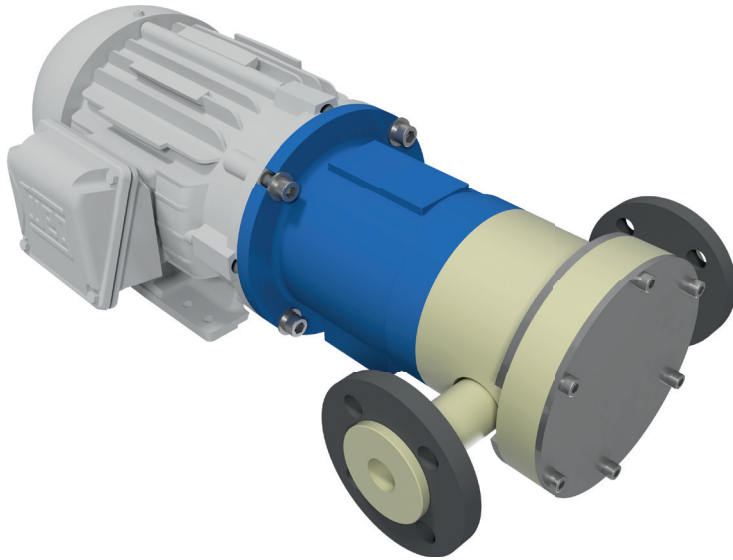


# MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

## Series TEF-MAG®

### TEF-MAG 800



#### TECHNICAL DATA

|                              |   |
|------------------------------|---|
| Nominal speed:               | 1450 1/min (50Hz)<br>1750 1/min (60Hz)        |
| Nominal flow:                | 850 l/h (225 us gph)<br>1000 l/h (265 us gph) |
| Differential pressure, max.: | 10 bar (145 psi)                              |
| Design pressure, max.:       | PN 25 bar (362,59 psi)                        |
| Temperature, max.:           | 120°C (248°F)                                 |
| Density, max.:               | 1,9 kg/dm <sup>3</sup>                        |
| Viscosity, max.:             | 10.000 cP                                     |
| NPSHR:                       | 0,5 m   |
| Drive power:                 | 1.0 HP (0,75 kW)                              |

#### APPLICATIONS

The pumps have proven their performance in every application that requires lower flow rates and high discharge pressures in combination with corrosive liquids and pulsation-free supplies.

##### Typical Applications:

- Metering corrosive catalysts in Biodiesel Plants
- Waste Water Treatment, neutralisation, flocculation
- Battery recycling plants
- Alkaline water electrolysis
- Metering Applications
- Pharmaceutical-, Medical-, Bio- Engineering

#### CONNECTIONS

|           |                   |
|-----------|-------------------|
| Threaded: | G3/4"             |
| Flanged:  | DN20<br>ANSI 3/4" |

#### MATERIALS

|           |                                  |
|-----------|----------------------------------|
| Housings: | PP, PE, PVC, PVDF, PEEK          |
| O-Rings:  | EPDM, Viton, Kalrez              |
| Shafts:   | SSiC                             |
| Gears:    | PTFEC, PVDF, PEEK, PPS           |
| Bearings: | PTFEC, Graphite, PEEK, SSiC, PPS |

FDA compliant materials are available upon request.

#### FEATURES AND BENEFITS

- European Patent No. 3786416
- USA Patent No. US 10,189,005 B2
- No need in expensive high alloys like Duplex, Hastelloy C or Titanium
- Rotary positive displacement pump
- External gear pump
- Almost pulsation free
- Leak-free
- Magnetically coupled
- Low NPSHR value
- Designed for Industrial Heavy Duty
- Corrosion resistant
- Wetted parts complete non-metallic
- Self-priming (wet)
- Dry-run capable
- High discharge pressures
- Low flow rates
- Integrated Variable Frequency Drive (available on request)
- Pump acc. to ATEX 2014/34/EU

#### PRODUCT DESCRIPTION

MARCH Series TEF-MAG® gear pumps are chemical resistant, non-metallic, rotating positive displacement pumps, external gear type and magnetically coupled. TEF-MAG® gear pumps generate low volumetric flows with middle to high differential pressures and approximately no pulsation. The pump housings are machined from chemical resistant solid block polymers like PP, PE, PVC, PVDF or PEEK. The internal hydraulic parts like gears and shafts are also made of highly corrosion resistant non-metallic materials. The power transmission of drive and pump happens in a contactless way with strong NdFeB permanent magnets. So the pump is able to work without any mechanical shaft seals, which guarantees save supplies without any leakage of corrosive, toxic and explosive fluids.

Pumps for potentially explosive ATEX Zones 1 or 2, are available in non-metallic materials

