

Datasheet

Automatic switching module

AirAngel for mobile breathing air supply



With Safety.

Designation: AirAngel automatic switching assembly for mobile breathing air supply

Description: The AirAngel switching unit is used to breathing air supply to compressed air line breathing apparatus and is fed by up to two air sources (mobile breathing air supply or compressed air breathing apparatus). The supply air is automatically controlled from one of the connected air sources. Both connected air sources feed a factory-set switching block. This setting must not be changed.



Both supply sides feed the switching block, which contains a spring-loaded piston. It is important that both supply sides of the air sources are open. If pressure is present on both sides of the piston, the preset side is activated (i.e. the source opened first supplies air) and delivers the breathing air to the compressed air line supply hose leading to the respirator. If one air source is depleted, the residual air warning is activated on the supplying air source. For the air source with the active residual air warning, the cylinder must be closed. This empties that supply side, the pressure at the switching block drops, and the piston switches to the full air source. This occurs at a pressure difference of approximately 2–3 bar.

Article-Number: 203586

Application: The AirAngel switching unit is designed for operations where local conditions prevent the provision of a sufficient breathing air supply and/or where operational conditions do not allow the person wearing the respirator to carry air with them. The required air can be drawn from suitable air sources (e.g., mobile breathing air supplies or compressed air breathing apparatus), which should be placed as close as possible to the work site and thus also to the AirAngel. The switching assembly is housed in a rugged plastic case and designed for **one** respirator wearer. For devices without an optional warning whistle on the strain relief, a safety assistant must be present.

Materials:	Case	Polypropylene
	Viewing window	Plexiglass (PMMA - polymethyl methacrylate)
	Viewing window frame	1.4301 (X5CrNi18-10, AISI 304, or V2A steel)
	Switch block	Brass
	Control panel	1.4301 (X5CrNi18-10, AISI 304, or V2A steel)

Revision 04.2026 – Errors and omissions excepted. All data are non-binding guide values.

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Pressure Gauge	Bourdon tube pressure gauge in accordance with EN 837-1 with glycerin filling, Measuring range 0-16 bar, accuracy: Class 1.6 Special scale: Green band 5-8.2 bar,	
Materials:	DZS9 Hose	Acrylonitrile-butadiene rubber/polyvinyl chloride Polyvinyl acetate reinforcement
	Press sleeve	1.4301 (X5CrNi18-10, AISI 304, or V2A steel)
	AK2 male nipple	Nickel-plated brass
	AK2 coupling	Nickel-plated brass
Dimensions:	44 x 32 x 17 cm (W x D x H)	
Weight:	approx. 9,1 kg	
Male connector (inlet):	Type: BartelsRieger AK2 / Rectus Series 96 KS / Cejn Series 342	
Female connector (outlet):	Type: BartelsRieger AK2 / Rectus Series 96 KS / Cejn Series 342	
Switching valve:	switches automatically at a differential pressure of 2-4 bar (maximum operating pressure 15 bar, overload-proof up to 100 bar) Flow rate >800 l/min at 10 bar	
Inlet pressure:	5 to 10 bar	
Marking:	Nameplate with transponder	
RFID	for device management, unique alphanumeric number, read-only, 13.56 MHz	
Ordering information:	Article number	Description
	203586	"AirAngel" Switching Assembly
	940402	Vent valve for venting the system
	100853	Dust cap for AK2 coupling, Pack of 10
	100852	Dust cap for AK2 push-in nipple Pack of 10
941135	DZS 9 AK2 coupling AK2 push-in nipple 1 m	
	Other hose lengths available upon request	

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