Piping





Piping Product range overview and type codes

Product range		1				
Version	Туре	0.D.	I.D.	Colour		→ Page/
		[mm]	[mm]	Silver	Black	Internet
	PQ-AL	12	10		-	3
	Wrought	15	13		-	
	aluminium alloy	18	16		-	
		22	20		-	
		28	25		-	
	PQ-PA	12	9	-		4
	PA	15	12	-		
		18	14	-		
		22	18	-		
		28	23	-		
	PM	6	3.92			6
	Wrought			-	-	
	aluminium alloy,	8	5.2			
	PE			-	-	

Type codes PQ-AL/PQ-PA

		PQ	 AL	 18x1	х	3000
Series	5					
PQ	Pipe					
Mater	ial					
AL	Wrought aluminium alloy					
PA	Polyamide					
0.D. a	nd wall thickness [mm]					
PQ-AL						
	12x1; 15x1; 18x1; 22x1; 28x1.5					
PQ-PA						
	12x1.5; 15x1.5; 18x2; 22x2; 28x2.5					
Lengt	n [mm]					
3000	3000 mm					

Piping PQ Technical data

Pipe PQ-AL

- Rigid, corrosion resistant aluminium pipe
- Smooth inside wall ensures optimum flow conditions



Operating and environmental conditions									
Туре		PQ-AL-12	PQ-AL-15	PQ-AL-18	PQ-AL-22	PQ-AL-28			
Temperature-dependent operating pressure	[bar]	-0.95 +15 → g	raph			-0.95 +10 → graph			
Ambient temperature	[°C]	-30 +75							
Temperature of medium	[°C]	-25 +75							

Operating pressure p as a function of temperature t



Possible fittings



Push-in fitting CQ → Internet: cq

- PQ-AL-12/15/18/22 ----- PQ-AL-28

Materials

Tube	Wrought aluminium alloy				
Note on materials	RoHS-compliant				

Dimensions and ordering data

Dimensions and ord	iennis uata					
0.D.	I.D.	Product weight by length	Colour	Part No.	Туре	PU ¹⁾
[mm]	[mm]	[kg/m]				[mm]
12	10	0.093	Silver	177732	PQ-AL-12x1x3000	3000
15	13	0.119		177733	PQ-AL-15x1x3000	3000
18	16	0.144		177734	PQ-AL-18x1x3000	3000
22	20	0.178		177735	PQ-AL-22x1x3000	3000
28	25	0.337		194593	PQ-AL-28x1,5x3000	3000

1) Packaging unit

Piping PQ Technical data

Plastic pipe PQ-PA

- Rigid pipe made from high quality polyamide; corrosion resistant, flexible and maintenance-free
- Smooth inside wall ensures optimum flow conditions



Operating and environmental conditions										
Туре		PQ-PA-12	PQ-PA-15	PQ-PA-18	PQ-PA-22	PQ-PA-28				
Temperature-dependent operating pressure	[bar]	–0.95 +15 → g	raph			-0.95 +10 → graph				
Ambient temperature	[°C]	-25 +75								
Temperature of medium	[°C]	-25 +75								

Operating pressure p as a function of temperature t



PA

- PQ-PA-12/15/18/22 ----- PQ-PA-28

Materials

Tube

Dimensions and ordering data

Dimensions and ord	ienng uata					
0.D.	I.D.	Product weight by length	Colour	Part No.	Туре	PU ¹⁾
[mm]	[mm]	[kg/m]				[mm]
12	9	0.051	Black	177728	PQ-PA-12x1,5x3000	3000
15	12	0.065		177729	PQ-PA-15x1,5x3000	3000
18	14	0.103		177730	PQ-PA-18x2x3000	3000
22	18	0.13		177731	PQ-PA-22x2x3000	3000
28	23	0.204		194594	PQ-PA-28x2,5x3000	3000

1) Packaging unit

Possible fittings



Push-in fitting CQ → Internet: cq

FESTO

Piping PQ Accessories

Pipe clamp PQ-RK-...-B

Suitable for retaining pipes with O.D. of 12, 15, 18, 22 and 28 mm.

Material: PP Note on materials: RoHS-compliant

Ambient temperature: −25 ... +85 °C

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Dimensions and orde	ring data									
Nominal width [mm]	D	В	Н	L	L1	L2	Weight/ piece [g]	Part No.	Туре	PU ¹⁾
12	11.5	16.5	17.8	17.5	20	9	2.4	550595	PQ-RK-12-B	10
15	15	16	17.5	22.5	23	10	3.2	550596	PQ-RK-15-B	10
18	17	16	23.5	22.5	25	10	4.0	550597	PQ-RK-18-B	10
22	20.5	16	25.2	23.5	30	10	5.1	550598	PQ-RK-22-B	10
28	27.8	16	32.5	26	39	15	8.4	550599	PQ-RK-28-B	1

1) Packaging unit

Pipe cutter ZR

The pipe cutter ZR is used for cutting to length plastic piping PQ-PA with outside diameters of up to 28 mm. It is not suitable for tubing with metal casing.



Orde	ring data		
		Part No.	Туре
Pipe	cutter	194592	ZR



Plastic-coated metal tubes PM

Technical data

Plastic-coated metal tube PM

The tube PM has the corrosion resistance of plastic and the deformation resistance of metal. It can be bent, straightened and reshaped several times without pipe-bending equipment and without being damaged.



Operating and environmenta	Operating and environmental conditions							
Temperature-dependent	[bar]	-0.95 +30 → graph						
operating pressure								
Operating medium		Compressed air according to ISO 8573-1:2010 [7:-:-]						
Ambient temperature	[°C]	-29 +65						

-Note

The plastic-coated metal tube PM is printed with "10 bar at RT". This specification of the maximum operating pressure at room temperature (RT) is based on using the tube in combination with a push-in fitting from Festo. When using a push-in fitting, the bending radius must be followed by a straight piece of tube with a length of approx. 20 mm.



Possible fittings



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

1) Note the operating range of the push-in fittings

Accessories



Pipe and tubing cutter ZRS → Internet: tools

Matailala

valenats				
Tube	Wrought aluminium alloy, PE			
Note on materials	RoHS-compliant			
	Free of copper and PTFE			

Dimensions and ordering data

Dimensions and ord	nensions and ordering data							
0.D.	I.D.	Bending radius	Product weight by	Colour	Part No.	Туре	PU ¹⁾	
		relevant for flow rate	length					
[mm]	[mm]	[mm]	[kg/m]				[m]	
6	3.92	19	0.024	Black	9084	PM-4	50	
8	5.2	25	0.032		9087	PM-6	50	

1) Packaging unit

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