

SIMDOS[®] 02

For fine dosing and metering



- Simple and intuitive operation
- Easy calibration
- Cycle mode
- Adaptable to fluid characteristics
- Self priming, can run dry
- Various control options
- Splashproof IP65, small footprint

Fields of application

- Chemistry
- Synthetic organic chemistry
- Pharmaceutical
- Adhesives and glue
- Polymers & polymer coating
- Food technology research
- Detergents

Hydraulic data

| Flow rate | Dosing volume | Suction height | Max. pressure |
|---------------------|---------------|----------------|---------------|
| 30 µL/min–20 mL/min | 30 µL–999 mL | 6.6 ft. water | 85 psig |

Pump type

| Code | Pump head | Diaphragm | Valves | Filter (1pc. included) | Tubing (2pc. included) |
|------|-----------------|--------------|----------------------------|------------------------|------------------------|
| KT | PP | PTFE covered | FFKM Kalrez [®] | 165212 | 166329 |
| TT | PVDF | PTFE covered | FFKM Kalrez [®] | 165210 | 166329 |
| FT | PTFE | PTFE covered | FFKM Kalrez [®] * | 165212 | 166329 |
| ST | STAINLESS STEEL | PTFE covered | FFKM Kalrez [®] | 165212 | 166329 |

* On request FFKM Chemraz[®]

Control type

| S - Version | RC - Version | RC Plus - Version |
|--|---|--|
| <ul style="list-style-type: none"> • Manual operation | <ul style="list-style-type: none"> • Manual operation • Analog control: 0–5 V, 0–10 V, 0–20 mA, 4–20 mA, from 1 to 100% • Start/Stop through logic control (TTL) | <ul style="list-style-type: none"> • Reset/Prime through logic control (TTL) • Output signal fault alarm • RC cable for external control included |
| | | <ul style="list-style-type: none"> • Same as RC • RS 232 port for PC control • RS 232 cable with D-Sub 9 connector included |

Technical data

- Main supply 100–240 V / 50–60 Hz
- Ambient temperature allowed +5 to +40 °C
- Liquid temperature allowed +5 to +80 °C
- Viscosity settings up to 500 cSt**
- Accuracy +/-2% (nominal value)
- Repeatability +/-1%
- Power consumption 10 W
- Protection class IP65
- Dimensions: 150 H x 93 W x 144 D mm
- Weight: 0.9 kg
- UNF 1/4"-28 threaded ports
- Supplied with 1/8" OD x 1/16" ID tubing; other options available

** Reduced flow rate above 150 cSt

Model Numbers: FEM 1.02 .18 *Example: FEM 1.02KT.18RCP*
 Code: KT, TT, FT, or ST
 Control: S, RC, or RCP

SIMDOS[®] 02

Accessories

Valves kit

| | ID-Nr. |
|---|--------|
| FFKM Chemraz [®] special valves for certain chemicals | 164984 |



Special Valves CHEMRAZ[®]

Diaphragm pressure control valve with support when the feeding tank is above the pump or to dose into vacuum

| | ID-Nr. |
|---|--------|
| Kit JFDV 30 KTZ for SIMDOS [®] 02 KT | 166286 |
| Kit JFDV 30 TTZ for SIMDOS [®] 02 TT | 166287 |
| Kit JFDV 30 FTZ for SIMDOS [®] 02 FT | 166288 |



Filter for protection against influent particulates and fibers

| Type | Porosity | Material | Connector | ID-Nr. |
|---------|----------|----------|-------------|--------|
| FS 60 T | 70 µm | PVDF | UNF 1/4"-28 | 165210 |
| FS 60 X | 35 µm | PEEK | UNF 1/4"-28 | 165212 |

Access a filter chemical resistance chart at www.knfusa.com/filter-chem-resist.



Tubing and connectors

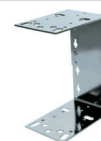
| | ID-Nr. |
|--|--------|
| Replacement FEP inlet/outlet tubing , 1/8" OD x 1/16" ID x 1m with UNF 1/4"-28 connector | 166329 |
| Also available in 2m length | 166330 |
| Replacement UNF 1/4"-28 connector set for 1/8" OD tubing (includes 2 ferrules and 2 fittings) | 069790 |
| Optional FEP outlet tubing for fine dosing, 1/16" OD x 1/32" ID x 1m with UNF 1/4"-28 connector [†] | 166335 |

[†] 5 mL/min maximum flow rate with this tubing.



Mounting plate

| | ID-Nr. |
|-------------------|--------|
| For wall mounting | 160473 |



Standfitting

| | ID-Nr. |
|------------------|--------|
| For retort stand | 160474 |



USB-serial converter for SIMDOS RC Plus

| | ID-Nr. |
|--|--------|
| | 166949 |



Footswitch

| | ID-Nr. |
|----------------------------|--------|
| For impulse start and stop | 155872 |

