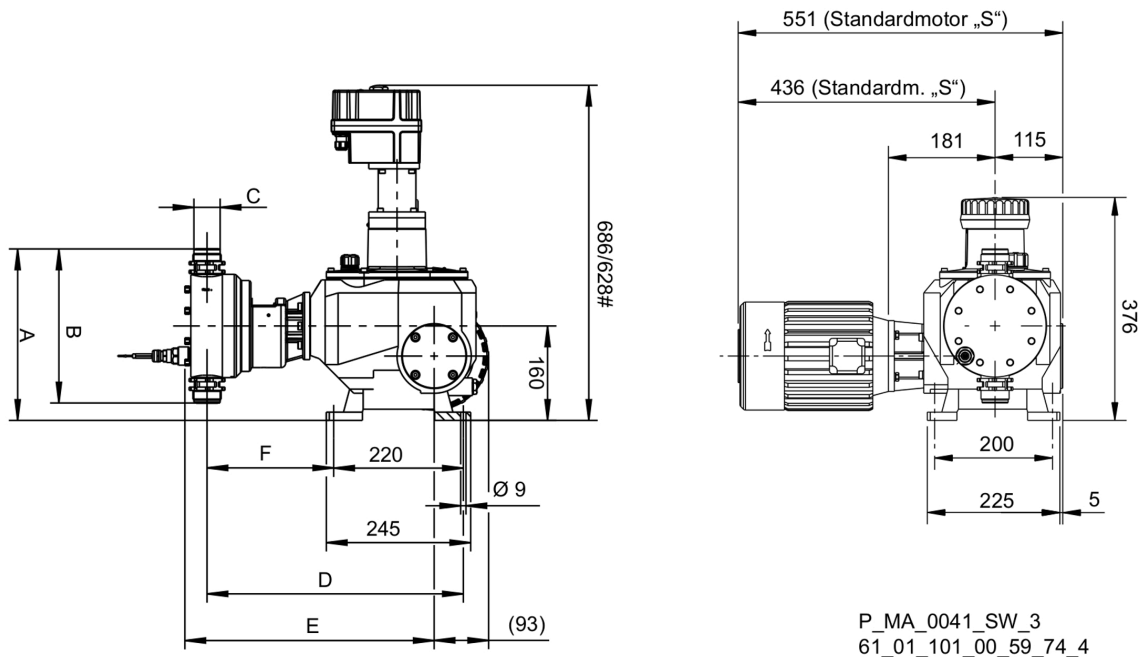


Diaphragm metering pump Makro TZ

Greater safety in continuous operation through mechanically deflected multi-layer safety diaphragm.



Exemplary representation. The dimensions depend on the configuration chosen.

The modular construction of the diaphragm metering pump MAKRO TZMb with adjustable eccentric drive mechanism and mechanically deflected multi-layer safety diaphragm enables it to be outstandingly adapted to the performance requirements of the respective application.

Technical Details

- Stroke length: 0-10 mm, Rod force: 8,000 N
- Stroke length adjustment range: 0 – 100%
- Stroke length adjustment: manually by means of scaled rotary dial in 0.5% increments (optionally with electric actuator or control drive)
- Metering reproducibility is better than $\pm 2\%$ within the 30 – 100% stroke length range under defined conditions and with correct installation. Observe the information in the operating instructions
- Patented multi-layer safety diaphragm with optical diaphragm rupture display (optionally with electrical diaphragm rupture warning system / warning via a contact)
- Wetted materials: polypropylene, PVC, PTFE+25% carbon, stainless steel 1.4571. Special materials are available on request
- A wide range of drive versions is available: three-phase standard or 1-phase AC motor, motors for use in areas at risk from explosion, different flange designs for use of customer-specific motors
- Degree of protection: IP 55
- Salt water-resistant, acrylic resin-coated cast aluminium housing
- For reasons of safety, provide suitable overload protection mechanisms during the installation of all mechanically actuated diaphragm metering pumps



Diaphragm metering pump Makro TZ

Greater safety in continuous operation through mechanically deflected multi-layer safety diaphragm.

Technical Data

Type	Capacity at max. back pressure with 1500 rpm motor at 50 Hz				Capacity at max. back pressure with 1800 rpm motor at 60 Hz				Suction lift m WC	Connector Suction/ Discharge Side G-DN	Shipping weight PP, NP, TT-SS kg
	I/h	bar	ml/stroke	Max. stroke rate Strokes/min	I/h	psi	gph (US)	Max. stroke rate Strokes/min			
120260	260	12	60	72	312	174	82	86	4.0	1 1/2-25	46/54
120340	340	12	60	96	408	174	108	115	4.0	1 1/2-25	46/54
120430	430	12	60	120	516	174	136	144	4.0	1 1/2-25	46/54
120510	510	12	60	144	622	174	164	173	4.0	1 1/2-25	46/54
120650	640	12	60	180	-	174	-	-	4.0	1 1/2-25	46/54
070430	430	7	99	72	516	100	136	86	3.5	2-32	50/64
070570	570	7	99	96	684	100	181	115	3.5	2-32	50/64
070720	720	7	99	120	864	100	228	144	3.5	2-32	50/64
070860	860	7	99	144	1,032	100	273	173	3.5	2-32	50/64
071070	1,070	7	99	180	-	100	-	-	3.5	2-32	50/64
040840	840	4	194	72	1,008	58	266	86	3.0	2 1/4-40	56/80
041100	1,100	4	194	96	1,320	58	349	115	3.0	2 1/4-40	56/80
041400	1,400	4	194	120	1,680	58	444	144	3.0	2 1/4-40	56/80
041670	1,670	4	194	144	2,004	58	529	173	3.0	2 1/4-40	56/80
042100	2,100	4	194	180	-	58	-	-	3.0	2 1/4-40	56/80

Plastic material design: max. 10 bar back pressure

The permissible priming pressure on the suction side is approximately 50% of the max. permitted back pressure

Materials in Contact with the Medium

Identity code of material	Dosing head	Connection on suction/discharge side	DN 25 ball valves			DN 32 / DN 40 plate valves		
			Seals DN 25	Valve balls	Valve seats	Seals DN 32/ DN 40	Valve plates/ valve springs	Valve seats
PCT	PVC	PVDF	PTFE	Borosilicate glass	PTFE	PTFE	Ceramic/Hastelloy C + CTFE *	PTFE
PPT	Polypropylene	PVDF	PTFE	Borosilicate glass	PTFE	PTFE	Ceramic/Hastelloy C + CTFE *	PTFE
SST	Stainless steel 1.4404	Stainless steel 1.4581	PTFE	Stainless steel 1.4401	PTFE	PTFE	Stainless steel 1.4404/Hastelloy C	PTFE
TTT	Carbon-filled PTFE	PVDF	PTFE	Ceramic	PTFE	PTFE	Ceramic/Hastelloy C + CTFE *	PTFE

* The valve spring is coated with CTFE (resistance similar to PTFE)

Multi-layer safety diaphragm with PTFE coating. Special designs available on request.