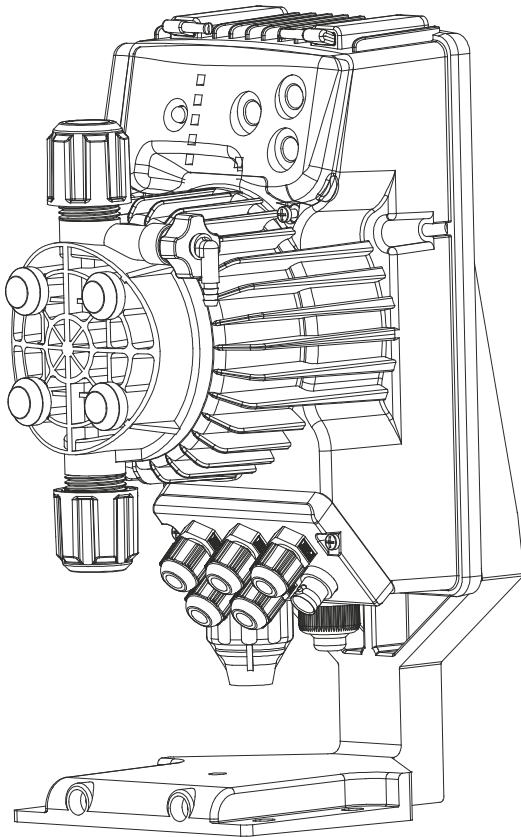


# DOSING PUMP

## TEKNA AKL 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÷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
- Installation kit: Included

Seko Tekna AKL Series is an analogic dosing pump with constant flow rate, which is manually adjustable by a knob mounted on the front panel, in addition there is the level control input than the Tekna AKS.

The flow rate has two frequency ranges:

- 0÷20 % of max flow rate
- 0÷100% of max flow rate

With only 5 sizes that pump can 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, moreover the model AKL603 have the possibility for 24÷48 Vac power supply.

The standard pump head is in PVDF, therefore high chemical compatibility with several liquids end but is available in PVC as well, on request.

All Tekna series are 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 AKL SERIES – Solenoid Dosing Pump

### PUMP KEY CODE

| Field 1 | Field 2 | Field 3 | Field 4 | Field 5 | Field 6 | Field 7 |
|---------|---------|---------|---------|---------|---------|---------|
| AKL     | 800     | 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 | Analog |
|         |       | AKL    |

| Field 2 | hydraulics | bar | l/h | stroke/1' | ml/stroke | tubing Ø                | consumption |
|---------|------------|-----|-----|-----------|-----------|-------------------------|-------------|
| 500     |            | 20  | 0,4 | 120       | 0,06      | in - 4/6<br>out - 4/7   | 15 W        |
|         |            | 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<br>out - 4/7   | 19 W        |
|         |            | 18  | 3   |           | 0,42      |                         |             |
|         |            | 14  | 4,2 |           | 0,58      |                         |             |
|         |            | 8   | 7   |           | 0,97      |                         |             |
| 603     |            | 12  | 4   | 160       | 0,42      | in - 4/6<br>out - 4/6   | 22 W        |
|         |            | 10  | 5   |           | 0,52      |                         |             |
|         |            | 8   | 6   |           | 0,63      |                         |             |
|         |            | 2   | 8   |           | 0,83      |                         |             |
| 800     |            | 16  | 7   | 300       | 0,39      | in - 4/6<br>out - 4/6   | 33 W        |
|         |            | 10  | 10  |           | 0,55      |                         |             |
|         |            | 5   | 15  |           | 0,83      |                         |             |
|         |            | 1   | 18  |           | 1,00      |                         |             |
| 803     |            | 5   | 20  | 300       | 1,11      | in - 8/12<br>out - 8/12 | 37 W        |
|         |            | 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 AKL SERIES – Solenoid Dosing Pump

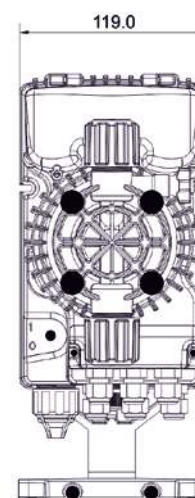
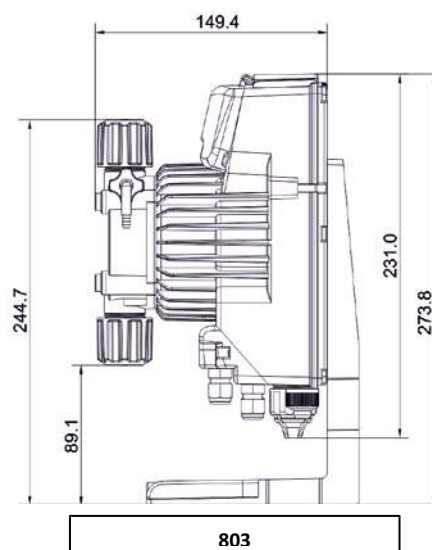
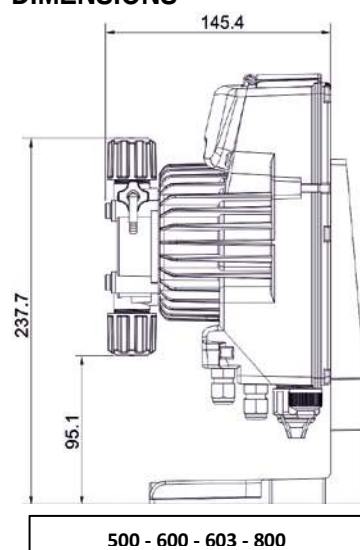
### HYDRAULIC CHARACTERISTICS

| 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  |
| AKL500N    | 20             | 0,4             | 120                        | 0,06                        | 4/6             | 4/7       | 100÷240 Vac  | 13,0            | 15,0 |
|            | 16             | 0,8             |                            | 0,11                        |                 |           |              |                 |      |
|            | 10             | 1,2             |                            | 0,17                        |                 |           |              |                 |      |
|            | 6              | 1,5             |                            | 0,21                        |                 |           |              |                 |      |
| AKL600N    | 20             | 2,5             | 120                        | 0,35                        | 4/6             | 4/7       | 100÷240 Vac  | 14,0            | 19,0 |
|            | 18             | 3,0             |                            | 0,42                        |                 |           |              |                 |      |
|            | 14             | 4,2             |                            | 0,58                        |                 |           |              |                 |      |
|            | 8              | 7,0             |                            | 0,97                        |                 |           |              |                 |      |
| AKL603N    | 12             | 4,0             | 160                        | 0,42                        | 4/6             | 4/6       | 100÷240 Vac  | 17,0            | 22,0 |
|            | 10             | 5,0             |                            | 0,52                        |                 |           |              |                 |      |
|            | 8              | 6,0             |                            | 0,63                        |                 |           |              |                 |      |
|            | 2              | 8,0             |                            | 0,83                        |                 |           |              |                 |      |
| AKL800N    | 16             | 7,0             | 300                        | 0,39                        | 4/6             | 4/6       | 100÷240 Vac  | 22,0            | 33,0 |
|            | 10             | 10,0            |                            | 0,56                        |                 |           |              |                 |      |
|            | 5              | 15,0            |                            | 0,83                        |                 |           |              |                 |      |
|            | 1              | 18,0            |                            | 1,00                        |                 |           |              |                 |      |
| AKL803N    | 5              | 20,0            | 300                        | 1,11                        | 8/12            | 8/12      | 100÷240 Vac  | 29,0            | 37,0 |
|            | 4              | 32,0            |                            | 1,78                        |                 |           |              |                 |      |
|            | 2              | 62,0            |                            | 3,44                        |                 |           |              |                 |      |
|            | 0              | 110,0           |                            | 6,11                        |                 |           |              |                 |      |

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



# DOSING PUMP

## TEKNA AKL 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 | •    |        |

