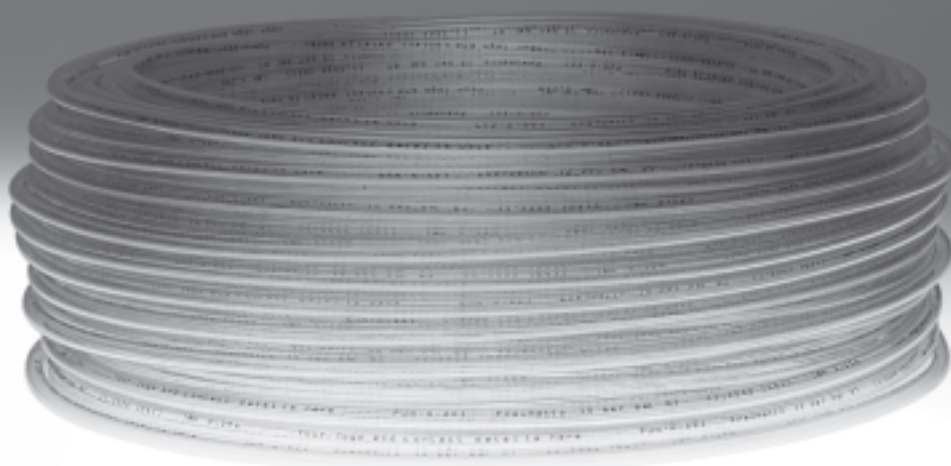


Plastic tubing, standard O.D.

FESTO



Plastic tubing, standard O.D.

Product range overview

FESTO

Version	Type	Outside Ø [mm]	Colour											Operating medium			
			Silver	Blue	Black	Yellow	Green	Red	Brown	White	Natural	Blue/black	Compressed air	Vacuum	Water (not drinking water)	Mineral oil	
	PAN Polyamide	4, 6, 8, 10, 12, 16	■	■	■	■	■	■	-	-	■	-	■	■	-	-	
	PAN-R  Polyamide	4, 6, 8, 10, 12, 16	■	-	-	-	-	-	-	-	-	-	■	■	-	-	
	PAN-VO Polyamide	6, 8, 10, 12	-	■	■	■	■	■	■	■	-	-	■	■	■	■	
	PEN  Polyethylene	4, 6, 8, 10, 12, 16	■	■	■	■	■	■	-	-	■	-	■	■	-	-	
	PFAN Perfluor-alkoxyalkan	4, 6, 8, 10, 12	-	-	-	-	-	-	-	-	■	-	■	■	-	-	
	PLN Polyethylene	4, 6, 8, 10, 12, 16	■	■	■	-	-	■	-	-	■	-	■	■	■	-	
	PUN Polyurethane	3, 4, 6, 8, 10, 12, 16	■	■	■	■	■	■	-	-	-	-	■	■	-	-	
	PUN-DUO Polyurethane	4, 6, 8, 10	■	-	-	-	-	-	-	-	-	■	■	■	-	-	
	PUN-E Polyurethane	4, 6, 8, 10, 12	■	■	■	-	-	-	-	-	-	-	■	■	-	-	
	PUN-CM Polyurethane	4, 6, 8, 10, 12	-	-	■	-	-	-	-	-	-	-	■	■	-	-	
	PUN-H Polyurethane	3, 4, 6, 8, 10, 12, 16	■	■	■	■	■	■	-	-	■	-	■	■	■	-	
	PUN-H-DUO Polyurethane	4, 6, 8, 10	-	-	-	-	-	-	-	-	-	■	■	■	■	-	
	PUN-VO/-B Polyurethane	6, 8, 10, 12	-	■	■	■	■	■	■	■	■	-	-	■	■	-	-

Plastic tubing, standard O.D.

Product range overview

FESTO

Type	Food approval as per directive 2002/72/EC	Food approval as per directive FDA	Fire protection classification to UL 94	Antistatic	Halogen-free	PWS-free to FN 942 010	Suitable for chain link trunking	Approved by German Technical Control Board	Germanischer Lloyd	Resistance					Shore hardness	→ Page/ Internet
										Chemicals	Microbes	UV radiation	Hydrolysis	Stress cracks		
PAN	-	-	-	-	■	■	■	■	■ ¹⁾	+	++	+	+	+	D 55	6
PAN-R	-	-	-	-	■	■	■	■	-	+	++	+	+	+	D 62	8
PAN-V0	-	-	V0	-	-	■	■	-	-	+	++	++	+	+	A 68 D 53	9
PEN	-	-	-	-	-	■	-	■	-	++	-	-	+++	+	D 52	13
PFAN	■	■	V0	-	■	■	-	■	-	++	++	++	++	++	D 60	12
PLN	■	-	-	-	■	■	-	■	-	++	++	++ ³⁾	++	+	-	16
PUN	-	-	-	-	■	■	■	■	-	-	-	++ ³⁾	+	++	D 52	19
PUN-DUO	-	-	-	-	■	■	■	■	-	-	-	+	+	+	D 52	21
PUN-E	■ ²⁾	■ ²⁾	-	-	■	■	■	-	-	+	+	++	+	+	D 52	22
PUN-CM	-	-	-	■	■	■	■	-	-	-	-	++	+	+	A 95	24
PUN-H	■	■	-	-	■	■	■	■	-	+	++	++ ³⁾	++	+	D 52	25
PUN-H-DUO	■	■	-	-	■	■	■	■	-	+	++	++	++	+	D 52	28
PUN-V0/-B	-	-	V0...V2	-	■	■	■	■	-	+	++	++ ³⁾	++	+	D 54	29

+++ Very well suited
++ Well suited

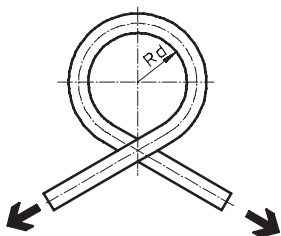
+ Limited suitability (upon request)
- Unsuitable

1) Applies for silver colour
2) Applies for blue or black colour

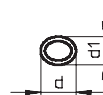
3) Applies for black colour

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.

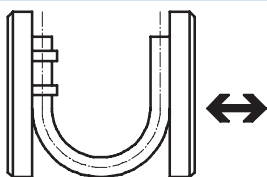


Cross section flattened as a result of bended tubing

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, standard O.D.

Type codes

FESTO

PUN		–		–	12x2	–		–	BL	–	200
-----	--	---	--	---	------	---	--	---	----	---	-----

Material	
PAN	Polyamide
PFAN	Perfluor-alkoxyalkan
PEN	Polyethylene
PLN	
PUN	Polyurethane

Certification	
E	Economy
CM	Antistatic
H	Hydrolysis resistant
V0	Flame retardant to UL 94 V0

Outside Ø x wall thickness [mm]	

Twin tubing	
DUO	Twin tubing

Colour	
SW	Black
BL	Blue
GN	Green
RT	Red
WS	White
GE	Yellow
BR	Brown
SI	Silver
NT	Natural
BS	Blue/black

Packaging unit [m]	

Plastic tubing PAN, standard O.D.

Technical data

Plastic tubing PAN

High thermal and mechanical load capacities.

-  - Ambient temperature
-30 ... +80 °C

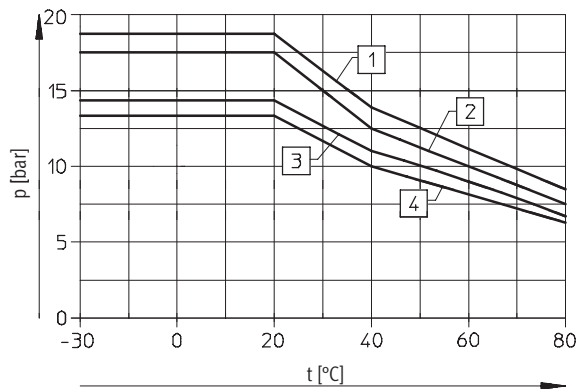
-  - Temperature dependent
operating pressure
-0.95 ... +19 bar

Material: Polyamide

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



1 PAN-6
2 PAN-10/12

3 PAN-4/8
4 PAN-16

Possible fittings



Push-in fittings QS,
Quick Star¹⁾
→ Internet: qs



Barbed fittings CN
→ Internet: cn



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f



Quick connectors CK
→ Internet: ck

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
4	2.9	12	18	0.006	Silver	152 697	PAN-4x0,75-SI	50
					Silver	553 888	PAN-4x0,75-SI-500  New	500
					Blue	553 906	PAN-4x0,75-BL  New	50
					Blue	553 894	PAN-4x0,75-BL-500  New	500
					Black	553 912	PAN-4x0,75-SW  New	50
					Black	553 900	PAN-4x0,75-SW-500  New	500
					Natural	546 284	PAN-4x0,75-NT	50
					Green	553 918	PAN-4x0,75-GN  New	50
					Red	553 924	PAN-4x0,75-RT  New	50
					Yellow	553 930	PAN-4x0,75-GE  New	50

1) Packaging unit

Plastic tubing PAN, standard O.D.

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]	Farbe	Teile-Nr.	Typ	[m]
6	4	14	32	0.016	Silver	152 699	PAN-6x1-SI	50
					Silver	553 889	PAN-6x1-SI-500  New	500
					Blue	553 907	PAN-6x1-BL  New	50
					Blue	553 895	PAN-6x1-BL-500  New	500
					Black	553 913	PAN-6x1-SW  New	50
					Black	553 901	PAN-6x1-SW-500  New	500
					Natural	546 285	PAN-6x1-NT	50
					Green	553 919	PAN-6x1-GN  New	50
					Red	553 925	PAN-6x1-RT  New	50
					Yellow	553 931	PAN-6x1-GE  New	50
8	5.9	22	43	0.024	Silver	152 700	PAN-8x1,25-SI	50
					Silver	553 890	PAN-8x1,25-SI-400  New	400
					Blue	553 908	PAN-8x1,25-BL  New	50
					Blue	553 896	PAN-8x1,25-BL-400  New	400
					Black	553 914	PAN-8x1,25-SW  New	50
					Black	553 902	PAN-8x1,25-SW-400  New	400
					Natural	546 286	PAN-8x1,25-NT	50
					Green	553 920	PAN-8x1,25-GN  New	50
					Red	553 926	PAN-8x1,25-RT  New	50
					Yellow	553 932	PAN-8x1,25-GE  New	50
10	7	27	58	0.042	Silver	152 701	PAN-10x1,5-SI	50
					Silver	553 891	PAN-10x1,5-SI-300  New	300
					Blue	553 909	PAN-10x1,5-BL  New	50
					Blue	553 897	PAN-10x1,5-BL-300  New	300
					Black	553 915	PAN-10x1,5-SW  New	50
					Black	553 903	PAN-10x1,5-SW-300  New	300
					Natural	546 287	PAN-10x1,5-NT	50
					Green	553 921	PAN-10x1,5-GN  New	50
					Red	553 927	PAN-10x1,5-RT  New	50
					Yellow	553 933	PAN-10x1,5-GE  New	50
12	8.4	29	64	0.060	Silver	152 702	PAN-12x1,75-SI	50
					Silver	553 892	PAN-12x1,75-SI-200  New	200
					Blue	553 910	PAN-12x1,75-BL  New	50
					Blue	553 898	PAN-12x1,75-BL-200  New	200
					Black	553 916	PAN-12x1,75-SW  New	50
					Black	553 904	PAN-12x1,75-SW-200  New	200
					Natural	546 288	PAN-12x1,75-NT	50
					Green	553 922	PAN-12x1,75-GN  New	50
					Red	553 928	PAN-12x1,75-RT  New	50
					Yellow	553 934	PAN-12x1,75-GE  New	50
16	12	67	94	0.092	Silver	152 703	PAN-16x2-SI	50
					Silver	553 893	PAN-16x2-SI-100  New	100
					Blue	553 911	PAN-16x2-BL  New	50
					Blue	553 899	PAN-16x2-BL-100  New	100
					Black	553 917	PAN-16x2-SW  New	50
					Black	553 905	PAN-16x2-SW-100  New	100
					Natural	546 289	PAN-16x2-NT	50
					Green	553 923	PAN-16x2-GN  New	50
					Red	553 929	PAN-16x2-RT  New	50
					Yellow	553 935	PAN-16x2-GE  New	50

1) Packaging unit

Plastic tubing PAN-R, standard O.D.

Technical data

FESTO

Plastic tubing PAN-R

For high-pressure applications.

-  - Ambient temperature
-30 ... +80 °C

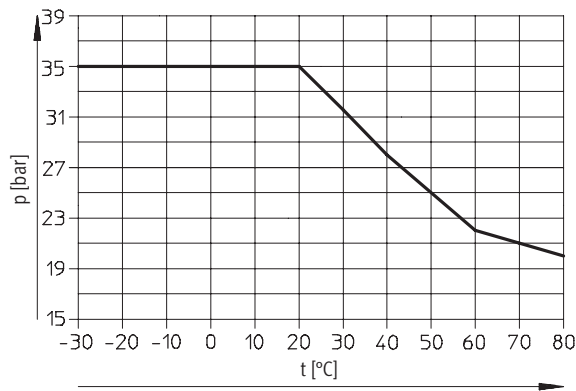
-  - Temperature dependent
operating pressure
-0,95 ... +35 bar

Material: Polyamide

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star¹⁾
→ Internet: qs



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f

Accessories



Pipe and tubing cutter ZRS
→ Internet: tool

1) Note application range of push-in fittings

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
4	2.5	7	16	0.0079	Silver	541 674	PAN-R-4x0,75-SI	50
6	3.8	12	21	0.0174		541 675	PAN-R-6x1,1-SI	50
8	5	16	29	0.0316		541 676	PAN-R-8x1,5-SI	50
10	6.2	18	44	0.0498		541 677	PAN-R-10x1,9-SI	50
12	7.6	24	46	0.0698		541 678	PAN-R-12x2,2-SI	50
16	10	33	73	0.1262		541 679	PAN-R-16x3-SI	50

1) Packaging unit

Plastic tubing PAN-V0, standard O.D., flame retardant

FESTO

Technical data

Plastic tubing PAN-V0

PVC casing, flame retardant to UL 94

VO. Casing must be cut to length X (see table) before assembly.

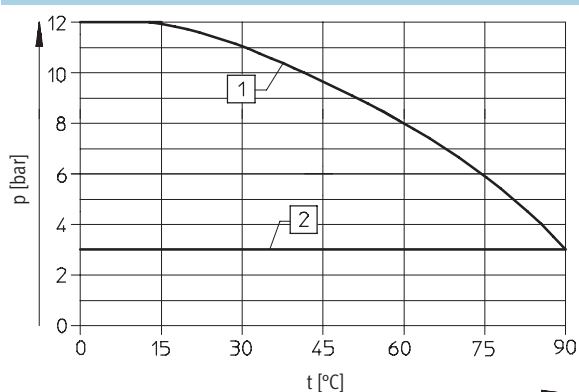
-  - Ambient temperature
-30 ... +90 °C

-  - Temperature dependent
operating pressure
-0.95 ... +12 bar

Material:
Outer tubing: Polyvinyl chloride
Inner tubing: Polyamide



Operating pressure p as a function of temperature t



- 1 Operating medium air
2 Operating medium oil/water

Possible fittings



Push-in fittings QS-V0,
Quick Star, flame-retardant
→ Internet: qs-v0

Accessories



Tubing cutter PAN-V0S-...
→ Internet: tool

Dimensions and ordering data

For push-in fitting	O.D.	Min. bending radius	Flow-relevant bending radius	Max. cut length X	Weight	Colour	Part No.	Type	PU ¹⁾
O.D.	[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
6	8	13	30	17	0.049	Black	160 550	PAN-V0-6x1-SW	50
						Blue	525 466	PAN-V0-6x1-BL	20
						Green	525 470	PAN-V0-6x1-GN	20
						Red	525 474	PAN-V0-6x1-RT	20
						White	525 478	PAN-V0-6x1-WS	20
						Yellow	525 482	PAN-V0-6x1-GE	20
						Brown	525 486	PAN-V0-6x1-BR	20
8	10	24	45	18	0.065	Black	160 551	PAN-V0-8x1-SW	50
						Blue	525 467	PAN-V0-8x1-BL	20
						Green	525 471	PAN-V0-8x1-GN	20
						Red	525 475	PAN-V0-8x1-RT	20
						White	525 479	PAN-V0-8x1-WS	20
						Yellow	525 483	PAN-V0-8x1-GE	20
						Brown	525 487	PAN-V0-8x1-BR	20

1) Packaging unit

Plastic tubing PAN-V0, standard O.D., flame retardant



Technical data

Dimensions and ordering data									
For push-in fitting O.D. [mm]	O.D. [mm]	Min. bending radius [mm]	Flow-relevant bending radius [mm]	Max. cut length X [mm]	Weight [kg/m]	Colour	Part No.	Type	PU ¹⁾ [m]
10	12	34	56	20	0.088	Black	160 552	PAN-V0-10x1,25-SW	50
						Blue	525 468	PAN-V0-10x1,25-BL	20
						Green	525 472	PAN-V0-10x1,25-GN	20
						Red	525 476	PAN-V0-10x1,25-RT	20
						White	525 480	PAN-V0-10x1,25-WS	20
						Yellow	525 484	PAN-V0-10x1,25-GE	20
						Brown	525 488	PAN-V0-10x1,25-BR	20
12	14	43	65	23	0.133	Black	160 553	PAN-V0-12x1,5-SW	50
						Blue	525 469	PAN-V0-12x1,5-BL	20
						Green	525 473	PAN-V0-12x1,5-GN	20
						Red	525 477	PAN-V0-12x1,5-RT	20
						White	525 481	PAN-V0-12x1,5-WS	20
						Yellow	525 485	PAN-V0-12x1,5-GE	20
						Brown	525 489	PAN-V0-12x1,5-BR	20

1) Packaging unit

Plastic tubing PAN, standard O.D.

Ordering data – Modular products

[M] Mandatory data		[O] Options	[M]		[O]	[M]	
Module No.	Function	Alternative material characteristic	Tubing O.D.	Colour	Inscription text	Packaging unit	Packaging
553 610	PAN	– R	4 6 8 10 12 16	SI BL SW GE GN RT BR WS NT	– TXT	25 50 100 200 300 400 500	CB HA
Order example							
553 610	PAN	–	4	SI	–	25	CB

Ordering table (minimum order quantity 3000 m, rounding-off value 25 m)

Size	4	6	8	10	12	16	Condi- tions	Code	Enter code
[M] Module No.	553 610								
Function	Polyamide tubing, standard O.D.							PAN	PAN
[O] Alternative material characteristic	Standard								
	Sturdy							-R	
[M] Tubing O.D. [mm]	4	–	–	–	–	–		-4	
	–	6	–	–	–	–		-6	
	–	–	8	–	–	–		-8	
	–	–	–	10	–	–		-10	
	–	–	–	–	12	–		-12	
	–	–	–	–	–	16		-16	
Colour	Silver							-SI	
	Blue							-BL	
	Black							-SW	
	Yellow							-GE	
	Green							-GN	
	Red							-RT	
	Brown							-BR	
	White							-WS	
	Neutral							-NT	
[O] Inscription text (on request)	Standard								
	Customer-specific tube inscription						[1]	-TXT	
[M] Packaging unit [m]	25							-25	
	50							-50	
	100							-100	
	200							-200	
	300							-300	
	400							-400	
	500							-500	
Packaging	Cardboard box						[2]	-CB	
	Reel						[3]	-HA	

[1] TXT Only on request
[2] CB Only with packaging unit 25, 50

[3] HA Not with packaging unit 25, 50

Transfer order code

553 610 PAN – – – – –

Plastic tubing PFAN, standard O.D.

Technical data

FESTO

Plastic tubing PFAN

Pneumatic tubing with resistance to high temperatures and chemicals.

-  - Ambient temperature
-20 ... +150 °C

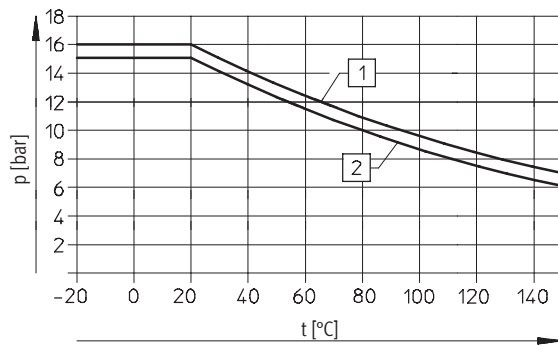
-  - Temperature dependent
operating pressure
-0.95 ... +16 bar

Material:
Perfluor-alkoxykautschuk

Note on material:
RoHS-conform



Operating pressure p as a function of temperature t



- 1 PFAN-6/10/12
2 PFAN-4/8

Possible fittings



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f



Quick connectors CK
→ Internet: ck



Push-in fittings CRQS, Quick Star,
stainless steel¹⁾
→ Internet: crqs

1) Recommended fitting

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]
4	2.9	11	37	0.012	Natural	197 061	PFAN-4x0,75-NT	50
6	4	12	50	0.034		197 062	PFAN-6x1-NT	50
8	5.9	25	110	0.049		197 063	PFAN-8x1,25-NT	50
10	7	22	140	0.087		197 064	PFAN-10x1,5-NT	50
12	8.4	29	165	0.125		197 065	PFAN-12x1,75-NT	50

1) Packaging unit

Plastic tubing PEN, standard O.D.

Technical data

Plastic tubing PEN

Polyethylene tubing is distinguished by its high resistance to chemicals and hydrolysis. It is also resistant to most cleaning agents and lubricants.

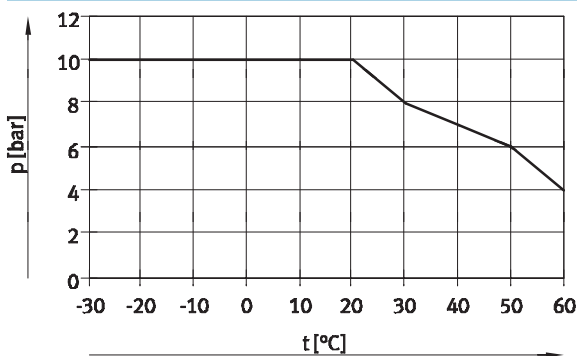
-  - Ambient temperature
-30 ... +60 °C
-  - Temperature dependent
operating pressure
-0.95 ... +10 bar

Material:
Polyethylene

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



Operating pressure p as a function of temperature t



Possible fittings



Push-in fitting QS-B,
Quick Star¹⁾
→ Internet: qs-b



Barbed fitting CN
→ Internet: cn



Push-in fitting QS-F,
Quick Star, metal
→ Internet: qs-f



Quick connector CK
→ Internet: ck

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
4	2.7	10	20	0.0064	Black	543 240	PEN-4x0,75-SW	50
					Black	551 438	PEN-4x0,75-SW-500  New	500
					Blue	551 456	PEN-4x0,75-BL  New	50
					Blue	551 444	PEN-4x0,75-BL-500  New	500
					Silver	551 462	PEN-4x0,75-SI  New	50
					Silver	551 450	PEN-4x0,75-SI-500  New	500
					Natural	543 246	PEN-4x0,75-NT	50
					Green	551 468	PEN-4x0,75-GN  New	50
					Red	551 474	PEN-4x0,75-RT  New	50
					Yellow	551 480	PEN-4x0,75-GE  New	50

1) Packaging unit

Plastic tubing PEN, standard O.D.

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
6	4	13.5	26	0.0148	Black	543 241	PEN-6x1-SW	50
					Black	551 439	PEN-6x1-SW-500 	500
					Blue	551 457	PEN-6x1-BL 	50
					Blue	551 445	PEN-6x1-BL-500 	500
					Silver	551 463	PEN-6x1-SI 	50
					Silver	551 451	PEN-6x1-SI-500 	500
					Natural	543 247	PEN-6x1-NT	50
					Green	551 469	PEN-6x1-GN 	50
					Red	551 475	PEN-6x1-RT 	50
					Yellow	551 481	PEN-6x1-GE 	50
8	5.7	22.5	35	0.0233	Black	543 242	PEN-8x1,25-SW	50
					Black	551 440	PEN-8x1,25-SW-400 	400
					Blue	551 458	PEN-8x1,25-BL 	50
					Blue	551 446	PEN-8x1,25-BL-400 	400
					Silver	551 464	PEN-8x1,25-SI 	50
					Silver	551 452	PEN-8x1,25-SI-400 	400
					Natural	543 248	PEN-8x1,25-NT	50
					Green	551 470	PEN-8x1,25-GN 	50
					Red	551 476	PEN-8x1,25-RT 	50
					Yellow	551 482	PEN-8x1,25-GE 	50
10	7	23.5	40	0.0377	Black	543 243	PEN-10x1,5-SW	50
					Black	551 441	PEN-10x1,5-SW-300 	300
					Blue	551 459	PEN-10x1,5-BL 	50
					Blue	551 447	PEN-10x1,5-BL-300 	300
					Silver	551 465	PEN-10x1,5-SI 	50
					Silver	551 453	PEN-10x1,5-SI-300 	300
					Natural	543 249	PEN-10x1,5-NT	50
					Green	551 471	PEN-10x1,5-GN 	50
					Red	551 477	PEN-10x1,5-RT 	50
					Yellow	551 483	PEN-10x1,5-GE 	50
12	8.4	33	58	0.0542	Black	543 244	PEN-12x1,75-SW	50
					Black	551 442	PEN-12x1,75-SW-200 	200
					Blue	551 460	PEN-12x1,75-BL 	50
					Blue	551 448	PEN-12x1,75-BL-200 	200
					Silver	551 466	PEN-12x1,75-SI 	50
					Silver	551 454	PEN-12x1,75-SI-200 	200
					Natural	543 250	PEN-12x1,75-NT	50
					Green	551 472	PEN-12x1,75-GN 	50
					Red	551 478	PEN-12x1,75-RT 	50
					Yellow	551 484	PEN-12x1,75-GE 	50
16	10.8	57.5	122	0.1029	Black	543 245	PEN-16x2,5-SW	50
					Black	551 443	PEN-16x2,5-SW-100 	100
					Blue	551 461	PEN-16x2,5-BL 	50
					Blue	551 449	PEN-16x2,5-BL-100 	100
					Silver	551 467	PEN-16x2,5-SI 	50
					Silver	551 455	PEN-16x2,5-SI-100 	100
					Natural	543 251	PEN-16x2,5-NT	50
					Green	551 473	PEN-16x2,5-GN 	50
					Red	551 479	PEN-16x2,5-RT 	50
					Yellow	551 485	PEN-16x2,5-GE 	50

1) Packaging unit

Plastic tubing PEN, standard O.D.

Ordering data – Modular products

[M] Mandatory data

Module No.	Function	Tubing O.D.	Colour	Packaging unit	Packaging
553 769	PEN	4 6 8 10 12 16	SI BL SW GE GN RT BR WS NT	25 50 100 200 300 400 500	CB HA
Order example					
553 769	PEN	4	SI	25	CB

Ordering table (minimum order quantity 3000 m, rounding-off value 25 m)

Ordering table (minimum order quantity 1000 m, rounding on value 25 m)										
Size	4	6	8	10	12	16	Condi- tions	Code	Enter code	
[M]	Module No.	553 769								
	Function	Polyethylene tubing, standard O.D., economical							PEN	PEN
	Tubing O.D. [mm]	4	–	–	–	–	–		-4	
		–	6	–	–	–	–		-6	
		–	–	8	–	–	–		-8	
		–	–	–	10	–	–		-10	
		–	–	–	–	12	–		-12	
		–	–	–	–	–	16		-16	
	Colour	Silver							-SI	
		Blue							-BL	
		Black							-SW	
		Yellow							-GE	
		Green							-GN	
		Red							-RT	
		Brown							-BR	
		White							-WS	
		Neutral							-NT	
	Packaging unit [m]	25							-25	
		50							-50	
		100							-100	
		200					–		-200	
300					–		-300			
400				–	–		-400			
500			–	–	–		-500			
Packaging		Cardboard box						1	-CB	
	Reel						2	-HA		

1 CB Only with packaging unit 25, 50

2 HA Not with packaging unit 25, 50

Transfer order code

553 769	PEN	–		–		–		–	
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Plastic tubing PLN, standard O.D.

Technical data

Plastic tubing PLN

Polyethylene tubing is distinguished by great resistance to chemicals and hydrolysis. It is resistant to most cleaning agents and lubricants.

-  - Ambient temperature
-30 ... +80 °C

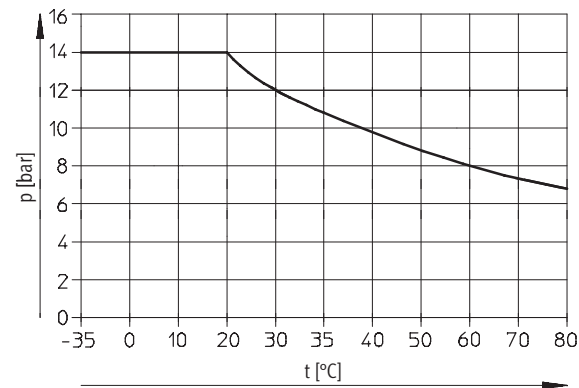
-  - Temperature dependent
operating pressure
-0.95 ... +14 bar

Material:
Polyethylene

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



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star
→ Internet: qs



Barbed fittings CN
→ Internet: cn



Push-in fittings QS-F,
Quick Star, metal¹⁾
→ Internet: qs-f



Quick connectors CK
→ Internet: ck

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
4	2.9	12	25	0.0056	Natural	193 403	PLN-4x0,75-NT	50
					Black	195 280	PLN-4x0,75-SW	50
					Blue	558 205	PLN-4x0,75-BL 	50
					Silver	558 211	PLN-4x0,75-SI 	50
					Red	558 217	PLN-4x0,75-RT 	50
6	4	11	32	0.0147	Natural	193 404	PLN-6x1-NT	50
					Black	195 281	PLN-6x1-SW	50
					Blue	558 206	PLN-6x1-BL 	50
					Silver	558 212	PLN-6x1-SI 	50
					Red	558 218	PLN-6x1-RT 	50
8	5.9	23	50	0.0214	Natural	193 405	PLN-8x1,25-NT	50
					Black	195 282	PLN-8x1,25-SW	50
					Blue	558 207	PLN-8x1,25-BL 	50
					Silver	558 213	PLN-8x1,25-SI 	50
					Red	558 219	PLN-8x1,25-RT 	50

1) Packaging unit

Plastic tubing PLN, standard O.D.

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
10	7	22	57	0.0375	Natural	193 406	PLN-10x1,5-NT	50
					Black	195 283	PLN-10x1,5-SW	50
					Blue	558 208	PLN-10x1,5-BL  New	50
					Silver	558 214	PLN-10x1,5-SI  New	50
					Red	558 220	PLN-10x1,5-RT  New	50
12	8.4	23	65	0.0540	Natural	193 407	PLN-12x1,75-NT	50
					Black	195 284	PLN-12x1,75-SW	50
					Blue	558 209	PLN-12x1,75-BL  New	50
					Silver	558 215	PLN-12x1,75-SI  New	50
					Red	558 221	PLN-12x1,75-RT  New	50
16	12	55	95	0.0820	Natural	539 064	PLN-16x2-NT	50
					Black	539 065	PLN-16x2-SW	50
					Blue	558 210	PLN-16x2-BL  New	50
					Silver	558 216	PLN-16x2-SI  New	50
					Red	558 222	PLN-16x2-RT  New	50

1) Packaging unit

Plastic tubing PLN, standard O.D.

Ordering data – Modular products

FESTO

M Mandatory data

Module No.	Function	Tubing O.D.	Colour	Packaging unit	Packaging
553 850	PLN	4 6 8 10 12 16	SI BL SW GE GN RT BR WS NT	25 50 100 200 300 400 500	CB HA
Order example					
553 850	PLN	4	SI	25	CB

Ordering table (minimum order quantity 3000 m, rounding-off value 25 m)

Size	4	6	8	10	12	16	Condi- tions	Code	Enter code
M Module No.	553 850								
Function	Polyethylene tubing, standard O.D., resistant to cleaning agents (approved for use in the food industry)							PLN	PLN
Tubing O.D. [mm]	4	–	–	–	–	–		-4	
	–	6	–	–	–	–		-6	
	–	–	8	–	–	–		-8	
	–	–	–	10	–	–		-10	
	–	–	–	–	12	–		-12	
	–	–	–	–	–	16		-16	
Colour	Silver							-SI	
	Blue							-BL	
	Black							-SW	
	Yellow							-GE	
	Green							-GN	
	Red							-RT	
	Brown							-BR	
	White							-WS	
	Neutral							-NT	
Packaging unit [m]	25							-25	
	50							-50	
	100							-100	
	200							-200	
	300							-300	
	400							-400	
	500							-500	
Packaging	Cardboard box						1	-CB	
	Reel						2	-HA	

1 CB Only with packaging unit 25, 50

3 HA Not with packaging unit 25, 50

Transfer order code

553 850	PLN	–		–		–		–	
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Plastic tubing PUN, standard O.D.

Technical data

Plastic tubing PUN

Highly flexible plastic tubing.

-  - Ambient temperature
-35 ... +60 °C

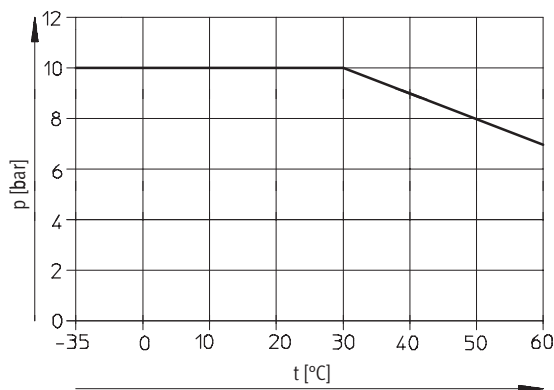
-  - Temperature dependent
operating pressure
-0.95 ... +10 bar

Material:
Polyurethane

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



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star¹⁾
→ Internet: qs



Quick connectors CK
→ Internet: ck



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
3.0	2.1	9	12	0.004	Silver	152 583	PUN-3x0,5-SI	50
					Silver	525 738	PUN-3 x 0,5-SI-500	500
					Blue	159 660	PUN-3x0,5-BL	50
					Blue	525 745	PUN-3x0,5-BL-500	500
					Black	159 661	PUN-3x0,5-SW	50
					Black	553 936	PUN-3x0,5-SW-500 	500
					Yellow	178 416	PUN-3x0,5-GE	50
					Green	178 423	PUN-3x0,5-GN	50
					Red	178 409	PUN-3x0,5-RT	50
4.0	2.6	8	17	0.009	Silver	152 584	PUN-4x0,75-SI	50
					Silver	525 739	PUN-4x0,75-SI-500	500
					Blue	159 662	PUN-4x0,75-BL	50
					Blue	525 746	PUN-4x0,75-BL-500	500
					Black	159 663	PUN-4x0,75-SW	50
					Black	553 937	PUN-4x0,75-SW-500 	500
					Yellow	178 417	PUN-4x0,75-GE	50
					Green	178 424	PUN-4x0,75-GN	50
					Red	178 410	PUN-4x0,75-RT	50

1) Packaging unit

Plastic tubing PUN, standard O.D.

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
6.0	4.0	14	26.5	0.019	Silver	152 586	PUN-6x1-SI	50
					Silver	525 740	PUN-6x1-SI-500	500
					Blue	159 664	PUN-6x1-BL	50
					Blue	525 747	PUN-6x1-BL-500	500
					Black	159 665	PUN-6x1-SW	50
					Black	553 938	PUN-6x1-SW-500  New	500
					Yellow	178 418	PUN-6x1-GE	50
					Green	178 425	PUN-6x1-GN	50
					Red	178 411	PUN-6x1-RT	50
8.0	5.7	20	37	0.030	Silver	152 587	PUN-8x1,25-SI	50
					Silver	525 741	PUN-8x1,25-SI-400	400
					Blue	159 666	PUN-8x1,25-BL	50
					Blue	525 748	PUN-8x1,25-BL-400	400
					Black	159 667	PUN-8x1,25-SW	50
					Black	553 939	PUN-8x1,25-SW-400  New	400
					Yellow	178 419	PUN-8x1,25-GE	50
					Green	178 426	PUN-8x1,25-GN	50
					Red	178 412	PUN-8x1,25-RT	50
10.0	7.0	25	54	0.049	Silver	152 588	PUN-10x1,5-SI	50
					Silver	525 742	PUN-10x1,5-SI-300	300
					Blue	159 668	PUN-10x1,5-BL	50
					Blue	525 749	PUN-10x1,5-BL-300	300
					Black	159 669	PUN-10x1,5-SW	50
					Black	553 940	PUN-10x1,5-SW-300  New	300
					Yellow	178 420	PUN-10x1,5-GE	50
					Green	178 427	PUN-10x1,5-GN	50
					Red	178 413	PUN-10x1,5-RT	50
12.0	8.0	23	62	0.077	Silver	152 589	PUN-12x2-SI	50
					Silver	525 743	PUN-12x2-SI-200	200
					Blue	159 670	PUN-12x2-BL	50
					Blue	252 750	PUN-12x2-BL-200	200
					Black	159 671	PUN-12x2-SW	50
					Black	553 941	PUN-12x2-SW-200  New	200
					Yellow	178 421	PUN-12x2-GE	50
					Green	178 428	PUN-12x2-GN	50
					Red	178 414	PUN-12x2-RT	50
16.0	11.0	43	88	0.129	Silver	152 590	PUN-16x2,5-SI	50
					Silver	525 744	PUN-16x2,5-SI-100	100
					Blue	159 672	PUN-16x2,5-BL	50
					Blue	525 751	PUN-16x2,5-BL-100	100
					Black	159 673	PUN-16x2,5-SW	50
					Black	553 942	PUN-16x2,5-SW-100  New	100
					Yellow	178 422	PUN-16x2,5-GE	50
					Green	178 429	PUN-16x2,5-GN	50
					Red	178 415	PUN-16x2,5-RT	50

1) Packaging unit

Plastic tubing PUN-DUO, standard O.D.

Technical data

FESTO

DUO tubing PUN-DUO

Highly flexible paired plastic tubing distinguished by great resistance to abrasion and kinks. Two lengths of tubing are fused together into a tubing pair. For fitting, the paired tubing is separated as required at both ends.

-  - Ambient temperature
-35 ... +60 °C

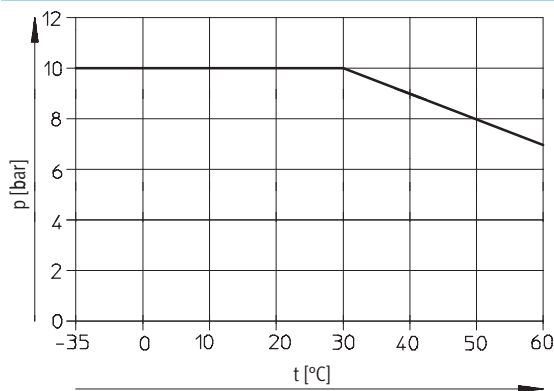
-  - Temperature dependent
operating pressure
-0.95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star¹⁾
→ Internet: qs



Quick connectors CK
→ Internet: ck



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f

1) Recommended fitting

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]
4	2.6	8	17	0.018	Silver	152 822	PUN-4x0,75-DUO-SI	50
					Blue/black	159 674	PUN-4x0,75-DUO-BS	50
6	4	14	26.5	0.038	Silver	152 823	PUN-6x1-DUO-SI	50
					Blue/black	159 675	PUN-6x1-DUO-BS	50
8	5.7	20	37	0.060	Silver	152 824	PUN-8x1,25-DUO-SI	50
					Blue/black	159 676	PUN-8x1,25-DUO-BS	50
10	7	25	54	0.098	Silver	152 825	PUN-10x1,5-DUO-SI	50
					Blue/black	159 677	PUN-10x1,5-DUO-BS	50

1) Packaging unit

Plastic tubing PUN-E, standard O.D.

Technical data

FESTO

Plastic tubing PUN-E

Highly flexible, hydrolysis and microbe resistant tubing

Food certification FDA for blue and black design.

-  - Ambient temperature
-35 ... +50 °C

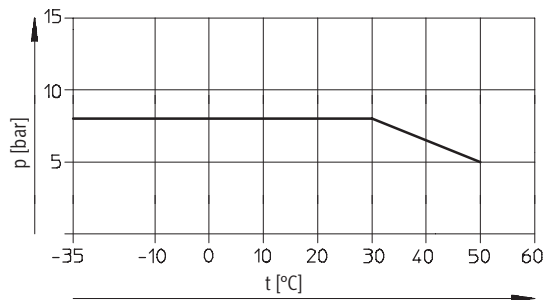
-  - Temperature dependent
operating pressure
-0.95 ... +8 bar

Material:
Polyurethane

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



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS-B,
Quick Star¹⁾
→ Internet: qs-b



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f

1) Recommended fittings

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]
4	2.8	8	30	0.008	Silver	535 320	PUN-E-4x0,6-SI	50
						534 170	PUN-E-4x0,6-SI-500	500
					Blue	535 325	PUN-E-4x0,6-BL	50
						534 171	PUN-E-4x0,6-BL-500	500
					Black	538 465	PUN-E-4x0,6-SW	50
						538 460	PUN-E-4x0,6-SW-500	500
6	4.4	15	45	0.018	Silver	535 321	PUN-E-6x0,8-SI	50
						534 172	PUN-E-6x0,8-SI-500	500
					Blue	535 326	PUN-E-6x0,8-BL	50
						534 173	PUN-E-6x0,8-BL-500	500
					Black	538 466	PUN-E-6x0,8-SW	50
						538 461	PUN-E-6x0,8-SW-500	500
8	6	23	50	0.026	Silver	535 322	PUN-E-8x1-SI	50
						534 174	PUN-E-8x1-SI-400	400
					Blue	535 327	PUN-E-8x1-BL	50
						534 175	PUN-E-8x1-BL-400	400
					Black	538 467	PUN-E-8x1-SW	50
						538 462	PUN-E-8x1-SW-400	400
10	7.5	26	60	0.044	Silver	535 323	PUN-E-10x1,25-SI	50
						534 176	PUN-E-10x1,25-SI-300	300
					Blue	535 328	PUN-E-10x1,25-BL	50
						534 177	PUN-E-10x1,25-BL-300	300
					Black	538 468	PUN-E-10x1,25-SW	50
						538 463	PUN-E-10x1,25-SW-300	300

1) Packaging unit

Plastic tubing PUN-E, standard O.D.

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
12	8.8	36	80	0.069	Silver	535 324	PUN-E-12x1,6-SI	50
						534 178	PUN-E-12x1,6-SI-200	200
					Blue	535 329	PUN-E-12x1,6-BL	50
						534 179	PUN-E-12x1,6-BL-200	200
					Black	538 469	PUN-E-12x1,6-SW	50
						538 464	PUN-E-12x1,6-SW-200	200

1) Packaging unit

Plastic tubing PUN-CM, standard O.D., antistatic

Technical data

FESTO

Plastic tubing PUN-CM

Highly flexible plastic tubing,
electrically conductive.
Surface resistance $10^4 \dots 10^7 \text{ Ohm}$

-  - Ambient temperature
-35 ... +60 °C

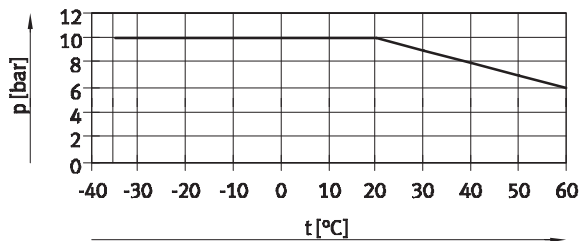
-  - Temperature dependent
operating pressure
-0,95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS-F,
Quick Star, metal
→ Internet: qs-f

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]
4	2.5	5	17	0.0089	Black	188 882	PUN-CM-4-SW	50
6	4	13	26.5	0.0192		188 883	PUN-CM-6-SW	50
8	5.5	14	37	0.0320		130 816	PUN-CM-8-SW	50
10	7	19	54	0.0480		130 817	PUN-CM-10-SW	50
12	8	22	70	0.0754		130 818	PUN-CM-12-SW	50

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis resistant

Technical data

FESTO

Plastic tubing PUN-H

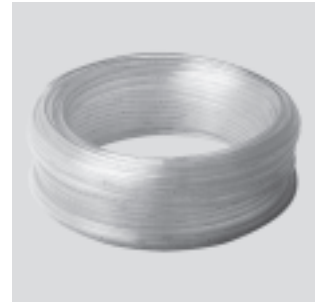
Approved for use in the food industry.

-  - Ambient temperature
-35 ... +60 °C

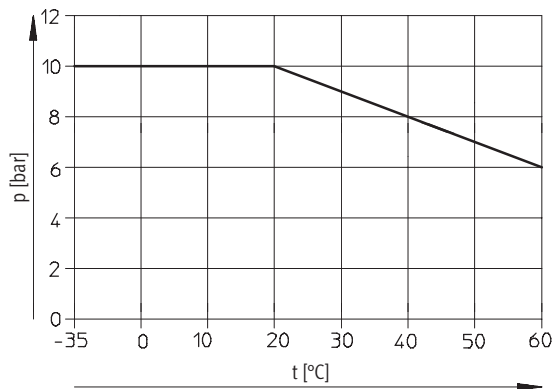
-  - Temperature dependent
operating pressure
-0,95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star
➔ Internet: qs



Push-in fittings QS-F,
Quick Star, metal¹⁾
➔ Internet: qs-f

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
3	2.1	6	12	0.0042	Natural	197 375	PUN-H-3x0,5-NT	50
					Natural	558 263	PUN-H-3x0,5-NT-500  New	500
					Blue	197 382	PUN-H-3x0,5-BL	50
					Blue	558 256	PUN-H-3x0,5 BL-500  New	500
					Black	197 389	PUN-H-3x0,5-SW	50
					Black	558 249	PUN-H-3x0,5-SW-500  New	500
					Silver	558 277	PUN-H-3x0,5-SI  New	50
					Silver	558 270	PUN-H-3x0,5-SI-500  New	500
					Red	558 284	PUN-H-3x0,5-RT  New	50
					Green	558 291	PUN-H-3x0,5-GN  New	50
					Yellow	558 298	PUN-H-3x0,5-GE  New	50
4	2.6	6	16	0.0085	Natural	197 376	PUN-H-4x0,75-NT	50
					Natural	558 264	PUN-H-4x0,75-NT-500  New	500
					Blue	197 383	PUN-H-4x0,75-BL	50
					Blue	558 257	PUN-H-4x0,75-BL-500  New	50
					Black	197 390	PUN-H-4x0,75-SW	500
					Black	558 250	PUN-H-4x0,75-SW-500  New	500
					Silver	558 278	PUN-H-4x0,75-SI  New	50
					Silver	558 271	PUN-H-4x0,75-SI-500  New	500
					Red	558 285	PUN-H-4x0,75-RT  New	50
					Green	558 292	PUN-H-4x0,75-GN  New	50
					Yellow	558 299	PUN-H-4x0,75-GE  New	50

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis resistant

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
6	4	10	26	0.0183	Natural	197 377	PUN-H-6x1-NT	50
					Natural	558 265	PUN-H-6x1-NT-500  New	500
					Blue	197 384	PUN-H-6x1-BL	50
					Blue	558 258	PUN-H-6x1-BL-500  New	500
					Black	197 391	PUN-H-6x1-SW	50
					Black	558 251	PUN-H-6x1-SW-500  New	500
					Silver	558 279	PUN-H-6x1-SI  New	50
					Silver	558 272	PUN-H-6x1-SI-500  New	500
					Red	558 286	PUN-H-6x1-RT  New	50
					Green	558 293	PUN-H-6x1-GN  New	50
					Yellow	558 300	PUN-H-6x1-GE  New	50
8	5.7	20	37	0.0287	Natural	197 378	PUN-H-8x1,25-NT	50
					Natural	558 266	PUN-H-8x1,25-NT-400  New	400
					Blue	197 385	PUN-H-8x1,25-BL	50
					Blue	558 259	PUN-H-8x1,25-BL-400  New	400
					Black	197 392	PUN-H-8x1,25-SW	50
					Black	558 252	PUN-H-8x1,25-SW-400  New	400
					Silver	558 280	PUN-H-8x1,25-SI  New	50
					Silver	558 273	PUN-H-8x1,25-SI-400  New	400
					Red	558 287	PUN-H-8x1,25-RT  New	50
					Green	558 294	PUN-H-8x1,25-GN  New	50
					Yellow	558 301	PUN-H-8x1,25-GE  New	50
10	7	25	52	0.0465	Natural	197 379	PUN-H-10x1,5-NT	50
					Natural	558 267	PUN-H-10x1,5-NT-300  New	300
					Blue	197 386	PUN-H-10x1,5-BL	50
					Blue	558 260	PUN-H-10x1,5-BL-300  New	300
					Black	197 393	PUN-H-10x1,5-SW	50
					Black	558 253	PUN-H-10x1,5-SW-300  New	300
					Silver	558 281	PUN-H-10x1,5-SI  New	50
					Silver	558 274	PUN-H-10x1,5-SI-300  New	300
					Red	558 288	PUN-H-10x1,5-RT  New	50
					Green	558 295	PUN-H-10x1,5-GN  New	50
					Yellow	558 302	PUN-H-10x1,5-GE  New	50
12	8	23	62	0.0729	Natural	197 380	PUN-H-12x2-NT	50
					Natural	558 268	PUN-H-12x2-NT-200  New	200
					Blue	197 387	PUN-H-12x2-BL	50
					Blue	558 261	PUN-H-12x2-BL-200  New	200
					Black	197 394	PUN-H-12x2-SW	50
					Black	558 254	PUN-H-12x2-SW-200  New	200
					Silver	558 282	PUN-H-12x2-SI  New	50
					Silver	558 275	PUN-H-12x2-SI-200  New	200
					Red	558 289	PUN-H-12x2-RT  New	50
					Green	558 296	PUN-H-12x2-GN  New	50
					Yellow	558 303	PUN-H-12x2-GE  New	50

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis resistant

Technical data

FESTO

Dimensions and ordering data								
O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
16	11	38	88	0.1230	Natural	197 381	PUN-H-16x2,5-NT	50
					Natural	558 269	PUN-H-16x2,5-NT-100  New	100
					Blue	197 388	PUN-H-16x2,5-BL	50
					Blue	558 262	PUN-H-16x2,5-BL-100  New	100
					Black	197 395	PUN-H-16x2,5-SW	50
					Black	558 255	PUN-H-16x2,5-SW-100  New	100
					Silver	558 283	PUN-H-16x2,5-SI  New	50
					Silver	558 276	PUN-H-16x2,5-SI-100  New	100
					Red	558 290	PUN-H-16x2,5-RT  New	50
					Green	558 297	PUN-H-16x2,5-GN  New	50
					Yellow	558 304	PUN-H-16x2,5-GE  New	50

1) Packaging unit

Plastic tubing PUN-H-DUO, standard O.D., hydrolysis resistant

Technical data

FESTO

DUO tubing PUN-H-DUO

Highly flexible paired plastic tubing distinguished by great resistance to abrasion and kinks. Two lengths of tubing are fused together into a tubing pair. For fitting, the paired tubing is separated as required at both ends.

-  - Ambient temperature
-35 ... +60 °C

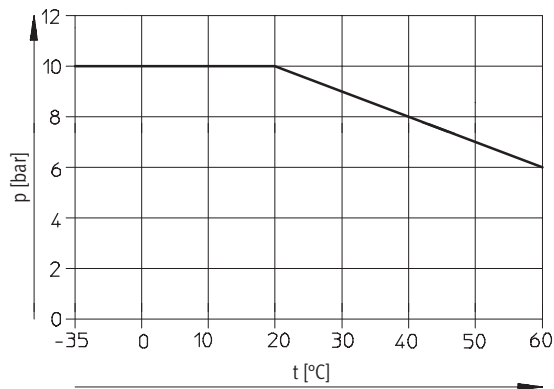
-  - Temperature dependent
operating pressure
-0,95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star
➔ Internet: qs



Push-in fittings QS-F,
Quick Star, metal¹⁾
➔ Internet: qs-f

1) Recommended fitting

Dimensions and ordering data

O.D.	I.D.	Min. bending radius	Flow-relevant bending radius	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
4	2.6	6	16	0.0170	Blue/black	197 396	PUN-H-4x0,75-DUO	50
6	4	10	26	0.0366	Blue/black	197 397	PUN-H-6x1-DUO	50
8	5.7	20	37	0.0574	Blue/black	197 398	PUN-H-8x1,25-DUO	50
10	7	25	52	0.0930	Blue/black	197 399	PUN-H-10x1,5-DUO	50

1) Packaging unit

Plastic tubing PUN-V0, standard O.D., flame retardant

FESTO

Technical data

Plastic tubing PUN-V0

Highly flexible plastic tubing, flame retardant to UL 94 V0 ... V2.

-  - Ambient temperature
-35 ... +60 °C

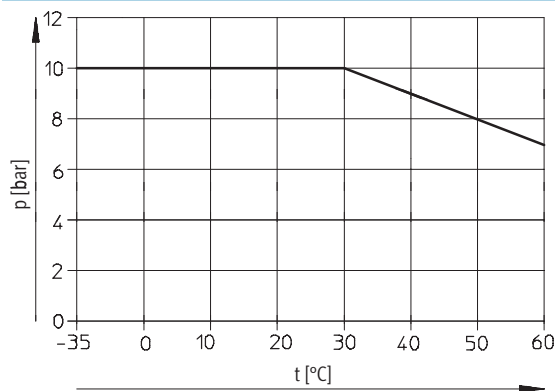
-  - Temperature dependent
operating pressure
-0,95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper, PTFE and silicone



Operating pressure p as a function of temperature t



Possible fittings



Push-in fittings QS,
Quick Star
→ Internet: qs



Quick connectors CK
→ Internet: ck



Push-in fittings QS-F,
Quick Star, metal¹⁾
→ Internet: qs-f

1) Recommended fitting

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]
6	4	12	26.5	0.020	Black	525 438	PUN-V0-6x1-SW	50
					Blue	525 442	PUN-V0-6x1-BL	50
					Green	525 446	PUN-V0-6x1-GN	50
					Red	525 450	PUN-V0-6x1-RT	50
					White	525 454	PUN-V0-6x1-WS	50
					Yellow	525 458	PUN-V0-6x1-GE	50
					Brown	525 462	PUN-V0-6x1-BR	50
8	5.7	18	37	0.031	Black	525 439	PUN-V0-8x1,25-SW	50
					Blue	525 443	PUN-V0-8x1,25-BL	50
					Green	525 447	PUN-V0-8x1,25-GN	50
					Red	525 451	PUN-V0-8x1,25-RT	50
					White	525 455	PUN-V0-8x1,25-WS	50
					Yellow	525 459	PUN-V0-8x1,25-GE	50
					Brown	525 463	PUN-V0-8x1,25-BR	50

1) Packaging unit

Plastic tubing PUN-V0, standard O.D., flame retardant

Technical data



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]
10	7	20	54	0.051	Black	525 440	PUN-V0-10x1,5-SW	50
					Blue	525 444	PUN-V0-10x1,5-BL	50
					Green	525 448	PUN-V0-10x1,5-GN	50
					Red	525 452	PUN-V0-10x1,5-RT	50
					White	525 456	PUN-V0-10x1,5-WS	50
					Yellow	525 460	PUN-V0-10x1,5-GE	50
					Brown	525 464	PUN-V0-10x1,5-BR	50
12	8	21	62	0.080	Black	525 441	PUN-V0-12x2-SW	50
					Blue	525 445	PUN-V0-12x2-BL	50
					Green	525 449	PUN-V0-12x2-GN	50
					Red	525 453	PUN-V0-12x2-RT	50
					White	525 457	PUN-V0-12x2-WS	50
					Yellow	525 461	PUN-V0-12x2-GE	50
					Brown	525 465	PUN-V0-12x2-BR	50

1) Packaging unit

Plastic tubing PUN-V0-B, standard O.D., flame retardant

FESTO

Technical data

Plastic tubing PUN-V0-B

Highly flexible single-sheath plastic tubing, flame retardant to UL 94 V0 ... V2
For use in the immediate vicinity of welding applications.

-  - Ambient temperature
-35 ... +60 °C

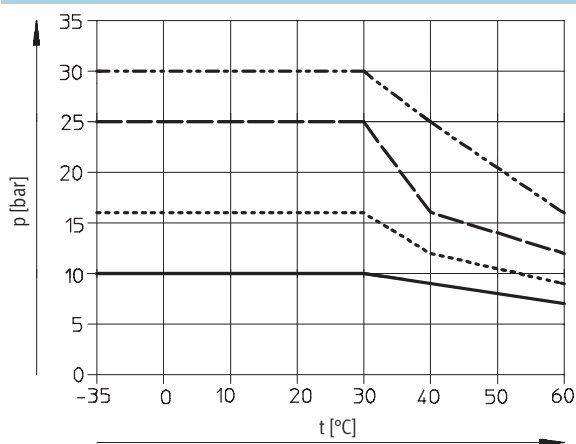
-  - Temperature dependent operating pressure
-0.95 ... +10 bar

Material:
Polyurethane

Note on material:
Free of copper and PTFE



Operating pressure p as a function of temperature t



— PUN-V0-.../PUN-V0-...-B

For applications without welding spatter

----- PUN-V0-6x2-...-B
- - - - - PUN-V0-8x2-...-B
..... PUN-V0-10x2-...-B

Possible fittings



Push-in fitting QS,
Quick Star
→ Internet: qs

1) Recommended fitting



Push-in fitting QS-F,
Quick Star, metal¹⁾
→ Internet: qs-f

Dimensions and ordering data

Outer Ø	Inner Ø	Min. bending radius	Bending radius relevant for flow rate	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
6	2	7	24	0.032	Black	542 934	PUN-V0-6x2-SW-B	50
					Blue	542 938	PUN-V0-6x2-BL-B	50
					Green	542 942	PUN-V0-6x2-GN-B	50
					Red	542 946	PUN-V0-6x2-RT-B	50
					White	542 950	PUN-V0-6x2-WS-B	50
					Yellow	542 954	PUN-V0-6x2-GE-B	50
					Brown	542 958	PUN-V0-6x2-BR-B	50

1) Packaging unit

Plastic tubing PUN-V0-B, standard O.D., flame retardant



Technical data

Dimensions and ordering data								
Outer Ø	Inner Ø	Min. bending radius	Bending radius relevant for flow rate	Weight	Colour	Part No.	Type	PU ¹⁾
[mm]	[mm]	[mm]	[mm]	[kg/m]				[m]
8	4	9	35	0.049	Black	542 935	PUN-V0-8x2-SW-B	50
					Blue	542 939	PUN-V0-8x2-BL-B	50
					Green	542 943	PUN-V0-8x2-GN-B	50
					Red	542 947	PUN-V0-8x2-RT-B	50
					White	542 951	PUN-V0-8x2-WS-B	50
					Yellow	542 955	PUN-V0-8x2-GE-B	50
					Brown	542 959	PUN-V0-8x2-BR-B	50
10	6	12	42	0.064	Black	542 936	PUN-V0-10x2-SW-B	50
					Blue	542 940	PUN-V0-10x2-BL-B	50
					Green	542 944	PUN-V0-10x2-GN-B	50
					Red	542 948	PUN-V0-10x2-RT-B	50
					White	542 952	PUN-V0-10x2-WS-B	50
					Yellow	542 956	PUN-V0-10x2-GE-B	50
					Brown	542 960	PUN-V0-10x2-BR-B	50
12	8	19	55	0.080	Black	542 937	PUN-V0-12x2-SW-B	50
					Blue	542 941	PUN-V0-12x2-BL-B	50
					Green	542 945	PUN-V0-12x2-GN-B	50
					Red	542 949	PUN-V0-12x2-RT-B	50
					White	542 953	PUN-V0-12x2-WS-B	50
					Yellow	542 957	PUN-V0-12x2-GE-B	50
					Brown	542 961	PUN-V0-12x2-BR-B	50

1) Packaging unit

Plastic tubing PUN, standard O.D.

Ordering data – Modular products

M Mandatory data		O Options	M	
Module No.	Function	Alternative material characteristic	Tubing O.D.	Colour
553 573	PUN	– E H CM VO VOB	3 4 6 8 10 12 16	SI BL SW GE GN RT BR WS NT
Order example				
553 573	PUN	–	3	SI

Ordering table (minimum order quantity 3000 m, rounding-off value 25 m)										
Size	3	4	6	8	10	12	16	Condi- tions	Code	Enter code
M Module No.	553 573									
Function	Polyurethane tubing, standard O.D.								PUN	PUN
O Alternative material characteristic	Standard									
	– Economical								-E	
	Hydrolysis-resistant								-H	
	– Antistatic								-CM	
	– Flame-retardant								-VO	
	– Resistant to welding spatter								-VOB	
M Tubing O.D. [mm]	3	–	–	–	–	–	–		-3	
	4	–	–	–	–	–	–		-4	
	6	–	–	–	–	–	–		-6	
	8	–	–	–	–	–	–		-8	
	10	–	–	–	–	–	–		-10	
	12	–	–	–	–	–	–		-12	
	16	–	–	–	–	–	–		-16	
Colour	Silver							1 2	-SI	
	Blue							1 3	-BL	
	Black							3	-SW	
	Yellow							1	-GE	
	Green							1	-GN	
	Red							1	-RT	
	Brown							1	-BR	
	White							1	-WS	
	Neutral							1 3 4	-NT	

1 SI, BL, GE, GN, RT, BR, WS, NT

Not with alternative material characteristic CM

2 SI

Not with alternative material characteristic VO, VOB

3 BL, SW, NT

In combination with alternative material characteristic E, H: approved for use in the food industry.

4 NT

Only with alternative material characteristic E, H

Transfer order code

553 573 PUN – – – –

Plastic tubing PUN, standard O.D.

Ordering data – Modular products

FESTO

→ [0]	[M]	
Inscription text	Packaging unit	Packaging
– TXT	25 50 100 200 300 400 500	CB HA
–	– 100	– HA

Ordering table										
Size	3	4	6	8	10	12	16	Condi- tions	Code	Enter code
[0] Inscription text (on request)	Standard									
	Customer-specific tube inscription							[5]	-TXT	
[M] Packaging unit [m]	25								-25	
	50								-50	
	100								-100	
	200						–	[6]	-200	
	300						–	[7]	-300	
	400					–	–	[7]	-400	
	500				–	–	–	[7]	-500	
Packaging	Cardboard box							[8]	-CB	
	Reel							[9]	-HA	

- [5] TXT** Not in the online shop.
Festo logo, order code, TÜV, operating pressure, dimensions omitted
- [6] 200** Not with alternative material characteristic V0, V0B and tubing O.D. 6
- [7] 200, 400, 500** Not with alternative material characteristic V0, V0B and tubing O.D. 6, 8, 10, 12

- [8] CB** Only with packaging unit 25, 50
- [9] HA** Not with packaging unit 25, 50
Not with alternative material characteristic V0, V0B

Transfer order code

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