

Ritmo® 05



Elegant and easy metering with positively controlled valves, variable pressure stroke and in all PTFE design for fluids and gases.

Metering pumps – exactly matching your needs

Ritmo 05 Metering Pumps are specialized, high precision Metering Pumps for laboratories, process optimization, research and development and also for the industrial application for micro quantity metering.

They are characterized by their full-PTFE-design with **highest chemical resistance**, material purity and FDA-/BGVO- conformity.

Available in **6 installation sizes** with a metering range from 3µl/min to 480 ml/min, outlet pressure up to 4 bar and configured for an extreme wide selection range from 1:1000

Applicable for nearly all **aggressive fluids** and gases, for acids, hydroxides and solvents, for high purity processes and metalfree applications and also for metering process in food and pharma sector.

With positively controlled valves for **absolutely tightness** between pressure side and suction side, for absolutely vacuum suitability and for robust suction performance

With force fit membran drive and delayed output velocity for constant and **low pulsation precision metering**

With **easy operation** with direct adjustment of delivery rate in µl/min or ml/min and clearly arranged keys for a sensational **functionality** and flexibility

The **return function** enables aggressive fluids or product melt to be returned from the pump head or the whole metering system to the storage vessel.

The **clean function** allows opening of both valves in the same time for rinsing or inerting (CIP / SIP) without removing the metering pump from the system.

Process capability and automation via analogue interface (4-20 mA), serial interface (RS 232) and master-slave interface.

Pump case with stainless steel, with PFA coating, illumination or with synthetic-IP65-design

Retrofit with custom designed **software modules**

- Metering pumps in full-PTFE-design
- Diaphragm metering pumps with positively controlled valves
- Pulsfree diaphragm pumps
- Heated and cooled metering pumps
- Vacuum metering pumps
- Filling pumps
- Multi channel pumps
- Sampling pumps
- Mixing pumps
- Metering pumps in master-/ slave configuration
- Reflow splitter
- Pulse generator
- Gasmetering-/ gasmixing pumps
- Special acid pumps
- pH-controlled pumps

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Metering pumps with capacities ranging from 3 µl/min – 480 ml/min



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Specifications

Pump type	R 05/3	05/30	05/60	05/120	05/250	05/480
max. metering capacity (ml/min)	3	30	60	120	250	480
min. metering capacity (µl/min)	3	30	60	120	250	480
max. stroke frequency (strokes/min)	ca. 32	ca. 50	ca. 48	ca. 46	ca. 53	ca. 51
max. pressure inlet (bar)	4	4	3	2	1,5	1,5
max. pressure outlet (bar)	4	4	3	2	1,5	1,5
Stroke volume (µl)	95	600	1250	2600	4700	9400
min. stroke duration (sec.)	1,8	1,2	1,2	1,2	1,2	1,1
max. stroke duration (sec.)	1910	1190	1260	1300	1080	1190
Repeat accuracy (%)	< 1	< 1	< 1	< 1	< 1	< 1
Vacuum at inlet (mbar)	20	20	20	20	20	20
Vacuum at outlet (mbar)	0	0	0	2	0	0
Max. viscosity (mPas)	100	200	300	500	500	500
Max. viscosity (mPas) **	200	400	600	800	800	800
Max. medium temperature (°C)	120°C					
Material, pump head	PTFE					
Material, diaphragm	PTFE					
Material, valves	PTFE					
Input voltage	100-240 V					
Power input	25 W (125 – 800 W heated)					
Schutzart	IP 30					
Ambient temperature	50 °C (122 °F)					
max. dimensions LxBxT LxBxH	270x130x205 (340x130x205 heated)					

The above rated values have been carefully determined with reference fluid. If other fluids are metered, the above values may differ minimal.

PTFE-pump-chamber with diaphragm



** max. viscosity with using software module R05-AK

Fluid connecting options:

- ① REA-Z-connection with PEEK-screwing and PTFE-/Silicon insert
- ② REA-P-connection with PEEK-screwing and PTFE-sealing ring and cone
- ③ RGLF-connection with PTFE-adapter and PTFE-/Silicon insert
- ④ RGLK-connection with PTFE-adapter and PTFE-sealing ring and cone
- ⑤ RSVA-stainless steel screwing with PTFE-adaptation
- ⑥ Special design in depending of customer request

