

# Large magnetic coupled pumps for sea water



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## Series MX

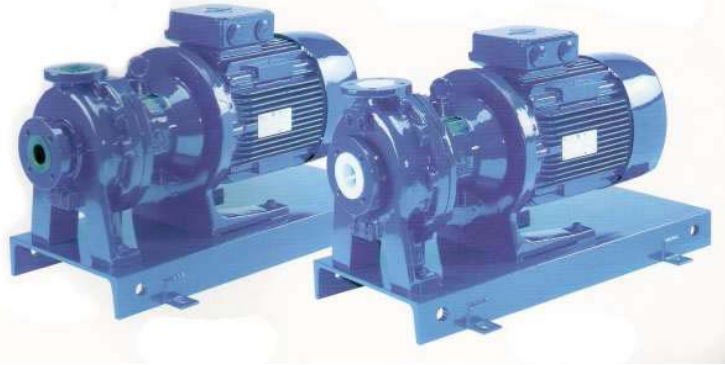


- Magnetic coupled
- Silent operation
- For corrosive media and sea water
- Different bearings possible
- Low wearout
- High efficiency
- Simple maintenance
- Energy saving motor as an option

The MX series is the latest development in magnetic coupled plastic pumps. The field of application are heavy duty conditions. Equipped with carbon bearings it is possible to stand run dry condition. The new self-cooling structure in combination with the proven contact-free principle and the twofold bearings improve the attributes against cavitation and nearly closed pressure side. The spiral wound two-part housing is saving energy. On request the pumps is equipped with energy saving motors, that enhance the efficiency, too.

Type	MX400	MX401	MX402	MX403
Max. flow in m <sup>3</sup> /h	16.8	19.2	27	30
Max. pressure in m	12.5	17.5	27	31
Electrical connection in kW	0.37	0.75	1.5	2.2
Voltage, frequency	3P 400 V 50 Hz			
Connection IN × OUT	G1.5" × 1.5"	G1.5" × 1.5"	G2" × 1.5"	G2" × 1.5"
Max. specific weight of medium	1.2 kg/l			
Weight in kg	6,2	10,2	13,5	14,5
Dimensions L × W × H in mm	424 × 140 × 219	473 × 160 × 249	479 × 260 × 274	479 × 260 × 274
Material housing, impeller	Fibre reinforced polypropylene (GFRPP) (ethylene-tetrafluor-ethylene EFFE possible)			
Material magnetic capsule	Polypropylene PP			
Material O-Ring	FKM (EPDM, Aflas possible)			
Material shaft, forward ring	Aluminium ceramic			
Material bearing	Carbon (PTFE, Aluminium ceramic, SiC possible)			
Material rear ring	Carbon reinforced Polyphenylene sulphide CFRPPS (carbon reinforced polyetheretherketone CFRPEEK possible)			
Ambient temperature	0...40°C / 32...104°F			
Medium temperature	0...80°C (10...80°C with Aflas-sealing) 32...175°F (50...175°F with Aflas-sealing)			

## series MDM



The MDM series is equipped with high grade plastics like PFA and ETFE. The versions with carbon bearings are able to stand short run dry periods. The very strong magnet inside the magnetic capsule hinders contact with the surfaces in the rear and front parts of the pump. High temperature that melts the plastics are prevented.

Max. flow in m <sup>3</sup> /h	12...72 m <sup>3</sup> /h
Max. pressure in m	9...74 m
Material housing, impeller, magnetic capsule	Carbon reinforced ethylene-tetrafluor-ethylene CFRETFE or fluoro plastics FPA
Material bearing	High density carbon or silica carbide SiC
Material shaft, run up ring, rear ring	Ultra pure aluminium ceramic or silica carbide SiC
Material rear run up ring	Polytetrafluor-ethylene PTFE or silica carbide SiC
Sealing	Polytetrafluor-ethylene PTFE
Temperature range	-20...105°C / -4...220°F (ETFE) -20...120°C / -4...250°F (PFA)
Max. pressure range	10 bar (normal type) 16 bar (high pressure type)

## series MDE



Max. flow in m <sup>3</sup> /h	30...240 m <sup>3</sup> /h
Max. pressure in m	25...57 m
Material housing, impeller, opening disc, magnetic capsule	ETFE/PFA (PVCF possible)
Material bearing	SiC (PTFE possible)
Sealing	PTFE
O-Ring	Kalrez (FKM, EPDM possible)
Temperature range	0...100°C / 10...212°F (ETFE) 0...120°C / 10...250°F (PFA)
Max. pressure range	10...16 bar (depending on type and version)
Options	Leaking sensor, bearing wearout sensor, bearing temperature sensor, flushing circle for washing out particles, pump inlet rim for improve the NPSH