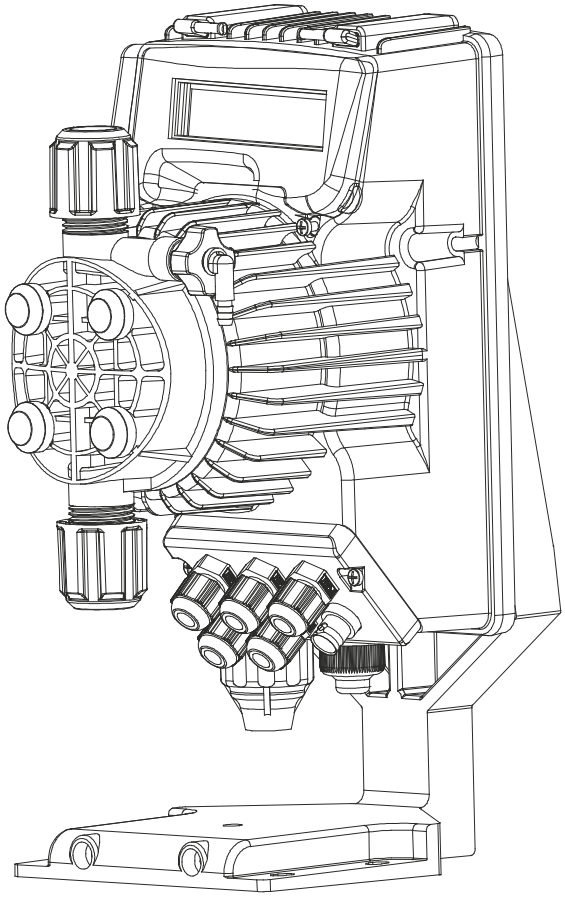
# DOSING PUMP

## TEKNA TPR SERIES – Solenoid Dosing Pump



**Technical characteristics**

- Flow rates: from 0.4 to 110 l/h
- Max back pressure: up to 20 bar
- Power supply:
  - 100÷240Vac - 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

Seko Tekna TPR Series is a digital dosing pump with pH/Redox control meter built in, Its own other features are:

- constant or proportional dosing according the measured pH or Redox value
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On-Off for remote control
- 4÷20 mA output for measure transmission

Also with this pump, with only 5 sizes, is possible to cover a wide range of performances, having a flow rate range from 0.4 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 but is available in PVC as well, on request. Also Tekna TPR series is equipped with a manually priming pump for the start up.

The pump is furnished with a complete standard installation kit, which includes: PVDF foot filter and injection valve, PVC suction tube, PE delivery tube. Moreover is available an installation kit in PVDF-T, on request.

# DOSING PUMP

## TEKNA TPR SERIES – Solenoid Dosing Pump

### PUMP KEY CODE

| Field 1 | Field 2 | Field 3 | Field 4 | Field 5 | Field 6 | Field 7 |
|---|---|---|---|---|---|---|
| TPR | 500 | N | H | H | 0 | 000 |

| | |
|---|---|
| Field 1 | model |
| Field 2 | hydraulics |
| Field 3 | power supply |
| Field 4 | liquid end |
| Field 5 | installation kit |
| Field 6 | seals |
| Field 7 | customization |

**Field 1 — model**

**Digital**

**TPR**

**Field 2 — hydraulics**

| | bar | l/h | stroke/1' | ml/stroke | tubing Ø | consumption |
|---|---|---|---|---|---|---|
| **500** | 20 | 0,4 | 120 | 0,06 | in - 4/6 out - 4/7 | - |
| | 16 | 0,8 | | 0,11 | | |
| | 10 | 1,2 | | 0,17 | | |
| | 6 | 1,5 | | 0,21 | | |
| **600** | 20 | 2,5 | 120 | 0,35 | in - 4/6 out - 4/7 | - |
| | 18 | 3 | | 0,42 | | |
| | 14 | 4,2 | | 0,58 | | |
| | 8 | 7 | | 0,97 | | |
| **603** | 12 | 4 | 160 | 0,42 | in - 4/6 out - 4/6 | - |
| | 10 | 5 | | 0,52 | | |
| | 8 | 6 | | 0,63 | | |
| | 2 | 8 | | 0,83 | | |
| **800** | 16 | 7 | 300 | 0,39 | in - 4/6 out - 4/6 | 38 |
| | 10 | 10 | | 0,56 | | |
| | 5 | 15 | | 0,83 | | |
| | 1 | 18 | | 1,00 | | |
| **803** | 5 | 20 | 300 | 1,11 | in - 8/12 out - 8/12 | - |
| | 4 | 32 | | 1,78 | | |
| | 2 | 62 | | 3,44 | | |
| | 0 | 110 | | 6,11 | | |

**Field 3 — power supply**

**N** 100÷240 Vac

**Field 4 — liquid end**

| | Body | Connections | Balls | Diaphragm |
|---|---|---|---|---|
| **H** | PVDF | PVDF | Ceramic | PTFE |
| **A** | PVDF | PVDF | Ceramic | PTFE |
| **I** | AISI316L | | AISI316L | PTFE |

**A** *Pump head with automatic degassing valve. Only for 603 and 800 series*

**Field 5 — installation kit**

**H** PVDF

**P** PVDF-T

**Field 6 — seals**

**0** FPM

**1** EPDM

**2** Elastomer Free

**Field 7 — customization**

**000** standard

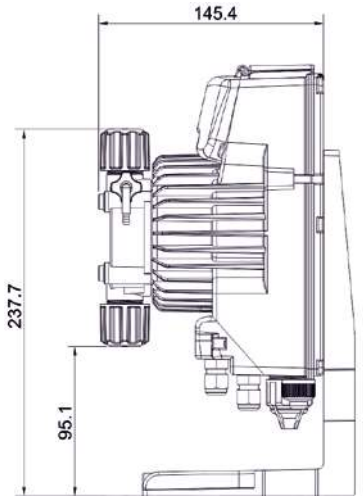
# DOSING PUMP
## TEKNA TPR SERIES – Solenoid Dosing Pump

### HYDRAULIC CHARACTERISTICS

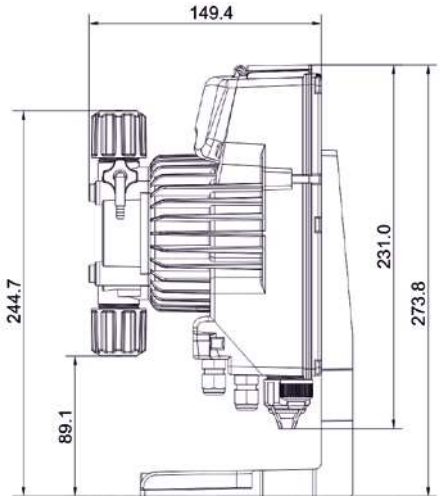
| Pump model | Pressure [bar] | Flow Rate [l/h] | Frequency max [stroke/min] | *Stroke capacity [cc/stroke]* | *Connection [mm]* | | Power supply | Consumption [W] | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Suction | Discharge | | Min | Max |
| **TPR500N** | 20<br>16<br>10<br>6 | 0,4<br>0,8<br>1,2<br>1,5 | 120 | 0,06<br>0,11<br>0,17<br>0,21 | *4/6* | *4/7* | 100÷240 Vac | - | - |
| **TPR600N** | 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 | 4/7 | 100÷240 Vac | - | - |
| **TPR603N** | 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 Vac | - | - |
| **TPR800N** | 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 Vac | 25,0 | 38,0 |
| **TPR803N** | 5<br>4<br>2<br>0 | 20,0<br>32,0<br>62,0<br>110,0 | 300 | 1,11<br>1,78<br>3,44<br>6,11 | 8/12 | 8/12 | 100÷240 Vac | - | - |

***The Pressure Data in the table refer to the measured parameters on the plant, including the use of SEKO STANDARD injection fitting.***
***Minimum consumption at 0 bar of back pressure (Patented)**

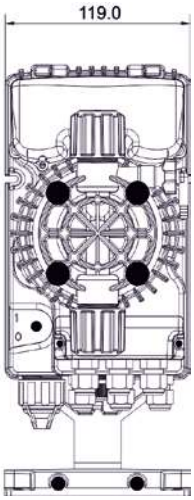
### DIMENSIONS




**500 – 600 – 603 – 800**




**803**




**500 – 600 – 603 – 800 – 803**

# DOSING PUMP

## TEKNA TPR SERIES – Solenoid Dosing Pump

| INSTALLATION KIT | PVDF | PVDF-T |
|---|---|---|
| PVDF foot filter | • | |
| PVDF injection valve | • | |
| PVDF-T foot filter | | • |
| PVDF-T Injection valve | | • |
| PVC suction tube (4 m) | • | |
| PE delivery tube (2 m) | • | |
| Wall and base fixing bracket | • | |

