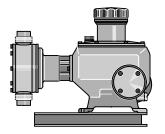
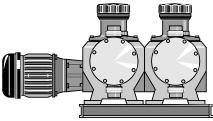
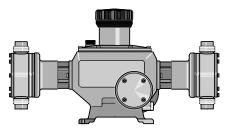
ProMinent® Makro TZ Diaphragm Metering Pumps

Overview: Makro TZ





pk_2_013



pk_2_014

Ideal for high volume and high pressure applications

(see page 135 for spare parts)

The ProMinent® Makro TZMb is a mechanically or hydraulically actuated motor driven diaphragm metering pump.

The stroke length can be adjusted by means of the shift ring mechanism from 0-10 mm (TZMb), with 0.5 % accuracy. The 5-speed gearbox is encased in a cast, seawater resistant, acrylic resin lacquered housing. Liquid ends are available in different material combinations to suit differing applications. The suction lift varies according to the density and viscosity of the medium, the dimension of the pipework and the pump stroke rate. Reproducibility of metering is better than ± 2 % in the stroke length range from 30 % -100 % subject to defined conditions and correct installation. (You must follow the instructions in the operating instruction manual).

ProMinent® Makro TZ TZMbA Add-On Pumps

The ProMinent® Makro TZ main diaphragm metering pump can be converted to a duplex or triplex pump with the ProMinent® Makro TZ add-on diaphragm pump (several add-on pumps can be operated at reduced back pressure). Multiplex pumps can also be retrofitted by the operator; all the necessary components and fittings are included with the TZMbA. Different stroke rates can be achieved with the add-on pump independently of the main pump as each TZMbA has its own reducing gear. The main power end can be fitted for this purpose with a more powerful drive motor. A base frame is required when using add-on power ends.

ProMinent® Makro TZ Double Head Version TZMbD/TZMbB

The double head version of the ProMinent® Makro TZ is similar to the simplex pump. It is, however, fitted with a second liquid end.

The liquid ends work in push-pull mode by means of a coupling element in the gearbox.

ProMinent® Makro TZ Diaphragm Metering Pumps

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ProMinent® Makro TZ Diaphragm Metering Pumps

Capacity Data (TZMbH)

	with 1800 rpm motor at 60 Hz Pump Capacity at Max. backpressure					Max. Stroke Frequency	Suc- tion Lift	Connection Suction Discharge	Shipping Weight PP, PC,
								Side	TT/SS
Pump type	gph	l/h	psi	bar	ml/	strokes/	ft (m)	in (DN)	lb (kg)
TZMbH					stroke	min.			
120260	82	312	174	12	60	86	13.1 (4)	1 (25)	101.4/119 (46/54)
120340	108	408	174	12	60	115	13.1 (4)	1 (25)	101.4/119 (46/54)
120430	136	516	174	12	60	144	13.1 (4)	1 (25)	101.4/119 (46/54)
120510	162	612	174	12	60	173	13.1 (4)	1 (25)	101.4/119 (46/54)
120650	-	-	174	12	60	-	13.1 (4)	1 (25)	101.4/119 (46/54)
070430	136	516	100	7	99	86	11.5 (3.5)	1 1/2 (32)	110.2/141 (50/64)
070570	180	684	100	7	99	115	11.5 (3.5)	1 1/2 (32)	110.2/141 (50/64)
070720	228	864	100	7	99	144	11.5 (3.5)	1 1/2 (32)	110.2/141 (50/64)
070860	272	1032	100	7	99	173	11.5 (3.5)	1 1/2 (32)	110.2/141 (50/64)
071070	-	-	100	7	99	-	11.5 (3.5)	1 1/2 (32)	110.2/141 (50/64)
040840	266	1008	58	4	194	86	9.8 (3)	2 (40)	123.5/176.4 (56/80)
041100	348	1320	58	4	194	115	9.8 (3)	2 (40)	123.5/176.4 (56/80)
041400	443	1680	58	4	194	144	9.8 (3)	2 (40)	123.5/176.4 (56/80)
041670	529	2004	58	4	194	173	9.8 (3)	2 (40)	123.5/176.4 (56/80)
042100	-	-	58	4	194	-	9.8 (3)	2 (40)	123.5/176.4 (56/80)

Stroke length 10 mm

The admissible priming pressure on the suction side is 50 % of the maximum back pressure.

Materials In Contact With Chemical In Version

			DN 25 Ball Valves			DN 32/DN 40 Plate Valves**		
	Pump Head	Suction/ Dis- charge Connector	Seals	Valve Balls	Valve Seat	Seals	Valve Plate/ Valve Spring	Valve Seat
PPT	Polypropylene	PVDF	PTFE	Ceramic	PTFE	PTFE	Ceramic/ Hast. C + CTFE**	PTFE
PCT	PVC	PVDF	PTFE	Ceramic	PTFE	PTFE	Ceramic/ Hast. C + CTFE**	PTFE
TTT	PTFE with carbon	PTFE with carbon	PTFE	Ceramic	PTFE	PTFE	Ceramic/ Hast. C + CTFE**	PTFE
SST	Stainless steel	Stainless steel	PTFE	Stainless steel	PTFE	PTFE	Stainless steel Hast. C + CTFE*	PTFE

Multi-layer safety diaphragm with PTFE coating.

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^{**} The valve spring is coated with CTFE (similar to PTFE) Custom designs available to order.