

PA2 series PA tube

- O/D 4 ... 16 mm
- Available in a range of colours for ease of identification
- In addition to general industrial applications PA is suitable for use on air braking systems of commercial vehicles and conforms to DIN 74324. (Applicable sizes; 6, 8, 10, 12, 16 mm O/D)
- 25 metre lengths supplied in cartons providing good protection and easy storage



Technical features

Medium:

Compressed air
Consult our Technical Service for use with other fluids

Ambient/Media temperature:

Refer to specific tubing type on the following pages

Materials:

PA type 12 fully plasticised and light stabilised.

Conforming standards:

ISO 4414 Pneumatic fluid power - General rules and safety requirements for systems and their components
DIN 74324 - Polyamide tubing for air braking systems - Requirements and testing

Operating pressure:

Refer to specific tubing type on the following pages

Technical data

| Colour | Length (m) | O/D I/D tube 4/2,5 *1) | 5/3 *1) | 6/4 | 8/6 | 10/7,5 | 12/9 | 14/11 *1) | 16/12 |
|---------|------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Natural | 25 | PA2-0004025C | PA2-0005025C | PA2-0006025C | PA2-0008025C | PA2-0010025C | PA2-0012025C | PA2-0014025C | PA2-0016025C |
| Natural | 100 | PA2-0004100 | — | PA2-0006100 | PA2-0008100 | PA2-0010100 | PA2-0012100 | — | — |
| Red | 25 | PA2-0104025C | PA2-0105025C | PA2-0106025C | PA2-0108025C | PA2-0110025C | PA2-0112025C | PA2-0114025C | PA2-0116025C |
| Red | 100 | PA2-0104100 | — | PA2-0106100 | PA2-0108100 | PA2-0110100 | PA2-0112100 | — | — |
| Green | 25 | PA2-0204025C | PA2-0205025C | PA2-0206025C | PA2-0208025C | PA2-0210025C | PA2-0212025C | PA2-0214025C | PA2-0216025C |
| Green | 100 | PA2-0204100 | — | PA2-0206100 | PA2-0208100 | PA2-0210100 | PA2-0212100 | — | — |
| Yellow | 25 | PA2-0304025C | PA2-0305025C | PA2-0306025C | PA2-0308025C | PA2-0310025C | PA2-0312025C | PA2-0314025C | PA2-0316025C |
| Yellow | 100 | PA2-0304100 | — | PA2-0306100 | PA2-0308100 | PA2-0310100 | PA2-0312100 | — | — |
| Blue | 25 | PA2-0504025C | PA2-0505025C | PA2-0506025C | PA2-0508025C | PA2-0510025C | PA2-0512025C | PA2-0514025C | PA2-0516025C |
| Blue | 100 | PA2-0504100 | — | PA2-0506100 | PA2-0508100 | PA2-0510100 | PA2-0512100 | — | — |
| Black | 25 | PA2-0704025C | PA2-0705025C | PA2-0706025C | PA2-0708025C | PA2-0710025C | PA2-0712025C | PA2-0714025C | PA2-0716025C |
| Black | 100 | PA2-0704100 | — | PA2-0706100 | PA2-0708100 | PA2-0710100 | PA2-0712100 | — | — |
| Silver | 25 | PA2-0904025C | PA2-0905025C | PA2-0906025C | PA2-0908025C | PA2-0910025C | PA2-0912025C | PA2-0914025C | PA2-0916025C |
| Silver | 100 | PA2-0904100 | — | PA2-0906100 | PA2-0908100 | PA2-0910100 | PA2-0912100 | — | — |

*1) Tube size does not conform to DIN 74324

Note: 'C' at the last digit in part number indicates packed in a box/carton

Option selector

PA2-0*****

| Colour | Substitute |
|---------|------------|
| Natural | 0 |
| Red | 1 |
| Green | 2 |
| Yellow | 3 |
| Blue | 5 |
| Black | 7 |
| Silver | 9 |

| Packaging | Substitute |
|----------------------|------------|
| 25 m Carton/Box | C |
| 100 m Tapped/wrapped | None |
| Carton Bobbin* | D |
| Length (m) | Substitute |
| 25 | 025 |
| 100 | 100 |
| Outer diameter | Substitute |
| 4 | 04 |
| 5 | 05 |
| 6 | 06 |
| 8 | 08 |
| 10 | 10 |
| 12 | 12 |
| 14 | 14 |
| 16 | 16 |

* Carton bobbin lengths available:
 4 ... 8mm O/D = 1000 m
 10mm O/D = 250 m
 12mm O/D = 200 m

Maximum operating pressures and bend radii

| | Ø 4 | Ø 5 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | Ø 14 | Ø 16 |
|--|-----|-----|-----|-----|------|------|------|------|
| Max. pressure (bar) *1) at -40 ... +20°C | 31 | 33 | 27 | 19 | 19 | 19 | 16 | 19 |
| Min. bend radius | 25 | 25 | 30 | 40 | 60 | 60 | 80 | 95 |

Maximum continuous working temperature: PA +80°C

*1) Multiply by factors in table below for use at higher temperatures

Operating pressure/temperature conversion factors

| Working temperature | Factor (PA) |
|---------------------|-------------|
| -40 ... +20°C | 1,00 |
| +30°C | 0,83 |
| +40°C | 0,75 |
| +50°C | 0,64 |
| +60°C | 0,57 |
| +80°C | 0,47 |

To calculate working pressures at various temperatures, multiply working pressure at -40 ... +20°C by factor given in table. Maximum continuous working temperature: +80°C

Accessories

| Tubing channels | | | Tube clips – single sided | | | Tube cutter | |
|-----------------|--------|-----------------|---------------------------|--------|-----------------|-------------|--------------------------------|
| Model | Tube Ø | No. of channels | Model | Tube Ø | Number of tubes | Model | Description |
| 100HA0600 | 6 | 10 | 34021804 | 6 | 1 | M/3314 | Cutter |
| 100HA0800 | 8 | 10 | 34021904 | 6 | 2 | 39012010 | Replacement blade (pack of 10) |
| 100H61200 | 12 | 6 | 34021805 | 8 | 1 | 39012061 | Replacement blade (1-off) |
| | | | 34021905 | 8 | 2 | | |
| | | | 34021806 | 10 | 1 | | |
| | | | 34021906 | 10 | 2 | | |
| | | | 34021807 | 12 | 1 | | |
| | | | 34021907 | 12 | 2 | | |
| | | | 34021508 | 16 | 1 | | |

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/ data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.