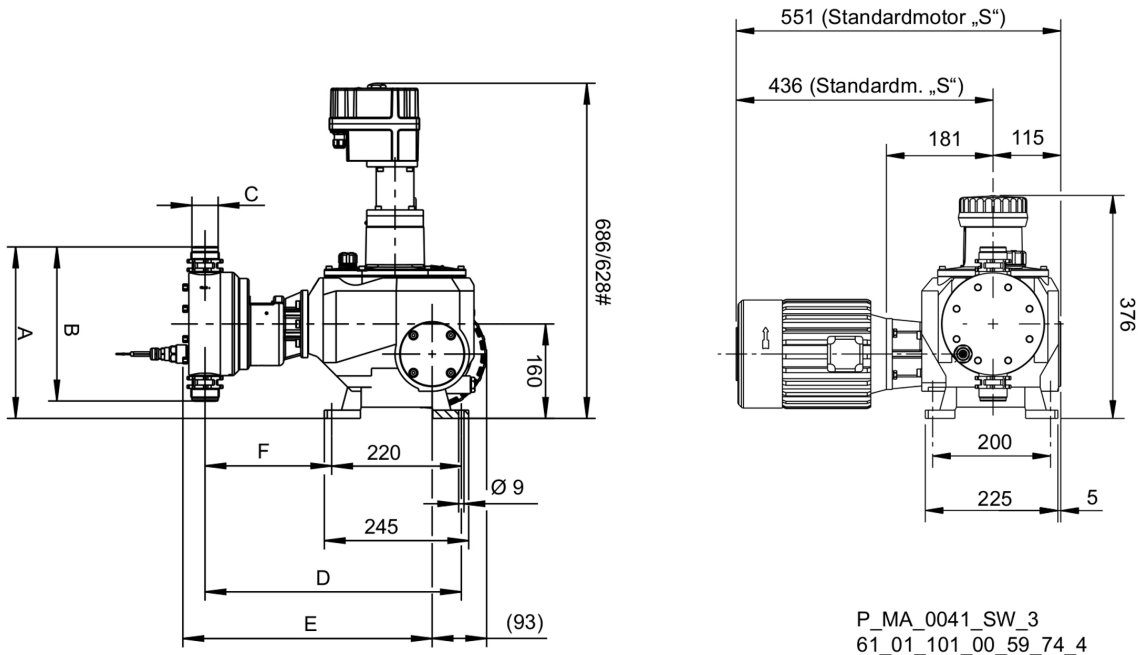


# Diaphragm metering pump Makro TZ

**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		
	l/h	bar	ml/stroke	Max. stroke rate	l/h	psi	gph (US)	Max. stroke rate			PP, NP, TT	kg	SS
				Strokes/min				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.