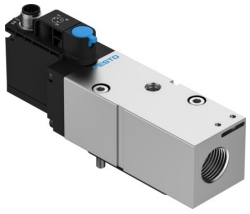
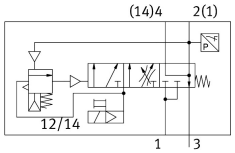
Soft-start valve
VABF-S6-1-P5A4S1YE-G12-1T1L-PZ

Part number: 8161609





Data sheet

Feature	Value
Max. positive test pulse with 0 signal	2000 µs
Max. negative test pulse on 1 signal	1200 µs
Width	40 mm
Length	155 mm
Width dimension	41 mm
Valve size	40 mm
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Actuation type	Electrical
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Self-resetting via electrical control signal
Structural design	Piston gate valve
Reset method	Mechanical spring
Type of control	Piloted
Pilot air supply port	Internal
Flow direction	Non-reversible
Valve function	Pressurization Exhaust
Switching element function	NC contact
Lap	Negative overlap
Additional functions	Holding current reduction
Note on forced dynamization	Switching frequency at least once a month
Signal status display	Yellow LED, valve actuation Green LED, pressure switch, exhausted status
Switching position sensing	Via pressure switch, exhausted status
Operating pressure	0.3 MPa...1 MPa 3 bar...10 bar
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Changeover pressure	Not adjustable

Feature	Value
	Switching point between 50 - 75% of operating pressure
Suitability for vacuum	No
Standard nominal flow rate pressurization	3000 l/min
Note on standard nominal flow rate, pressurization	MPA: 1200 l/min VTSA: 3000 l/min
Standard nominal flow rate exhaust air	3300 l/min
Note on standard nominal flow rate, exhaust air	MPA: 1600 l/min VTSA: 3300 l/min
Duty cycle	100%
Nominal pick-up current per solenoid coil	60 mA up to 35 ms
Nominal operating voltage DC	24 V
Nominal current with current reduction	11 mA after 35 ms
Coil characteristics	24 V DC: 1.6 W
Permissible voltage fluctuations	+/- 10%
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Storage temperature	-20 °C...60 °C
Temperature of medium	-5 °C...50 °C
Relative air humidity	Max. 90% at 40°C
Degree of protection	IP65
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C...50 °C
MTTF, subcomponent	452 years, pressure switch
Product weight	466 g
Min. switch-off point	0.05 bar
Switch-on point	0.2 bar
Max. switch-on point	0.3 bar
Electrical actuation	Multi-pin
Electrical connection	Plug-in
Sensor connection	Plug 3-pin M12x1
Type of mounting	On sub-base
Pneumatic connection 3	G1/2
Note on materials	RoHS compliant
Seals material	HNBR NBR
Housing material	Wrought aluminum alloy
Material of screws	Galvanized steel