

Ritmo 05 CH

Variety and adaptability in batch metering and micro quantity metering with positively controlled valves, variable pressure stroke and in all PTFE design.



Metering pumps – exactly matching your needs

- **Metering by volume, time or with defined volume-time sequences**
(Easy and simple operation with direct adjustment of the metering volume in ml or μ l and of the filling time in sec.)
- **Programming options for time-factored metering processes**
- **Start of the metering pump via the operator interface or via an external operating panel**
- **Metering with full and partial strokes and display of the remaining number of strokes or the remaining filling time**
- **Pump head, diaphragm and valves in all PTFE design version**
(for universal use with ultimate chemicals resistance and with FDA conformity)
- **Batch metering with heated or cooled metering heads and under vacuum conditions**
- **Positively controlled valves, cycled via solenoids**
(absolutely tight pump head between inlet and outlet)
- **Combined stepping motor and valves for clean and exact metering and filling processes without dripping**
- **Return function**
(economical handling of expensive or aggressive fluids with residual discharge into receiver)
- **Clean function**
(cleaning, rinsing, sterilising through both valves opening simultaneously, CIP and SIP capability)
- **Automated post calibration with documentation conforming with GMP**
- **Control with process and automation capability**
(analogue interface 4-20 mA, digital RS 232, special master-slave configurations for volume-proportional metering of several filling processes)
- **Stepping motor controlled diaphragm metering unit**
- **Metering pumps in all PTFE design versions**
- **Diaphragm metering unit with positively controlled valve engineering**
- **Metering pumps with heated and cooled pump head**
- **Metering pumps for vacuum applications**
- **Sampling pumps with flushing function**
- **Gas metering pumps**
- **Gas mixing pumps**
- **Metering systems consisting of metering pump and Coriolis measurement technology**
- **Metering pump system in master-slave-configuration**
- **High pressure metering pumps**
- **Batch- and filling metering pumps**
- **Multi-channel distributor pumps**
- **Pneumatic metering pumps**
- **Ex-protected metering pumps**
- **Special customised solutions**

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Metering pumps with capacities ranging from 10 μ l bis 3 ml je Hub



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Technische Daten



Pumpentyp	R 05/03	R 05/30	R 05/60	R 05/120	R 05/150	R 05/250
max. metering capacity ml/min	3	30	60	105	150	270
min. metering capacity µl/min	10	90	130	180	400	600
max. stroke frequency strokes/min	ca. 43	ca. 43	ca. 46	ca. 48	ca. 79	ca. 79
max. pressure inlet bar	4	4	3	2	3	2
max. pressure outlet bar	4	4	3	2	3	2
Stroke volume µl	70	700	1300	2500	1900	3400
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	0	0	0
Max. viscosity mPas	600	700	800	800	800	800
Max. medium temperature	120 °C (248 °F)					
Material, pump head	PTFE					
Material, diaphragm	PTFE					
Material, valves	PTFE					
Input voltage	100 - 240V, 25 W					
Safety class	IP 30					
Ambient temperature	50 °C (122 °F)					
max. dimensions LxBxT mm	270 x 130 x 205					

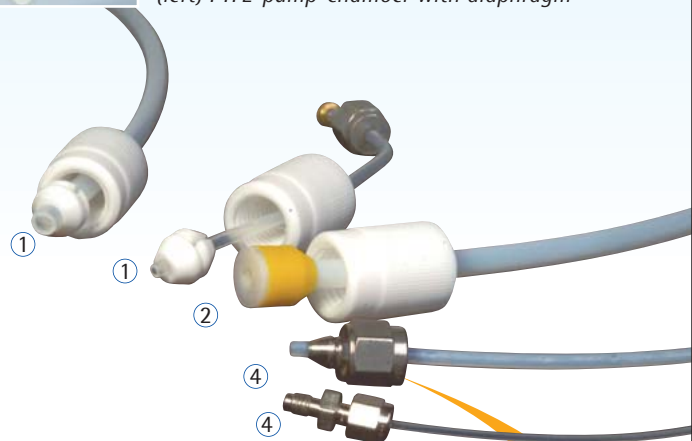
The above rated values have been carefully determined with reference fluid. If other fluids are metered, the above values may differ minimal.



(above) Drive engineering



(left) PTFE-pump-chamber with diaphragm



Connecting options:

- ① RGL-PTFE unions with sealing ring and cone
- ② RGL-PTFE flexible unions with precision thread and silicone jacket for vacuum use and for temperature changes
- ③ Tube sleeve with PTFE-Adapter
- ④ Swagelok / Gyrolok stainless steel unions
- ⑤ Rapid action couplings
- ⑥ Heater hose adapter
- ⊗ Other customised connections - depending on apparatus

