

Hydraulic Diaphragm Metering Pump Makro/ 5

Excellent feed rates in the low-pressure range



The robust hydraulic diaphragm metering pump Makro/ 5 guarantees outstanding process reliability. Its modular construction offers extremely good flexibility and a large range of drive versions are available.

Technical Details

- Stroke length: 0 – 50 mm, Rod force: 10,000 N
- Stroke length adjustment range: 0 – 100%
- Stroke length adjustment: manually by means of a manual adjustment wheel and scaled display (optionally with electric actuator or control drive)
- Metering reproducibility is better than $\pm 1\%$ within the 10 – 100% stroke length range under defined conditions and with correct installation
- PTFE multi-layer diaphragm with electrical diaphragm rupture warning system via a contact
- Integrated hydraulic relief and bleed valve
- Wetted materials: PVDF, PTFE+25% carbon, stainless steel 1.4571, special materials are available on request
- A wide range of drive versions is available: Three-phase standard motors, motors for use in areas at risk from explosion and different flange designs for use in customer-specific motors
- Degree of protection: IP 55
- Design in compliance with API 675 among others



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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	Suction/discharge side connector	Shipping weight	Plunger Ø
			Max. stroke rate				Max. stroke rate					
	l/h	bar	ml/stroke	Strokes/min	l/h	psi	gph (US)	Strokes/min				
250450	450	25	125.0	60	537	362	142	72	3.0	G 2-32	320	60
250562	562	25	125.0	75	671	362	177	89	3.0	G 2-32	320	60
250772	772	25	125.0	103	922	362	244	123	3.0	G 2-32	320	60
250997	997	25	125.0	133	1,191	362	315	159	3.0	G 2-32	320	60
251170	1,170	25	125.0	156	-	-	-	-	-	G 2-32	320	60
160616	616	16	171.2	60	736	232	194	72	3.0	G 2 1/4-40	320	70
160770	770	16	171.2	75	920	232	243	89	3.0	G 2 1/4-40	320	70
161058	1,058	16	171.2	103	1,264	232	334	123	3.0	G 2 1/4-40	320	70
161366	1,366	16	171.2	133	1,633	232	431	159	3.0	G 2 1/4-40	320	70
161602	1,602	16	171.2	156	-	-	-	-	3.0	G 2 1/4-40	320	70
120716	716	12	199.0	60	855	174	226	72	3.0	G 2 1/4-40	320	75
120895	895	12	199.0	75	1,069	174	282	89	3.0	G 2 1/4-40	320	75
121229	1,229	12	199.0	103	1,469	174	388	123	3.0	G 2 1/4-40	320	75
121588	1,588	12	199.0	133	1,898	174	501	159	3.0	G 2 1/4-40	320	75
121862	1,862	12	199.0	156	-	-	-	-	3.0	G 2 1/4-40	320	75
120919	919	12	255.3	60	1,098	174	290	72	3.0	G 2 1/4-40	320	85
121148	1,148	12	255.3	75	1,372	174	362	89	3.0	G 2 1/4-40	320	85
121577	1,577	12	255.3	103	1,885	174	498	123	3.0	G 2 1/4-40	320	85
122037	2,037	12	255.3	133	2,435	174	643	159	3.0	G 2 1/4-40	320	85
122389	2,389	12	255.3	156	2,856	-	754	-	3.0	G 2 1/4-40	320	85
101345	1,345	10	374.0	60	1,607	145	425	72	3.0	G 2 3/4-50	330	100
101680	1,680	10	374.0	75	2,008	145	530	89	3.0	G 2 3/4-50	330	100
102310	2,310	10	374.0	103	2,761	145	729	123	3.0	G 2 3/4-50	330	100
102980	2,980	10	374.0	133	3,562	145	941	159	3.0	G 2 3/4-50	330	100
103500	3,500	10	374.0	156	-	-	-	-	3.0	G 2 3/4-50	330	100
062305 *	2,305	6	641.0	60	2,755	87	728	72	3.0	Flange-65	330	130
062880 *	2,880	6	641.0	75	3,443	87	910	89	3.0	Flange-65	330	130
063960 *	3,960	6	641.0	103	4,734	87	1,251	123	3.0	Flange-65	330	130
065110 *	5,110	6	641.0	133	6,108	87	1,614	159	3.0	Flange-65	330	130
066000 *	6,000	6	641.0	156	-	-	-	-	3.0	Flange-65	330	130

* SST design with G 2 1/2"

PPT/PCT/TTT material version max. 10 bar

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Materials in Contact with the Medium

Identity code of material	Dosing head	Connection on suction/ discharge side	DN 32 - DN 65 seals	Valve plates/valve springs	Valve seats
SST	Stainless steel 1.4571/1.4404	Stainless steel 1.4571/1.4404	PTFE	Hastelloy C	PTFE
PCT	PVC	PVC	PTFE	Hastelloy C	PTFE
PPT	Polypropylene	Polypropylene	PTFE	Hastelloy C	PTFE
TTT	Carbon-filled PTFE	Carbon-filled PTFE	PTFE	Hastelloy C	PTFE

Patented multi-layer diaphragm, vacuum-packed

Special designs available on request

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