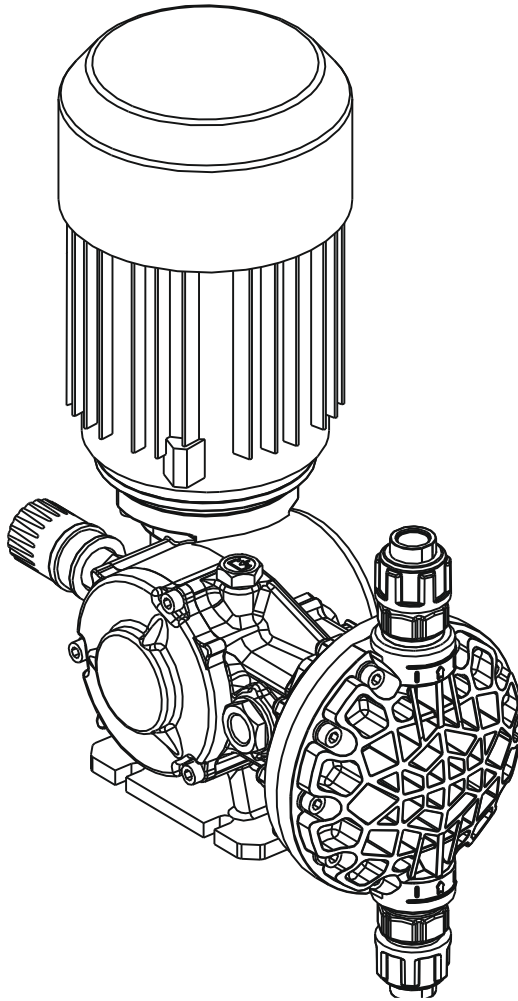




TECHNICAL CHARACTERISTICS

- Flow rates: from 5.5 to 500 l/h
- Max Pressure: up to 16 bar (232 psi)
- Motor:
 - 0.18 kW - 3 ph (IP55)
 - 0.25 kW - 1 ph (IP55)
 - 0.37 kW - 3 ph or 1 ph (IP55)
 - 0.55 kW - 1 ph (IP55)
- Stroke rate: 58 – 78 – 116 strokes/minute
- Stroke length: 2 – 4 – 6 mm
- Diaphragm diameter: from 64 to 165 mm
- Pump head:
 - SS 316 L
 - PP
 - PVC
 - PVDF
- Max. dosing temperature:
 - SS 316 L 40° C
 - PP 40° C
 - PVC 40° C
 - PVDF 40° C
- Range of ambient temperature of use:
 - 5 ÷ 40° C

Seko mechanical diaphragm pump **MS1 Series** has a wide range product. MS1 Series performances cover a range from 5.5 to 500 l/h with a back pressure up to 10 bar (in standard configuration, 16 bar for 064 and 094 models in “ENFORCED” configuration) having several configurations available for the pump head and power, in order to have the characteristics most suitable for processes where required.

MS1pumps have a spring return mechanism into an aluminum housing.

Each model has 3 values of stroke rate, which can be set manually or automatically using a linear actuator which accepts a signal 4 – 20 mA. Moreover, they can be supplied with 3 phases or 1 phase electric motor with protection class IP55.

DOSING PUMP

SPRING SERIES – MS1 – Mechanical diaphragm pump



PUMP KEY CODE

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
M	S1	B	094	A	51	C4	0	0	0

Field 1	model	←
Field 2	mechanism family	←
Field 3	stroke length	←
Field 4	diaphragm diameter	←
Field 5	stroke rate	←
Field 6	pump head material	←
Field 7	electric motor type	←
Field 8	stroke regulation	←
Field 9	customization	←
Field 10	optional	←

Field 1	model	M	Diaphragm
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Field 2	mechanism family	S1	Membrane
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Field 3	stroke length	A	2 [mm]
		B	4
		C	6

Field 4	diaphragm diameter	064	64 [mm]
		094	94
		108	108
		138	138
		165	165

Field 5	stroke rate	A	58 [stroke/1']
		B	78
		C	116

Field 6	pump head material		head	diaphragm	valves	seat valves	O-Ring	
		21	SS316	PTFE	SS316	SS316	FPM	on Ø 64
		31	PVC		CERAMIC	PTFE	FPM	on Ø 94 - 108
		51	PP		CERAMIC	PTFE	FPM	on Ø 94 - 108
		24	SS316	PTFE	SS316	SS316	EPDM	on Ø 64
		41	PVDF		CERAMIC	PTFE	FPM	on Ø 94 - 108
		52	PP		SS316	SS316	FPM	on Ø 94 - 108

Field 7	electric motor type	A4	0,18 kW	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 63-B14)
		C4	0,37 kW	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B14)
		H4	0,25 kW	(4 poles - 1phase 230 Vac 50 Hz - size 71-B14)
		L4	0,55 kW	(4 poles - 1phase 230 Vac 50 Hz - size 80-B14)
		AI	0,18 kW	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 63-B14 - with INVERTER)
		CI	0,37 kW	(4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B14 - with INVERTER)
		S0	WITHOUT motor	

Field 8	stroke regulation	0	Manual with adjustment knob - STANDARD
		L	Automatic Linear Actuator AKTUA series

Field 9	customization	0	Standard
		H	High Pressure

Field 10	optional	0	Standard
		2	(S0 - WITHOUT motor) + adapter kit

DOSING PUMP

SPRING SERIES – MS1 – Mechanical diaphragm pump

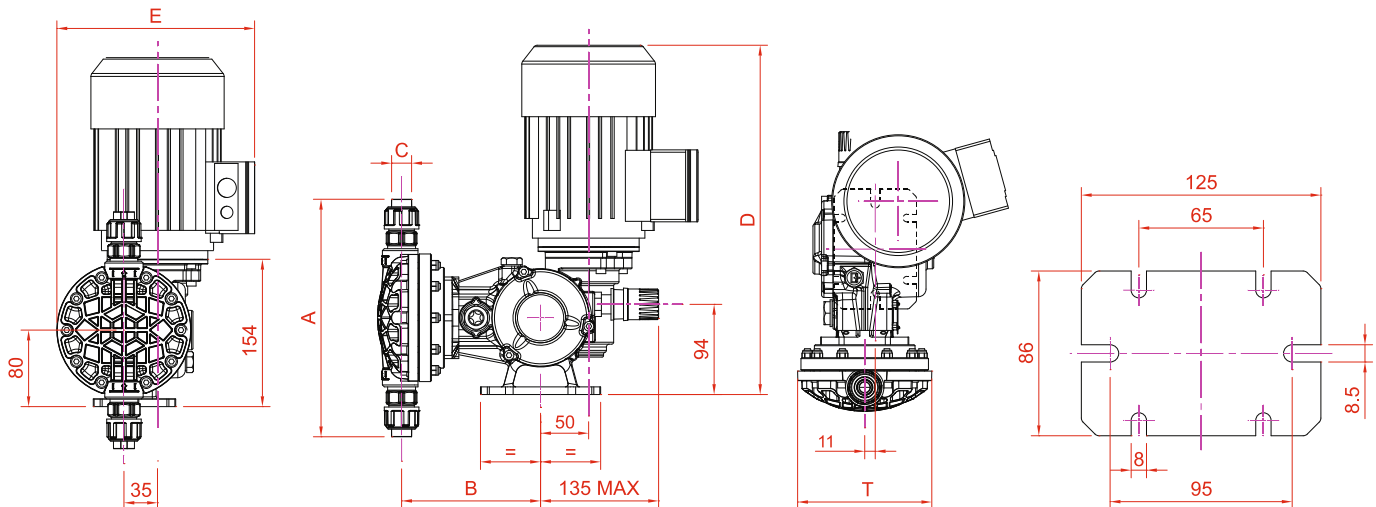


HYDRAULIC CHARACTERISTICS

Pump Model	Ø Diaph. [mm]	Stroke/min	Flow rate		Max back pressure						Suction/Discharge Connection		Electric Motor 50 Hz 3 phases [kW]
					bar			p.s.i.					
			l/h	gl/h	SS 316	PP/ PVC	PVDF	SS 316	PP/ PVC	PVDF	SS 316	PP/ PVC	
M S 1 A 0 6 4 A	64	58	5.5	1.45	16	10*	12*	232	145*	174*	1/4" G F	1/4" G F	0,18 (A4)
M S 1 A 0 6 4 B		78	8	2.12									
M S 1 A 0 6 4 C		116	11	2.91									
M S 1 A 0 9 4 A	94	58	20	5.59	16	10*	12*	232	145*	174*	3/8" G F	3/8" G F	0,18 (A4)
M S 1 A 0 9 4 B		78	26	6.88									
M S 1 A 0 9 4 C		116	40	10.58									
M S 1 B 1 0 8 A	108	58	60	15.87	10	10	10	145	145	145	3/8" G F	3/8" G F	0,18 (A4)
M S 1 B 1 0 8 B		78	80	21.16									
M S 1 B 1 0 8 C		116	120	31.75									
M S 1 C 1 3 8 A	138	58	155	41	7	7	7	101	101	101	3/4" G F	3/4" G F	0,37 (C4)
M S 1 C 1 3 8 B		78	220	58.2							1" G F	1" G F	
M S 1 C 1 3 8 C		116	310	82							1" G F	1" G F	
M S 1 C 1 6 5 A	165	58	230	60.85	5	5	5	72.5	72.5	72.5	1" G F	1" G F	0,37 (C4)
M S 1 C 1 6 5 B		78	330	87.30									
M S 1 C 1 6 5 C		116	500	132.3	3	3	3	43.5	43.5	43.5			

* Available with special reinforced pump head for use with pressure up to 16 bar - 14" Field (Optional) in the Key Code identified by "H"

DIMENSIONS



Materiale testata Liquid end material	Diametro membrana Diaphragm diameter	A[mm]	B[mm]	C (BSP)	T[mm]	Three phase motor				Single phase motor			
						Motore 4P Motor 4P [kW]	Gr. motore Motor Size	D [mm]	E [mm]	Motore 4P Motor 4P [kW]	Gr. motore Motor Size	D [mm]	E [mm]
AISI 316 (21)	65	192	144	1/4" f	98	0.18	63 B14	333	146	0.25	71 B14	371	155
	94	172	146	3/8" f	118	0.18	63 B14	333	156	0.25	71 B14	371	165
	108	213	148	3/8" f	138	0.18	63 B14	333	166	0.25	71 B14	371	175
	138	261	158	3/4" f - 1" f	168	0.37	71 B14	371	190	0.55	80 B14	396	199
	165	297	165	1" f	188	0.37	71 B14	371	200	0.55	80 B14	396	209
PP (51) PVC (31) PVDF (41)	65	239	149	1/4" f	98	0.18	63 B14	333	146	0.25	71 B14	371	155
	94	242	144	3/8" f	124	0.18	63 B14	333	159	0.25	71 B14	371	168
	108	250	147	3/8" f	142	0.18	63 B14	333	168	0.25	71 B14	371	177
	138	347	159	3/4" f - 1" f	166	0.37	71 B14	371	189	0.55	80 B14	396	198
	165	375	172	1" f	195	0.37	71 B14	371	214	0.55	80 B14	396	223

Your Choice,
Our Commitment

DOSING PUMP
SPRING SERIES – MS1 – Mechanical diaphragm pump

