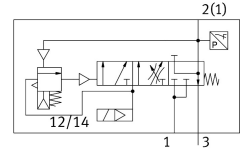


# Soft-start valve VABF-S6-1-P5A4S2S-G12-1T5-PA

Part number: 8067409

**FESTO**



## 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<br>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<br>Green LED, pressure switch, exhausted status          |
| Switching position sensing             | Via pressure switch, exhausted status                                                |
| Operating pressure                     | 0.2 MPa...1 MPa<br>2 bar...10 bar                                                    |
| Pilot pressure MPa                     | 0.2 MPa...1 MPa                                                                      |
| Pilot pressure                         | 2 bar...10 bar                                                                       |
| Changeover pressure                    | Not adjustable<br>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<br>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<br>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-B1/B2-L                             |
| 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                               | Fieldbus                                      |
| Electrical connection                              | Plug-in                                       |
| Type of mounting                                   | On sub-base                                   |
| Pneumatic connection 3                             | G1/2                                          |
| Note on materials                                  | RoHS compliant                                |
| Seals material                                     | HNBR<br>NBR                                   |
| Housing material                                   | Wrought aluminum alloy                        |
| Material of screws                                 | Galvanized steel                              |