

PRODUCT DATASHEET

Micropump

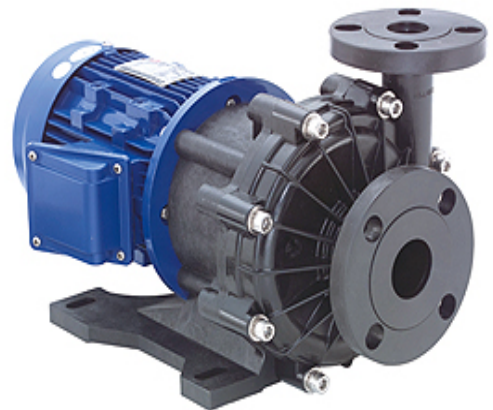
OVERVIEW

Line shaft horizontal centrifuge pump; Micropump is used for:

- Sea water, saline water
- %100 Acids, Bases
- Chemical liquid transfers
- Chemical liquid circulations

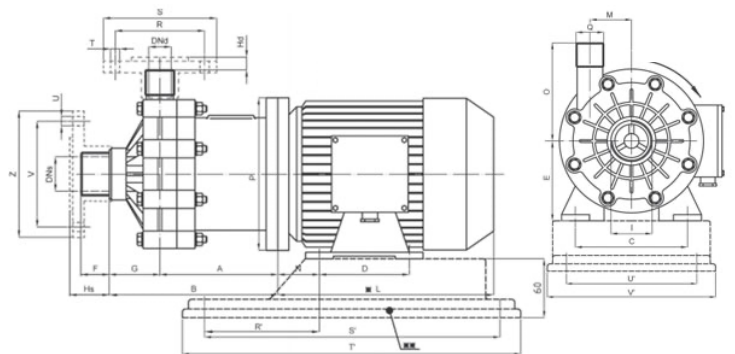
All types of corrosive liquids

| <i>Parameter</i> | <i>Unit</i> | <i>Range</i> |
|----------------------------|----------------------------|--------------|
| Flowrate | m ³ /h | 9 - 100 |
| mWc | m | 15 - 100 |
| Connection Diameter | DN | 32 - 100 |
| Suction Diameter | DN | 20-150 |
| Pumping Diameter | DN | 20-125 |
| Speed of Engine | rpm | 1450-2950 |
| Power | kW | 0.37 - 5 |
| Impeller Type | Open & Closed | |
| Physical Formation | Monobloc | |
| Casing | Spiral | |
| Casing Material | PP | |
| Pump Shaft | Connected to Bearing Shaft | |
| Working Temperature | -10°C / +120°C | |



* Micropump is manufactured specially, regarding to the customer requirements

ADDITIONAL FLOWRATES AND CUSTOMISED SOLUTIONS ARE AVAILABLE. JUST ASK US.



PRODUCT DATASHEET

Micropump – Dosing Pump

Applications:

- Potable water treatment: Metering of disinfectants
- Cooling circuits: Metering of corrosion inhibitors and biocides
- Waste water treatment: Metering of flocculants
- Paper industry: Metering of additives
- Plastics production: Metering of additives



Micro-Dosing Pump

| Model | 50/60 Hz | | | | Diaphragm Dia. (mm) | Power | Connection Size |
|---------|-----------|---------------|-----------|---------------|---------------------|-------|-----------------|
| | Flow(L/h) | Pressure(Bar) | Flow(GPH) | Pressure(psi) | | | |
| MDP0110 | 1 | 10 | 0.3 | 145 | 120 | 34 | 5*8mm |
| MDP0408 | 3.8 | 7.6 | 1 | 110 | 180 | 41 | |
| MDP0505 | 5 | 5 | 1.3 | 73 | | | |
| MDP0804 | 7.6 | 3.5 | 2 | 51 | | | |
| MDP1002 | 10 | 2 | 2.6 | 29 | | | |
| MDP1202 | 12 | 1.5 | 3.2 | 22 | | | |
| MDP1501 | 15 | 1 | 4 | 15 | | 52 | |

Materials:

- Pump Head: PVC, PVDF, SS304, SS316
- Diaphragm: Composite PTFE diaphragm
- Check Valve Body: PVC, PVDF, SS304, SS316 (same as pump head selection)
- Valve Ball: Ceramic, SS304
- Valve Seat: PTFE, SS316
- Suction and Discharge Tubing: PE

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Micro-Dosing Pump/Pump Head Materials

PRODUCT DATASHEET

Microflow

Technical data

| | |
|----------------------------|---|
| Nominal size | DN10 to DN800 |
| Nominal pressure | PN10 to PN40 (depending on diameter) |
| Flow range | 0.1 to 10 m/s (0.02 to 5000 l/s) |
| Accuracy | 0.5 % (0.5 to 10 m/s) of reading value 1 % (0.1 to 0.5 m/s) of reading value |
| Maximal medium temperature | 70°C (158°F) for rubber liner 130°C (266°F) for PTFE liner in remote version |
| Ambient temperature | -20 to 60 °C (-4 to 140°F) |
| Power supply | <ul style="list-style-type: none"> 115/230V (+10%, -15%), 50/60Hz, auto selectable 12V, 24V, 48V DC/50/60Hz as option |
| Power consumption | 10 VA |
| Liner | <ul style="list-style-type: none"> hard rubber PTFE |
| Electrodes | <ul style="list-style-type: none"> CrNi (stainless) steel 1.4571 Hastelloy C276 Tantalum |
| Measuring tube | Stainless steel 1.4201, dimensions according to DIN 17457 |
| Flange | Steel 1.0402 or higher Dimensions according to EN1092, DIN2501 (BS 4504), ANSI B16.5, Sanitary (DIN11851 or Tri Clamp), flangeless wafer style |
| Protection category | Compact version: IP67 Remote version: sensor IP68, converter IP65 (optionally IP67) |
| Outputs | <ul style="list-style-type: none"> Frequency 0 to 12 kHz with programmable flowrate and function Pulse 0 to 50 Hz with programmable volume, function and pulse width Relay contacts 100V/0.5A with programmable function Current loop 4 to 20 mA with programmable flowrate and function |
| Input | Digital input with programmable function |
| Communication | RS485, RS232 |
| Displayed values | <ul style="list-style-type: none"> Flowrate (m³/h, l/s, US.Gal/min, user) Volume (m³, l, US.Gal, user) Positive, total, negative and auxiliary (clearable, daily) volume |
| Control | <ul style="list-style-type: none"> Keyboard Magnetic pointer RS232 and RS485 |
| Low-flow cutoff | Programmable value |
| Time constant | Settable in range 1 to 20 s |
| Other features | <ul style="list-style-type: none"> Test of excitation coils, status of pipe line and electronic unit Diagnostic of internal temperature and power supply voltages Real time circuit for datalogging Datalogger memory up to 15000 values (programmable sample rate) Registration of min. and max. flowrate including date and time |
| Conformity requirements | <ul style="list-style-type: none"> LVD (safety) according to EN 61010-1, EN61010-1/A2 PED according to directive 97/23/EC EMC according to EN 61000 part 3-2, 3-3, EN 61000 4-3, 4-4, 4-5, 4-6, 4-8, 4-11, EN 61000 part 6-2, EN 50081-1 |



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