

## Spring MS1 AVS

### Spring-return diaphragm pump with Assisted Vacuum System®

- Flow rate range: 450 - 1,200 l/h, up to 4.5 bar
- Wetted parts: SS316L, PVC, PP, PVDF, PTFE, FPM, EPDM and Ceramic
- The AVS (Assisted Vacuum System®) is a technical solution patented by SEKO that helps overcome the typical functional limitations of pumps with a spring return. Using this mechanism allows pump performance to be improved by allowing dosing frequency to be raised (stroke/min) without compromising diaphragm lifespan.
- Thanks to AVS, Spring MS1 AVS can reach a flow rate of 1,200 l/h while keeping noise and mechanical stress at a reduced level. Each model can be configured with two different stroke rates and is supplied with a three-phase 2-pole electric motor with IP55 protection.



### Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections	Motor [kW/pole]	Weight [kg]		Packing size L x W x H [mm]
								SS316L	Other	
MS1C138H**W2000	138	6	156	450	4.5	BSPF 1"	0.55/2 (W2)	18.5	12.5	520 x 350 x 590
MS1C138Q**W2000			232	750				18.5	12.5	
MS1C165Q**W2000	165	232	1,200	2	22.0			13.5		

# Spring MS1 AVS key code

Model									
M	Diaphragm pump								
<b>Mechanism type</b>									
	S1	Spring return							
<b>Stroke length [mm]</b>									
		C	6						
<b>Diaphragm diameter [Ø mm]</b>									
			138	138					
			165	165					
<b>Stroke/1'</b>									
			H	156	18:1				
			W	232	12:1				
<b>Pump head</b>									
				Body	Balls	Diaphragm	Seat	O-Ring	
			21	SS316L	SS316L	PTFE	SS316L	FPM	
			24	SS316L	SS316L	PTFE	SS316L	EPDM	
			31	PVC	Ceramic	PTFE	PTFE	FPM	
			34	PVC	Ceramic	PTFE	PTFE	EPDM	
			41	PVDF	Ceramic	PTFE	PTFE	FPM	
			44	PVDF	Ceramic	PTFE	PTFE	EPDM	
			51	PP	Ceramic	PTFE	PTFE	FPM	
			54	PP	Ceramic	PTFE	PTFE	EPDM	
<b>Motor type</b>									
				kW	Supply		Size		
			S0		Without motor				
			W2	0.55 - 3ph	230 - 400 Vac, 50/60 Hz		71-B14		
			Y2	0.55 - 1ph	230 Vac, 50 Hz		71-B14		
<b>Stroke regulation</b>									
			0	Manual with adjustment knob					
			L	Automatic with linear actuator of Aktua series					
<b>Customisation</b>									
			0	Standard					
<b>Optional</b>									
			A	AVS - Assisted Vacuum System®					
M	S1	C	165	W	51	W2	0	0	A