

Plastic tubing



Plastic tubing

Product range overview and Type codes

| Version | Type | Inside Ø [mm] | Colour | | | Operating medium | | | Shore hardness | → Page/ Internet |
|---|---------------------------|------------------|--------|-------|---------|------------------|--------|----------------------------|----------------|---------------------|
| | | | Blue | Black | Natural | Compressed air | Vacuum | Water (not drinking water) | | |
|  | PCN Polyvinyl chloride | 4 | - | - | ■ | ■ | - | ■ | 76 | 4 |
| | P Nitrile rubber | 6, 9 13, 19 | ■ | ■ | - | ■ | ■ | ■ | 68 71 | 3 |

| | | |
|-----------------|-----|--------------------|
| Material | PCN | Polyvinyl chloride |
| | P | Nitrile rubber |
| Internal Ø [mm] | | |
| Colour | SW | Black |
| | BL | Blue |
| | NT | Natural |

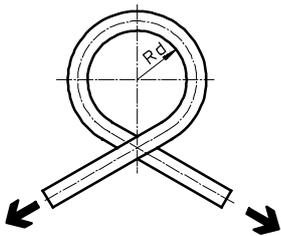
PCN

4

NT

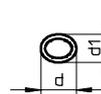
Measuring methods

Flow-relevant bending radius Rd



The tubing is bent in the direction of its inherent flexion until a 5% flattening of the tubing O.D. occurs. The Rd is then calculated.

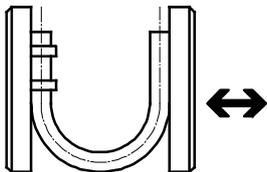
There is no reduction in the flow rate up until the Rd is reached.



Cross section flattened as a result of bended tubing

d = non deformed tubing OD
d1 = deformed tubing OD

Minimum bending radius Rmin



The tubing attached to a movable plate is bent until the deformation results in a kink.

The measured value is the minimum bending radius Rmin. This Rmin leads to considerable reductions in flow.

Rubber hoses P

Technical data

Rubber hose P, with textile reinforcement

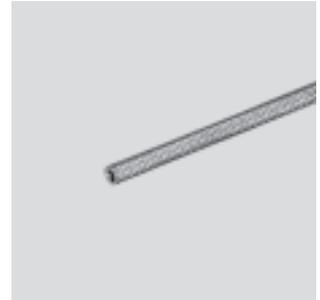
Compressed air tubing with textile reinforcement, for female hose connector type N

-  - Ambient temperature
-20 ... +80 °C

-  - Temperature dependent operating pressure
-0.95 ... 16 bar

Material:
P-6/P-9: Nitrile rubber
P-13/P-19: Ethylene propylene rubber, styrene-butadiene rubber

Note on material:
Free of copper and PTFE
RoHS-conform



| Dimensions and ordering data | | | | | | | | |
|------------------------------|--------------|-----------------------------|--------------------------------------|------------------|--------|----------|---------|-------------------------|
| O.D. [mm] | I.D. [mm] | Min. bending radius [mm] | Flow-relevant bending radius [mm] | Weight [kg/m] | Colour | Part No. | Type | PU ¹⁾ [m] |
| 13 | 6 | 20 | 45 | 0.144 | Blue | 2231 | P-6-BL | 40 |
| 16 | 9 | 30 | 60 | 0.186 | Blue | 2232 | P-9-BL | 40 |
| 23 | 13 | 50 | 100 | 0.400 | Black | 2234 | P-13-SW | 40 |
| 31 | 19 | 60 | 200 | 0.649 | Black | 2235 | P-19-SW | 40 |

1) Packaging unit

Plastic tubing PCN

Technical data

FESTO

Plastic tubing PCN

for use with condensate drains on D series service units

-  - Ambient temperature
-10 ... +60 °C

-  - Temperature dependent
operating pressure
-0.5 ... +0.25 bar

Material:
Polyvinyl chloride with reinforcing
fabric



| Dimensions and ordering data | | | | | | |
|------------------------------|--------------|------------------|---------|----------|----------|-------------------------|
| O.D. [mm] | I.D. [mm] | Weight [kg/m] | Colour | Part No. | Type | PU ¹⁾ [m] |
| 6.5 | 4 | 0.025 | Natural | 7134 | PCN-4-NT | 50 |

1) Packaging unit