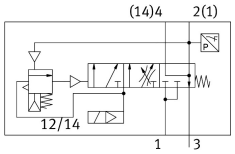
Soft-start valve
VABF-S6-1-P5A4S1S-G12-1T1L-PZ

Part number: 8161611





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	None
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 Switching point between 50 - 75% of operating pressure

Feature	Value
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