



Customer : ETATRON UKRAINA
 LLC
 Reference :

Pump Performance Datasheet
 MPumps Selection System 25.1.2

Item number	: 001	Size	: T MAG-P 160
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: 10014
Quote number	: 34491	Date last saved	: 20 Jun 2025 2:17 PM

Operating Conditions

Flow, rated	: 3.00 m3/h
Differential head / pressure, rated (requested)	: 30.00 m
Differential head / pressure, rated (actual)	: 30.01 m
Suction pressure, rated / max	: 0.00 / 0.00 bar.g
NPSH available, rated	: Ample
Site Supply Frequency	: 50 Hz

Liquid

Liquid type	: Nitric Acid [60.00 %]
Additional liquid description	:
Solids diameter, max	: 0.00 mm
Solids concentration, by volume	: 0.00 %
Temperature, max	: 40.00 deg C
Fluid density, rated / max	: 1.361 / 1.361 kg/dm3
Viscosity, rated	: 2.00 cSt
Vapor pressure, rated	: 0.00 bar.a

Performance

Speed criteria	: Variable speed
Speed, rated	: 2362 rpm
Impeller diameter, rated	: 98.00 mm
Impeller diameter, maximum	: 98.00 mm
Impeller diameter, minimum	: 98.00 mm
Efficiency (total / pump)	: 7.73 / 7.73 %
NPSH required / margin required	: 1.71 / 0.00 m
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,009 / 1,973 US Units
MCSF	: 1.14 m3/h
Head, maximum, rated diameter	: 33.28 m
Head rise to shutoff	: 10.52 %
Flow, best eff. point	: 10.58 m3/h
Flow ratio, rated / BEP	: 28.37 %
Diameter ratio (rated / max)	: 100.00 %
Head ratio (rated dia / max dia)	: 100.00 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 0.96 / 1.00
Selection status	: Acceptable

Material

Material selected	: Polypropylene
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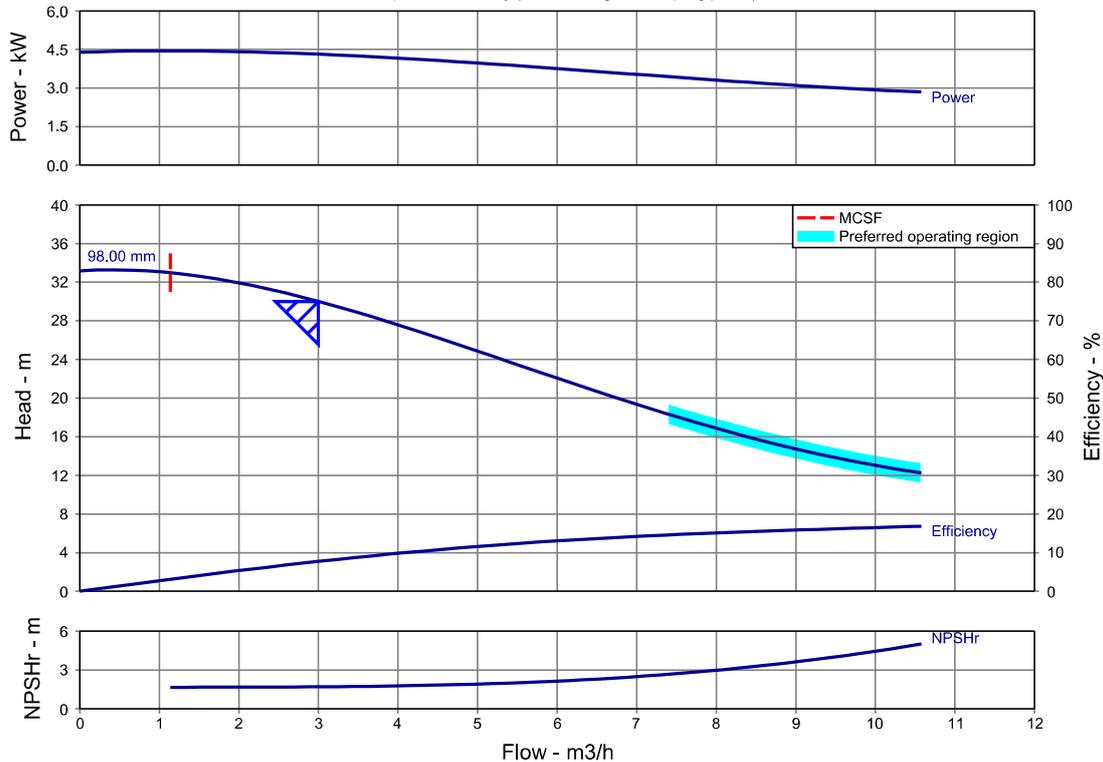
Pressure Data

Maximum working pressure	: 4.44 bar.g
Maximum allowable working pressure	: 5.00 bar.g
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Magnetic losses	: 0.00 kW
Power (total / pump)	: 4.32 / 4.32 kW
Power, maximum, rated diameter	: 4.45 kW
Minimum recommended motor rating	: 5.50 kW / 7.38 hp

Total performance only (includes magnetic coupling power).



OUTLINE DRAWING

CODE: D 10051 Rev.:00



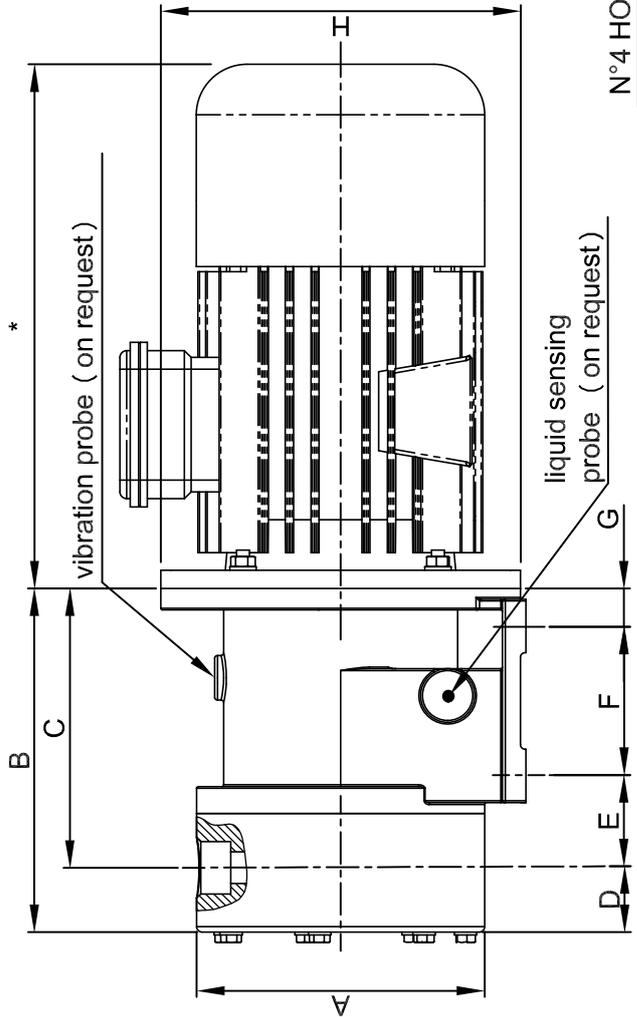
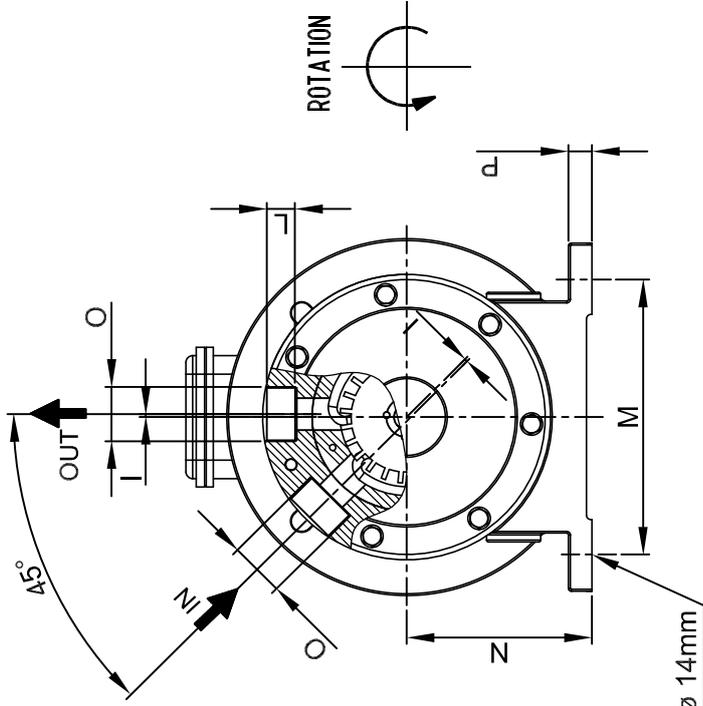
Pump model: T MAG-P160 PP/PVDF

ITEM:

Motor: IEC Gr132 B5

Port connection: Threaded

Standard: BSP-F UNI ISO 228/1 | NPT-F USAS B2-1/1968



N°4 HOLES ø 14mm

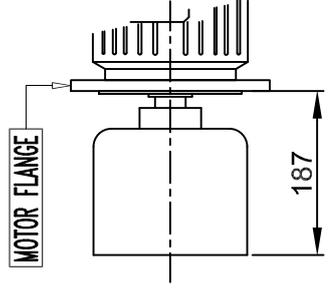
DIMENSIONS

A	B	C	D	E	F	G	H	I	L	M	N	P
250	288	245	43.5	87.5	120	37.5	300	7	23	210	153	15

* Depend on the manufacturer

- This drawing is for reference only
- Pump may be supplied without motor
- All dimensions are in millimeters
- All T MAG-P pumps are reversibles

external magnet



Suction / Discharge Port

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1"1/4 BSP-F/NPT-F