

8162/1-25-1 Art. No. 138573



- Improves safety by preventing condensation from building up in enclosures
- Continuous pressure equalisation between the enclosure and the environment
- Type of protection Ex e (increased safety), max. degree of protection IP65

WebCode **8162A**



R. STAHL's 8162 series breathers provide continuous pressure equalisation between the inside of the enclosure and the atmosphere around the enclosure. This ventilation prevents moisture from entering the enclosure via the seals and condensing inside the enclosure. The breathers are made from moulded material and meet the requirements of degrees of protection up to IP65.

### Technical Data

#### Explosion Protection

Application range (zones)	1 2 21 22
IECEX gas certificate	IECEX PTB 06.0028
IECEX gas explosion protection	Ex eb IIC Gb
IECEX dust certificate	IECEX PTB 06.0028
IECEX dust explosion protection	Ex tb IIIC Db
ATEX gas certificate	PTB 01 ATEX 1018
ATEX gas explosion protection	Ex II 2 G Ex eb IIC Gb
ATEX dust certificate	PTB 01 ATEX 1018
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC Db
EAC certificate	TS RU S-DE.AA71.B.00083
EAC gas explosion protection	Ex 1 Ex e II Gb U
EAC dust explosion protection	Ex tb IIIC Db U
Certificates	ATEX (PTB), EAC (ENDCE), IECEX (PTB), USA (FM)

#### Ambient Conditions

Ambient temperature	-40 °C ... +70 °C
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#### Mechanical Data

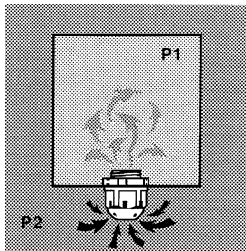
Degree of protection (IP)	IP65
Degree of protection note	when installed in enclosure side: IP64 for lateral mounting IP65 for vertical mounting downwards
Material	Polyamide
Material 2	Glass fibre reinforced
Silicone-free	Yes
Width across corners	32.5 mm

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### Mechanical Data

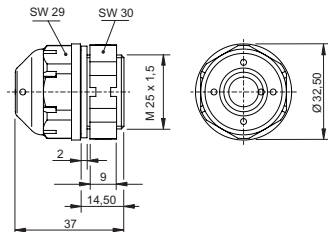
Thread size	M25
Thread pitch	1,5 mm
Mounting instruction	only permitted in enclosures with through hole
Nuts available	Without nut
Packaging unit	1
Weight	0.01 kg
Weight	0.02 lb

### Technical Drawings – Subject to Alterations



Temperature-related pressure differences between the inside of the enclosure (P1) and the surrounding atmosphere (P2) are balanced by the breather. The amount of condensation forming in the enclosure is thus kept to a minimum.

### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



## Accessories

### Locknut, plastic



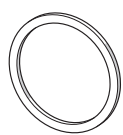
Material: Polyamide, version slotted on both sides  
Thread size: M25 x 1.5  
1 piece

Art. No.

138596

## Spare Parts

### Flat gasket (standard), EPDM (-40 ... +75 °C)



Material: EPDM  
M25 x 1.5  
1 piece

Art. No.

111771

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.