

Fluid distribution and -extrusion of gases and fluids by multi-channel pumps with positively controlled valves and all in PTFE construction

- Easy and simple operation with direct entry of the delivery rate in ml/min and division ratio option by selecting the stroke frequency per channel
- Up to 3 pressure side positively controlled valves (all types available as heated version)
- Pump head, diaphragm and valves in all PTFE design version (for universal use with ultimate chemical resistance)
- Rational, cost efficient and space-saving application of a Metering Pump for multiple conform metering processes
- Circulation discharging (for controlling the hold-up period in reaction processes with simultaneous sampling option)
- Return flow discharging and -distribution in distillation processes under vacuum conditions (simultaneous return flow distribution in second process stage or sampling option)
- Return flow discharging in dependence of fill level and simultaneous fluid charging (by access through a distillation processes or through a reaction process)
- Substance charging of small fluid or gas quantities under vacuum or over - pressure conditions (without necessary pressure compensation of the reaction process)
- Substance charging in dependence of the individual process development in the pilot plant (flexible and manually triggered at any time)
- Return function (residue drainage of the supply system, in the charging channel or in an additional suction or charging channel
- Process and automatic control (analogue interface 4-20mA, digital control RS 232; read out of distribution ratio with external valuation of the quantity mass balance)

itmo os MK

Multi-channel Metering Pump from 0.5 ml/h to 15 l/h



## Metering pumps – exactly matching your needs

- Metering pumps in all
   PTFE version
- Stepping motor controlled diaphragm metering
- Diaphragm metering unit with positively controlled valve engineering
- Metering pumps with heated and cooled pump head
- Metering pumps for vacuum applications
- Gas metering pumps
- Gas mixing pumps
- Batch- and filling metering
   pumps
- Multi channel distributor pumps
- Sampling pumps with flushing function
- Metering pump system in master-/slave-configuration
- Pneumatic metering pumps
- Ex-protected metering pumps
- High pressure metering pumps
- Metering systems consisting of metering pump and Coriolis measurement technology
- Special customized solutions



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## Ritmo 05 MK Technical Data

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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	120	150	250
min. metering µl/min	3	30	60	120	150	250
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
min. stroke duration/sec.	1,4	1,4	1,3	1,2	0,8	0,8
max. stroke duration/sec.	1400	1400	1300	1500	800	800
Repeat accuracy %	< 1	< 1	< 1	< 1	< 1	< 1
Vacuum at inlet mbar	20	20	20	20	20	20
/acuum at outlet mbar	0	0	0	0	0	0
Max. viscosity mPas	200	200	300	600	600	600
Max. medium temperature	120 °C (251.6 °F)					
Naterial, pump head	PTFE					
Material, diaphragm	PTFE					
Material, valves	PTFE					
nput voltage	100 - 240 V					
Safety class	IP 30					
Ambient temperature	50°C (122°F) 270x130x205					
Max. dimensions LxWxH mm			270x13	30x205		E .
Connection variations:				v (	above) Drive mecho vith 2 stroke (magr left) PTFE – Multi - o vith membrane and	nets) solenoids channel pump - cha
<ol> <li>GL - PTFE - unions with sealing ring and cone</li> <li>GL - PTFE - Flex unions with precision thread and silicone jacket for vacuum use and for</li> </ol>	r			1	R	
temperature changes 3 Tube sleeve with PTFE - adapt (no image)	er			(2		
④ Swagelok / Gyrolok stainless steel unions		X,			4	
5 Rapid action couplings (no in	nage)		Desi			
<ul> <li>Other customized connection depending on apparatus</li> </ul>	– 21					
		100		1		