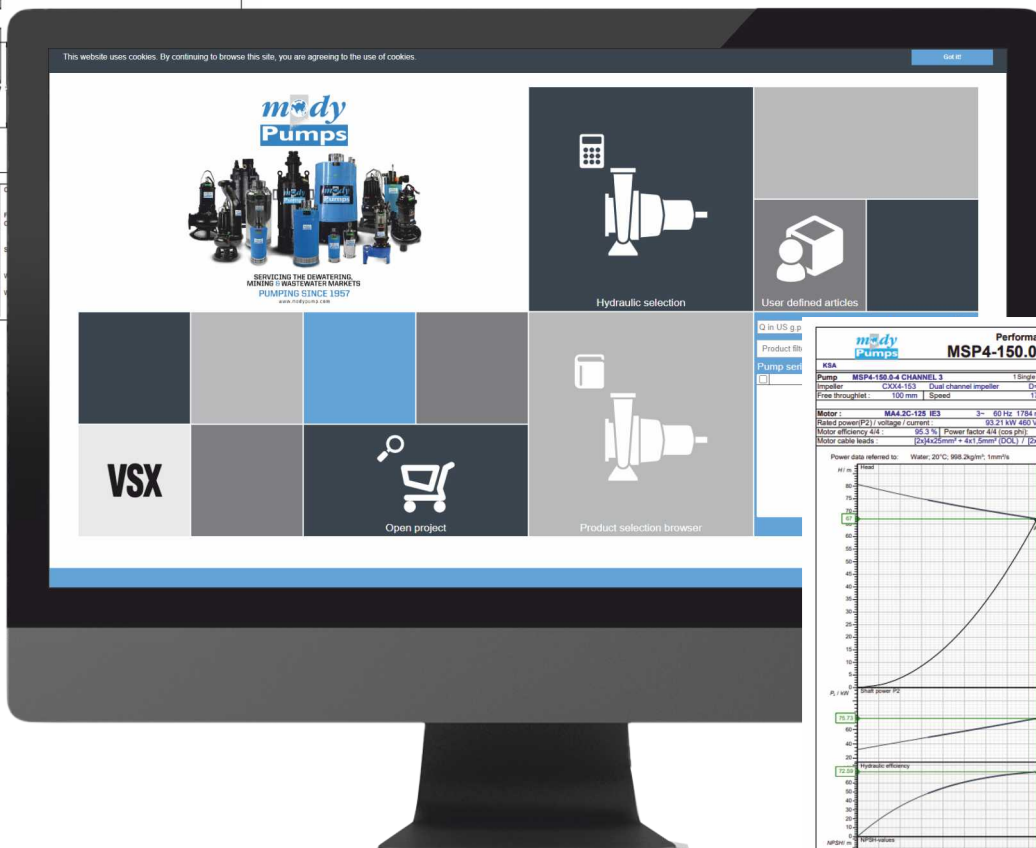
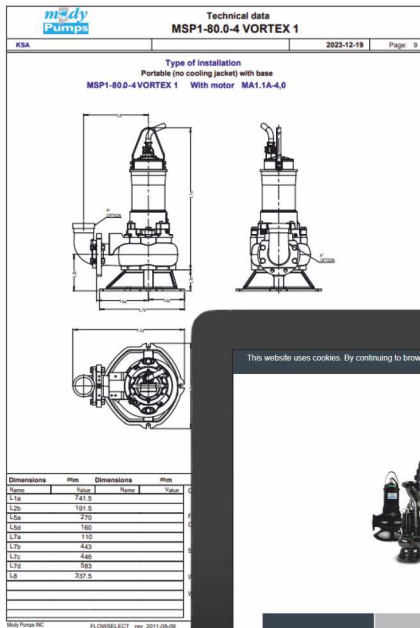
Two-component, resin modified epoxy paint. Special coating for life time optimization provide protection for most applications involving corrosion, erosion, chemical attack, and abrasion. High Hardness and Wear Resistant Coatings



SURFACE PROTECTION COATINGS

Seamlessly sprayable elastomeric coatings for protection (impeller and inside pump volute)

Resistant against erosion and cavitation protection (impeller and inside pump volute)

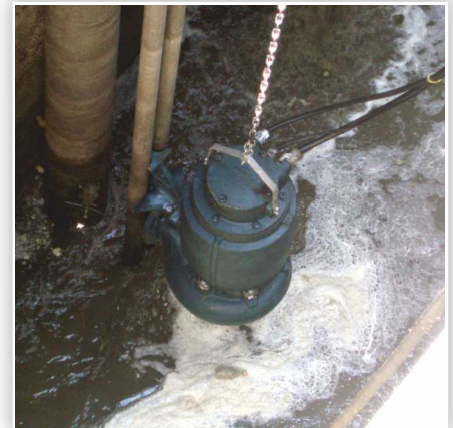


All Submersible Pumps In One Selection Program

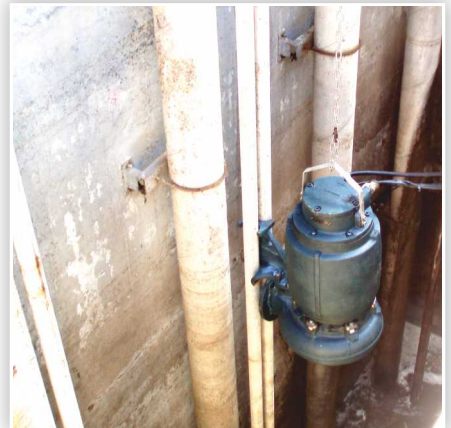
SPAIX 5 - FLOW-select is a special program and an indispensable tool for all pump consulting engineers and users. Both pump family names, (MODY submersible dewatering, waste water pumps, non-clog pumps, slurry pumps, cutter & grinder pumps), are included in the program. If the basic planning data such as capacity and total head are available, the SPAIX 5 - Flow-select can suggest different pump types from both pump family names. If the data is not available SPAIX 5 Flow-select provides a simple friction loss calculator that can still aid the user to choose the correct pump unit.

Other SPAIX® 5 FLOW SELECT advantages:

- 💧 User friendly interface translated in 21 languages
- 💧 Easy unit conversion.
- 💧 50-60Hz (where applicable)
- 💧 Impeller trimming
- 💧 Variable curve speed (for applications with inverter)
- 💧 Combination curve characteristics with friction loss curve.



GALLERY





NOTES





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 Worldwide At A Fair Price”**

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