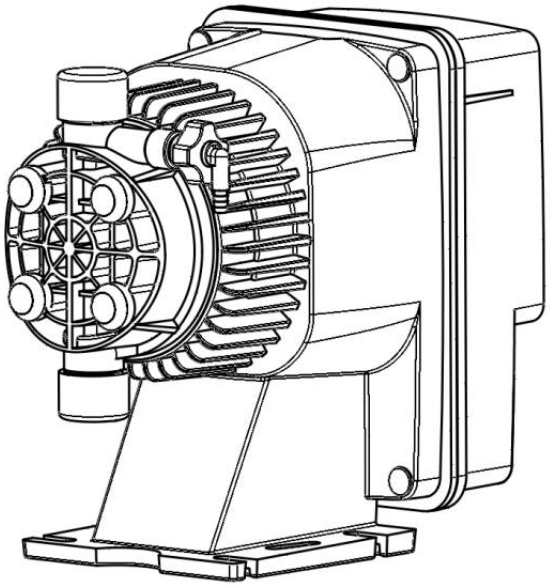
# DOSING PUMP

## TEKBA EMC SERIES – Solenoid Dosing Pump

### TECHNICAL CHARACTERISTICS



- Flow rates: from 2.5 to 110 l/h
- Max back pressure: up to 20 bar
- Power supply: 100÷240 Vac - 50/60 Hz
- Stroke rate: from 120 to 300 strokes/minute
- Pump head: PVDF
- Diaphragm: PTFE
- External Enclosure: PP reinforced with fiber glass protection degree IP65
- Manually priming valve
- External connectors for all signal inputs

Seko Tekba EMC Series is a digital dosing pump with constant flow rate, which is manually adjustable by a keyboard (frequency) mounted on the rear panel, and proportional flow rate from an external digital input signal (water meter).

With only 4 sizes this pump can cover a wide range of performances, having a flow rate range from 2.5 to 110 l/h and a back pressure from 0.1 to 20 bar. The power supply is 100÷240 Vac – 50/60 Hz, therefore the same pump can operate with different supply voltage.

The standard pump head is in PVDF, therefore high chemical compatibility with several liquids end. Also, Tekba EMC Series is equipped with a manually priming pump for the start up. All the Tekba pumps use convenient connectors external to the pump for signal input, in order to avoid opening the pump to making connections.

The pump is furnished with a complete standard installation kit, which includes: PVDF foot filter and injection valve, PVC suction and bleed tube, PVDF delivery tube.

The ambient temperature at the site of pump installation cannot exceed 40°C, and the relative humidity cannot be above 90%; the pump cannot be installed in a place exposed to sun or bad weather.

# DOSING PUMP

## TEKBA EMC SERIES – Solenoid Dosing Pump

## KEY CODE

**model**

EMC — Constant flow rate manually adjustable. Proportional flow rate according to an external digita signal (water meter, 1:n or n:1).

| hydraulics | *Pressure* [bar] | *Flow rate* [l/h] | *Capacity* cc/stroke | *Frequency* [stroke/1'] | *Ø Connections* IN / EXT [mm] |
|---|---|---|---|---|---|
| 600 | 20 | 2,5 | 0,35 | 120 | 4 / 6 |
| | 18 | 3 | 0,42 | | |
| | 14 | 4,2 | 0,58 | | |
| | 8 | 7 | 0,97 | | |
| 603 | 12 | 4 | 0,42 | 160 | 4 / 6 |
| | 10 | 5 | 0,52 | | |
| | 8 | 6 | 0,63 | | |
| | 2 | 8 | 0,83 | | |
| 800 | 16 | 7 | 0,38 | 300 | 4 / 6 |
| | 10 | 10 | 0,55 | | |
| | 5 | 15 | 0,83 | | |
| | 1 | 18 | 1,00 | | |
| 803 | 5 | 20 | 1,11 | 300 | 8 / 10 |
| | 4 | 32 | 1,78 | | |
| | 2 | 62 | 3,44 | | |
| | 0,1 | 110 | 6,11 | | |

**stroke length regulation**

N — without regulation

**power supply**

N — 100÷240 Vac 50/60 Hz

**liquid end**

| | | |
|---|---|---|
| H | PVDF | |
| A | PVDF - automatic degassing | ***NOT for 803 hydraulic*** |
| I | SS316L | |

**installation kit**

| | | |
|---|---|---|
| H | PVDF | |
| 0 | WITHOUT kit | ***only for SS316L liquid end*** |

**seals**

| | | |
|---|---|---|
| 0 | FKM-B | |
| 1 | EPDM | |
| 2 | PTFE | |
| 3 | FFKM | ***kit with PTFE seals*** |

**optional/colour**

00 — *electronic* - ***hydraulic***

**optional/customization**

00 — standard

| EMC | 800 | N | N | H | H | 1 | 00 | 00 |
|---|---|---|---|---|---|---|---|---|

# DOSING PUMP

## TEKBA EMC SERIES – Solenoid Dosing Pump

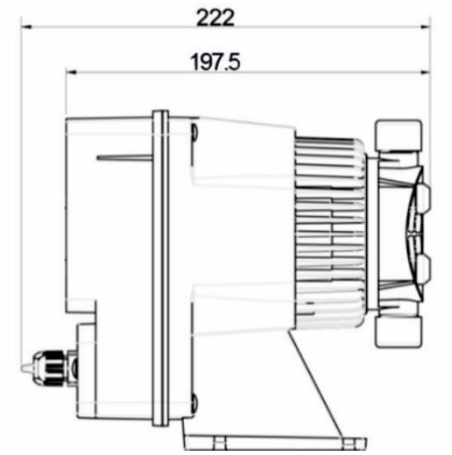
## HYDRAULIC CHARACTERISTICS

| Pump Model | Pressure [bar] | Flow Rate [l/h] | Frequency max [str./min] | Stroke capacity [cc/str.] | Connection [mm] | | Power supply [Vac] | Consumption [W] | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Suction | Discharge | | Min | Max |
| **EMC600N** | 20<br>18<br>14<br>8 | 2,5<br>3,0<br>4,2<br>7,0 | 120 | 0,35<br>0,42<br>0,58<br>0,97 | *4/6* | *4/6* | 100÷240 | 14,0 | 19,0 |
| **EMC603N** | 12<br>10<br>8<br>2 | 4,0<br>5,0<br>6,0<br>8,0 | 160 | 0,42<br>0,52<br>0,63<br>0,83 | 4/6 | 4/6 | 100÷240 | 17,0 | 22,0 |
| **EMC800N** | 16<br>10<br>5<br>1 | 7,0<br>10,0<br>15,0<br>18,0 | 300 | 0,39<br>0,56<br>0,83<br>1,00 | 4/6 | 4/6 | 100÷240 | 22,0 | 33,0 |
| **EMC803N** | 5<br>4<br>2<br>0,1 | 20,0<br>32,0<br>62,0<br>110,0 | 300 | 1,11<br>1,78<br>3,44<br>6,11 | 8/10 | 8/10 | 100÷240 | 29,0 | 37,0 |

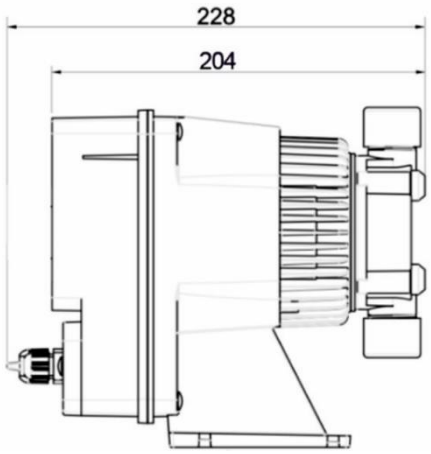
**** Pressure Data in the table refer to the measured parameters on the plant, including the use of SEKO STANDARD injection fitting.***

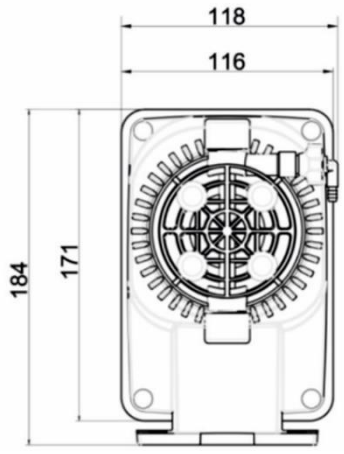
## DIMENSIONS

**600 – 603 - 800**




**803**




| INSTALLATION KIT | PVDF |
|---|---|
| foot filter | ● |
| injection valve | ● |
| PVC suction tube (4 m) | ● |
| PVDF delivery tube (2 m) | ● |
| Wall fixing bracket | *optional* |

Your Choice,
Our Commitment



Technical data can be changed without notice.
TD_Tekba _EMC_Series_rev.2.0

## PERFORMANCE

