

Fire Protection Flap

The fire protection flap serves for fast barring of fire sections, e.g. tool machine.

On operation of a single suction and filter installation with fire extinguisher, the suction and filter installation must be turned off. If required, the suction and filter installation is fed with extinguishing gas.

On operation of a central suction and filter installation, a fire protection flap must be installed into the connecting piece of the machine, which then closes in the case of fire, on activation of the fire extinguisher. In the case of fire, the flame picture, and on activation of the fire extinguisher, the extinguishing gas, is otherwise pulled into the suction and filter installation. This can have momentous consequences.

The fire protection flap is not suitable for use in ex areas (e.g. varnishing rooms)!



Interior Nominal Width	L	Pipe Build mm
80	200	1
100	200	1
120	200	1
150	200	1
200	200-250	1
250	300-500	2
300	350-500	2

(further sizes on demand)

Pos.	Name	Spare Part Number
1	Pneumatic cylinder	BSK1
2	Plug connector angle turnable 1/8" for hose 4x1	BSK2
3	PU hose 4x1	BSK3
4	5/2 way valve (without coil)	BSK4
5	Exhaust throttle baffle 1/8"	BSK5
6	Device socket	BSK6
7	Coil 230V AC or 12/24V DC	BSK7
8	Manual override	BSK8
9	Turning knob	BSK9
10	Seal P19	BSK10
11	Rotary fork	BSK11
12	Rotary flap	BSK12
13	Holding angle	BSK13
14	End switch "Reed contact" optional	BSK14
15	Protective grid optional	BSK15

Technical Data

Pneumatic

Working pressure: 10 bar (max.), 4 bar (min.)

Air connection: 6 mm outward diameter

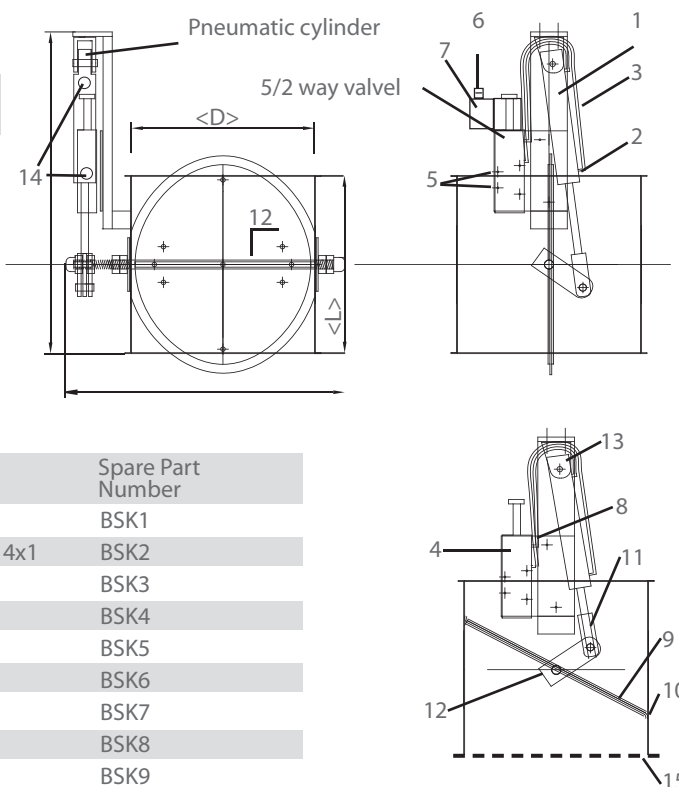
Valve: 5/2 way with spring return

Electrical

Coil

Voltage/Power: 230V AC 9 VA (max.) or 12/24 V DC 2 W

Protection class: IP 65



Design

The body is made of sheet steel and varnished in RAL 7035.

Other varnishing is also possible.

The fire protection flap is available with or without flange connections.

The standard model is resistant to temperatures from -30°C/-22°F to +80°C/+176°F.

The seal P19 is resistant to temperatures to -120°C/-184°F.

Function

The fire protection flap is activated by a pressure cylinder.

The 5/2 way valve opens the fire protection flap, if the corresponding voltage is impressed on the coil.

On decrease of voltage and on shortage of air, the fire protection flap is automatically closed.

For query of the position, the mounting of end switches is possible. The switches are optionally available.

On power outage, the turning knob can be opened or closed with the help of the manual override installed below the coil of the 5/2 way valve. (see "figure and spare parts list")

Mounting

The fire protection flap must be mounted in such a way that no dangerous points with fixed or mobile parts of the environment emerge at opening and closing due to the turning knob!

Should this not be possible, a protective grid must be installed. The grid is optionally available.

If the situation does not permit mounting a protective grid, corresponding warning messages must be installed on location. (see also UVV 1.0 General Regulations for the Protection from Accidents"VBG1 and 10.0 "Power-Engined Means for Work" VBG 5.)

The power supply must be executed according to valid VDE regulations.

The exterior nut on the piston rod of the cylinder is protected against independent loosening.

After loosening the nut, e. g. on exchanging the cylinder, the locking devices must be renewed.

Starting Operation

Before starting operation, alle electric and pneumatic connections must be checked. Furthermore, all screws on the body, cylinder and piston rod must be checked for tight fit and must be retightened, if necessary. It is to be observed that only filtered pressured air is used. The opening and closing speed of the fire protection flap must be adjusted on the exhaust throttles to about 1 second (siehe „Abbildung und Ersatzteilliste").

Observe that the pressure emerging at the 5/2 way valve does not surpass 10 bar.

If it does, the use of a pressure reducer is required; the minimum pressure should amount to 4 bar.

Maintenance

In an interval of 8 weeks at most, a function check must be performed and all electric and pneumatic connections must be checked. Furthermore, all screws on the body, cylinder and piston rod must be checked for tight fit and must be retightened, if necessary.

Before beginning any works of maintenance or repair, mount possible protective installations! (see also UVV 7.0 "Electric Installations and Operating Facilities" VBG 4)

If all necessary operations have been performed, a test run must be executed to check the function.

If the fire protection flap is sluggish or the turning knob is clamping, this may be caused by dirt. The fire protection flap must then be dismounted and cleaned. If a test run is performed while the fire protection flap is not installed, the two connecting pieces must be covered to prevent access.

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