



Plastic tubing

Product range overview

FESTO

Version	Type	Inside Ø [mm]	Colour				Operating medium			Shore hardness	→ Page/ Internet
			Silver	Blue	Black	Natural	Compressed air	Vacuum	Water (not drinking water)		
	PCN Polyvinyl chloride	4	-	-	-	■	■	-	■	76	6
	P Nitrile rubber	6, 9	-	■	■	-	■	■	■	68	5
		13, 19								71	
	PX Nitrile rubber	4, 6, 9	■	-	-	-	■	■	■	75	5

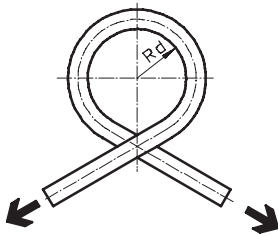
Plastic tubing

Technical data

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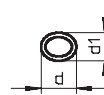
Measuring methods

Flow-relevant bending radius R_d



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

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

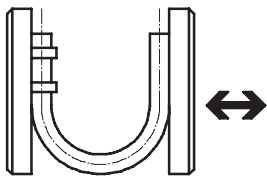


Cross section flattened as a result of bended tubing

d = non deformed tubing OD

$d1$ = deformed tubing OD

Minimum bending radius R_{min}



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

The measured value is the minimum bending radius R_{min} . This R_{min} leads to considerable reductions in flow.

Plastic tubing

Type codes

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PCN		—	4	—	NT
Material					
PCN	Polyvinyl chloride				
P	Nitrile rubber				
PX	Nitrile rubber				
Internal Ø [mm]					
Colour					
—	Silver				
SW	Black				
BL	Blue				
NT	Natural				

Rubber hoses P/PX

Technical data

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Rubber hose P, with textile reinforcement

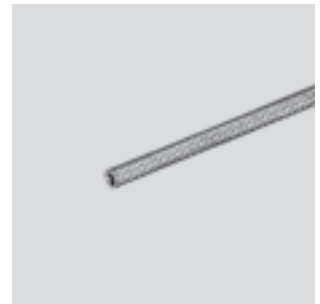
Compressed air tubing with textile reinforcement, for female hose connector type N

-  - 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	2 231	P-6-BL	40
16	9	30	60	0.186	Blue	2 232	P-9-BL	40
23	13	50	100	0.400	Black	2 234	P-13-SW	40
31	19	60	200	0.649	Black	2 235	P-19-SW	40

1) Packaging unit

Rubber hose PX, with metal braiding

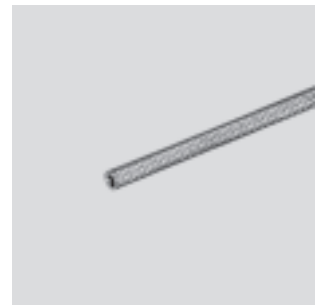
For fitting CX
Heavy duty tubing

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

-  - Temperature dependent
operating pressure
0 ... 12 bar

Material:
Nitrile rubber

Material note:
Contains paint wetting impairment
substances



Dimensions and ordering data							
O.D.	I.D.	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[kg/m]				[m]
7	4	20	0.101	Silver	4 093	PX-4	40
9	6	30	0.140	Silver	4 094	PX-6	40
12	9	45	0.171	Silver	4 095	PX-9	40

1) Packaging unit

Plastic tubing PCN

Technical data

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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	7 134	PCN-4-NT	50

1) Packaging unit