

Type code

001		Series
PUN		Plastic tubing, polyurethane
002		Alternative material characteristic
H		Hydrolysis-resistant
003		Pipe/tubing O.D. x wall thickness
2x0,4		2x0.4 mm
3x0,5		3x0.5 mm
4x0,75		4x0.75 mm
6x1		6x1 mm
8x1,25		8x1.25 mm
10x1,5		10x1.5 mm
12x2		12x2 mm
14x2		14x2 mm
16x2,5		16x2.5 mm
004		Tubing type
		Standard
DUO		DUO pneumatic tubing

005		Colour
BL		Blue
BS		Blue/black
GE		Yellow
GN		Green
NT		Natural
RT		Red
SI		Silver
SW		Black
TBL		Translucent blue
TGE		Translucent yellow
TGN		Translucent green
TRT		Translucent red
TSW		Translucent black
006		Packaging unit [m]
		Standard
25		25 m
100		100 m
200		200 m
300		300 m
400		400 m
500		500 m

Datasheet

Operating and environmental conditions PUN-H with O.D. 2 mm

Outside diameter	2 mm
Inside diameter	1.2 mm
Pneumatic connection	For push-in connector O.D. 2 mm
Flow-relevant bending radius	8 mm
Min. bending radius	5 mm
Temperature-dependent operating pressure	-0.095 ... 1 MPa
Temperature-dependent operating pressure	-0.95 ... 10 bar
Temperature-dependent operating pressure	-13.775 ... 145 psi
Operating pressure complete temperature range	-0.095 ... 0.6 MPa
Operating pressure complete temperature range	-0.95 ... 6 bar
Operating pressure complete temperature range	-13.775 ... 87 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:]
Ambient temperature	-35 ... 60°C
Tubing characteristics	Suitable for energy chains

Operating and environmental conditions PUN-H with O.D. 3 ... 16 mm

Outside diameter	3 mm	4 mm	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
Inside diameter	2.1 mm	2.6 mm	4 mm	5.7 mm	7 mm	8 mm	9.8 mm	11 mm
Pneumatic connection	For push-in connector outside diameter of 3 mm	For push-in connector O.D. 4 mm For barbed fitting I.D. 3 mm with union nut	For push-in connector O.D. 6 mm For barbed fitting I.D. 4 mm with union nut	For push-in connector O.D. 8 mm For barbed fitting inside diameter of 6 mm with union nut	For push-in connector O.D. 10 mm	For push-in connector outside diameter of 12 mm	For push-in connector outer diameter of 14 mm	For push-in connector O.D. 16 mm
Flow-relevant bending radius	12 mm	16 mm	26 mm	37 mm	52 mm	62 mm	78 mm	88 mm
Min. bending radius	6 mm	8 mm	10 mm	21 mm	28 mm	33 mm	38 mm	
Temperature-dependent operating pressure	-0.095 ... 1 MPa							
Temperature-dependent operating pressure	-0.95 ... 10 bar							
Temperature-dependent operating pressure	-13.775 ... 145 psi							
Operating pressure complete temperature range	-0.095 ... 0.6 MPa							
Operating pressure complete temperature range	-0.95 ... 6 bar							
Operating pressure complete temperature range	-13.775 ... 87 psi							
Note on operating pressure	Water: temperature-dependent operating pressure, see diagram, max. 0.3 MPa at 0 - 60°C							
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:] Water (liquid, ice-free)			Compressed air to ISO 8573-1:2010 [7:-:] Water as per manufacturer's declaration at www.festo.com Water (liquid, ice-free)			Compressed air to ISO 8573-1:2010 [7:-:] Water (liquid, ice-free)	
Suitable for use with food ¹⁾	See supplementary material information							
Ambient temperature	-35 ... 60°C							
Fire test material	UL94 HB							
Approval	German Technical Control Board (TÜV)							
Certificate issuing authority	B 013277 0506 00							
Tubing characteristics	Suitable for energy chains							

1) More information www.festo.com/catalogue/pun-h → Support/Downloads.

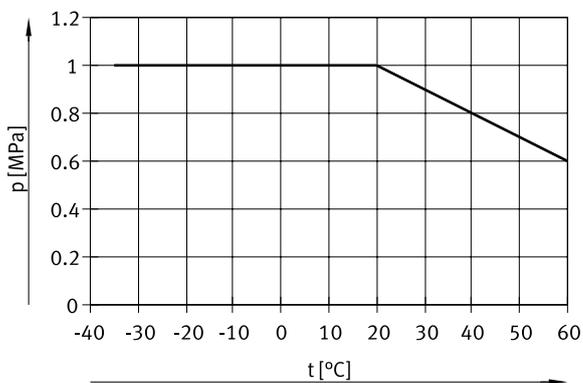
Datasheet

Operating and environmental conditions – PUN-H-DUO

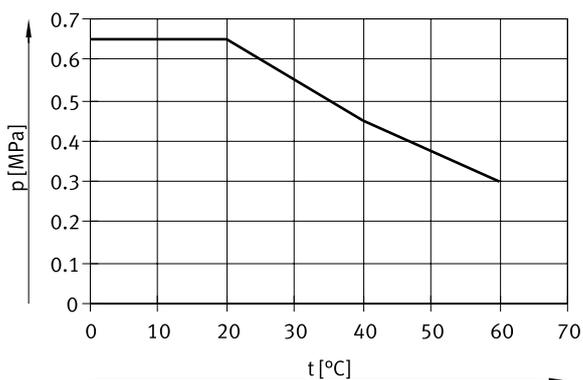
Outside diameter	4 mm	6 mm	8 mm	10 mm
Inside diameter	2.6 mm	4 mm	5.7 mm	7 mm
Pneumatic connection	For push-in connector O.D. 4 mm For barbed fitting I.D. 3 mm with union nut	For push-in connector O.D. 6 mm For barbed fitting I.D. 4 mm with union nut	For push-in connector O.D. 8 mm For barbed fitting inside diameter of 6 mm with union nut	For push-in connector O.D. 10 mm
Flow-relevant bending radius	16 mm	26 mm	37 mm	52 mm
Min. bending radius	8 mm	10 mm	21 mm	28 mm
Temperature-dependent operating pressure	-0.095 ... 1 MPa			
Temperature-dependent operating pressure	-0.95 ... 10 bar			
Temperature-dependent operating pressure	-13.775 ... 145 psi			
Operating pressure complete temperature range	-0.095 ... 0.6 MPa			
Operating pressure complete temperature range	-0.95 ... 6 bar			
Operating pressure complete temperature range	-13.775 ... 87 psi			
Note on operating pressure	Water: temperature-dependent operating pressure, see diagram, max. 0.3 MPa at 0 - 60°C			
Operating medium	Compressed air to ISO 8573-1:2010 [7:::] Water (liquid, ice-free)			
Suitable for use with food ¹⁾	See supplementary material information			
Ambient temperature	-35 ... 60°C			
Fire test material	UL94 HB			
Approval	German Technical Control Board (TÜV)			
Certificate issuing authority	B 013277 0506 00			
Tubing characteristics	Suitable for energy chains			

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Operating pressure p as a function of temperature t



Operating pressure p as a function of temperature t (medium: water)



Deviating maximum operating pressures apply to the medium water, with a safety factor of $s=4$.

Datasheet

Materials	
Shore hardness	D 52 +/-3
Material tubing	TPE-U(PU)
Note on materials	RoHS-compliant
LABS (PWIS) conformity ¹⁾	VDMA24364-B2-L
Suitability for the production of Li-ion batteries ²⁾	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Instructions on use	TPE-U Ether based

1) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO

2) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO