

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 | |
| MSIC138H**W2000 | 138 | 6 | 156 | 450 | 4.5 | BSPF 1" | 0.55/2 (W2) | 18.5 | 12.5 | 520 x 350 x 590 |
| MSIC138Q**W2000 | | | 232 | 750 | | | | 18.5 | 12.5 | |
| MSIC165Q**W2000 | 165 | | 232 | 1,200 | 2 | | | 22.0 | 13.5 | |

Spring MS1 AVS key code

| Model | | | | | | | | | |
|---------------------------|--|-------------------------|-----------|--------|--------|----|---|---|---|
| M | Diaphragm pump | | | | | | | | |
| Mechanism type | | | | | | | | | |
| S1 | Spring return | | | | | | | | |
| Stroke length [mm] | | | | | | | | | |
| C | 6 | | | | | | | | |
| Diaphragm diameter [Ø mm] | | | | | | | | | |
| 138 | 138 | | | | | | | | |
| 165 | 165 | | | | | | | | |
| Stroke/1' | | Ratio | | | | | | | |
| H | 156 | 18:1 | | | | | | | |
| W | 232 | 12:1 | | | | | | | |
| Pump head | 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 | | | | |
| Motor type | 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 | | | | | |
| Stroke regulation | | | | | | | | | |
| 0 | Manual with adjustment knob | | | | | | | | |
| L | Automatic with linear actuator of Aktua series | | | | | | | | |
| Customisation | | | | | | | | | |
| 0 | Standard | | | | | | | | |
| Optional | | | | | | | | | |
| A | AVS - Assisted Vacuum System® | | | | | | | | |
| M | S1 | C | 165 | W | 51 | W2 | 0 | 0 | A |

