



*Engineered
Quality*



SUBMERSIBLE PUMPS TP

wastewater / floodwater, acc. to German standard DIN 14 425
fire & rescue, civil protection and municipalities
up to 2.400 l/min, up to 2.1 bar

Robust Quality.

MAST submersible pumps TP acc. to German standard DIN 14 425 are designed for demanding floodwater applications. With unique technical features like the encapsulated motor winding and the full motor protection MAST MD-Electronics. Reliable technology - for a long service life!

✓ DIN-compliant

MAST TP submersible pumps are tested and certified in accordance with DIN 14 425. They correspond completely in design and materials without exception the guidelines of the norm.

✓ Robust

Impeller and diffuser are made of shockproof cast iron acc. to DIN 1561 to resist abrasive solids.

✓ Maintenance-free

No oil filling, no lubrication points, no use of sealants, no readjustment work required.

✓ Durable

All at application highly loaded components are heavy-duty casted parts, made of seawater resistant aluminum alloy acc. to DIN EN 1706. Mineral-oil resistant NBR O-rings, certified cable H07-RN-F. Even mineral-oil / water mixtures can be pumped without damages. All screws are made of stainless steel.

✓ Efficient

At the construction site power supply is limited, therefore MAST submersible pumps are optimized for maximum performance with low power consumption.

✓ Reliable

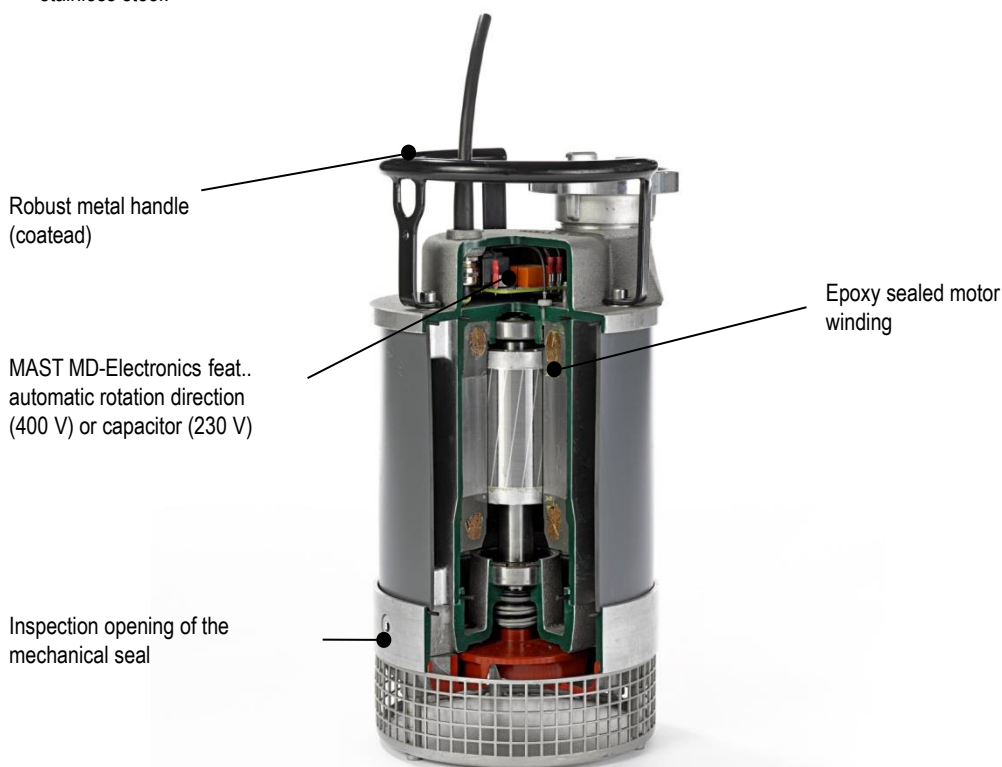
MAST submersible pumps T are fully protected by the cast resin encapsulated motor winding, overload protection, and the MAST MD electronics with automatic rotating direction at 400 V.

✓ Safe to run dry

For mobile applications customized safe to run dry mechanical seals.

✓ Solid

Built-in strain relief with very good adhesion between the cable and seal kit No use of sealants such as Silicone.





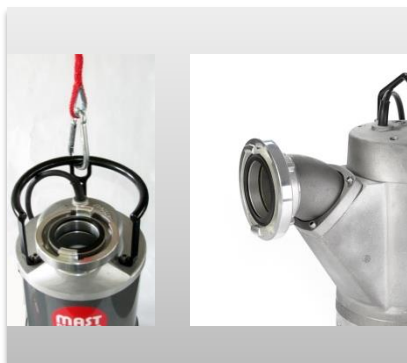
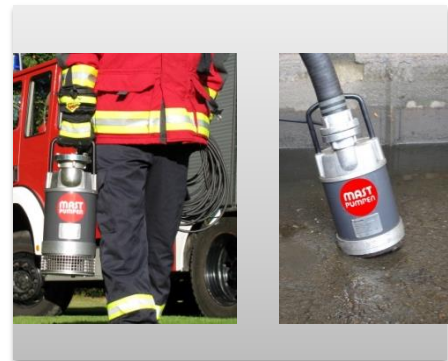
High performing variety.

MAST submersible pumps TP acc. to DIN 14 425 are powerful, robust, but lightweight wastewater pumps for construction sites, municipalities and other professional applications.

Lightweight

MAST submersible pumps TP acc. to DIN are designed for easy handling. The TP 4-1 with ca. 20 kg total weight including cable is one of the most lightweight pumps of its class. All at application highly loaded components and the carry handle are heavy-duty metal parts. The TP 4-1 can easily be hold by one person. The TP 8-1 N has an integrated loop to lift the pump with a carabiner. Not in use, the power supply wire can be fixed with a rope at the loop. The TP 15-1 comes with a turnable discharge to allow easy handling of the hoses at low water levels.

All types are available with Storz-coupling intake for connection in more stages to get over long distances. Nevertheless, they can still be used as a single stage pump.



Low level pumping

MAST submersible pumps TP can be used for slurping applications. Low water level pumping is possible down to a few millimeter (TP 4-1 with disassembled strainer, or - for all types available wristband).

Ready to use

The modular design using fewer screws as well as the oil and grease-free design support the simple and quick replacement of wearing parts.

The accessories.

For MAST submersible pumps TP acc. to DIN a great variety of accessories are available, e.g. firehoses acc. to DIN, float switches or PRCD-safety switches. All pumps are available as pump set including all for a successfull application needed accessories.



Unique motor protection.

The MD-Electronics (motor and direction of rotation monitoring electronics) is an invention of MAST. It offers a unique motor protection for pumps in version 400 V. The first generation was in 1978 applied for a patent, implemented and constantly evolving. It has been proven in thousands of demanding applications.

The latest generation is controlled by a micro-processor that ensures highest reliability. The MD-Electronics protects the electric motor 100 % from environmental risks. Learn more about the features of the MD Electronics below.

Automatic rotating direction

The automatic rotating direction feature always switches the motor in the right direction, regardless of the phase sequence of the power supply. A motor damage due to incorrect direction of rotation is excluded. There is no reversing switch required. Easy handling and secure application.

Overload protection

An built-in temperature sensor (PTC-thermistor) protects the motor from overheating damage in case of overload. In danger of overheating the pump turns off automatically. After cooling, the pump can be switched on again.

Low voltage protection

In case of low voltage the MD-Electronics prevents the pump from starting. If the voltage drops below a defined value, the pump turns off. The pumps runs only when sufficient voltage is present.

Mechanical seal monitoring

A regular review of the mechanical seal is not required. A sensor in the motor compartment detects a critical water intrusion and automatically turns off the pump at risk of breakdown. The motor is protected from harm. Only the worn out mechanical seal has to be replaced.

Phase failure protection

If one of the 3 phases breaks down, the pump will shut off automatically. A damaging 2- phase operation is not possible.

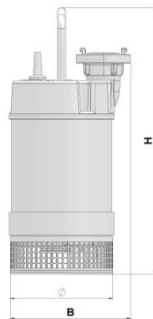
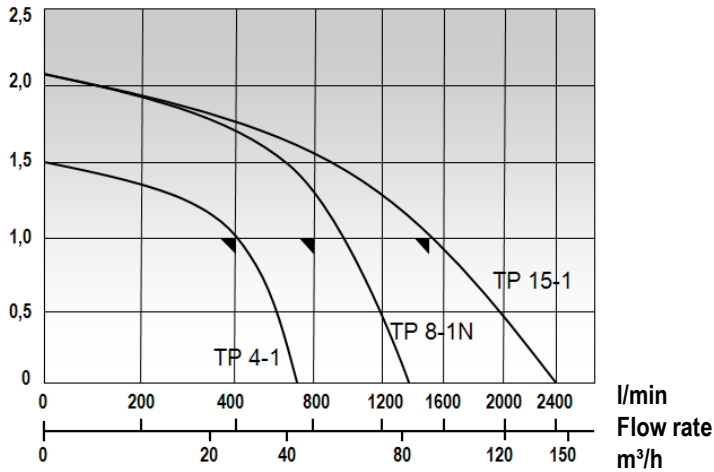


The specifications.

Type		TP 4 - 1	TP 8 - 1 N	TP 15 - 1
Registered approval n°		PVR 305/10/84	FT 6/1295/10	PVR 307/12/84
Protection class		DIN EN 60529 - IP68		
Voltage	V	230	400	
Power consumption	P ₁ kW	1,8	3,3	5,3
Rated Power	P ₂ kW	1,3	2,7	4,5
Rated current	A	8,0	5,8	9,3
Grain passage	Ø mm	8	10	15
Discharge conn. / coupling		G 2½" / STORZ B		G 4" / STORZ A
Wire H07RN-F	20 m	3 G 1,5	4 G 1,5	4 G 2,5
Plug		DIN 49 443 IP68	CEE 16A IP45	
Fluid temperature	°C	max. 60°C		
Weight	kg	18	27	37
Total weight w. wire / plug	kg	20	32	45
Dimensions	cm	Ø 19 x B 23 x H 50	Ø 23 x B 27 x H 48	Ø 26 x B 44 x H 57

Typ	U	flow rate Q l/min. at flow pressure p bar					
		0	0,5	1,0	1,2	1,5	2,1
TP 4 - 1	230 V	780	610	400	220	0	
TP 8 - 1 N	400 V	1350	1200	950	840	560	0
TP 15 - 1	400 V	2400	1980	1520	1310	850	0

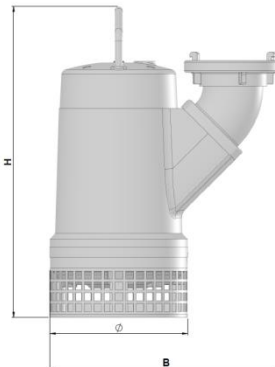
Flow pressure bar



TP 4 - 1



TP 8 - 1 N



TP 15 - 1

The company.

The MAST PUMPEN company was established in 1948 and is still intergenerational owner-operated.

Decades of experience combined with cutting-edge technologies form a synthesis that produces exceptional products.

Computer Based developed and produced on the latest CNC machines, MAST pumps fulfill all the demands placed on a quality product. MAST pumps are designed and manufactured in Germany.



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