

**AGRICHEMA**  
SCHÜTTGUTTECHNIK



# Customer Information

Recommendations for pipe holders  
for Air-Blast Units

# 1 Installation without pipe holder

(pipe length  $L = 0$  m to 1 m)

If the air-blast unit is located directly by the exhaust point, then the air-blast unit is not to be supported and is only to be fastened without tension at the support ring provided on the air-blast unit.

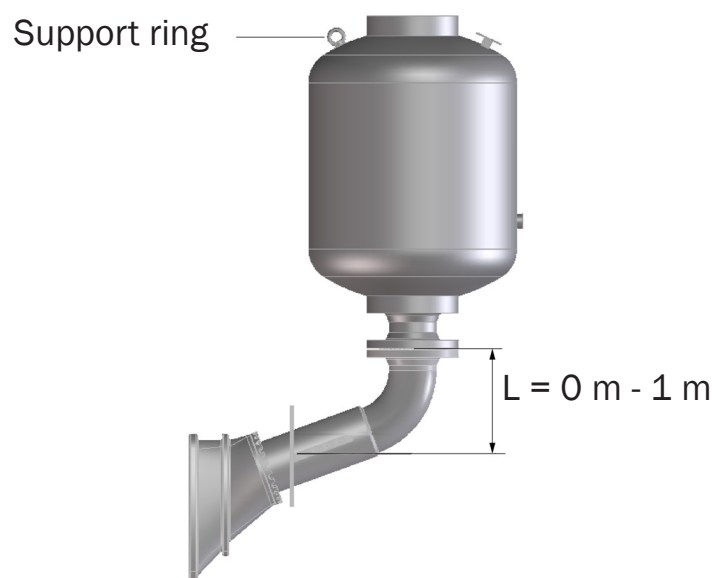
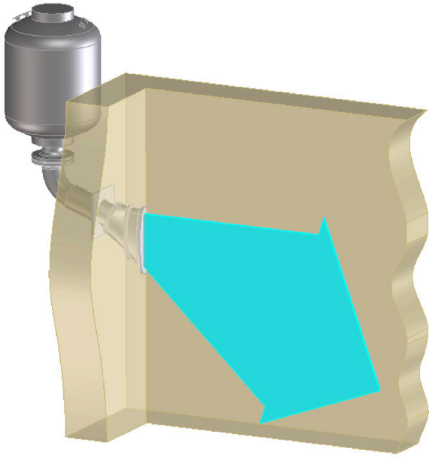
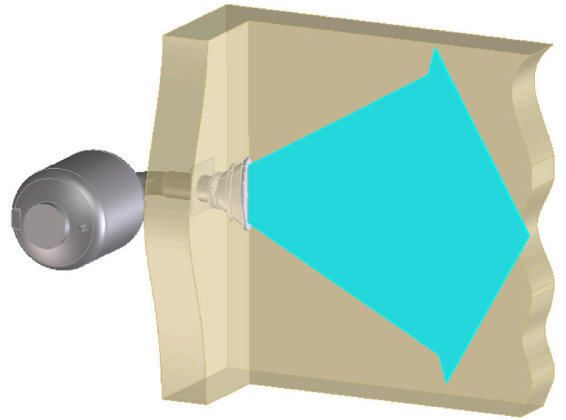


Illustration 1: Overview

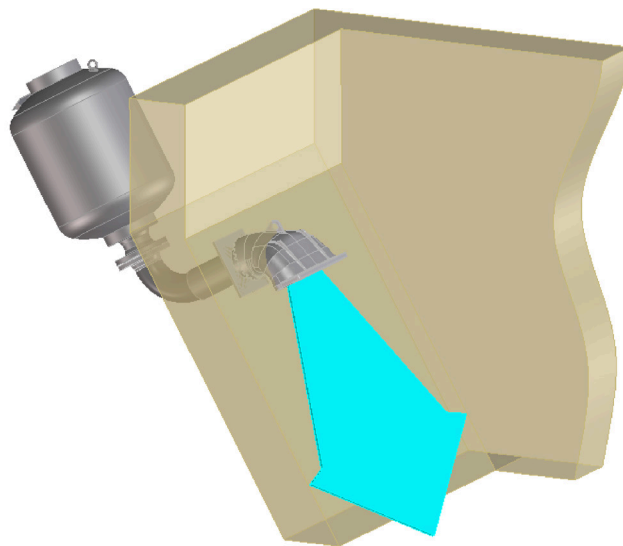
The following installation situations can occur on round and rectangular silos:



upright installation



horizontal installation



sloping or horizontal installation

Illustration 2: Installation situation

# 2 Installation with pipe holder

(pipe length  $L > 1$  m to 2 m)

If the air-blast unit has a gap of  $L > 1$  m from the exhaust point, then the pipe is to be fastened to a steel substructure already in place or to be made with a pipe bearing pursuant to DIN 3567 directly underneath the connecting flange to the air-blast unit.

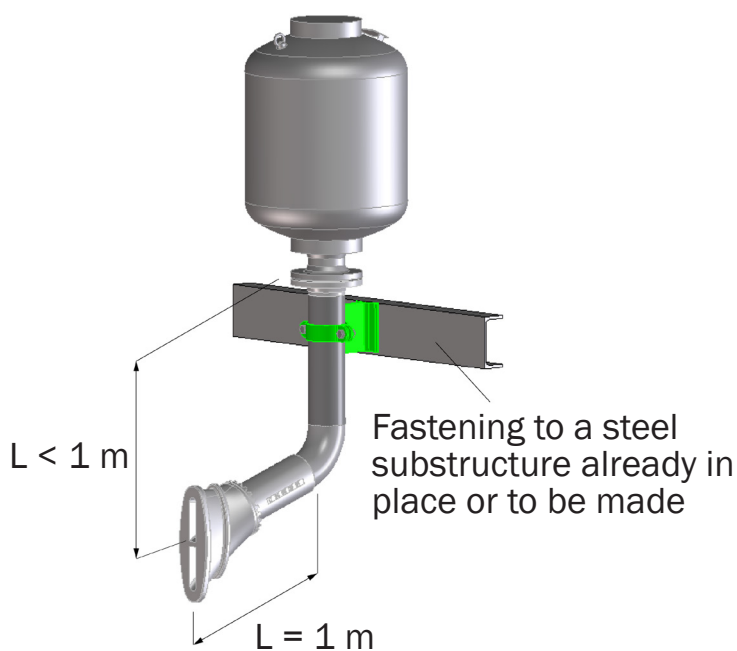


Illustration 3: upright installation

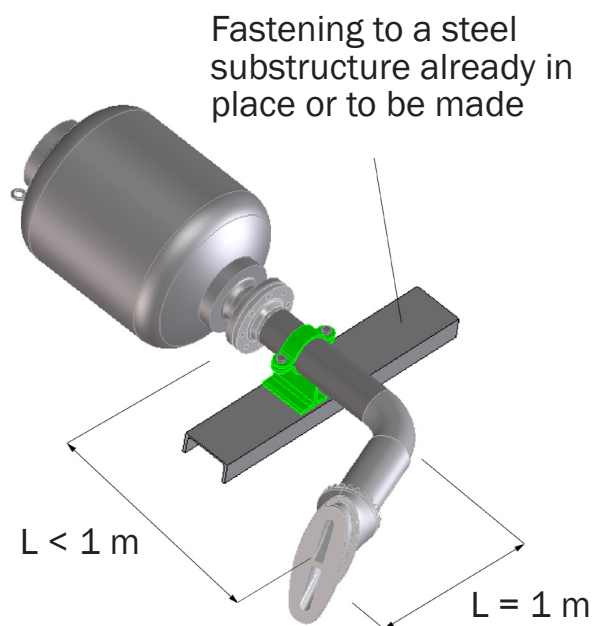


Illustration 4: horizontal installation

# 2.1 Suitable pipe bearings

Pipe clamp pursuant to DIN 3567 DN 100

|                    |  |
|--------------------|--|
| <b>Material:</b>   | <b>Flat-rolled steel 50 x 8 mm</b>   |
| <b>Dimensions:</b> | <b>d1 = 115 mm</b><br><b>d2 = 18 mm</b><br><b>a = 178 mm</b><br><b>f = 11 mm</b> |
| <b>Screws:</b>     | <b>M16 x 45 mm DIN 601</b>   |

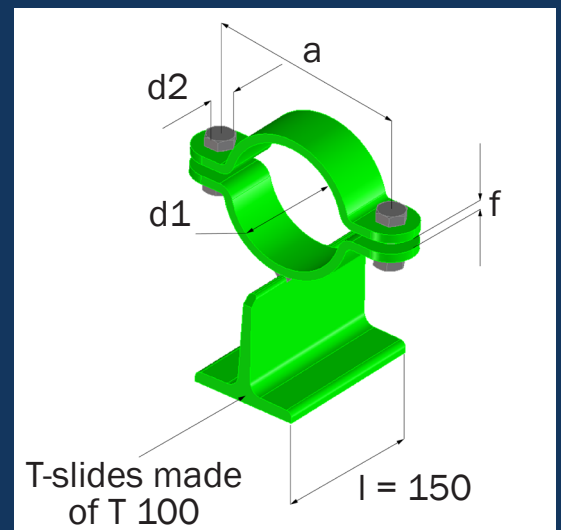


Illustration 5: Pipe bearings DN 100

|                    |  |
|--------------------|--|
| <b>Material:</b>   | <b>Flat-rolled steel 50 x 8 mm</b>   |
| <b>Dimensions:</b> | <b>d1 = 169 mm</b><br><b>d2 = 18 mm</b><br><b>a = 232 mm</b><br><b>f = 11 mm</b> |
| <b>Screws:</b>     | <b>M16 x 45 mm DIN 601</b>   |

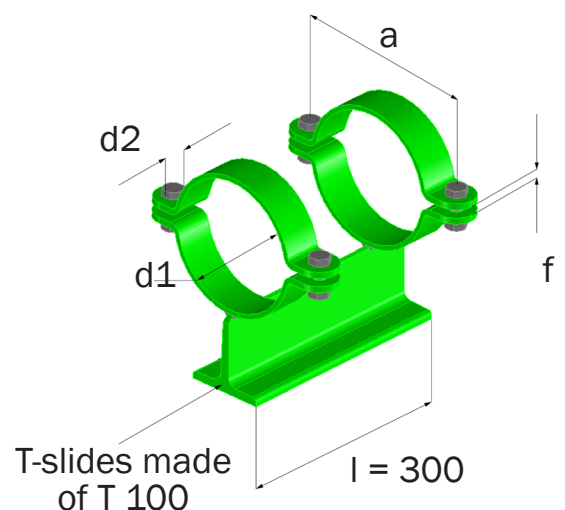


Illustration 6: Pipe bearings DN 150

The pipe bearings (Fig. 05, Fig. 06) are preferably to be welded or fastened to an existing steel substructure and designed as a fixed point.

# 3 Installation with two pipe holders

(pipe length  $L > 2$  m to 10 m)

From a gap of  $L > 2$  m upwards, another pipe holder is recommended, fitted to the airblast unit as fixed bearing Pos. 1, to the exhaust point as floating bearing Pos. 2.

The pipe holder between the exhaust point and pipe bend must not exceed a pipe length of max. 8 m.

## NOTICE

The pipe bearing substructure should preferably be fastened directly to the heat exchanger. If this is not possible for design reasons, the different thermal expansions between the heat exchanger and steel construction, to which the support structure is fastened, are to be taken into account.



## WARNING

Steel expands by approx. 1.2 mm per metre length for each 100 K of temperature difference.

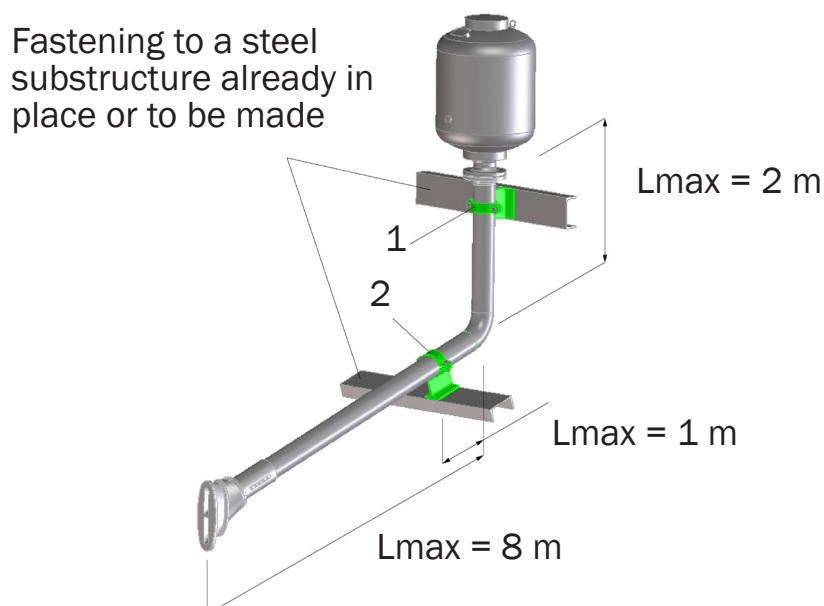


Illustration 7: Installation with two pipe holders

# 3.1 Suitable pipe bearings

Pipe clamp pursuant to DIN 3567 DN 100

|                    |  |
|--------------------|--|
| <b>Material:</b>   | Flat-rolled steel 50 x 8 mm                          |
| <b>Dimensions:</b> | d1 = 115 mm<br>d2 = 18 mm<br>a = 178 mm<br>f = 11 mm |
| <b>Screws:</b>     | M16 x 45 mm DIN 601                                  |

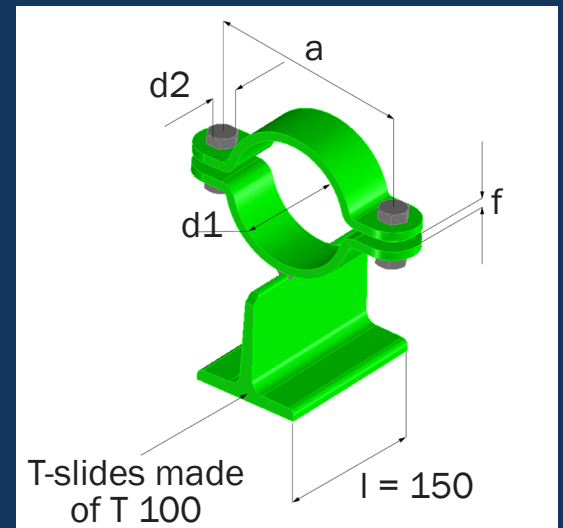
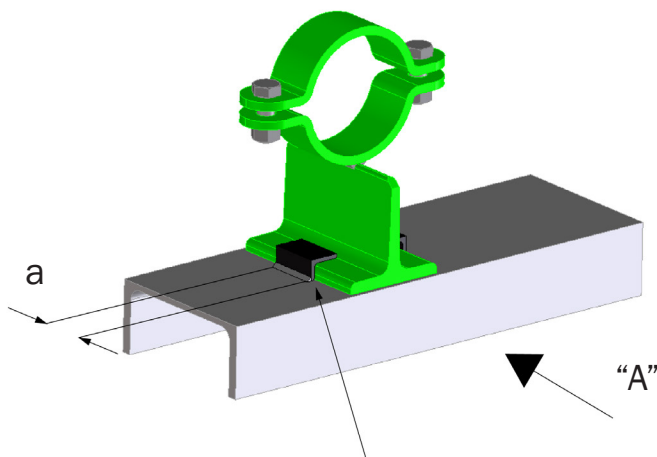
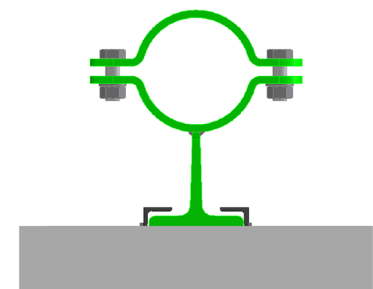


Illustration. 8: Pipe bearing Pos.1 – fixed bearing DN 100



View "A"



Weld bracket in accordance with DIN 1029  
30 x 20 x 4.0 mm a = 50 mm  
onto the substructure on both sides

Illustration 9: Pipe bearing Pos. 2 – floating bearing

The pipe bearing Pos. 1 (Fig. 8) is to be designed as a fixed point.

The pipe bearing Pos. 2 (Fig. 9) is to be designed as a floating bearing.



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