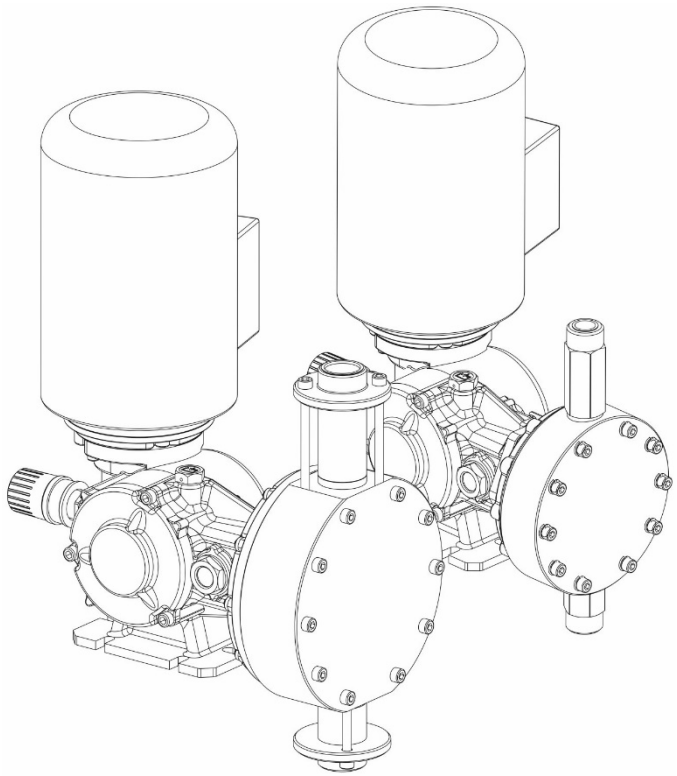
DOSING PUMP

SPRING SERIES – MS1_HV – Mechanical diaphragm pump



Technical characteristics

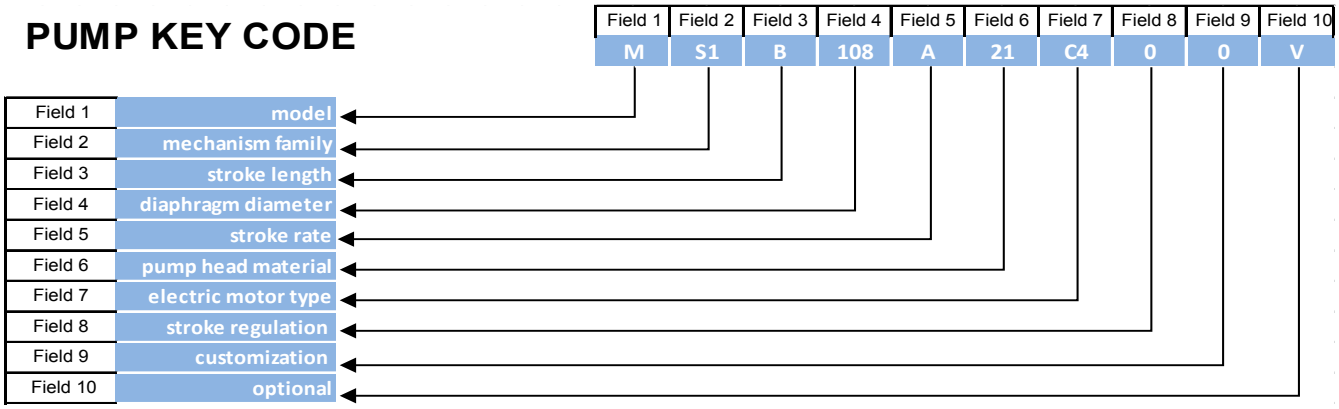
- Flow rates: from 60 to 155 l/h
- Max Pressure: up to 10 bar (145 psi)
- Motor:
  - 0.37 kW - 3 ph (IP55)
  - 0.55 kW - 1 ph (IP55)
- Stroke rate: 58 strokes/1'
- Stroke length: 4 – 6 mm
- Diaphragm diameter: 108 and 138 mm
- Viscosity reference: 2000 cPs
- Pump head: SS 316 L
- Max. dosing temperature: 40˚ C
- Range of ambient temperature of use:
  - 5 ÷ 40˚ C

Seko MS1 High Viscosity Series is a specific product for the dosing of liquids with viscosity values impossible to be dosed with the MS1 Series standard. High Viscosity Series performances cover from 60 to 155 l/h with a back pressure up to 10 bar. When the viscosity of chemicals reaches 2000 cPs, the flow rate remain the same as that of standard, but when the viscosity reaches 4000 cPs, the flow rate will drop by 50% than that of standard pump head.

As we other models, MS1 High Viscosity Series have a spring return mechanism into an aluminum housing.

Each model has 1 value 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 a 3 phases or 1 phase electric motor with protection class IP55.

PUMP KEY CODE



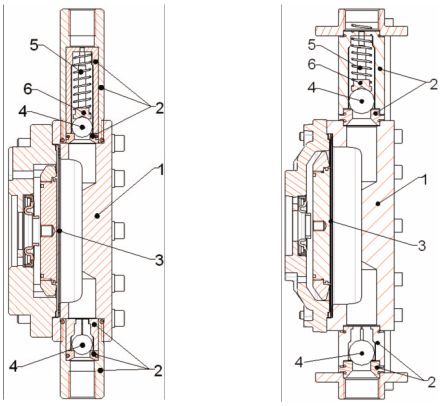
Field 1	model	**M**	***Diaphragm***
Field 2	mechanism family	**S1**	*Membrane*
Field 3	stroke length	**B**	*4 [mm]*
		C	*6*
Field 4	diaphragm diameter	**108**	*108 [mm]*
		138	*138*
Field 5	stroke rate	**A**	*58 [stroke/1']*

Field 6	pump head material		*head*	*diaphragm*	*valves*	*seat valves*	*seal*
		21	SS316	PTFE	SS316	SS316	FPM

Field 7	electric motor type	**C4**	*0,37 kW (4 poles - 3phases 230-400 Vac 50/60 Hz - size 71-B14)*
		L4	*0,55 kW (4 poles - 1phase 230 Vac 50 Hz - size 80-B14)*
		S0	*WITHOUT motor*
Field 8	stroke regulation	**0**	*Manual with adjustment knob - STANDARD*
		L	*Automatic Linear Actuator AKTUA series*
Field 9	customization	**0**	*Standard*
Field 10	optional	**V**	*High Viscosity*

DOSING PUMP

SPRING SERIES – MS1_HV – Mechanical diaphragm pump



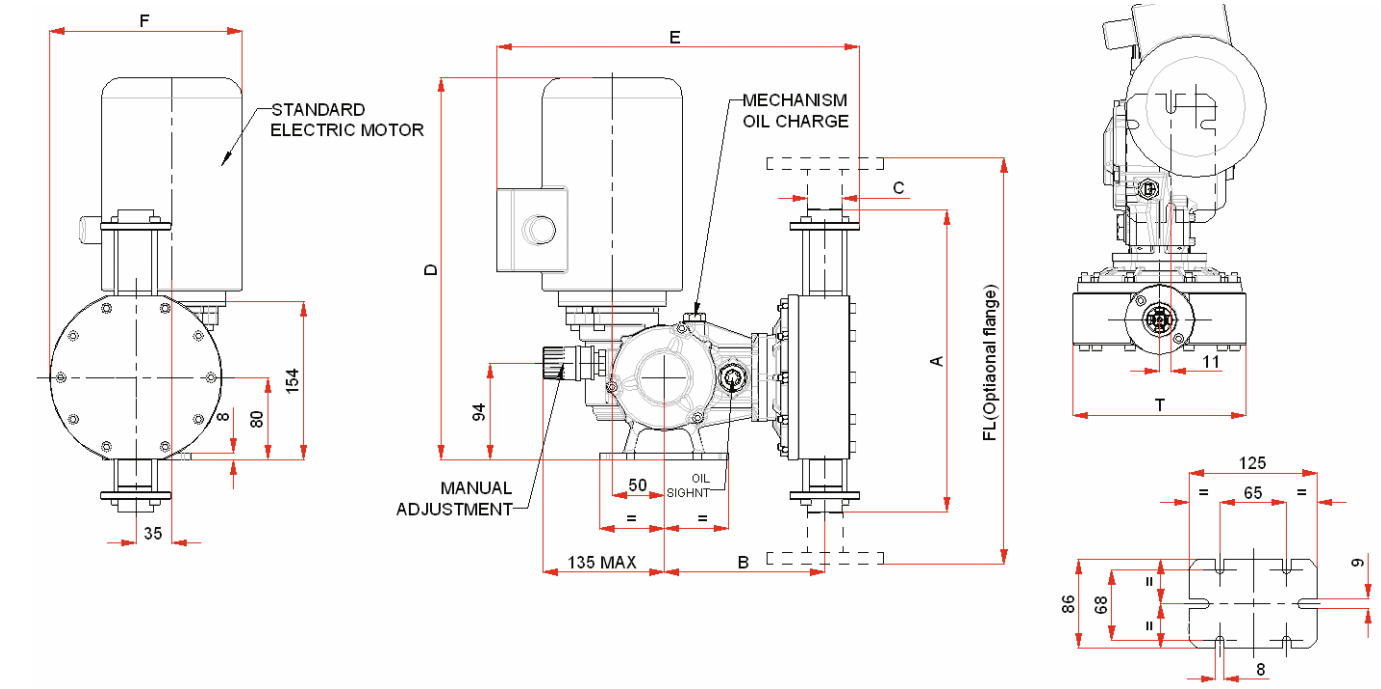
1	Pump body	SS316L
2	Valve body	SS316L
3	Diaphragm	PTFE
4	Balls	SS316L
5	Spring	SS316L
6	Ball guide	SS316L
	Seal	FPM

HYDRAULIC CHARACTERISTICS

Pump Model	Diaphragm Diameter [mm]	Stroke/min	Flow rate		*Max back pressure*		*Viscosity reference* *	*Suction/ Discharge Connection*	Electric Motor 50 Hz [kW]	
			l/h	gl/h	bar	p.s.i.	cPs		3phases	1phase
M S 1 B 1 0 8 A	108	58	60	15.87	10	145	2000	3/8" G F	0,37	0.55
M S 1 C 1 3 8 A	138	58	155	41	7	101	2000	3/4" G F	0,37	0.55

** When the viscosity of chemicals reaches 2000 cPs, the flow rate remain the same as that of standard, but when the viscosity reaches 4000 cPs, the flow rate will drop by 50% than that of standard pump head.*

DIMENSIONS



Material Pump Head	Pump Model	DIMENSIONS [mm]					3 PHASE				
		A mm	FL mm	B mm	C	T mm	kW	Size	D mm	E mm	F mm
SS316L	**MS1B108A21C400V**	245	345	148	3/8" G F	138	0.37	71-B14	371	337	175
	MS1C138A21C400V	293	393	158	3/4" G F	168	0.37	71-B14	371	352	190