

Technical Product Information No. 1050 EN

Air inlet

Series: 0 086-006
0 088-114

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About this Technical Product Information (TPI)

Who is this TPI directed at?

This TPI is directed at qualified personnel who

- are entrusted with the assembly, commissioning and operation of the product and who
- have obtained the necessary qualifications by reading and understanding the instructions by training or instruction

It is intended for

- Fitters at the manufacturer of the machine / plant
- Maintenance fitters at the machine users.

What will you find in the TPI?

The TPI provides all the necessary information for the assembly and maintenance of the product described on the title page

Notes on the symbols used in the text

On the pages which follow, important sections of text are highlighted with the following symbols.



This symbol means:

There is a risk of injury during the activity described or in operational running!



This symbol means:

There is a risk of material damage during the activity described or in operational running!



This symbol indicates sections of text to which particular attention must be paid.

The Ortlinghaus numbering system

Example: 0 111 - 222 - 33 - 444 555

0 = Code for products	_____		_____		_____		_____		_____
Code number for the model range	_____		_____		_____		_____		_____
Code number for design features	_____		_____		_____		_____		_____
Size	_____		_____		_____		_____		_____
Sequential number	_____		_____		_____		_____		_____
Other design features	_____		_____		_____		_____		_____



Pass this TPI on to your customers ! You can either order further copies of this TPI from us or you are free to make copies, for use by your customers.

About the product

Application and mode of functioning of the rotary air inlet

Rotary air inlets are connected directly on to electromagnetic three-way or press safety valves. They serve for the feeding in of compressed air to, for example, pneumatically actuated clutches which rotate with a rotating shaft.

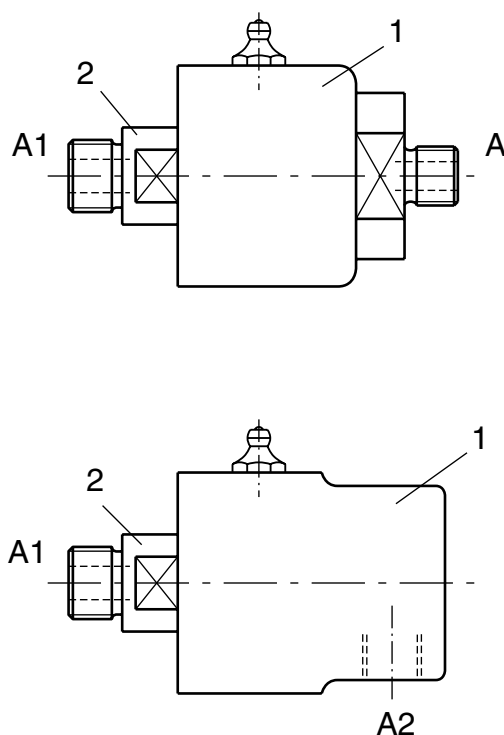


Fig. 1: Function

Compressed air flows via connection **A** or, as the case may be, **A2** in the outer part which does not rotate through the hole in the rotating inner part **2**. Connection **A1** connects the inner part with the air duct of the shaft requiring the compressed air.



The normal operating pressure is **5,5 bar**, the maximum permissible pressure **6 bar**. **Never** run the rotary air inlet **at a higher pressure** since then there is the danger of a seal or bearing being damaged.

- Ensure that you always use dustfree, dry compressed air (maintenance unit necessary).
- Set the oiler of the maintenance unit so that it delivers 1-3 drops of oil per m³ air.

Form of delivery of the rotary air inlets

The rotary air inlets are supplied fully assembled.

Variants forms of execution

The rotary air inlets are supplied in two variant form of execution:

Variant I: axial air intake

Variant II: air intake at 90° to the line of the shaft

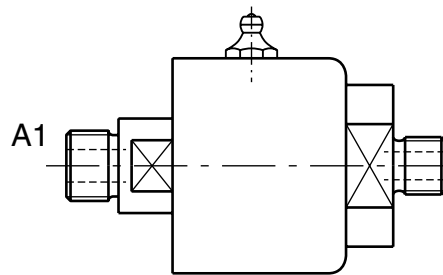


Fig.2: Variant I

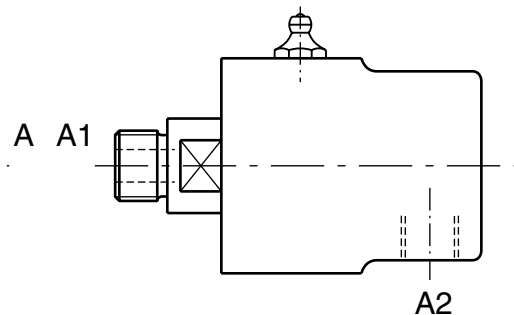


Fig. 3: Variant II

Connection **A1** can be supplied as required either with a metric ISO thread in accordance with DIN 13 or with a Whitworth pipe thread in accordance with DIN ISO 228T1 or BS 2779 .



Pay special attention to the correct pairing up to the threads. If paired up incorrectly, damage to the shaft and the rotary air inlet will be inevitable.

Variant I

Connection **A** with Whitworth pipe external thread and connection **A1** with:

- a) metric thread (article-No. 0086-006- size 000)
- b) Whitworth pipe thread (article-No. 0086-006- size 002)

Variant II

Connection **A2** with Whitworth pipe internal thread and connection **A1** with:

- a) metric thread (article-No. 0086-006- size 020)
- b) Whithworth pipe thread (article-No. 0086-006- size 022)



With variant II, use only a **tapered** external thread for the connection to internal thread **A2**.

Initial mounting

Check that the connection threads are paired up correctly!
Observe the notes on page 4.

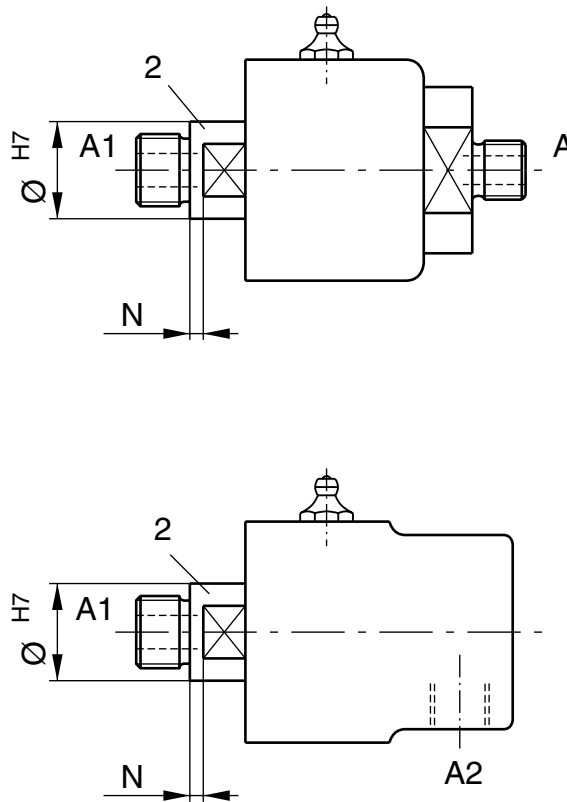


Fig. 4: Mounting

- Connect connection **A1** with the shaft and centre the diameter H7 x N in the shaft.
- Check inner part **2** for true running.
- Connect connection **A** or, as the case may be, **A2** to the safety valve.
- Use flexible hose with a length of at least 300 mm for the further connection to the compressed air pipe so that the rotary air inlet will not be subjected to any stress.

