

Ritmo 03



Robust and versatile metering with extremely wide setting range, variable pressure stroke and in all PTFE design for the most aggressive fluids

Metering pumps – exactly matching your needs

- **Easy and simple operation with direct adjustment of the delivery rate in ml/h**
(no complex computations of stroke volume and stroke frequency and no complex calibration tables)
- **Metering with consistent and constant stroke length**
(pump head with minimised dead volumes over the entire delivery range and reduced outgassing risk)
- **Pump head in all PTFE design and PTFE coated diaphragm**
(for universal use with ultimate chemicals resistance, also in heated design)
- **Stepping motor controlled movement of the working diaphragm**
(with rapid suction velocity (and anti-cavitation mode) and delayed output velocity (low pulsation, quasi-continuous metering))
- **Positive controlled and friction-locked drive over the entire metering process via toothed belt drive**
(with accurate and reproducible metering steps, long service life and maintenance free)
- **Easy calibration via fixed menu item**
(differences quickly corrected in the display menu, providing ultimate metering accuracy under controlled consumption of chemicals)
- **Versatile and varied functions**
(through manual operation, rapid venting using the Max.-function, continuous metering, pulse control, batch metering, timer functions, with process capability via analogue interface and bus communication)
- **Wide range of accessories**
(up to complete metering stations with integrated level control and alarm function)
- 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 2.5 ml/h to 950 l/h
(with an unrivalled setting range of 1:1000 per pump head)



Specifications

Pump type R03/...	2-18	8-10	12-6	19-6	48-3	60-100	150-4	375-10	940-4
Max. metering capacity l/h	2,5	7,5	12,0	18,5	48,0	60,0	150,0	376,0	940,0
Max. metering capacity l/h*	1,8	5,6	9,0	14,5	37,0	33,4	83,5	210,0	525,0
Min. metering capacity ml/h	2,5	7,5	12,0	18,5	48,0	75,0	188,0	470,0	1.180,0
Max. operating pressure bar	18,0	10,0	6,0	6,2	2,6	10,0	4,0	10,0	4,0
Max. stroke frequency strokes/min	ca. 180	ca. 180	ca. 180	ca. 151	ca. 151	ca. 160	160	160	160
Stroke volume ml	0,231	0,694	1,111	2,042	5,298	6,250	15,625	39,167	97,917
Min. stroke duration/sec	0,333	0,333	0,333	0,397	0,397	0,375	0,375	0,375	0,375
Max. stroke duration/sec	333,33	333,33	333,33	397,35	397,35	300,00	300,00	300,00	300,00
Max. intake height m	6	6	6	6	6	4	4	4	4
Max. viscosity mPas**	500	500	500	500	100	3.000	3.000	3.000	3.000
Max. medium temperature	50 °C (122 °F)								
Pump head heating	100 °C (212 °F)								
Material, pump head	PP, PVDF, PTFE, VA 1.4401								
Material, diaphragm	PTFE coated								
Material, valves	Ceramic, VA 1.4401, PTFE								
Input voltage	100 - 240 V								
Input power (W)	18	18	22	22	22	62	62	240	240
Safety class	IP 65								
Ambient temperature	50 °C (122 °F)								
Max. dimensions length (mm)	239	239	239	294	294	444	444	540	540
Max. dimensions width (mm)	110	110	110	110	110	198	198	218	218
Max. dimensions height (mm)	168	168	168	188	188	331	345	471	496

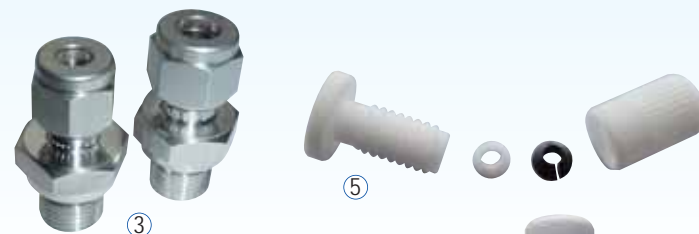
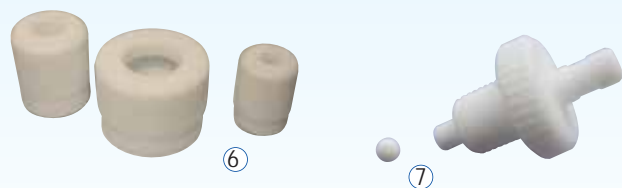
* Max. metering capacity l/h with anti-cavitation mode 50 %

** Max. viscosity mPas with spring-loaded valves

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

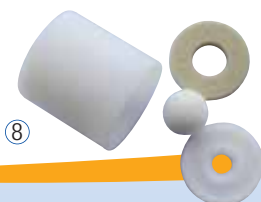


PTFE-pump-chamber with diaphragm



Connecting options:

- ① Tube sleeve for hose connections
- ② adaptation with inside thread for cutting ring connecting
- ③ Swagelok/Gyrolok stainless steel unions
- ④ Rapid action couplings
- ⑤ RGL - PTFE unions with sealing ring and cone
- ⑥ PTFE connection cap
- ⑦ PTFE vent valve
- ⑧ PTFE valve core
- ⊗ Other customised connections- depending on apparatus



Pump head in stainless steel-, PP-, PVDF- or PTFE-construction

