

Hydraulic Diaphragm Metering Pump Orlita® MH

Reliable capacity even at very high pressure

ProMinent®



Capacity range of single pump: up to 800 l/h, up to 700 bar

ORLITA® MH hydraulic diaphragm metering pumps (MHS 18 to MHS 1400) with a stroke length of 15 to 60 mm provide a capacity range of up to 800 l/h at pressures of up to 7 bar. A wide range of power end versions is available for use in areas at risk from explosion with ATEX certification. The Orlita® MH

product range is designed to comply with API 675. Its modular construction permits the free combination of drives, power ends and dosing heads, producing a pump for a range of different feed rates and media operating at different working pressures.

Your benefits

Excellent process safety and reliability:

- Metal double diaphragm with integrated diaphragm rupture warning system ensures precise and low-wear operation even at very high pressure
- The product chamber is hermetically separated from the hydraulic part
- Integrated hydraulic relief valve and automatic bleed valve for the hydraulic chamber

- Wear-free, valveless enforced anti-cavitation of the hydraulic leakage guarantees optimum dosing precision
- Cone valves for use as suction and/or discharge valves with minimal wear, good self-cleaning and low pressure loss (NPSHR)

Excellent flexibility:

- It is possible to combine up to 6 metering units, even with different pump capacities, in multiple pump systems

Field of application

- Oil/ gas production (onshore/offshore)
- Chemical/Petrochemical industry
- Pharmaceuticals & cosmetics
- Food production
- Packaging industry (bottling pumps)

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Technical Data

Pump type	Plunger Ø	Theor. stroke volume	Max. capacity (theo.) in l/h at strokes/min (50 Hz)						Max. pressure
			58	73	91	112	145	207	
	mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	bar
MHS 18/	3	0.11	0.37	0.46	0.58	0.71	0.92	1.32	100
MHS 18/	5	0.29	1	1.2	1.6	1.9	2.5	3.6	400
MHS 18/	6	0.42	1.4	1.8	2.3	2.8	3.6	5.2	400
MHS 18/	7	0.58	2	2.5	3.1	3.8	5	7.1	400
MHS 18/	8	0.75	2.6	3.2	4.1	5	6.5	9.3	348
MHS 18/	10	1.18	4.1	5.1	6.4	7.8	10.2	14.6	222
MHS 18/	12	1.70	5.9	7.3	9.2	11.3	14.7	21	154
MHS 18/	16	3.02	10.5	13.1	16.4	20.1	26.2	37.4	87
MHS 18/	20	4.71	16.4	20.5	25.5	31.5	41	58.5	55

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			58	73	91	112	145	207	
	mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	bar
MHS 35/	7	0.77	2.6	3.3	4.1	5.1	6.7	9.5	900
MHS 35/	8	1.01	3.5	4.3	5.4	6.7	8.7	12.4	630
MHS 35/	10	1.57	5.4	6.8	8.5	10.5	13.6	19.5	445
MHS 35/	12	2.26	7.8	9.8	12.3	15.1	19.6	28.1	309
MHS 35/	14	3.08	10.7	13.3	16.7	20.6	26.7	38.2	227
MHS 35/	16	4.02	13.9	17.4	21.8	26.9	34.9	49.9	174
MHS 35/	18	5.09	17.7	22.1	27.6	34.0	44.2	63.2	137
MHS 35/	20	6.28	21.8	27.3	34.1	42.0	54.6	78.0	111
MHS 35/	22	7.60	26.4	33.0	41.3	50.8	66.1	94.4	92
MHS 35/	25	9.80	34.1	42.7	53.3	65.7	85.4	122.0	71
MHS 35/	36	20.36	70.8	88.5	110.6	136.2	177.1	253.0	34
MHS 35/	40	25.13	87.4	109.3	136.6	168.2	218.6	312.3	27
MHS 35/	45	31.81	110.6	138.3	172.9	212.8	276.7	395.3	22

Pump type	Plunger Ø	Theor. stroke volume	Max. capacity (theo.) in l/h at strokes/min (50 Hz)						Max. pressure
			98	104	122	134	160	182	
	mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	bar
MHS 80/	16	4.02	23.6	25.0	29.4	32.4	38.6	43.9	696
MHS 80/	18	5.09	29.9	31.7	37.2	41.0	48.8	55.5	550
MHS 80/	20	6.28	37.0	39.1	46.0	50.6	60.3	68.5	445
MHS 80/	22	7.60	44.7	47.4	55.6	61.3	73.0	82.9	368
MHS 80/	25	9.82	57.8	61.2	71.9	79.1	94.2	107.1	285

Pump type	Plunger Ø	Theor. stroke volume	Max. capacity (theo.) in l/h at strokes/min (50 Hz)						Max. pressure
			99	117	134	156	173	204	
	mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	bar
MHS 600/25,5	25.5	20.43	121	143	164	191	211	249	783
MHS 600/28	28	24.63	146	172	198	230	255	300	649
MHS 600/30	29.2	26.79	159	188	215	250	277	327	570
MHS 600/32	32	32.17	191	225	258	301	333	393	497

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			93	106	125	143	169	191	
	mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	bar
MHS 1400/	30	42.41	235	270	318	364	431	486	848
MHS 1400/	32	48.25	268	307	362	414	490	553	746
MHS 1400/	36	61.07	339	388	458	524	620	700	589
MHS 1400/	40	75.40	419	480	565	647	766	864	477

Important note:

Abridged presentation of our complete product range. Other types on request