

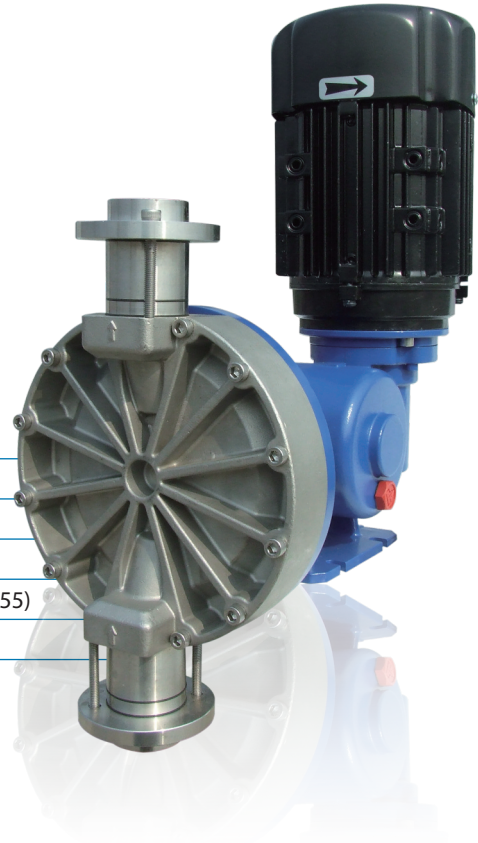
MS1 Series

Mechanical Diaphragm Metering pumps

MS1 pumps are mechanical diaphragm metering pumps featuring a spring return mechanism in an aluminium housing.

FEATURES

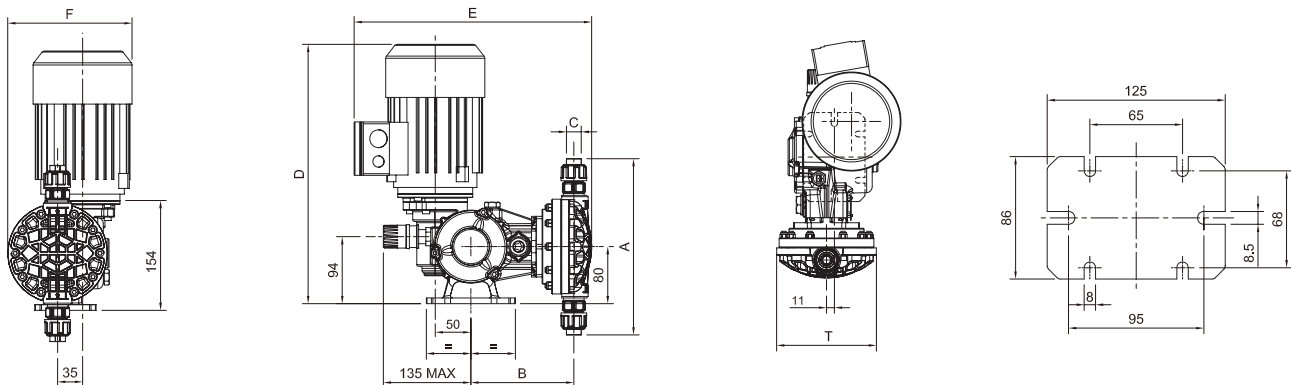
■ FLOW RATE	from 5,5 to 1,200 L/h
■ MAX PRESSURE	10 bar
■ STROKE RATE	58-78-116-232 strokes/minute
■ DIAPHRAGM DIAMETER	from 64 to 165 mm
■ MOTOR	standard 0.18-0.25-0.37-0.55 Kw (IP 55)
■ STROKE LENGTH	2 mm – 4 mm – 6 mm



TECHNICAL FEATURES

MODEL	DIAPHRAGM DIAMETER [mm]	STROKE LENGTH [mm]	STROKES RATE [Strokes/min]	FLOW RATE [L/h]	MAX PRESSURE [bar]		CONNECTIONS		MOTORS [kW]	WEIGHT [Kg]		CARTON SIZE (LxWxH) (mm)
					SS316L	PVC/PP PVDF	SS316L	PVC/PP PVDF		SS316L	PVC/PP PVDF	
MS1A064A	64	2	58	5,5	10	10	1/4 GF	1/4 GF DN15	0.18(A)	15	13	430x280x530
MS1A064B			78	8								
MS1A064C			116	11								
MS1A094A	94		58	20			3/8 GF	3/8 GF DN15	0.25(B)	16	14	
MS1A094B			78	26								
MS1A094C			116	40								
MS1B108A	108	4	58	60	7	7	3/4 GF	3/4 GF	0.37(C)	23	18	590x400x550
MS1B108B			78	80								
MS1B108C			116	120								
MS1C138A	138	6	58	155	5	5	1"GF	1"GF	0.55(W)	27	21	
MS1C138B			78	220								
MS1C138C			116	310								
MS1C165A	165		58	230	4	4	0.55(W)	25	20			
MS1C165B			78	330								
MS1C165C			116	530								
MS1C138Q	138		232	750	4.5	4.5				29	23	
MS1C165Q	165		232	1,200	2	2						

DIMENSIONAL DRAWINGS



LIQUID END MATERIAL	PLUNGER DIAMETER [mm]	A [mm]	B [mm]	C [BSP]	T [mm]	THREE-PHASE					SINGLE-PHASE				
						MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]	MOTORS [kw]	MOTOR SIZE	D [mm]	E [mm]	F [mm]
SS316L (21)	64	192	144	1/4" f	98	0.18	63 B14	333	321	146	0.25	71 B14	371	343	155
	94	172	146	3/8" f	118	0.25			335	165	0.37			346	165
	108	213	148		138		71 B14	371	337	175				379	184
	138	261	158	3/4" f-1" f	168	0.37			352	190	0.55	80 B14	396	394	199
	165	297	165	1" f	188				372	200				414	209
PVC (31) PVDF (41) PP (51)	64	239	149	1/4" f	98	0.18	63 B14	333	326	146	0.25	71 B14	371	348	155
	94	242	144	3/8" f	124	0.25			340	168	0.37			351	168
	108	250	147		142		71 B14	371	343	177				385	186
	138	347	159	3/4" f-1" f	166	0.37			364	189	0.55	80 B14	396	406	198
PVC (31), PVDF (41), PP (51)	165	375	172	1" f	195				372	214				414	223

	STANDARD			
	21/24	31/34	41/44	51/54
PUMP HEAD	SS316L	PVC	PVDF	PP
DIAPHRAGM	PTFE			
SEAL	FPM/EPDM			
VALVES	Ceramic			
VALVE SEATS	SS316L	PTFE	PVDF	PP

OPTIONAL FEATURES

Every pump can be equipped with frequency-conversion motor or explosion-proof motor or electric actuator which accepts 4÷20mA signal.

PUMP IDENTIFICATION

M	S1	A	064	B	51	A4/CS/CX	060
- OPTIONAL - MOTOR(A4:standard; CS: inverter; CX: explosive) - PUMP HEAD MATERIALS - STROKES - DIAPHRAGM DIAMETER - STROKE LENGTH - MECHANISM TYPE - MODEL							