## Soft start/quick exhaust valve MS6(N)-SV Part number: 548713

**FESTO** 



## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

Size   6   6	Feature	Value
With dimension  5afety function  Exhausting Prevention of unexpected start-up (pressurization)  Note on forced dynamization  Structural design  Piston gate valve Piston seat  Actuation type  Electrical  Pilot air supply port  Internal  Sealing principle  Soft  Without flow control option  Manual override  Manual override  At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, self-resetting At pilot control air solenoid v	Series	MS
Safety function  Exhausting Prevention of unexpected start-up (pressurization)  Switching frequency at least once a month  Structural design  Piston gate valve Piston seat  Actuation type  Electrical  Pilot air supply port  Internal  Sealing principle  Soft  Exhaust air function  Manual override  Manual override  Manual override  Actuation type  Reset method  Mechanical spring  Type of control  Without flow control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot-control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, self-resetting At pilot control air solenoid valve: non-detenting, self-resetting At pilot control air solenoid valve: non-	Size	6
Prevention of unexpected start-up (pressurization)   Note on forced dynamization   Switching frequency at least once a month	Width dimension	62 mm
Piston gate valve   Piston seat	Safety function	
Piston seat  Actuation type  Electrical  Pilot air supply port  Sealing principle  Exhaust air function  Manual override  Manual override  Manual override  Manual override  Manual override  At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resetting  Reset method  Mechanical spring  Type of control  Pilot-controlled  Valve function  3/2, closed, monostable Pressure build-up function  Operating pressure  3 bar 10 bar  61/4 prepared 61/8 prepared 61/8 prepared Red-green scale with pressure sensor with LCD display with pressure sensor with switching indicator with pressure gauge  Standard nominal flow rate  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.8 W	Note on forced dynamization	Switching frequency at least once a month
Internal	Structural design	
Sealing principle Exhaust air function  Manual override  Manual override  Manual override  Manual override  None At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resetting  Reset method  Mechanical spring  Type of control  Pilot-controlled  3/2, closed, monostable Pressure build-up function  Operating pressure  3 bar 10 bar  Pressure gauge  G1/4 prepared G1/8 prepared G1/8 prepared Red-green scale with pressure sensor with LCD display with pressure sensor with pressure gauge  Standard nominal flow rate  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.5 W	Actuation type	Electrical
Exhaust air function  Manual override  Manual override  Manual override  Manual override  At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resetting  Reset method  Mechanical spring  Type of control  Walve function  3/2, closed, monostable Pressure build-up function  Operating pressure  3 bar 10 bar  G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with pressure sensor with LCD display with pressure sensor with switching indicator with pressure supposed  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Pilot air supply port	Internal
Manual override  At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resetting  Reset method  Mechanical spring  Type of control  Pilot-controlled  Valve function  3/2, closed, monostable Pressure build-up function  Operating pressure  3 bar 10 bar  G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with LCD display with pressure sensor with LCD display with pressure sensor with switching indicator with pressure gauge  Standard nominal flow rate  4300 l/min 5700 l/min  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Sealing principle	Soft
At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resettling At pilot control air solenoid valve: non-detenting, detenting, at soft start/quick exhaust valve: detenting, self-resettling Reset method Mechanical spring Type of control Pilot-controlled Valve function 3/2, closed, monostable Pressure build-up function Operating pressure 3 bar 10 bar Pressure gauge G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with pressure sensor with pressure sensor with LCD display with pressure gauge Standard nominal flow rate Duty cycle 100% Signal status display LED Floating contact Switching outputs Via AS-i Coil characteristics 110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Exhaust air function	Without flow control option
Pilot-controlled  Valve function  3/2, closed, monostable Pressure build-up function  3 bar 10 bar  Pressure gauge  G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with pressure sensor with pressure gauge  Standard nominal flow rate  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.5 W	Manual override	At pilot control air solenoid valve: non-detenting, at soft start/quick exhaust valve: detenting, self-resetting At pilot control air solenoid valve: non-detenting, detenting, at soft
Valve function  3/2, closed, monostable Pressure build-up function  3 bar 10 bar  G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with pressure sensor with pressure sensor with pressure sensor with pressure gauge  Standard nominal flow rate  4300 l/min 5700 l/min  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.5 W	Reset method	Mechanical spring
Pressure build-up function  3 bar 10 bar  Pressure gauge Pressure gauge G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with pressure sensor with LCD display with pressure sensor with switching indicator with pressure gauge  Standard nominal flow rate 4300 l/min 5700 l/min  Duty cycle 100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics 110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.5 W	Type of control	Pilot-controlled
Pressure gauge  G1/4 prepared G1/8 prepared Red-green scale with pressure sensor with LCD display with pressure sensor with switching indicator with pressure gauge  Standard nominal flow rate  4300 l/min 5700 l/min  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.5 W	Valve function	
G1/8 prepared Red-green scale with pressure sensor with pressure sensor with LCD display with pressure sensor with switching indicator with pressure gauge  Standard nominal flow rate  4300 l/min 5700 l/min  Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Operating pressure	3 bar 10 bar
Duty cycle  100%  Signal status display  LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Pressure gauge	G1/8 prepared Red-green scale with pressure sensor with pressure sensor with LCD display with pressure sensor with switching indicator
LED Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Standard nominal flow rate	4300 l/min 5700 l/min
Floating contact Switching outputs Via AS-i  Coil characteristics  110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Duty cycle	100%
230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W 24 V DC: 1.8 W	Signal status display	Floating contact Switching outputs
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA 24 V DC: 1.5 W
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]

Feature	Value
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Note on materials	RoHS-compliant
Degree of protection	IP65 With plug socket
Temperature of medium	-10 °C 60 °C
Ambient temperature	-10 °C 60 °C
Storage temperature	-10 °C 60 °C
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Certification	RCM compliance mark c UL us - Recognized (OL)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive As per EU low voltage directive
Certificate issuing authority	IFA 1001180 German Technical Control Board (TÜV) 44 799 12 556236 000
For use in the food industry	See supplementary material information
Type of mounting	Optionally: Line installation With accessories
Mounting position	Any
Housing material	Die-cast aluminum
Seals material	NBR
Piston rod material	High-alloy stainless steel