Tubing/fitting combinations



Durable and reliable - tubing/fitting combinations from Festo

At Festo, we have the perfect solution for every application so you can find the right tubing/fitting combination for your needs. The high-quality fittings and tubing complement each other perfectly. Their features and outstanding quality ensure a long service life with minimal leakage.

The overview will help you to make the right choice quickly and reliably. Many of our tubes are available in a practical 50 m box and on reels in bulk packs. We also offer custom printing and packaging labels.

Tubing

ompressed air, cuum, water 5 80 0.095 1.3	Compressed air, vacuum	PUN-VO Compressed air, vacuum, water	PUN-VO-C Compressed air,	PEN Compressed air,	PLN
cuum, water 5 80	vacuum			Compressed air,	Camananaaad
5 80		vacuum, water			Compressed air,
			vacuum, water	vacuum, water	vacuum, water
).095 1.3	−35 +60	-35 +60	-35 +60	-30 +60	-30 +80
	-0.095 +1	-0.095 +1	-0.095 +1	-0.095 +1	-0.095 +1.4
	+	+	+	++	++
+	_	_	_	_	+++
	++	++	++	+++	+++
_94 HB	_	UL94 V-0V-23	UL94 V-0V-23	_	_
+	+++	+++	+++	+++	+++
+	++	++	++	++	+
bbust and flexi- e	Antistatic	Flame-retardant	Resistant to weld- ing spatter	Suitable for use with energy chains	Weather-resistan
3					

	Polyamide (PA)		Perfluoroalkoxy alkane	Polytetrafluoroeth- ylene			
Designation	PAN	PAN-R	PAN-V0	PAN-MF		PTFEN	
Operating medium	Compressed air, vac-	Compressed air, vac-	Compressed air, vac-	Compressed air, vac-	Compressed air, vac-	Compressed air	
	uum	uum	uum,	uum	uum,		
			water		water		
Temperature [°C]	-30 +80	-30 +80	-30 +90	-60 +100	-20 +150	-20 +150	
Temperature-dependent	-0.095 +1.9	-0.095 +3.5	-0.095 +1.2	-0.095 +3.1	-0.095 +1.6	-0.095 +1.2	
operating pressure [MPa]							
Resistant to chemicals	+	+	+	+	+++	+++	
Food-safe ²	-	-	_	-	+++	+++	
					FDA-listed material	FDA-listed material	
					Regulation (EC)		
					1935/2004		
Resistant to hydrolysis	++	++	++	++	+++	+++	
Fire-tested	-	-	UL 94 V-0	-	UL 94 V-0	UL 94 V-0	
			(Sheathing)				
Halogen-free	+++	+++	-	+++	_	-	
Flexible	++	+	++	+	+	+	
Special feature	High load bearing	Suitable for pressures	Resistant to welding	DIN 73378 Automotive	Highly resistant to	Highly resistant to	
,	capacity	up to 3.5 MPa	spatter	approval	chemicals	chemicals	

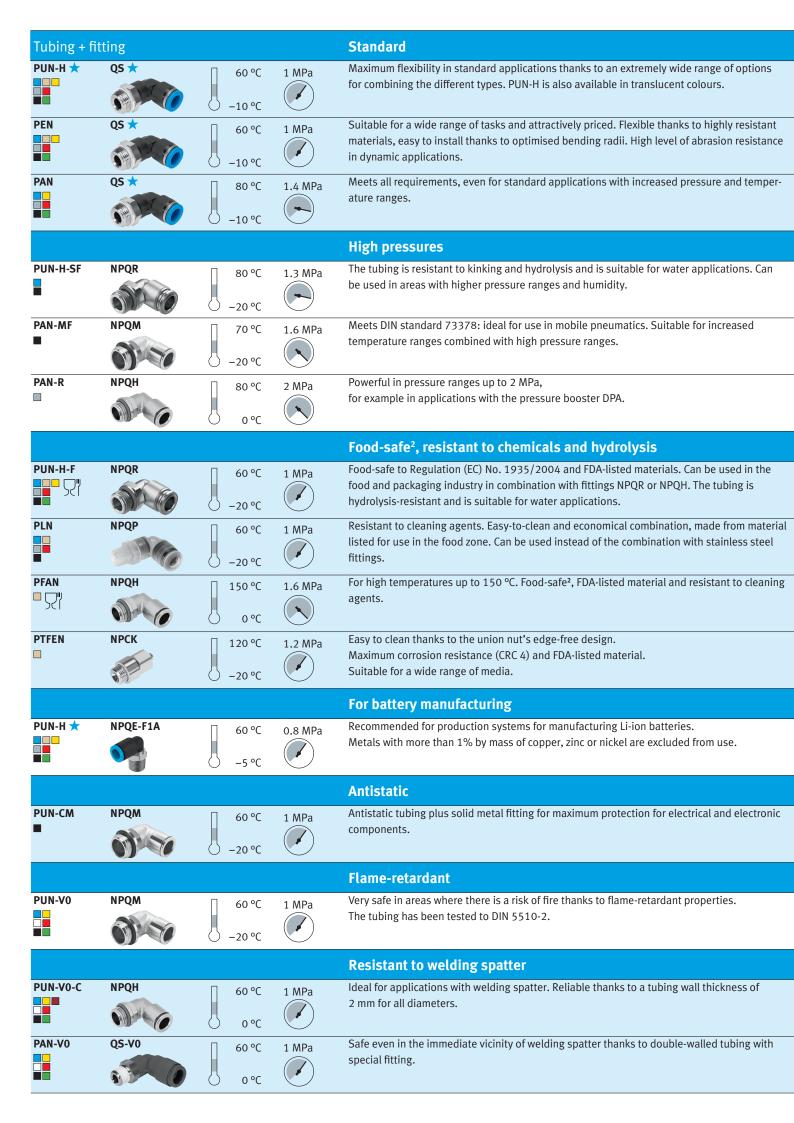
Fittings

					I				
	Plastic	l .	1	1	Metal	1	1	1	
Designation	QS(M) 🜟	NPQE-F1A	NPQP	QS-V0	NPQM	NPQH	NPCK	NPQR	
Operating medium	Compressed air,	Compressed air,	Compressed air,	Compressed air,	Compressed air,	Compressed air,	Compressed air,	Compressed air,	
	vacuum, water	vacuum	vacuum	vacuum, water	vacuum, water	vacuum, water	vacuum, water	water	
Temperature [°C]	-10 +80	−5 +60	-20 +60	0 +60	-20 +70	0 +150	-20 +120	−15 +150	
Temperature-dependent	-0.095 +1.4	-0.095 +0.8	-0.095 +1	-0.095 +1	-0.095 +1.6	-0.095 +2	-0.095 +1.2	-0.095 +1.6	
operating pressure [MPa]									
Housing material	PBT and nick-	PBT, high-alloy	PP	PBT	Nickel-plated	Nickel-plated	Stainless steel	Stainless steel	
	el-plated brass	stainless steel			brass	brass			
Thread	M, G and R thread	M, G and R thread	R thread	G and R thread	M and G thread	M and G thread	M and G thread	M and R thread	
Resistant to chemicals	+	+	+++	+	+	++	+++	+++	
Food-safe ²	_	+	+++	_	_	+++	+++	+++	
			FDA-listed mate-			FDA-listed	FDA-listed mate-	FDA-listed	
			rial			material	rial	material	
						Regulation (EC)		Regulation (EC)	
						1935/2004		1935/2004	
Corrosion resistance	1	1	4	1	1	3	4	4	
class CRC									
Special features	Wide choice of	Recommended	Highly resistant	Resistant	Sturdy	High temperature	Clean design	Highly resistant	
	variants	for battery manu-	to chemicals	to		resistance		to corrosion	
		facturing		welding spatter					

¹ Other media possible on request

² See supplementary information on materials/declaration of conformity for information on suitability for use in the food industry **>www.festo.com/supportportal**

³ UL94 V-0 (for test specimen 3 mm thick), UL94 V-2 (for test specimen 0.75 mm thick)



More than tubing and fittings: Additional components at a glance



One-way flow control valve VFOE ★

Compact, attractively priced solution for standard applications



One-way flow control valve GRLA-(RS)D 🛨

Reliable, precise adjustment characteristics, wide choice of variants



One-way flow control valve GRLA-(RS)B

Robust, can be adjusted with/without tools



One-way flow control valve

Easy-to-clean design, increased corrosion protection



One-way flow control valve **CRGRLA**

Stainless steel design, highly resistant to corrosion



One-way flow control valve

valve and exhaust function

VFOF-LE-BAH



One-way flow control valve

VFOF-CE-BAH Combination of one-way flow control valve, piloted check



One-way flow control valve

In-line installation



Check valve HGL-B ★

Pneumatically piloted



Check valve

HA

In-line installation



Check valve

VBNF-LBA



VBNF-CBA

Combination of piloted check valve and exhaust function



Ball valve QHS-QS

Choice of installation variants



Shut-off valve

2/2-way or 3/2-way valve, manually actuated



Pressure regulator MS2 ★

Lightweight and small



Silencer UC ★

Improved noise emissions



Sealing ring

Captive design



Pipe and tubing cutter

Clean, right-angled cut, no crimping



Tubing support PKS

Prevents kinking

