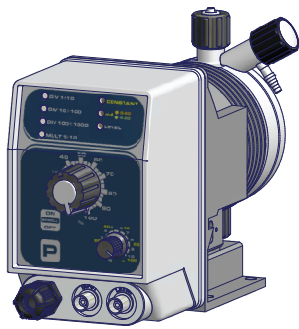


# "K PLUS" series metering pumps

# Data Sheet



- Foot mounted
- Microprocessor technology
- Constant or proportional feeding
- Manual stroke length adjustment
- Manual venting (K) or self venting (KA) pump head
- Enclosure .....PP
- Environment temperature.....10-45°C (55-113°F)
- Chemical temperature.....0-50°C (32-122°F)
- Transportation and storage temperature.....-10-50°C (14-122°F)
- Altitude .....2000 m
- Installation class .....II
- Pollution level.....2
- Audible noise.....73.4 db(A)
- Protection degree .....IP65 (% working RU: 85% T<=40°C; 70% T=50°C - without condensing water)

## Configuration Code

| MODELS    |           |          |   |
|-----------|-----------|----------|---|
| Code K    | Code KA   | MOD.     | DESCRIPTION   |
| <b>MU</b> | <b>AU</b> | K PLUS   | Constant proportional pump with level control. Working mode:<br>- constant<br>- constant with divider (1/10)<br>- pulse divider (1/10; 10/100; 100/1000)<br>- pulse multiplier (1/10)<br>- mA signal current (0/4 mA = 0 pulses; 20mA = max pulses) |
| <b>PO</b> | <b>PA</b> | KCO PLUS | Constant pump with speed reducer (1/10)   |
| <b>PL</b> | <b>UA</b> | KCL PLUS | Constant pump with level control. Speed reducer (1/10)  |

| CAPACITIES   |                   |                     |       |           |
|--------------|-------------------|---------------------|-------|-----------|
| K            |                   |                     | Hoses | Pump head |
| <b>2001</b>  | 1 l/h at 20 bar   | 0.26 GPH at 290 PSI | 4 x 6 | I         |
| <b>1802</b>  | 2 l/h at 18 bar   | 0.53 GPH at 261 PSI | 4 x 6 | L         |
| <b>1504</b>  | 4 l/h at 15 bar   | 1.06 GPH at 217 PSI | 4 x 6 | L         |
| <b>1005</b>  | 5 l/h at 10 bar   | 1.32 GPH at 102 PSI | 4 x 6 | L         |
| <b>0808</b>  | 8 l/h at 8 bar    | 2.11 GPH at 116 PSI | 4 x 6 | L         |
| <b>0510</b>  | 10 l/h at 5 bar   | 2.64 GPH at 58 PSI  | 4 x 6 | L         |
| <b>0218</b>  | 18 l/h at 2 bar   | 4.76 GPH at 29 PSI  | 6 x 8 | M         |
| KA           |                   |                     | Hoses | Pump head |
| <b>1801</b>  | 1 l/h at 18 bar   | 0.26 GPH at 261 PSI | 4 x 6 | LA        |
| <b>1503</b>  | 3 l/h at 15 bar   | 0.79 GPH at 217 PSI | 4 x 6 | LA        |
| <b>103.5</b> | 3.5 l/h at 10 bar | 0.92 GPH at 102 PSI | 4 x 6 | LA        |
| <b>100.5</b> | 0.5 l/h at 10 bar | 0.13 GPH at 102 PSI | 4 x 6 | JA        |
| <b>085.5</b> | 5.5 l/h at 8 bar  | 1.45 GPH at 116 PSI | 4 x 6 | LA        |
| <b>057.5</b> | 7.5 l/h at 5 bar  | 1.98 GPH at 58 PSI  | 4 x 6 | LA        |
| <b>0213</b>  | 13 l/h at 2 bar   | 3.43 GPH at 29 PSI  | 6 x 8 | MA        |

Model **K** **MU** **2001** **K** **00** **00**

| LIQUID ENDS |         |              |       |                       |           |                    |         |                   |
|-------------|---------|--------------|-------|-----------------------|-----------|--------------------|---------|-------------------|
|             | HEAD    | ORINGS       | VALVE |                       | DIAPHRAGM | HOSES <sup>1</sup> |         | VISCOSITY         |
|             |         |              | Body  | Balls                 |           | Delivery           | Suction |                   |
| K           | PVDF    | FKM B        | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| P           | PVDF    | EPDM         | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| Y           | PVDF    | Nytrile      | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| V           | PP      | FKM B        | PP    | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| D           | PP      | EPDM         | PP    | Ceramic               | PTFE      | PE                 | PVC     | 100               |
| W           | PP      | Nytrile      | PP    | Ceramic               | PTFE      | PE                 | PVC     | 100               |
| J           | PVDF    | FKM B + PTFE | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| M           | PVDF    | EPDM + PTFE  | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| A           | Acrylic | FKM B        | PVDF  | Ceramic               | PTFE      | PVDF               | PVC     | 100               |
| Z           | SS      | FKM B        | SS    | SS                    | PTFE      | N/A                | N/A     | 100               |
| \$          | Acrylic | FKM B        | PP    | SS + Hastelloy spring | PTFE      | PP                 | PVC     | 8000 <sup>2</sup> |

| POWER SUPPLY |                         |
|--------------|-------------------------|
| <b>00</b>    | 230 VAC Schuko plug     |
| <b>05</b>    | 230 VAC australian plug |
| <b>01</b>    | 230 VAC without plug    |
| <b>03</b>    | 115 VAC US plug         |
| <b>04</b>    | 24 VAC without plug     |
| <b>05</b>    | 12 VDC *                |
| <b>07</b>    | 24 VDC                  |

\* On some models only.

<sup>1</sup> Size may be different from standard.

<sup>2</sup> Using high viscosity pump head mod. \$, pump output may results lower in some applications.



## Technical features

| INFORMATION FOR K PLUS    |               |     |                                 |   |   |  |  |                      |
|---------------------------|---------------|-----|---------------------------------|---|---|--|--|----------------------|
| Models                    | Strokes speed |     | Stroke length range reliability | Power consumption at max flow (230 VAC) | Power consumption at max flow (115 VAC) | Power consumption at max flow (24 VAC) | Power consumption at max flow (12 VAC) | Weight               |
|                           | min           | max |                                 |   |   |  |  |                      |
| 2001                      | 18            | 180 | from 30% to 100%                | 19 Watt                                 | 24 Watt                                 | 12 Watt                                | 8.8 Watt                               | 4.1 Kg<br>(9.02 Lbs) |
| 1802                      | 18            | 180 |                                 |   |   |  |  |                      |
| 1504                      | 18            | 180 |                                 |   |   |  |  |                      |
| 1005                      | 18            | 180 |                                 |   |   |  |  |                      |
| 0808                      | 18            | 180 |                                 |   |   |  |  |                      |
| 0510                      | 18            | 180 |                                 |   |   |  |  |                      |
| 0501                      | 18            | 180 |                                 |   |   |  |  |                      |
| 0218                      | 18            | 180 |                                 |   |   |  |  |                      |
| INFORMATION FOR KA MODELS |               |     |                                 |   |   |  |  |                      |
| 1801                      | 18            | 180 | from 30% to 100%                | 19 Watt                                 | 24 Watt                                 | 12 Watt                                | 8.8 Watt                               | 4.1 Kg<br>(9.02 Lbs) |
| 1503                      | 18            | 180 |                                 |   |   |  |  |                      |
| 103.5                     | 18            | 180 |                                 |   |   |  |  |                      |
| 100.5                     | 18            | 180 |                                 |   |   |  |  |                      |
| 085.5                     | 18            | 180 |                                 |   |   |  |  |                      |
| 057.5                     | 18            | 180 |                                 |   |   |  |  |                      |
| 0213                      | 18            | 180 |                                 |   |   |  |  |                      |

| CAPACITY |          |         |         |         |               |      |                  |       |
|----------|----------|---------|---------|---------|---------------|------|------------------|-------|
| K PLUS   | FLOW     |         |         |         | cc per STROKE |      | Maximum pressure |       |
|          | min cc/h | max l/h | Min GPH | Max GPH | min           | max  | bar              | PSI   |
|          | 2001     | 30      | 1       | 0,01    | 0,26          | 0,03 | 0,09             | 20    |
| 1802     | 60       | 2       | 0,02    | 0,53    | 0,06          | 0,19 | 18               | 261   |
| 1504     | 120      | 4       | 0,03    | 1,1     | 0,1           | 0,37 | 15               | 217,5 |
| 1005     | 150      | 5       | 0,04    | 1,3     | 0,1           | 0,46 | 10               | 145   |
| 0808     | 240      | 8       | 0,06    | 2,1     | 0,2           | 0,74 | 8                | 116   |
| 0510     | 300      | 10      | 0,08    | 2,6     | 0,3           | 0,93 | 5                | 72,5  |
| 0501     | 30       | 1       | 0,01    | 0,3     | 0             | 0,09 | 5                | 72,5  |
| 0218     | 540      | 18      | 0,14    | 4,8     | 0,5           | 1,67 | 2                | 29    |

| CAPACITY |          |         |         |         |               |      |                  |       |
|----------|----------|---------|---------|---------|---------------|------|------------------|-------|
| KA PLUS  | FLOW     |         |         |         | cc per STROKE |      | Maximum pressure |       |
|          | min cc/h | max l/h | Min GPH | Max GPH | min           | max  | bar              | PSI   |
|          | 1801     | 30      | 1       | 0,01    | 0,26          | 0,03 | 0,09             | 18    |
| 1503     | 90       | 3       | 0,02    | 0,79    | 0,08          | 0,28 | 15               | 217,5 |
| 103.5    | 105      | 3,5     | 0,03    | 0,9     | 0,1           | 0,32 | 10               | 145   |
| 100.5    | 15       | 0,5     | 0,0039  | 0,13    | 0,1           | 0,32 | 10               | 145   |
| 085.5    | 165      | 5,5     | 0,05    | 1,5     | 0,2           | 0,51 | 8                | 116   |
| 057.5    | 225      | 7,5     | 0,06    | 2       | 0,2           | 0,69 | 5                | 72,5  |
| 0213     | 390      | 13      | 0,1     | 3,4     | 0,4           | 1,2  | 2                | 29    |

| QUANTITY | PACKAGE CONTENT  |
|----------|--|
| n. 1     | Assembly kit   |
| n. 1     | 5 X 20 delayed fuse  |
| n. 1     | Level probe with axial foot filter (PVDF) - level probe not in KCO PLUS mod. |
| n. 1     | 0,3 Bar injection valve (PVDF)   |
| m 2      | Delivery hose  |
| m 2      | Suction hose   |
| m 2      | Discharge hose   |
| m 2,5    | Input signal cable (only K PLUS)   |
| n.1      | Operating manual   |

| POWER SUPPLY                     | FUSE   |
|----------------------------------|--------|
| 230 VAC (190-265 VAC) - 50/60 Hz | 1 A    |
| 115 VAC (90-135 VAC) - 50/60 Hz  | 500 mA |
| 24 VAC (20-32 VAC) - 50/60 Hz    | 2A     |
| 12 VDC (10-16 VDC)               | 3.15A  |

## Dimension

mm [inches]

