

Better connected

FESTO



Everything from a single source – for the ideal combination

Variety is standard at Festo

Our range of tubing and fittings covers every conceivable task. Regardless of whether your selection is determined by standard requirements or extreme conditions such as heat, welding spatter, high pH values or resistance to hydrolysis – at Festo you'll always find the right tubing/fitting combination.

Our product finder helps you arrive at a tailored combination, and our modular tubing system offers more choice. More information is available on the following page.

Easy – from selection to installation

Your selection is simply transferred to the online shop. Purchasing is made convenient and reliable. Try it out and discover how our expertise can make your work easier and make you more productive.



Productivity

We have a very big goal: increasing your productivity. We achieve this goal through simplicity, reliability, efficiency and competency – qualities which you'll also find in our tubing and fittings range. Created by the engineers of productivity.

Simple – because we make selection, purchasing, delivery and assembly easier for you.

Reliable – because errors are practically ruled out with the product finder.

Efficient – because ordering from the online shop is very convenient and you get everything from a single source.

Competent – because Festo has a suitable tubing/fitting combination for every task.

Faster and easier: the product finder for the right tubing and fittings

How do I find the right tubing for my applications? And which fittings match the tubing? It's easy with Festo's integrated product finders in the electronic catalogue. We ask you all the necessary questions so you can make the right selection.

Here's how it works:

Start the product finder by clicking the blue icons in the product tree in the electronic catalogue. Select the technical features, step-by-step, on the left-hand side. A choice of suitable products that match those features will then automatically be displayed on the right-hand side. Plausibility checks ensure that only correct configurations are accepted.

The product finders for tubing and fittings are an essential part of the electronic catalogue and are not available as separate software.

Or:

Get started straightaway via the following links:

→ www.festo.com/productfinder/tubing

→ www.festo.com/productfinder/fittings



Customised tubing from the modular tubing system

Your wish is our command: if you want individualised tubing, our modular tubing system is just what you're looking for. The modular system allows you to:

- Specify individualised lengths and packaging units
- Order customised printing and labelling
- Select from 7 basic colours with others available on request.

The configurator additionally simplifies selection and ordering. Online ordering is already possible in many countries.



Well combined: tubing/fitting combinations for all applications!

The precise selection of the right tubing/fitting combination is above all dependent on the application. Applications often have a single feature that quickly defines the right selection. The overview below of our most popular tubing/fitting combinations will help you to make the right choice quickly and reliably.

Tubing

Designation	Polyurethane (PU)					Polyethylene (PE)		Polyamide (PA)				PFA**	PTFE***
	PUN/ PUN-DUO	PUN-H/ PUN-H-DUO	PUN-CM	PUN-V0	PUN-V0-C	PEN	PLN	PAN	PAN-R	PAN-V0	PAN-MF	PFAN	PTFEN
Operating medium	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air
Temperature [°C]	-35 ... +60	-35 ... +60	-35 ... +60	-35 ... +60	-35 ... +60	-30 ... +60	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +90	-60 ... +100	-20 ... +150	-20 ... +150
Temperature-dependent operating pressure [MPa]	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1,4	-0,095 ... +1,9	-0,095 ... +3, 5	-0,095 ... +1,2	-0,095 ... +3,1	-0,095 ... +1,6	-0,095 ... +1,2
Resistant to chemicals	-	+	+	+	+	++	++	+	+	+	+	+++	+++
Food-grade****	-	+++ FDA- and EU-listed material	-	-	-	-	+++	-	-	-	-	+++ FDA-listed material Regulation (EC) 1935/2004	+++ FDA-listed material
Resistant to hydrolysis	+	++	++	++	++	+++	+++	++	++	++	++	+++	+++
Fire test	-	-	-	UL 94 DIN 5510-2	UL 94 DIN 5510-2	-	-	-	-	UL 94	-	UL 94	UL 94
Halogen-free	+++	+++	+++	+++	+++	+++	+++	+++	+++	-	+++	-	-
Flexibility	+++	+++	++	++	++	++	+	++	+	++	+	+	+
Special feature	Wide choice of variants	Resistant to hydrolysis	Antistatic	Flame-retardant	Resistant to welding spatter	Suitable for use with energy chains	Weather resistant	High load bearing capacity	Suitable for pressure up to 3,5 MPa	Resistant to welding spatter	DIN 73378 Automotive approval	Highly resistant to chemicals	Highly resistant to chemicals

Fittings

Designation	Plastic				Metal			
	QS(M)	NPKA	NPQP	QS-V0	NPQM	NPQH	NPCK	NPQR
Operating medium	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, water
Temperature [°C]	-10 ... +80	-10 ... +60	-20 ... +60	0 ... +60	-20 ... +70	0 ... +150	-20 ... +120	-20 ... +150
Temperature-dependent operating pressure [MPa]	-0,095 ... +1,4	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1	-0,095 ... +1,6	-0,095 ... +2	-0,095 ... +1,2	-0,095 ... +1,6
Housing material	PBT and nickel-plated brass	POM and PA66	PP	PBT	Nickel-plated brass	Nickel-plated brass	Stainless steel	Stainless steel
Thread	M, G and R thread	G thread	R thread	G and R thread	M and G thread	M and G thread	M and G thread	M and G thread
Resistant to chemicals	+	++	+++	+	+	++	+++	+++
Food-grade****	-	+++ FDA-listed material	+++ FDA-listed material	-	-	+++ FDA-listed material Regulation (EC) 1935/2004	+++ FDA-listed material	+++ FDA-listed material Regulation (EC) 1935/2004
Corrosion resistance class (CRC)	1	4	4	1	1	3	4	4
Special features	Wide choice of variants	Cleanroom-compatible, 100% polymer	Highly resistant to chemicals	Resistant to welding spatter	Robust	Resistant to high temperatures	Clean Design	High resistance to corrosion

* Other media on request

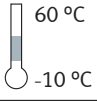
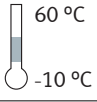
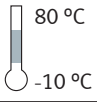
** Perfluoroalkoxy alkane

*** Polytetrafluoroethylene

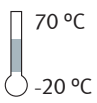
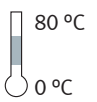
**** Suitable for use with food in accordance with supplementary material information/declaration of conformity
→ www.festo.com/supportportal

Our top combinations for you:

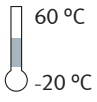
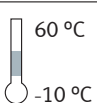
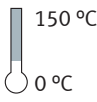
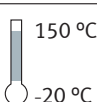
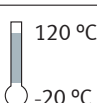
Standard

PEN 	+	QS 			Suitable for a wide range of tasks and attractively priced. Flexible thanks to high levels of resistance, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.
PUN 	+	QS 			Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.
PAN 	+	QS 			Meets all requirements, even for standard applications with increased pressure and temperature ranges.

High pressures

PAN-MF 	+	NPQM 			Meets DIN standard 73378: ideal for use in mobile pneumatics. Suitable for increased temperature ranges combined with high pressure ranges.
PAN-R 	+	NPQH 			Powerful in pressure ranges up to 2 MPa, for example in applications with the pressure booster DPA.

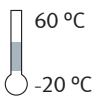
Resistant to chemicals, food-safe**** and hydrolysis-resistant

PLN 	+	NPQP 			Resistant to cleaning agents, FDA compliant and economical. Can be used instead of the combination with stainless steel fittings.
PUN-H 	+	NPKA 			Resistant to hydrolysis and suitable for water applications. Combination suitable for use in cleanrooms, FDA-compliant and corrosion resistant because it's 100% polymer. Very easy to install thanks to the "one click principle".
PFAN 	+	NPQH 			For high temperatures up to 150°C. Food-safe****, FDA-compliant and resistant to cleaning agents.
PFAN 	+	NPQR 			Optimised design, fewer edges where dirt can collect – all at an attractive price. For high temperatures up to 150°C. Pressure range up to 1,6 MPa. Highest level of corrosion resistance (CRC 4).
PFAN 	+	NPCK 			Easy to clean thanks to the union nut's edge-free design. Maximum resistance to corrosion (CRC 4) and FDA-compliant. Suitable for a wide range of media.

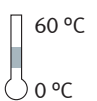
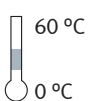
Antistatic

PUN-CM 	+	NPQM 			Anti-static tubing plus solid metal fitting: maximum protection for electrical and electronic components.
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Flame-retardant

PUN-V0 	+	NPQM 			Its flame-retardant properties provide a high level of safety in areas where there is a risk of fire. The tubing has been tested to DIN 5510-2.
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Resistant to welding spatter

PUN-V0-C 	+	NPQH 			Ideal for applications involving welding spatter. Reliable thanks to a tubing wall thickness of 2 mm for all diameters.
PAN-V0 	+	QS-V0 			Safe even in the immediate vicinity of welding spatter thanks to the double-walled tubing with special fitting.

QS standard – Part 1 of 2 – Push-in fittings

In the tables below you will find the optimum polymer fittings for the applications shown opposite.

Select matching tubing from poster 8 “Plastic tubing” and you will always have the right tubing/fitting combination.



Standard: PEN/QS

Suitable for a wide range of tasks and attractively priced. Flexible thanks to highly resistant materials, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.



Wide range of variants: PUN/QS

Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.



Extended pressure range: PAN/QS

Meets all requirements, even for standard applications with increased pressure and temperature ranges.



QS standard, mini QS standard

Push-in fitting



Type	D1	D2	PU	PN
★ QSM-... M3	2	10	133027	
★ QSM-... M3	3	10	153301	
QSM-... M3	3	100	130775	
QSM-... M3	4	10	153303	
QSM-... M3	4	100	130776	
★ QSM-... M5	2	10	133028	
★ QSM-... M5	3	10	153302	
QSM-... M5	3	100	130777	
★ QSM-... M5	4	10	153304	
QSM-... M5	4	100	130778	
★ QSM-... M5	6	10	153306	
QSM-... M5	6	100	130779	
★ QSM-... M6	6	1	132600	
★ QSM-... R1/8	4	10	153305	
QSM-... R1/8	4	100	130755	
★ QSM-... R1/8	6	10	153307	
QSM-... R1/8	6	100	130756	
★ QSM-... G1/8	4	10	186264	
★ QSM-... G1/8	6	10	186265	

Push-in L-fitting



Type	D1	D2	PU	PN
★ QSML-... M3	2	10	133030	
★ QSML-... M3	3	10	153330	
QSML-... M3	3	100	130768	
★ QSML-... M3	4	10	153332	
QSML-... M3	4	100	130769	
★ QSML-... M5	2	10	133031	
★ QSML-... M5	3	10	153331	
QSML-... M5	3	100	130770	
★ QSML-... M5	4	10	153333	
QSML-... M5	4	100	130771	
★ QSML-... M5	6	10	153335	
QSML-... M5	6	100	130772	
★ QSML-... M7	4	10	186352	
QSML-... M7	4	100	130773	
★ QSML-... M7	6	10	186353	
QSML-... M7	6	100	130774	
★ QSML-... R1/8	4	10	153334	
QSML-... R1/8	4	100	130764	
★ QSML-... R1/8	6	10	153336	
QSML-... R1/8	6	100	130765	
★ QSML-... G1/8	4	10	186268	
QSML-... G1/8	4	100	132897	
★ QSML-... G1/8	6	10	186269	

Push-in L-fitting



Type	D1	D2	PU	PN
★ QSMLV-... M5	3	10	130830	
★ QSMLV-... M5	4	10	130831	
★ QSMLV-... M7	4	10	130832	
★ QSMLV-... M7	6	10	130833	

Push-in long L-fitting with internal hex



Type	D1	D2	PU	PN
★ QSMLLV-... M5	3	10	130834	
★ QSMLLV-... M5	4	10	130835	
★ QSMLLV-... M7	4	10	130836	
★ QSMLLV-... M7	6	10	130837	

Push-in fitting



Type	D1	D2	PU	PN
★ QS-... R1/8	4	10	153001	
QS-... R1/8	4	100	130674	
★ QS-... R1/8	6	10	153002	
QS-... R1/8	6	100	130675	
★ QS-... R1/8	8	10	153004	
QS-... R1/8	8	50	130676	
★ QS-... R1/8	10	10	190643	
★ QS-... R1/4	4	10	190644	
★ QS-... R1/4	6	10	153003	
QS-... R1/4	6	100	130677	
★ QS-... R1/4	8	10	153005	
QS-... R1/4	8	50	130678	
★ QS-... R1/4	10	10	153007	
QS-... R1/4	10	50	130679	
★ QS-... R1/4	12	10	164980	
QS-... R1/4	12	20	130680	
★ QS-... R3/8	6	10	190645	
QS-... R3/8	8	10	153006	
QS-... R3/8	8	50	130681	
★ QS-... R3/8	10	10	132998	
QS-... R3/8	10	50	130682	
★ QS-... R3/8	12	10	153009	
QS-... R3/8	12	20	130683	
★ QS-... R3/8	16	1	164957	
★ QS-... R1/2	10	10	190646	
★ QS-... R1/2	12	1	153010	
★ QS-... R1/2	12	20	130684	
★ QS-... R1/2	16	1	153011	
QS-... R1/2	16	20	130685	

Push-in fitting with internal hex



Type	D1	D2	PU	PN
★ QS-...-I R1/8	4	10	153012	
★ QS-...-I R1/8	6	10	153013	
★ QS-...-I R1/8	8	10	153015	
★ QS-...-I R1/8	10	10	190647	
★ QS-...-I R1/4	6	10	153014	
★ QS-...-I R1/4	8	10	153016	
★ QS-...-I R1/4	10	10	153018	
★ QS-...-I R1/4	12	10	190649	
★ QS-...-I R3/8	8	10	153017	
★ QS-...-I R3/8	10	10	153019	
★ QS-...-I R3/8	12	10	153020	
★ QS-...-I R1/2	10	1	190648	
★ QS-...-I R1/2	12	1	153021	
★ QS-...-I G1/4	4	10	186106	
QS-...-I G1/4	4	100	133008	
★ QS-...-I G1/8	6	10	186107	
QS-...-I G1/8	6	100	133009	
★ QS-...-I G1/8	8	10	186109	
QS-...-I G1/8	8	50	133010	
★ QS-...-I G1/8	10	10	132999	
QS-...-I G1/8	10	100	133000	
★ QS-...-I G1/4	6	10	186108	
★ QS-...-I G1/4	8	10	186110	
★ QS-...-I G1/4	10	10	186112	
★ QS-...-I G3/8	8	10	186111	
★ QS-...-I G3/8	10	10	186113	
★ QS-...-I G3/8	12	10	186114	
★ QS-...-I G1/2	12	1	186115	

Push-in fitting with female thread



Type	D1	D2	PU	PN
★ QSF-... G1/8	4	10	153022	
QSF-... G1/8	4	100	130709	
★ QSF-... G1/8	6	10	153023	
QSF-... G1/8	6	100	130710	
★ QSF-... G1/8	8	10	153025	
QSF-... G1/8	8	50	130711	
★ QSF-... G1/4	4	10	190650	
★ QSF-... G1/4	6	10	153024	
QSF-... G1/4	6	100	130712	
★ QSF-... G1/4	8	10	153026	
QSF-... G1/4	8	50	130713	
★ QSF-... G1/4	10	10	153028	
QSF-... G1/4	10	50	130714	
★ QSF-... G1/4	12	10	190651	
★ QSF-... G3/8	6	10	190652	
★ QSF-... G3/8	8	10	153027	
QSF-... G3/8	8	50	130715	
★ QSF-... G3/8	10	10	153029	
QSF-... G3/8	10	50	130716	
★ QSF-... G3/8	12	10	153030	
QSF-... G3/8	12	20	130717	
★ QSF-... G1/2	12	1	190653	
★ QSF-... G1/2	16	1	190654	

Push-in fitting, self-sealing



Type	D1	D2	PU	PN
QSK-... M5	4	1	153291	
QSK-... M5	6	1	153295	
QSK-... R1/8	4	1	153419	
QSK-... R1/8	6	1	153420	
QSK-... R1/8	8	1	153422	
QSK-... R1/4	6	1	153421	
QSK-... R1/4	8	1	153423	
QSK-... R1/4	10	1	153425	
QSK-... R3/8	8	1	153424	
QSK-... R3/8	10	1	153426	
QSK-... R3/8	12	1	153427	
QSK-... R1/2	12	1	153428	
QSK-... G1/8	4	1	186294	
QSK-... G1/8	6	1	186295	
QSK-... G1/8	8	1	186297	
QSK-... G1/4	6	1	186296	
QSK-... G1/4	8	1	186298	
QSK-... G1/4	10	1	186300	
QSK-... R3/8	8	1	186299	
QSK-... R3/8	10	1	186301	
QSK-... R3/8	12	1	186302	
QSK-... G1/2	12	1	186303	

Push-in L-fitting, self-sealing



Type	D1	D2	PU	PN
QSKL-... M5	4	1	153294	
QSKL-... M5	6	1	153295	
QSKL-... R1/8	4	1	153429	
QSKL-... R1/8	6	1	153430	
QSKL-... R1/8	8	1	153432	
QSKL-... R1/4	6	1	153431	
QSKL-... R1/4	8	1	153433	
QSKL-... R1/4	10	1	153435	
QSKL-... R3/8	8	1	153434	
QSKL-... R3/8	10	1	153436	
QSKL-... R3/8	12	1	153437	
QSKL-... R1/2	12	1	153438	
QSKL-... G1/8	4	1	186304	
QSKL-... G1/8	6	1	186305	
QSKL-... G1/8	8	1	186307	
QSKL-... G1/4	6	1	186306	
QSKL-... G1/4	8	1	186308	
QSKL-... G1/4	10	1	186310	
QSKL-... R3/8	8	1	186309	
QSKL-... R3/8	10	1	186311	
QSKL-... R3/8	12	1	186312	
QSKL-... G1/2	12	1	186313	

Push-in L-fitting



Type	D1	D2	PU	PN
★ QSL-... G1/8	4	10	186116	
QSL-... G1/8	4	100	132048	
★ QSL-... G1/8	6	10	186117	
QSL-... G1/8	6	100	132049	
★ QSL-... G1/8	8	10	186119	
QSL-... G1/8	8	50	132050	
★ QSL-... G1/4	6	10	186118	
QSL-... G1/4	6	100	132051	
★ QSL-... G1/4	8	10	186120	
QSL-... G1/4	8	50	132052	
★ QSL-... G1/4	10	10	186122	
QSL-... G1/4	10	50	132053	
★ QSL-... G1/4	12	10	186351	
QSL-... G1/4	12	20	132054	
★ QSL-... G3/8	8	10	186121	
QSL-... G3/8	8	50	132055	
★ QSL-... G3/8	10	10	186123	
QSL-... G3/8	10	20	132056	
★ QSL-... G3/8	12	10	186124	
QSL-... G3/8	12	20	132057	
★ QSL-... G3/8	16	1	186348	
★ QSL-... G1/2	12	1	186125	
QSL-... G1/2	12	20	132058	
★ QSL-... G1/2	16	1	186126	
QSL-... G1/2	16	20	132059	

Push-in fitting with internal hex



Type	D1	D2	PU	PN
★ QSM-I-... M3	2	10	133026	
★ QSM-I-... M3	3	10	153312	
QSM-I-... M3	3	100	133001	
QSM-I-... M3	3	100	132914	
★ QSM-I-... M3	4	10	153314	
QSM-I-... M3	4	100	133002	
QSM-I-... M3	4	100	132915	
★ QSM-I-... M5	3	10	153313	
QSM-I-... M5	3	100	133003	
QSM-I-... M5	3	100	132916	
★ QSM-I-... M5	4	10	153315	
QSM-I-... M5	4	100	133004	
QSM-I-... M5	4	100	132917	
★ QSM-I-... M5	6	10	153317	
QSM-I-... M5	6	100	133005	
QSM-I-... M5	6	100	132918	
QSM-I-... M7	4	10	153319	
QSM-I-... M7	4	100	133006	
★ QSM-I-... M7	6	10	153321	
QSM-I-... M7	6	100	133007	
QSM-I-... M7	6	100	132919	
★ QSM-I-... R1/8	4	10	153316	
★ QSM-I-... R1/8	6	10	153318	
★ QSM-I-... G1/8	4	10	186266	

QS standard – Part 2 of 2 – Push-in fittings

In the tables below you will find the optimum polymer fittings for the applications shown opposite.

Select matching tubing from poster 8 “Plastic tubing” and you will always have the right tubing/fitting combination.



Standard: PEN/QS

Suitable for a wide range of tasks and attractively priced. Flexible thanks to highly resistant materials, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.



Wide range of variants: PUN/QS

Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.



Extended pressure range: PAN/QS

Meets all requirements, even for standard applications with increased pressure and temperature ranges.

QS standard

Rotary push-in L-fitting

360° rotatable



Type	D1	D2	PU	PN
QSR...	M5	4	1	153526
QSR...	M5	6	1	153527
QSR...	R1/8	4	1	153401
QSR...	R1/8	6	1	153402
QSR...	R1/8	8	1	153404
QSR...	R1/4	6	1	153403
QSR...	R1/4	8	1	153405
QSR...	R3/8	8	1	153406
QSR...	R3/8	10	1	153407
QSR...	R3/8	12	1	153408
QSR...	R1/2	12	1	153409
QSR...	G1/8	4	1	186276
QSR...	G1/8	6	1	186277
QSR...	G1/8	8	1	186279
QSR...	G1/4	6	1	186278
QSR...	G1/4	8	1	186280
QSR...	G3/8	8	1	186281
QSR...	G3/8	10	1	186282
QSR...	R3/8	12	1	186283
QSR...	G1/2	12	1	186284

Push-in fitting

45° elbow



Type	D1	D2	PU	PN
★ QSW...	R1/8	4	10	130596
★ QSW...	R1/8	6	10	130597
★ QSW...	R1/8	8	10	130598
★ QSW...	R1/4	6	10	130599
★ QSW...	G1/4	8	10	130600
★ QSW...	G1/4	10	10	130601
★ QSW...	R3/8	10	10	130602
★ QSW...	R3/8	12	10	130603
★ QSW...	R1/2	12	1	130604
★ QSW...	G1/2	16	1	130605

Push-in T-fitting



Type	D1	D2	PU	PN
★ QST...	G1/8	4	10	186157
★ QST...	G1/8	4	100	132066
★ QST...	G1/8	6	10	186158
★ QST...	G1/8	6	100	132067
★ QST...	G1/8	8	10	186160
★ QST...	G1/8	8	50	132068
★ QST...	G1/4	6	10	186159
★ QST...	G1/4	6	100	132069
★ QST...	G1/4	8	10	186161
★ QST...	G1/4	8	50	132070
★ QST...	G1/4	10	10	186163
★ QST...	G1/4	10	50	132071
★ QST...	G1/4	12	10	132597
★ QST...	G3/8	8	10	186162
★ QST...	G3/8	8	50	132072
★ QST...	G3/8	10	10	186164
★ QST...	G3/8	10	20	132073
★ QST...	G3/8	12	10	186165
★ QST...	G3/8	12	20	132074
★ QST...	G3/8	16	1	186349
★ QST...	G1/2	12	1	186166
★ QST...	G1/2	16	1	186167

Push-in T-fitting



Type	D1	D2	PU	PN
★ QSTL...	R1/8	4	10	153117
★ QSTL...	R1/8	4	100	130824
★ QSTL...	R1/8	6	10	153118
★ QSTL...	R1/8	6	100	130825
★ QSTL...	R1/8	8	10	153120
★ QSTL...	R1/8	8	50	130826
★ QSTL...	R1/4	6	10	153119
★ QSTL...	R1/4	6	100	130827
★ QSTL...	R1/4	8	10	153121
★ QSTL...	R1/4	8	50	130828
★ QSTL...	R1/4	10	10	153123
★ QSTL...	R1/4	10	50	130829
★ QSTL...	R3/8	8	10	153122
★ QSTL...	R3/8	10	10	153124
★ QSTL...	R3/8	12	10	153125
★ QSTL...	R1/2	12	1	153126
★ QSTL...	R1/2	16	1	153127
★ QSTL...	G1/8	4	10	186168
★ QSTL...	G1/8	4	100	132075
★ QSTL...	G1/8	6	10	186169
★ QSTL...	G1/8	6	100	132076
★ QSTL...	G1/8	8	10	186171
★ QSTL...	G1/8	8	50	132077
★ QSTL...	G1/4	6	10	186170
★ QSTL...	G1/4	6	100	132078
★ QSTL...	G1/4	8	10	186172
★ QSTL...	G1/4	8	50	132079
★ QSTL...	G1/4	10	10	186174
★ QSTL...	G1/4	10	50	132080
★ QSTL...	G3/8	8	10	186173
★ QSTL...	G3/8	10	10	186175
★ QSTL...	G3/8	12	10	186176
★ QSTL...	G1/2	12	1	186177
★ QSTL...	G1/2	16	1	186178

Push-in Y-fitting



Type	D1	D2	PU	PN
★ QSY...	M5	4	10	190673
★ QSY...	M5	6	10	190674
★ QSY...	R1/8	4	10	153138
★ QSY...	R1/8	6	10	153139
★ QSY...	R1/8	8	10	153141
★ QSY...	R1/4	4	10	190675
★ QSY...	R1/4	6	10	153140
★ QSY...	R1/4	8	10	153142
★ QSY...	R1/4	10	10	153144
★ QSY...	R3/8	8	10	153143
★ QSY...	R3/8	10	10	153145
★ QSY...	R3/8	12	10	153146
★ QSY...	R1/2	12	10	153147
★ QSY...	G1/8	4	10	186179
★ QSY...	G1/8	6	10	186180
★ QSY...	G1/8	8	10	186182
★ QSY...	G1/4	6	10	186181
★ QSY...	G1/4	8	10	186183
★ QSY...	G1/4	10	10	186185
★ QSY...	G3/8	8	10	186184
★ QSY...	G3/8	10	10	186186
★ QSY...	G3/8	12	10	186187
★ QSY...	G1/2	12	1	186188

Push-in Y-fitting



Type	D1	D2	PU	PN
QSYTF...	R1/8	6	1	153196
QSYTF...	R1/4	8	1	153197
QSYTF...	R3/8	10	1	153198
QSYTF...	R1/2	12	1	153199
QSYTF...	G1/8	6	1	186213
QSYTF...	G1/4	8	1	186214
QSYTF...	G3/8	10	1	186215
QSYTF...	G1/2	12	1	186216

Multiple distributor



Type	D1	D2	PU	PN
QSLV3...	R1/8	4	1	153221
QSLV3...	R1/8	6	1	153222
QSLV3...	R1/8	8	1	153224
QSLV3...	R1/4	6	1	153223
QSLV3...	R1/4	8	1	153225
QSLV3...	R1/4	10	1	153227
QSLV3...	R3/8	8	1	153226
QSLV3...	R3/8	10	1	153228
QSLV3...	R3/8	12	1	153229
QSLV3...	R1/2	12	1	153230
QSLV3...	G1/8	4	1	186233
QSLV3...	G1/8	6	1	186234
QSLV3...	G1/8	8	1	186236
QSLV3...	G1/4	6	1	186235
QSLV3...	G1/4	8	1	186237
QSLV3...	G1/4	10	1	186239
QSLV3...	G3/8	8	1	186238
QSLV3...	G3/8	10	1	186240
QSLV3...	G3/8	12	1	186241
QSLV3...	G1/2	12	1	186242

Multiple distributor



Type	D1	D2	PU	PN
QSLV6...	R1/8	4	1	153241
QSLV6...	R1/8	6	1	153242
QSLV6...	R1/8	8	1	153244
QSLV6...	R1/4	6	1	153243
QSLV6...	R1/4	8	1	153245
QSLV6...	R1/4	10	1	153247
QSLV6...	R3/8	8	1	153246
QSLV6...	R3/8	10	1	153248
QSLV6...	R3/8	12	1	153249
QSLV6...	R1/2	12	1	153250
QSLV6...	G1/8	4	1	186253
QSLV6...	G1/8	6	1	186254
QSLV6...	G1/8	8	1	186256
QSLV6...	G1/4	6	1	186255
QSLV6...	G1/4	8	1	186257
QSLV6...	G1/4	10	1	186259
QSLV6...	G3/8	8	1	186258
QSLV6...	G3/8	10	1	186260
QSLV6...	G3/8	12	1	186261
QSLV6...	G1/2	12	1	186262

Rotary L-fitting



Type	D1	D2	PU	PN
Q SRL...	M5	4	1	153529
Q SRL...	M5	6	1	153530
Q SRL...	R1/8	4	1	153410
Q SRL...	R1/8	6	1	153411
Q SRL...	R1/8	8	1	153413
Q SRL...	R1/4	6	1	153412
Q SRL...	R1/4	8	1	153414
Q SRL...	R3/8	8	1	153415
Q SRL...	R3/8	10	1	153416
Q SRL...	R3/8	12	1	153417
Q SRL...	R1/2	12	1	153418
Q SRL...	G1/8	4	1	186285
Q SRL...	G1/8	6	1	186286
Q SRL...	G1/8	8	1	186288
Q SRL...	G1/4	6	1	186287
Q SRL...	G1/4	8	1	186289
Q SRL...	G3/8	8	1	186290
Q SRL...	G3/8	10	1	186291
Q SRL...	G3/8	12	1	186292
Q SRL...	G1/2	12	1	186293

Push-in T-fitting



Type	D1	D2	PU	PN
★ QSTF...	R1/8	4	10	153182
★ QSTF...	R1/8	6	10	153183
★ QSTF...	R1/8	8	10	153185
★ QSTF...	R1/4	6	10	153184
★ QSTF...	R1/4	8	10	153186
★ QSTF...	R1/4	10	10	153188
★ QSTF...	R3/8	8	10	153187
★ QSTF...	R3/8	10	10	153189
★ QSTF...	R3/8	12	10	153190
★ QSTF...	R1/2	12	10	153191
★ QSTF...	G1/8	4	10	186199
★ QSTF...	G1/8	6	10	186200
★ QSTF...	G1/8	8	10	186202
★ QSTF...	G1/4	6	10	186201
★ QSTF...	G1/4	8	10	186203
★ QSTF...	G1/4	10	10	186205
★ QSTF...	R3/8	8	10	186204
★ QSTF...	R3/8	10	10	186206
★ QSTF...	R3/8	12	1	186207
★ QSTF...	G1/2	12	1	186208

Push-in T-fitting



Type	D1	D2	PU	PN
★ QST...	R1/8	4	10	153106
★ QST...	R1/8	4	100	130793
★ QST...	R1/8	6	10	153107
★ QST...	R1/8	6	100	130794
★ QST...	R1/8	8	10	153109
★ QST...	R1/8	8	10	130795
★ QST...	R1/8	10	50	190667
★ QST...	R1/4	4	10	190668
★ QST...	R1/4	6	10	153108
★ QST...	R1/4	6	10	130796
★ QST...	R1/4	8	100	153110
★ QST...	R1/4	8	10	130797
★ QST...	R1/4	10	50	153112
★ QST...	R1/4	10	10	130798
★ QST...	R1/4	12	50	190669
★ QST...	R3/8	6	10	190670
★ QST...	R3/8	8	10	153111
★ QST...	R3/8	8	10	130799
★ QST...	R3/8	10	50	153113
★ QST...	R3/8	10	10	130800
★ QST...	R3/8	12	20	153114
★ QST...	R3/8	12	10	130801
★ QST...	R3/8	16	20	164959
★ QST...	R1/2	10	1	190672
★ QST...	R1/2	12	1	153115
★ QST...	R1/2	16	1	153116

Push-in Y-fitting



Type	D1	D2	PU	PN
★ QSYLV...	R1/8	6	1	153192
★ QSYLV...	R1/4	8	1	153193
★ QSYLV...	R3/8	10	1	153194
★ QSYLV...	R1/2	12	1	153195
★ QSYLV...	G1/8	6	1	186209
★ QSYLV...	G1/4	8	1	186210
★ QSYLV...	G3/8	10	1	186211
★ QSYLV...	G1/2	12	1	186212

QS standard – Push-in connectors

In the tables below you will find the optimum polymer fittings for the applications shown opposite.

Select matching tubing from poster 8 “Plastic tubing” and you will always have the right tubing/fitting combination.



Standard: PEN/QS

Suitable for a wide range of tasks and attractively priced. Flexible thanks to highly resistant materials, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.



Wide range of variants: PUN/QS

Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.



Extended pressure range: PAN/QS

Meets all requirements, even for standard applications with increased pressure and temperature ranges.

QS standard, mini

Push-in connector



Type	D1	D2	PU	PN
★ QSM-... 3	2	10	133029	
★ QSM-... 3	3	10	153323	
QSM-... 3	3	100	130757	
★ QSM-... 4	4	10	153324	
QSM-... 4	4	100	130758	
★ QSM-... 6	6	10	153325	
QSM-... 6	6	100	130759	
reducing				
★ QSM-... 4	3	10	153326	
QSM-... 4	3	100	130760	
★ QSM-... 6	4	10	153327	
QSM-... 6	4	100	130761	

Push-in connector with push-in sleeve



Type	D1	D2	PU	PN
★ QSM-...H 3	2	10	133035	
★ QSM-...H 4	3	10	153328	
QSM-...H 4	3	100	130762	
★ QSM-...H 6	4	10	153329	
QSM-...H 6	4	100	130763	

Push-in L-connector



Type	D1	D2	PU	PN
★ QSM-L-... 3	3	10	153343	
★ QSM-L-... 4	4	10	153344	
QSM-L-... 4	4	100	130766	
★ QSM-L-... 6	6	10	153345	
QSM-L-... 6	6	100	130767	
with push-in sleeve				
★ QSM-L-...H 3	3	10	153346	
★ QSM-L-...H 4	4	10	153347	
★ QSM-L-...H 6	6	10	153348	
reducing				
★ QSM-L-...H 4	3	10	153349	
★ QSM-L-...H 6	4	10	153350	

Push-in bulkhead connector



Type	D1	D2	PU	PN
★ QSMS-... 3	3	10	153375	
★ QSMS-... 4	4	10	153376	
QSMS-... 4	4	100	130780	
★ QSMS-... 6	6	10	153377	
QSMS-... 6	6	100	130781	

Push-in T-connector



Type	D1	D2	PU	PN
★ QSMT-... 2	2	10	133034	
★ QSMT-... 3	3	10	153365	
★ QSMT-... 4	4	10	153366	
QSMT-... 4	4	100	130782	
★ QSMT-... 6	6	10	153367	
QSMT-... 6	6	100	130783	
reducing				
★ QSMT-... 4	3	10	153368	
★ QSMT-... 6	4	10	153369	

Push-in X-connector



Type	D1	D2	PU	PN
QSMX 3	3	10	153378	
QSMX 4	4	10	153379	
QSMX 6	6	10	153380	

Push-in Y-connector



Type	D1	D2	PU	PN
★ QSMY 2	2	10	133037	
★ QSMY 3	3	10	153370	
★ QSMY 4	4	10	153371	
★ QSMY 6	6	10	153372	
reducing				
★ QSMY 4	3	10	153373	
★ QSMY 6	4	10	153374	

Push-in connector



Type	D1	D2	PU	PN
★ QS-... 4	4	10	153031	
QS-... 4	4	100	130686	
★ QS-... 6	6	10	153032	
QS-... 6	6	100	130687	
★ QS-... 8	8	10	153033	
QS-... 8	8	50	130688	
★ QS-... 10	10	10	153034	
QS-... 10	10	50	130689	
★ QS-... 12	12	10	153035	
QS-... 12	12	20	130690	
★ QS-... 16	16	1	153036	
reducing				
★ QS-... 6	4	10	153037	
QS-... 6	4	100	130691	
★ QS-... 8	4	10	130606	
★ QS-... 8	6	10	153038	
QS-... 8	6	50	130692	
★ QS-... 10	6	10	130607	
★ QS-... 10	8	10	153039	
QS-... 10	8	50	130693	
★ QS-... 12	8	10	130608	
★ QS-... 12	10	10	153040	
QS-... 12	10	20	130694	

Push-in cap



Type	D1	PU	PN
QSMC-... 3	10	153381	
QSC-... 4	10	153262	
QSC-... 4	100	130704	
QSC-... 6	10	153263	
QSC-... 6	100	130705	
QSC-... 8	10	153264	
QSC-... 8	50	130706	
QSC-... 10	10	153265	
QSC-... 10	50	130707	
QSC-... 12	10	153266	
QSC-... 12	20	130708	

Blanking plug



Typ	D1	PE	TN
QSMC-...H 2	10	133036	
QSMC-...H 3	10	153382	

Push-in connector with push-in sleeve



Type	D1	D2	PU	PN
★ QS-...H 6	4	10	153041	
QS-...H 6	4	100	130695	
★ QS-...H 8	4	10	130622	
★ QS-...H 8	6	10	153042	
QS-...H 8	6	50	130696	
★ QS-...H 10	6	10	130623	
★ QS-...H 12	6	10	132981	
★ QS-...H 10	8	10	153043	
QS-...H 10	8	50	130697	
★ QS-...H 12	8	10	130624	
★ QS-...H 12	10	10	153044	
QS-...H 12	10	20	130698	

Push-in sleeve



Type	D1	D2	PU	PN
QSH-... 4	4	10	153251	
QSH-... 4	4	100	130723	
QSH-... 6	6	10	153252	
QSH-... 6	6	100	130724	
QSH-... 8	8	10	153253	
QSH-... 8	8	50	130725	
QSH-... 10	10	10	153254	
QSH-... 10	10	50	130726	
QSH-... 12	12	10	153255	
QSH-... 12	12	20	130727	
QSH-... 16	16	10	153256	
reducing				
QSH-... 6	4	10	153257	
QSH-... 6	4	100	130718	
QSH-... 8	4	10	130625	
QSH-... 8	6	10	153258	
QSH-... 8	6	50	130719	
QSH-... 10	6	10	130626	
QSH-... 10	8	10	153259	
QSH-... 10	8	50	130720	
QSH-... 12	8	10	130627	
QSH-... 12	10	10	153260	
QSH-... 12	10	20	130721	
QSH-... 16	12	1	153261	
QSH-... 16	12	20	130722	

Push-in connector, self-sealing



Type	D1	D2	PU	PN
QSK-... 4	4	10	153439	
QSK-... 6	6	10	153440	
QSK-... 8	8	10	153441	
QSK-... 10	10	10	153442	
QSK-... 12	12	10	153443	

Push-in bulkhead connector



Type	D1	PU	PN
★ QSS-... 4	10	153157	
QSS-... 4	100	130788	
★ QSS-... 6	10	153158	
QSS-... 6	100	130789	
★ QSS-... 8	10	153159	
QSS-... 8	50	130790	
★ QSS-... 10	10	153160	
QSS-... 10	50	130791	
★ QSS-... 12	10	153161	
QSS-... 12	20	130792	

Push-in bulkhead connector with fixed collar



Type	D1	D2	PU	PN
QSS-F-... 4	4	10	193950	
QSS-F-... 6	6	10	193951	
★ QSS-F-... 8	8	10	130642	
★ QSS-F-... 10	10	10	130643	
★ QSS-F-... 12	12	10	130644	

Push-in bulkhead connector sealing



Type	D1	D2	PU	PN
★ QSSK-... 4	4	10	130637	
★ QSSK-... 6	6	10	130638	
★ QSSK-... 8	8	10	130639	
★ QSSK-... 10	10	10	130640	
★ QSSK-... 12	12	10	130641	

Push-in L-connector



Type	D1	D2	PU	PN
★ QSL-... 4	4	10	153070	
QSL-... 4	4	100	130740	
★ QSL-... 6	6	10	153071	
QSL-... 6	6	100	130741	
★ QSL-... 8	8	10	153072	
QSL-... 8	8	50	130742	
★ QSL-... 10	10	10	153073	
QSL-... 10	10	50	130743	
★ QSL-... 12	12	10	153074	
QSL-... 12	12	20	130744	
★ QSL-... 16	16	1	153075	

Push-in L-connector with push-in sleeve



Type	D1	D2	PU	PN
★ QSL-H-... 4	4	10	153056	
QSL-H-... 4	4	100	130745	
★ QSL-H-... 6	6	10	153057	
★ QSL-H-... 6	6	100	130746	
★ QSL-H-... 8	8	10	153058	
QSL-H-... 8	8	50	130747	
★ QSL-H-... 10	10	10	153059	
QSL-H-... 10	10	50	130748	
★ QSL-H-... 12	12	10	153060	
reducing				
★ QSL-H-... 6	4	10	153061	
★ QSL-H-... 8	6	10	153062	
★ QSL-H-... 10	8	10	153063	
★ QSL-H-... 12	10	10	153064	

Push-in L-connector with long push-in sleeve



Type	D1	D2	PU	PN
★ QSL-HL-... 4	4	10	153065	
★ QSL-HL-... 6	6	10	153066	
★ QSL-HL-... 8	8	10	153067	
★ QSL-HL-... 10	10	10	153068	
★ QSL-HL-... 12	12	10	153069	

Push-in connector with push-in sleeve



Type	D1	D2	PU	PN
★ QSW-...HL 4	4	10	130617	
★ QSW-...HL 6	6	10	130618	
★ QSW-...HL 8	8	10	130619	
★ QSW-...HL 10	10	10	130620	
★ QSW-...HL 12	12	10	130621	

Push-in T-connector



type	D1	D2	PU	PN
QST-... 4	4	4	10	153128
QST-... 4	4	4	100	130802
QST-... 6	6	6	10	153129
QST-... 6	6	6	100	130803
QST-... 8	8	8	10	153130
QST-... 8	8	8	50	130804
QST-... 10	10	10	10	153131
QST-... 10	10	10	50	130805
QST-... 12	12	12	10	153132
QST-... 12	12	12	20	130806
QST-... 16	16	16	1	153133
reducing				
QST-... 6	4	4	10	153134
QST-... 6	4	4	100	130820
QST-... 8	4	4	10	130613
QST-... 8	6	6	10	153135
QST-... 8	6	6	50	130821
QST-... 10	6	6	10	130614
QST-... 10	8	8	10	153136
QST-... 10	8	8	50	130822
QST-... 12	8	8	10	130615
QST-... 12	10	10	10	153137
QST-... 12	10	10	20	130823
QST-... 16	12	1	1	130616

Metal push-in fittings/connectors

In the tables below you will find the optimum metal fittings for the following applications.

Select matching tubing from poster 8 “Plastic tubing” and you will always have the right tubing/fitting combination.



High pressures:
PAN-MF/NPQM

Meets DIN standard 73378: ideal for use in mobile pneumatics. Suitable for increased temperature ranges combined with high pressure ranges.



Resistant to welding spatter:
PAN-V0/QS-V0

Safe even in the immediate vicinity of welding spatter thanks to the double-walled tubing with special fitting

NPQM

Push-in fitting
with internal hex



Type	D1	D2	PU	PN
NPQM-DK M5	4	20	558657	
NPQM-DK M5	6	20	558658	
NPQM-DK M7	4	20	558659	
NPQM-DK M7	6	20	558660	

Push-in fitting
female thread



Type	D1	D2	PU	PN
NPQM-D G1/8	4	10	558674	
NPQM-D G1/8	6	10	558675	
NPQM-D G1/8	8	10	558676	
NPQM-D G1/4	6	10	558678	
NPQM-D G1/4	8	10	558679	
NPQM-D G1/4	10	10	558680	

Push-in fitting



Type	D1	D2	PU	PN
NPQM-D G1/8	4	10	558661	
NPQM-D G1/8	6	10	558662	
NPQM-D G1/8	8	10	558663	
NPQM-D G1/4	6	10	558664	
NPQM-D G1/4	8	10	558665	
NPQM-D G1/4	10	10	558666	
NPQM-D G1/4	12	10	558667	
NPQM-D G3/8	8	10	558668	
NPQM-D G3/8	10	10	558669	
NPQM-D G3/8	12	10	558670	
NPQM-D G3/8	14	1	570450	
NPQM-D G1/2	10	10	558671	
NPQM-D G1/2	12	10	558672	
NPQM-D G1/2	14	1	570451	

Push-in L-fitting



Type	D1	D2	PU	PN
NPQM-L M5	4	10	558704	
NPQM-L M5	6	10	558705	
NPQM-L G1/8	4	10	558708	
NPQM-L G1/8	6	10	558709	
NPQM-L G1/8	8	10	558710	
NPQM-L G1/4	6	10	558711	
NPQM-L G1/4	8	10	558712	
NPQM-L G1/4	10	10	558713	
NPQM-L G1/4	12	10	558714	
NPQM-L G3/8	8	10	558715	
NPQM-L G3/8	10	10	558716	
NPQM-L G3/8	12	10	558717	
NPQM-L G3/8	14	10	570460	
NPQM-L G1/2	10	10	558718	
NPQM-L G1/2	12	1	558719	
NPQM-L G1/2	14	10	570461	

Push-in T-fitting



Type	D1	D2	PU	PN
NPQM-T G1/8	4	10	558736	
NPQM-T G1/8	6	10	558737	
NPQM-T G1/8	8	10	558738	
NPQM-T G1/4	6	10	558739	
NPQM-T G1/4	8	10	558740	
NPQM-T G1/4	10	10	558741	
NPQM-T G3/8	8	10	558743	
NPQM-T G3/8	10	10	558744	
NPQM-T G3/8	12	10	558745	
NPQM-T G1/2	12	10	558747	

Push-in L-fitting



Type	D1	D2	PU	PN
NPQM-LK M5	3	10	558816	
NPQM-LK M5	4	10	558817	
NPQM-LK G1/8	4	10	558818	
NPQM-LK G1/8	6	10	558819	
NPQM-LK G1/8	8	10	558820	
NPQM-LK G1/4	6	10	558821	
NPQM-LK G1/4	8	10	558822	
NPQM-LK G1/4	10	10	558823	
NPQM-LK G3/8	10	10	558825	

Push-in L-connector
with sleeve



Type	D1	D2	PU	PN
NPQM-L 4	4	10	558781	
NPQM-L 6	6	10	558782	
NPQM-L 8	8	10	558783	
NPQM-L 10	10	10	558784	

Push-in T-connector



Type	D1	D2	PU	PN
NPQM-T 4	4	10	558786	
NPQM-T 6	6	10	558787	
NPQM-T 8	8	10	558788	
NPQM-T 10	10	10	558789	
NPQM-T 12	10	10	558790	
NPQM-T 14	14	10	570454	

Push-in L-fitting



Type	D1	D2	PU	PN
NPQM-LH M5	4	10	558827	
NPQM-LH M5	6	10	558828	
NPQM-LH G1/8	4	10	558829	
NPQM-LH G1/8	6	10	558830	
NPQM-LH G1/8	8	10	558831	
NPQM-LH G1/4	6	10	558832	
NPQM-LH G1/4	8	10	558833	
NPQM-LH G3/8	8	10	558834	
NPQM-LH G3/8	10	10	558835	
NPQM-LH G3/8	12	10	558836	

Push-in sleeve



Type	D1	PU	PN
NPQM-D 4	10	558811	
NPQM-D 6	10	558812	
NPQM-D 8	10	558813	
NPQM-D 10	10	558814	
NPQM-D 12	10	558815	
NPQM-D 14	1	570455	

Push-in fitting



Type	D1	D2	PU	PN
QS-V0 R1/8	4	10	132888	
QS-V0 R1/8	6	10	160500	
QS-V0 R1/8	8	10	160501	
QS-V0 R1/4	6	10	160502	
QS-V0 R1/4	8	10	160503	
QS-V0 R1/4	10	10	160504	
QS-V0 R1/4	12	10	160505	
QS-V0 R3/8	8	10	160506	
QS-V0 R3/8	10	10	160507	
QS-V0 R3/8	12	10	160508	
QS-V0 R1/2	10	10	160509	
QS-V0 R1/2	12	10	160510	

Push-in L-fitting



Type	D1	D2	PU	PN
QSL-V0 R1/8	4	10	132891	
QSL-V0 R1/8	6	10	160511	
QSL-V0 R1/8	8	10	160512	
QSL-V0 R1/4	6	10	160513	
QSL-V0 R1/4	8	10	160514	
QSL-V0 R1/4	10	10	160515	
QSL-V0 R1/4	12	10	160516	
QSL-V0 R3/8	8	10	160517	
QSL-V0 R3/8	10	10	160518	
QSL-V0 R3/8	12	10	160519	
QSL-V0 R1/2	10	10	160520	
QSL-V0 R1/2	12	10	160521	

Push-in T-fitting



Type	D1	D2	PU	PN
QST-V0 G1/8	6	10	186336	
QST-V0 G1/8	8	10	186337	
QST-V0 G1/4	6	10	186338	
QST-V0 G1/4	8	10	186339	
QST-V0 G1/4	10	10	186340	
QST-V0 G1/4	12	10	186341	
QST-V0 G3/8	8	10	186341	
QST-V0 G3/8	10	10	186342	
QST-V0 G3/8	12	10	186343	
QST-V0 G1/2	10	10	186344	
QST-V0 G1/2	12	10	186345	

Push-in connector



Type	D1	PU	PN
QS-V0 4	10	132890	
QS-V0 6	10	160546	
QS-V0 8	10	160547	
QS-V0 10	10	160548	
QS-V0 12	10	160549	

Push-in L-connector



Type	D1	PU	PN
QSL-V0 4	10	132893	
QSL-V0 6	10	160540	
QSL-V0 8	10	160541	
QSL-V0 10	10	160542	
QSL-V0 12	10	160543	

Push-in T-connector



Type	D1	D2	PU	PN
QST-V0 R1/8	4	10	132894	
QST-V0 R1/8	6	10	160522	
QST-V0 R1/8	8	10	160523	
QST-V0 R1/4	6	10	160524	
QST-V0 R1/4	8	10	160525	
QST-V0 R1/4	10	10	160526	
QST-V0 R1/4	12	10	160527	
QST-V0 R3/8	8	10	160528	
QST-V0 R3/8	10	10	160529	
QST-V0 R3/8	12	10	160530	
QST-V0 R1/2	10	10	160531	
QST-V0 R1/2	12	10	160532	

Push-in T-connector



Type	D1	PU	PN
QST-V0 4	10	132896	
QST-V0 6	10	160533	
QST-V0 8	10	160534	
QST-V0 10	10	160535	
QST-V0 12	10	160536	

Push-in T-connector
with sleeve



Type	D1	D2	PU	PN
NPQM-T 4	4	10	558791	
NPQM-T 6	6	10	558792	
NPQM-T 8	8	10	558793	
NPQM-T 10	10	10	558794	

Multiple distributor



Type	D1	D2	PU	PN
NPQM-LFK G1/8	4	10	558837	
NPQM-LFK G1/8	6	10	558838	
NPQM-LFK G1/8	8	10	558839	
NPQM-LFK G1/4	6	10	558840	
NPQM-LFK G1/4	8	10	558841	

Push-in L-connector



Type	D1	D2	PU	PN
NPQM-L 4	4	10	558776	
NPQM-L 6	6	10	558777	
NPQM-L 8	8	10	558778	
NPQM-L 10	10	10	558779	
NPQM-L 12	12	10	558780	
NPQM-L 14	14	1	570453	

Push-in connector
straight, with sleeve



Type	D1	D2	PU	PN
NPQM-D 4	6	10	558765	
NPQM-D 4	8	10	558766	
NPQM-D 6	4	10	558767	
NPQM-D 6	8	10	558768	
NPQM-D 6	10	10	558769	
NPQM-D 6	12	10	558770	
NPQM-D 6	14	1	570457	
NPQM-D 8	6	10	558771	
NPQM-D 8	10	10	558772	
NPQM-D 8	12	10	558773	
NPQM-D 8	14	1	570458	
NPQM-D 10	12	10	558774	
NPQM-D 10	14	1	570456	
NPQM-D 12	14	1	570459	

Push-in Y-connector



Type	D1	D2	PU	PN
NPQM-Y 4	4	10	558798	
NPQM-Y 6	6	10	558799	
NPQM-Y 8	8	10	558800	
NPQM-Y 10	10	10	558801	
NPQM-Y 12	12	10	558802	
reducing				
NPQM-Y 6	4	10	558803	
NPQM-Y 8	6	10	558804	
NPQM-Y 10	8	10	558805	

Push-in connector
straight



Type	D1	D2	PU	PN
NPQM-D 4	4	10	558760	
NPQM-D 6	6	10	558761	
NPQM-D 8	8	10	558762	
NPQM-D 10	10	10	558763	
NPQM-D 12	12	10	558764	
NPQM-D 14	14	1	570452	

Push-in bulkhead connector



Type	D1	D2	PU	PN
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Polymer fittings

In the tables below you will find the optimum polymer fittings for the following applications.

Select matching tubing from poster 8 “Plastic tubing” and you will always have the right tubing/fitting combination.



**Resistant to chemicals:
PLN/NPQP**

Resistant to cleaning agents, FDA-listed material and economical. Can be used instead of the combination with stainless steel fittings.



**Resistant to hydrolysis:
PUN-H/NPKA**

Resistant to hydrolysis and suitable for water applications. Combination suitable for use in cleanrooms, FDA-listed material and corrosion resistant because it's 100% polymer. Very easy to install thanks to the “one click principle”.

NPQP

Push-in fitting



Type	D1	D2	PU	PN
NPQP-D	R1/8	4	10	133041
NPQP-D	R1/8	6	10	133043
NPQP-D	R1/8	8	10	133045
NPQP-D	R1/4	4	10	133042
NPQP-D	R1/4	6	10	133044
NPQP-D	R1/4	8	10	133046
NPQP-D	R1/4	10	10	133047
NPQP-D	R3/8	10	10	133048
NPQP-D	R3/8	12	10	133049
NPQP-D	R1/2	12	1	133050

Push-in L-fitting



Type	D1	D2	PU	PN
NPQP-L	R1/8	4	10	133051
NPQP-L	R1/8	6	10	133053
NPQP-L	R1/8	8	10	133055
NPQP-L	R1/4	4	10	133052
NPQP-L	R1/4	6	10	133054
NPQP-L	R1/4	8	10	133056
NPQP-L	R1/4	10	10	133057
NPQP-L	R3/8	10	10	133058
NPQP-L	R3/8	12	10	133059
NPQP-L	R1/2	12	1	133060

Push-in L-fitting
additional push-in connector



Type	D1	D2	PU	PN
NPQP-LQ	R1/8	4	10	133061
NPQP-LQ	R1/8	6	10	133063
NPQP-LQ	R1/8	8	10	133065
NPQP-LQ	R1/4	4	10	133062
NPQP-LQ	R1/4	6	10	133064
NPQP-LQ	R1/4	8	10	133066
NPQP-LQ	R1/4	10	10	133067
NPQP-LQ	R3/8	10	10	133068
NPQP-LQ	R3/8	12	10	133069
NPQP-LQ	R1/2	12	1	133070

Push-in T-fitting



Type	D1	D2	PU	PN
NPQP-T	R1/8	4	10	133071
NPQP-T	R1/8	6	10	133073
NPQP-T	R1/8	8	10	133075
NPQP-T	R1/4	4	10	133072
NPQP-T	R1/4	6	10	133074
NPQP-T	R1/4	8	10	133076
NPQP-T	R1/4	10	10	133077
NPQP-T	R3/8	10	10	133078
NPQP-T	R3/8	12	10	133079
NPQP-T	R1/2	12	1	133080

Push-in Y-fitting



Type	D1	D2	PU	PN
NPQP-Y	R1/8	4	10	133081
NPQP-Y	R1/8	6	10	133083
NPQP-Y	R1/8	8	10	133085
NPQP-Y	R1/4	4	10	133082
NPQP-Y	R1/4	6	10	133084
NPQP-Y	R1/4	8	10	133086
NPQP-Y	R1/4	10	10	133087
NPQP-Y	R3/8	10	10	133088
NPQP-Y	R3/8	12	10	133089
NPQP-Y	R1/2	12	1	133090

NPKA

Click fitting
with internal hex



Type	D1	D2	PU	PN
NPKA-D	G1/8	6	10	1243489

Click L-fitting



Type	D1	D2	PU	PN
NPKA-L	G1/8	6	10	1655429

Click T-fitting



Type	D1	D2	PU	PN
NPKA-T	6	6	10	1590710

Push-in connector



Type	D1	D2	PU	PN
NPQP-D	4	4	10	133091
NPQP-D	6	6	10	133092
NPQP-D	8	8	10	133093
NPQP-D	10	10	10	133094
NPQP-D	12	12	10	133095
reducing				
NPQP-D	6	4	10	133096
NPQP-D	8	6	10	133097
NPQP-D	10	8	10	133098
NPQP-D	12	10	10	133099

Push-in L-connector



Type	D1	D2	PU	PN
NPQP-L	4	4	10	133105
NPQP-L	6	6	10	133106
NPQP-L	8	8	10	133107
NPQP-L	10	10	10	133108
NPQP-L	12	12	10	133109

Push-in T-connector



Type	D1	D2	PU	PN
NPQP-T	4	4	10	133110
NPQP-T	6	6	10	133111
NPQP-T	8	8	10	133112
NPQP-T	10	10	10	133113
NPQP-T	12	12	10	133114
reducing				
NPQP-T	6	4	10	133115
NPQP-T	8	6	10	133116
NPQP-T	10	8	10	133117
NPQP-T	12	10	10	133118

Push-in Y-connector



Type	D1	D2	PU	PN
NPQP-Y	4	4	10	133119
NPQP-Y	6	6	10	133120
NPQP-Y	8	8	10	133121
NPQP-Y	10	10	10	133122
NPQP-Y	12	12	10	133123
reducing				
NPQP-Y	6	4	10	133124
NPQP-Y	8	6	10	133125
NPQP-Y	10	8	10	133126
NPQP-Y	12	10	10	133127

Push-in bulkhead connector



Type	D1	PU	PN
NPQP-H	4	1	133100
NPQP-H	6	1	133101
NPQP-H	8	1	133102
NPQP-H	10	1	133103
NPQP-H	12	1	133104

Push-in connector
with sleeve



Type	D1	D2	PU	PN
NPQP-D	4	6	10	133133
NPQP-D	4	8	10	133134
NPQP-D	6	8	10	133135
NPQP-D	6	10	10	133136
NPQP-D	8	10	10	133137
NPQP-D	8	12	10	133138
NPQP-D	10	12	10	133139

Blanking plug



Type	D1	PU	PN
NPQP-P	4	10	133128
NPQP-P	6	10	133129
NPQP-P	8	10	133130
NPQP-P	10	10	133131
NPQP-P	12	10	133132

Legend

D1 Tubing diameter, external 1
D2 Tubing diameter, external 2
PN Part number
PU Packaging unit

Comment

All L and T fittings orientable 360°.



Metal and special fittings/connectors



Resistant to chemicals, food-grade***, resistant to hydrolysis, resistant to pressure, resistant to welding spatter



Resistant to chemicals



Clean design

NPQH

Push-in fitting
Male thread with external hex



Type	D1	D2	PU	PN
NPQH-D M5	4	10	578334	
NPQH-D M5	6	10	578335	
NPQH-D M7	4	10	578336	
NPQH-D M7	6	10	578337	
NPQH-D G1/8	4	10	578338	
NPQH-D G1/8	6	10	578339	
NPQH-D G1/8	8	10	578340	
NPQH-D G1/4	6	10	578341	
NPQH-D G1/4	8	10	578342	
NPQH-D G1/4	10	10	578343	
NPQH-D G1/4	12	10	578344	
NPQH-D G3/8	8	10	578345	
NPQH-D G3/8	10	10	578346	
NPQH-D G3/8	12	10	578347	
NPQH-D G3/8	14	10	578348	
NPQH-D G1/2	10	1	578349	
NPQH-D G1/2	12	1	578350	
NPQH-D G1/2	14	1	578351	

Push-in fitting
Male thread with internal hex



Type	D1	D2	PU	PN
NPQH-DK M5	4	10	578370	
NPQH-DK M5	6	10	578371	
NPQH-DK M7	4	10	578372	
NPQH-DK M7	6	10	578373	
NPQH-DK G1/8	4	10	578374	
NPQH-DK G1/8	6	10	578375	
NPQH-DK G1/8	8	10	578376	
NPQH-DK G1/4	8	10	578377	
NPQH-DK G1/4	10	10	578378	
NPQH-DK G3/8	12	10	578379	

Push-in fitting
with push-in sleeve



Type	D1	D2	PU	PN
NPQH-D M5	4	10	578358	
NPQH-D M5	6	10	578359	
NPQH-D G1/8	4	10	578360	
NPQH-D G1/8	6	10	578361	
NPQH-D G1/8	8	10	578362	
NPQH-D G1/4	6	10	578363	
NPQH-D G1/4	8	10	578364	
NPQH-D G1/4	10	10	578365	
NPQH-D G1/4	12	10	578366	
NPQH-D G3/8	10	10	578367	
NPQH-D G3/8	12	10	578368	
NPQH-D G1/2	12	1	578369	

Push-in long L-fitting
Male thread with external hex



Type	D1	D2	PU	PN
NPQH-LL G1/8	4	10	578263	
NPQH-LL G1/8	6	10	578264	
NPQH-LL G1/8	8	10	578265	
NPQH-LL G1/4	6	10	578266	
NPQH-LL G1/4	8	10	578267	
NPQH-LL G1/4	10	10	578268	
NPQH-LL G3/8	10	10	578269	

Push-in L-fitting
Male thread with external hex



Type	D1	D2	PU	PN
NPQH-L M5	4	10	578276	
NPQH-L M5	6	10	578277	
NPQH-L M7	4	10	578278	
NPQH-L M7	6	10	578279	
NPQH-L G1/8	4	10	578280	
NPQH-L G1/8	6	10	578281	
NPQH-L G1/8	8	10	578282	
NPQH-L G1/4	6	10	578283	
NPQH-L G1/4	8	10	578284	
NPQH-L G1/4	10	10	578285	
NPQH-L G1/4	12	10	578286	
NPQH-L G3/8	8	10	578287	
NPQH-L G3/8	10	10	578288	
NPQH-L G3/8	12	10	578289	
NPQH-L G3/8	14	10	578290	
NPQH-L G1/2	10	1	578291	
NPQH-L G1/2	12	1	578292	
NPQH-L G1/2	14	1	578293	

Push-in fitting
female thread with external hex



Type	D1	D2	PU	PN
NPQH-D G1/8F	4	10	578352	
NPQH-D G1/8F	6	10	578353	
NPQH-D G1/8F	8	10	578354	
NPQH-D G1/4F	4	10	578355	
NPQH-D G1/4F	6	10	578356	
NPQH-D G1/4F	8	10	578357	

Push-in T-fitting
Male thread with external hex



Type	D1	D2	PU	PN
NPQH-T M5	4	10	578390	
NPQH-T M5	6	10	578391	
NPQH-T G1/8	4	10	578392	
NPQH-T G1/8	6	10	578393	
NPQH-T G1/8	8	10	578394	
NPQH-T G1/4	6	10	578395	
NPQH-T G1/4	8	10	578396	
NPQH-T G1/4	10	10	578397	
NPQH-T G1/4	12	10	578398	
NPQH-T G3/8	10	10	578399	
NPQH-T G3/8	10	10	578400	
NPQH-T G3/8	12	10	578401	
NPQH-T G1/2	10	1	578402	
NPQH-T G1/2	12	1	578403	

Push-in bulkhead fitting
female thread with external hex



Type	D1	D2	PU	PN
NPQH-H G1/8F	4	10	578294	
NPQH-H G1/8F	6	10	578295	
NPQH-H G1/8F	8	10	578296	
NPQH-H G1/4F	6	10	578297	
NPQH-H G1/4F	8	10	578298	

Push-in connector



Type	D1	D2	PU	PN
NPQH-D 4	4	10	578323	
NPQH-D 6	6	10	578324	
NPQH-D 8	8	10	578325	
NPQH-D 10	10	10	578326	
NPQH-D 12	12	10	578327	
NPQH-D 14	14	10	578328	
reducing				
NPQH-D 6	4	10	578329	
NPQH-D 8	6	10	578330	
NPQH-D 12	8	10	578331	
NPQH-D 14	10	10	578332	
NPQH-D 14	12	10	578333	

Push-in connector
with push-in sleeve



Type	D1	D2	PU	PN
NPQH-D 4	6	10	578304	
NPQH-D 4	8	10	578305	
NPQH-D 4	10	10	578307	
NPQH-D 6	8	10	578306	
NPQH-D 6	10	10	578308	
NPQH-D 6	12	10	578310	
NPQH-D 6	14	10	578313	
NPQH-D 8	10	10	578309	
NPQH-D 8	12	10	578311	
NPQH-D 8	14	10	578314	
NPQH-D 10	12	10	578312	
NPQH-D 10	14	10	578315	
NPQH-D 12	14	10	578316	

Push-in T-connector



Type	D1	D2	PU	PN
NPQH-T 4	4	10	578380	
NPQH-T 6	6	10	578381	
NPQH-T 8	8	10	578382	
NPQH-T 10	10	10	578383	
NPQH-T 12	12	10	578384	
NPQH-T 14	14	10	578385	
reducing				
NPQH-T 6	4	10	578386	
NPQH-T 8	6	10	578387	
NPQH-T 10	8	10	578388	
NPQH-T 12	10	10	578389	

Push-in bulkhead connector



Type	D1	D2	PU	PN
NPQH-H 4	4	10	578299	
NPQH-H 6	6	10	578300	
NPQH-H 8	8	10	578301	
NPQH-H 10	10	10	578302	
NPQH-H 12	12	10	578303	

Push-in L-connector



Type	D1	D2	PU	PN
NPQH-L 4	4	10	578270	
NPQH-L 6	6	10	578271	
NPQH-L 8	8	10	578272	
NPQH-L 10	10	10	578273	
NPQH-L 12	12	10	578274	
NPQH-L 14	14	10	578275	

Push-in Y-connector



Type	D1	D2	PU	PN
NPQH-Y 6	6	10	578410	
NPQH-Y 8	8	10	578411	
NPQH-Y 10	10	10	578412	
reducing				
NPQH-Y 6	4	10	578413	
NPQH-Y 8	6	10	578414	
NPQH-Y 10	8	10	578415	

Blanking plug



Type	D1	PU	PN
NPQH-P 4	10	578257	
NPQH-P 6	10	578258	
NPQH-P 8	10	578259	
NPQH-P 10	10	578260	
NPQH-P 12	10	578261	
NPQH-P 14	10	578262	

Push-in sleeve



Type	D1	D2	PU	PN
NPQH-D 4	4	10	578317	
NPQH-D 6	6	10	578318	
NPQH-D 8	8	10	578319	
NPQH-D 10	10	10	578320	
NPQH-D 12	12	10	578321	
NPQH-D 14	14	10	578322	

Plug screw



Type	D1	PU	PN
NPQH-BK M5	10	578404	
NPQH-BK M7	10	578405	
NPQH-BK G1/8	10	578406	
NPQH-BK G1/4	10	578407	
NPQH-BK G3/8	10	578408	
NPQH-BK G1/2	1	578409	

NPQR

Push-in fitting
Male thread with internal hex



Type	D1	D2	PN
NPQR-DK M5	4	8085657	
NPQR-DK M5	6	8085659	
NPQR-DK M7	4	8085658	
NPQR-DK M7	6	8085660	
NPQR-DK G1/8	4	8085661	
NPQR-DK G1/8	6	8085662	
NPQR-DK G1/8	8	8085663	
NPQR-DK G1/8	10	8087695	
NPQR-DK G1/4	6	8085664	
NPQR-DK G1/4	8	8085665	
NPQR-DK G1/4	10	8085666	
NPQR-DK G3/8	8	8086953	
NPQR-DK G3/8	10	8085667	
NPQR-DK G3/8	12	8085668	
NPQR-DK G1/2	12	8085669	
NPQR-DK G1/2	14	8085670	
NPQR-DK G1/2	16	8085671	

Push-in L-fitting
Male thread with external hex



Type	D1	D2	PN
NPQR-L M5	4	8085679	
NPQR-L M5	6	8098626	
NPQR-L G1/8	4	8085680	
NPQR-L G1/8	6	8085681	
NPQR-L G1/8	8	8085682	
NPQR-L G1/4	6	8085683	
NPQR-L G1/4	8	8085684	
NPQR-L G1/4	10	8085685	
NPQR-L G3/8	10	8085686	
NPQR-L G3/8	12	8085687	
NPQR-L G1/2	12	8085688	
NPQR-L G1/2	14	8085689	
NPQR-L G1/2	16	8085690	

Push-in T-fitting
Male thread with external hex



Type	D1	D2	PN
NPQR-T M5	4	8085691	
NPQR-T M5	6	8099103	
NPQR-T G1/8	6	8085692	
NPQR-T G1/8	8	8085693	
NPQR-T G1/4	8	8085694	
NPQR-T G3/8	10	8085695	
NPQR-T G1/2	16	8085696	
NPQR-T G1/4	10	8099100	
NPQR-T G3/8	12	8099101	
NPQR-T G1/2	12	8099102	

Push-in connector



Type	D1	D2	PN
NPQR-D 4	4	4	8085697
NPQR-D 6	6	6	8085698
NPQR-D 8	8	8	8085699
NPQR-D 10	10	10	8085700
NPQR-D 12	12	12	8085701
NPQR-D 14	14	14	8085702
NPQR-D 16	16	16	8085703

Plastic tubing, standard O.D.

In the tables below you will find the appropriate tubing for optimum tubing/fitting combinations.

Plastic tubing

Standard



PUN	PU 3	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
silver	50 152583	50 152584	50 152586	50 152587	50 152588	50 152589	50 570389	50 152590
silver	500 525738	500 525739	500 525740	500 525741	300 525742	200 525743		100 525744
blue	50 159660	50 159662	50 159664	50 159666	50 159668	50 159670	50 570390	50 159672
blue	500 525745	500 525746	500 525747	400 525748	300 525749	200 525750		100 525751
black	50 159661	50 159663	50 159665	50 159667	50 159669	50 159671	50 570391	50 159673
black	500 553936	500 553937	500 553938	400 553939	300 553940	200 553941		100 553942
yellow	50 178416	50 178417	50 178418	50 178419	50 178420	50 178421		50 178422
green	50 178423	50 178424	50 178425	50 178426	50 178427	50 178428		50 178429
red	50 178409	50 178410	50 178411	50 178412	50 178413	50 178414		50 178415

PUN-DUO	PU 4	PU 6	PU 8	PU 10
silver	50 152822	50 152823	50 152824	50 152825
blue/black	50 159674	50 159675	50 159676	50 159677

PEN	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
nature	50 543246	50 543247	50 543248	50 543249	50 543250	50 570517	50 543251
silver	50 551462	50 551463	50 551464	50 551465	50 551466	50	50 551467
silver	500 551450	500 551451	400 551452	300 551453	200 551454	200	100 551455
blue	50 551456	50 551457	50 551458	50 551459	50 551460	50	50 551461
blue	500 551444	500 551445	400 551446	300 551447	200 551448	200	100 551449
black	50 543240	50 543241	50 543242	50 543243	50 543244	50 570516	50 543245
black	500 551438	500 551439	400 551440	300 551441	200 551442	200	100 551443
green	50 551468	50 551469	50 551470	50 551471	50 551772	50	50 551473
red	50 551474	50 551475	50 551776	50 551477	50 551478	50	50 551479
yellow	50 551480	50 551481	50 551482	50 551483	50 551484	50	50 551485

Food-grade****



Resistant to hydrolysis



PUN-H	PU 2	PU 3	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
nature	50 133038	50 197375	50 ★ 197376	50 197377	50 197378	50 197379	50 197380	50 570388	50 197381
nature		500 558263	500 558264	500 558265	400 558266	300 558267	200 558268		100 558269
blue		50 ★ 197382	50 ★ 197383	50 ★ 197384	50 ★ 197385	50 ★ 197386	50 ★ 197387	50 ★ 570386	50 ★ 197388
blue		500 558256	500 558257	500 558258	400 558259	300 558260	200 558261		100 558262
translucent blue			50 ★ 8048671	50 ★ 8048681	50 ★ 8048691	50 ★ 8048701	50 ★ 8048711		
translucent blue			500 8048672	500 8048682	400 8048692	300 8048702	200 8048712		
black	50 ★ 133039	50 ★ 197389	50 ★ 197390	50 ★ 197391	50 ★ 197392	50 ★ 197393	50 ★ 197394	50 ★ 570387	50 ★ 197395
black		500 558249	500 558250	500 558251	400 558252	300 558253	200 558254		100 558255
translucent black			50 ★ 8048673	50 ★ 8048683	50 ★ 8048693	50 ★ 8048703	50 ★ 8048713		
translucent black			500 8048674	500 8048684	400 8048694	300 8048704	200 8048714		
silver		50 ★ 558277	50 ★ 558278	50 ★ 558279	50 ★ 558280	50 ★ 558281	50 ★ 558282		50 ★ 558283
silver		500 558270	500 558271	500 558272	400 558273	300 558274	200 558275		100 558276
red	50 133040	50 558284	50 558285	50 558286	50 558287	50 558288	50 558289		50 558290
translucent red			50 8048675	50 8048685	50 8048695	50 8048705	50 8048715		
translucent red			500 8048676	500 8048686	400 8048696	300 8048706	200 8048716		
green		50 558291	50 558292	50 558293	50 558294	50 558295	50 558296		50 558297
translucent green			50 8048677	50 8048687	50 8048697	50 8048707	50 8048717		
translucent green			500 8048678	500 8048688	400 8048698	300 8048708	200 8048718		
yellow		50 558298	50 558299	50 558300	50 558301	50 558302	50 558303		50 558304
translucent yellow			50 8048679	50 8048689	50 8048699	50 8048709	50 8048719		
translucent yellow			500 8048680	500 8048690	400 8048700	300 8048710	200 8048720		

PUN-H-DUO	PU 4	PU 6	PU 8	PU 10
blue/black	50 197396	50 197397	50 197398	50 197399

Resistant to chemicals



Resistant to chemicals and heat



PLN	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
nature	50 193403	50 193404	50 193405	50 193406	50 193407	50 570424	50 539064
nature	100 561726	100 561727					
black	50 195280	50 195281	50 195282	50 195283	50 195284	50 570423	50 539065
blue	50 558205	50 558206	50 558207	50 558208	50 558209		50 558210
silver	50 558211	50 558212	50 558213	50 558214	50 558215		50 558216
red	50 558217	50 558218	50 558219	50 558220	50 558221		50 558222

PFAN	PU 4	PU 6	PU 8	PU 10	PU 12
nature	50 197061	50 197062	50 197063	50 197064	50 197065

PTFEN	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
nature	100 8061171	100 8061172	50 8061173	50 8061174	50 8061175	50 8061176	50 8061177
nature		500 8061178	400 8061179	300 8061180			

Antistatic



Pressure resistant up to 1,4 MPa



Pressure resistant up to 3,1 MPa

PUN-CM	PU 4	PU 6	PU 8	PU 10	PU 12
black	50 188882	50 188882	50 130816	50 130817	50 130818

PAN	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
nature	50 546284	50 546285	50 546286	50 546287	50 546288		50 546289
silver	50 152697	50 152699	50 152700	50 152701	50 152702	50 570392	50 152703
silver	500 553888	500 553889	400 553890	300 553891	200 553892		100 553893
blue	50 553906	50 553907	50 553908	50 553909	50 553910		50 553911
blue	500 553894	500 553895	400 553896	300 553897	200 553898		100 553899
black	50 553912	50 553913	50 553914	50 553915	50 553916		50 553917
black	500 553900	500 553901	400 553902	300 553903	200 553904		100 553905
green	50 553918	50 553919	50 553920	50 553921	50 553922		50 553923
red	50 553924	50 553925	50 553926	50 553927	50 553928		50 553929
yellow	50 553930	50 553931	50 553932	50 553933	50 553934		50 553935

PAN-MF	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
black	50 570357	50 570358	50 570359	50 570360	50 570361	50 570362	50 570363
black	500 572091	500 572093					
nature	50 572083	50 572085	50 572087	50 572089	50 572090		
green	50 572084	50 572086	50 572088				
green	500 572092	500 572094					

Pressure resistant up to 3,5 MPa

PAN-R	PU 4	PU 6	PU 8	PU 10	PU 12	PU 16
silver	50 541674	50 541675	50 541676	50 541677	50 541678	50 541679

PAN-R	PU 22	PU 28
black	50 8036207	50 8036208

Flame-retardant



Resistant to welding spatter



PUN-V0-C	PU 4	PU 6	PU 8	PU 10	PU 12	PU 14	PU 16
black	50 570349	50 561698	50 561699	50 561700	50 561701	50 570351	50 570353
blue	50 570350	50 561702	50 561703	50 561704	50 561705	50 570352	50 570354
green		50 561706	50 561707	50 561708	50 561709		
red		50 561710	50 561711	50 561712	50 561713		
white		50 561714	50 561715	50 561716	50 561717		
yellow		50 561718	50 561719	50 561720	50 561721		
brown		50 561722	50 561723	50 561724	50 561725		

PAN-V0	PU 4	PU 6	PU 8	PU 10	PU 12
black		50 160550	50 160551	50 160552	50 160553
blue	50 132899	50 132905	50 132906	50 132907	20 525469
green		20 525470	20 525471	20 525472	20 525473
red		20 525474	20 525475	20 525476	20 525477
white		20 525478	20 525479	20 525480	20 525481
yellow		20 525482	20 525483	20 525484	20 525485
brown		20 525486	20 525487	50 525488	20 525489

Tubing cutter



Type	D1	PN
PAN-V0S	6/8	160554
PAN-V0S	10/12	160555

Pipe cutter



Type	PN
ZRS	7658
Spare blade	218606

Barbed tubing connector

Type	Bundle-Ø (mm)	PN
PB 30		6741
PB 45		6742
PB 100		6743

Thread sealing tape



Type	PN
GWB-0,1	9076

Tubing support NPAW



Type	Size	PN
NPAW-S-T3	small	554026
NPAW-S-T3	medium	554027
NPAW-S-T3	large	554028

Legend

PN Part number
PU Packaging unit

★ Easy and fast to select

Threaded fittings



Wide ranging ...



Sturdy ...

Threaded fittings NPFC



Blanking plug



Type	D1	PU	PN
B	M7	10	174309
B	G1/8	10	3568
B	G1/8	100	534213
B	G1/4	10	3569
B	G1/4	50	534214
B	G3/8	10	3570
B	G3/8	20	534215
B	G1/2	10	3571
B	G1/2	20	534216
B	G3/4	10	3572
B	G1	10	5763

Bulkhead NPFC-B



Type	D1	PU	PN
NPFC-B	M5	10	8069239
NPFC-B	G1/8	10	8069240
NPFC-B	G1/4	10	8069241
NPFC-B	G3/8	10	8069242
NPFC-B	G1/2	10	8069243

Sleeve



Type	D1	PU	PN
NPFC-S	M5	10	8030290
NPFC-S	G1/8	10	8030291
NPFC-S	G1/4	10	8030292
NPFC-S	G3/8	10	8030293
NPFC-S	G1/2	10	8030294
NPFC-S	G3/4	10	8030295

Reducing sleeve



Type	D1	D2	PU	PN
NPFC-R	G1/8	M5	10	8069219
NPFC-R	G1/4	G1/8	10	8069220
NPFC-R	G3/8	G1/8	10	8030296
NPFC-R	G3/8	G1/4	10	8069221
NPFC-R	G1/2	G1/8	10	8069222
NPFC-R	G1/2	G1/4	10	8069223
NPFC-R	G1/2	G3/8	10	8069224
NPFC-R	G3/4	G1/2	10	8030297
NPFC-R	G1	G1/2	10	8069225
NPFC-R	G1	G3/4	10	8069226

Reducing nipple

female thread/male thread



Type	D1	D2	PU	PN
NPFC-R	M5	G1/8	10	8030314
NPFC-R	G1/8	G1/4	10	8030315
NPFC-R	G1/8	G3/8	10	8030316
NPFC-R	G1/4	G3/8	10	8030317
NPFC-R	G3/8	G1/2	10	8030318

Extension



Type	D1	D2	PU	PN
NPFC-E1	M5	M5	10	8069218
NPFC-E1	G1/8	G1/8	10	8030298
NPFC-E1	G1/4	G1/4	10	8030299
NPFC-E1	G3/8	G3/8	10	8030300
NPFC-E1	G1/2	G1/2	10	8030301
NPFC-E2	G1/8	G1/8	10	8030302
NPFC-E2	G1/4	G1/4	10	8030303
NPFC-E3	G1/8	G1/8	10	8030304
NPFC-E3	G1/4	G1/4	10	8030305
NPFC-E4	G1/8	G1/8	10	8030306

Reducing nipple

male thread/female thread



Type	D1	D2	PU	PN
NPFC-R	M5	M3	10	8069227
NPFC-R	M7	M5	10	8069228
NPFC-R	G1/8	M5	10	8030307
NPFC-R	G1/4	M5	10	8069229
NPFC-R	G1/4	G1/8	10	8030308
NPFC-R	G1/4	G1/8	100	8069230
NPFC-R	G3/8	G1/8	10	8030309
NPFC-R	G3/8	G1/4	10	8030310
NPFC-R	G3/8	G1/4	50	8069231
NPFC-R	G3/4	G1/4	10	8069234
NPFC-R	G3/4	G3/8	10	8069235
NPFC-R	G1/2	G1/4	10	8030311
NPFC-R	G1/2	G1/4	50	8069232
NPFC-R	G1/2	G3/8	10	8030312
NPFC-R	G1/2	G3/8	50	8069233
NPFC-R	G3/4	G1/2	10	8030313
NPFC-R	G3/4	G1/2	50	8069236
NPFC-R	G1	G1/2	10	8069237
NPFC-R	G1	G3/4	10	8069238

Double nipple



Type	D1	D2	PU	PN
NPFC-DM3	M3	10	8069210	
NPFC-DM5	G1/8	10	8069211	
NPFC-DM5	M5	10	8030267	
NPFC-DM7	G1/8	10	8030268	
NPFC-DG1/8	G1/8	10	8030269	
NPFC-DG1/8	G1/8	100	8069212	
NPFC-DG1/8	G1/4	10	8030270	
NPFC-DG1/8	G3/8	10	8030271	
NPFC-DG1/4	G1/4	10	8030272	
NPFC-DG1/4	G1/4	100	8069213	
NPFC-DG1/4	G3/8	10	8030273	
NPFC-DG1/4	G1/2	10	8030274	
NPFC-DG3/8	G3/8	10	8030275	
NPFC-DG3/8	G3/8	50	8069214	
NPFC-DG3/8	G1/2	10	8030276	
NPFC-DG1/2	G1/2	10	8030277	
NPFC-DG1/2	G1/2	50	8069215	
NPFC-DG1/2	G3/4	10	8069216	
NPFC-DG3/4	G3/4	10	8069217	
NPFC-DR1/8	R1/8	10	8030278	
NPFC-DR1/8	R1/4	10	8030279	
NPFC-DR1/8	R3/8	10	8030280	
NPFC-DR1/4	R1/4	10	8030281	
NPFC-DR1/4	R3/8	10	8030282	
NPFC-DR1/4	R1/2	10	8030283	
NPFC-DR3/8	R3/8	10	8030284	
NPFC-DR3/8	R1/2	10	8030285	
NPFC-DR1/2	R1/2	10	8030286	
NPFC-DR1/2	R3/4	10	8030287	
NPFC-DR3/4	R3/4	10	8030288	
NPFC-DR1	R1	10	8030289	

Elbow fitting

female thread



Type	D1	PU	PN
NPFC-L	M5	10	8030208
NPFC-L	G1/8	10	8030209
NPFC-L	G1/4	10	8030210
NPFC-L	G3/8	10	8030211
NPFC-L	G1/2	10	8030212
NPFC-L	G3/4	10	8030213
NPFC-L	G1	10	8030214

Elbow fitting

male thread/female thread



Type	D1	D2	PU	PN
NPFC-L	M5	M5	10	8030215
NPFC-L	G1/8	R1/8	10	8030216
NPFC-L	G1/4	R1/4	10	8030217
NPFC-L	G3/8	R3/8	10	8030218
NPFC-L	G1/2	R1/2	10	8030219
NPFC-L	G3/4	R3/4	10	8030220
NPFC-L	G1	R1	10	8030221

T-fitting

Male thread



Type	D1	PU	PN
NPFC-T	R1/4	10	8030252
NPFC-T	R3/8	10	8030253
NPFC-T	R1/2	10	8030254

Y-fitting

male thread/female thread/
female thread



Type	D1	D2	PU	PN
NPFC-Y	R1/8	G1/8	10	8030231
NPFC-Y	R1/4	G1/4	10	8030232
NPFC-Y	R3/8	G3/8	10	8030233
NPFC-Y	R1/2	G1/2	10	8030234

Elbow fitting

Male thread



Type	D1	PU	PN
NPFC-L	M5	10	8030222
NPFC-L	R1/8	10	8030223
NPFC-L	R1/4	10	8030224
NPFC-L	R3/8	10	8030225
NPFC-L	R1/2	10	8030226
NPFC-L	R3/4	10	8030227

T-fitting

male thread/male thread/
female thread



Type	D1	D2	PU	PN
NPFC-T	R1/8	G1/8	10	8030259
NPFC-T	R1/4	G1/4	10	8030260
NPFC-T	R1/2	G1/2	10	8030261

Y-fitting

female thread



Type	D1	PU	PN
NPFC-Y	G1/4	10	8030228
NPFC-Y	G3/8	10	8030229
NPFC-Y	G1/2	10	8030230

T-fitting

female thread



Type	D1	PU	PN
NPFC-T	G1/8	10	8030235
NPFC-T	G1/4	10	8030236
NPFC-T	G3/8	10	8030237
NPFC-T	G1/2	10	8030238
NPFC-T	G3/4	10	8030239
NPFC-T	G1	10	8030240

T-fitting

male thread/female thread/
female thread



Type	D1	D2	PU	PN
NPFC-T	M5	M5	10	8069244
NPFC-T	R1/8	G1/8	10	8030241
NPFC-T	R1/4	G1/4	10	8030242
NPFC-T	R3/8	G3/8	10	8030243
NPFC-T	R1/2	G1/2	10	8030244

X-fitting

female thread



Type	D1	PU	PN
NPFC-X	G1/4	10	8030262
NPFC-X	G3/8	10	8030263
NPFC-X	G1/2	10	8030264

T-fitting

female thread/male thread/
female thread



Type	D1	D2	PU	PN
NPFC-T	M5	M5	10	8030245
NPFC-T	G1/8	R1/8	10	8030246
NPFC-T	G1/4	R1/4	10	8030247
NPFC-T	G3/8	R3/8	10	8030248
NPFC-T	G1/2	R1/2	10	8030249
NPFC-T	G3/4	R3/4	10	8030250
NPFC-T	G1	R1	10	8030251

T-fitting

female thread/male thread/
male thread



Type	D1	D2	PU	PN
NPFC-T	G1/8	R1/8	10	8030255
NPFC-T	G1/4	R1/4	10	8030256
NPFC-T	G3/8	R3/8	10	8030257
NPFC-T	G1/2	R1/2	10	8030258

X-fitting

male thread/female thread/
female thread/female thread



Type	D1	D2	PU	PN
NPFC-X	G1/4	R1/4	10	8030265
NPFC-X	G1/2	R1/2	10	8030266

Legend

D1 Tubing diameter, external 1
D2 Tubing diameter, external 2
PN Part number
PU Packaging unit

Comment

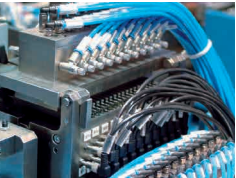
All L and T fittings orientable 360°.

★ Easy and fast to select

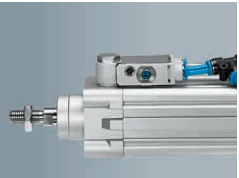
Check valves, one-way flow control valves and flow control valves



Extensive selection



Reliable for all applications



Flow on demand

Check valves, one-way flow control valves and flow control valves



One-way flow control valves



Type	D2	D1	PN
VFOE-LE	4	M5	8068723
(exhaust air)	6	M5	8068724
	4	G1/8	8068725
	6	G1/8	8068726
	8	G1/8	8068727
	6	G1/4	8068728
	8	G1/4	8068729
	10	G1/4	8068730
	8	G3/8	8068731
	10	G3/8	8068732
	12	G1/2	8068733
	4	R1/8	8068734
	6	R1/8	8068735
	8	R1/8	8068736
	6	R1/4	8068737
	8	R1/4	8068738
	10	R1/4	8068739
	8	R3/8	8068740
	10	R3/8	8068741
	12	R1/2	8068742
VFOE-LE	4	M5	8095432*
(exhaust air)	6	G1/8	8095433*
(bulk pack)	8	G1/4	8095434*
	10	G3/8	8095435**
	12	G1/2	8095436**
VFOE-LS	4	M5	8068743
(supply air)	6	M5	8068744
	4	M7	8068745
	6	M7	8068746
	4	G1/8	8068747
	6	G1/8	8068748
	8	G1/8	8068749
	4	R1/8	8068750
	6	R1/8	8068751
	8	R1/8	8068752

* Packaging unit 50
** Packaging unit 20

One-way flow control valves, series D



Type	D2	D1	PN
★ GRLA	M5	3	193137
★ (exhaust air)	M5	4	193138
★	M5	6	193139
★	G1/8	3	193142
★	G1/8	4	193143
★	G1/8	6	193144
★	G1/8	6	537075
★	G1/8	8	193145
★	G1/8	8	537076
★	G1/4	6	193146
★	G1/4	8	193147
★	G1/4	10	193148
★	G3/8	6	193149
★	G3/8	8	193150
★	G3/8	10	193151
★	G1/2	12	193152
★ GRLZ	M5	3	193153
★ (supply air)	M5	4	193154
★	M5	6	193155
★	G1/8	3	193156
★	G1/8	4	193157
★	G1/8	6	193158
★	G1/8	8	193159



Type	D2	D1	PN
★ GRLA	M5	3	197576
★ (exhaust air)	M5	4	197577
★	M5	6	197578
★	G1/8	3	197579
★	G1/8	4	197580
★	G1/8	6	197581
★	G1/8	8	534337
★	G1/4	6	534338
★	G1/4	8	534339
★	G1/4	10	534340
★	G3/8	6	534341
★	G3/8	8	534342
★	G3/8	10	534343
★	G1/2	12	534344

One-way flow control valves, series B



Type	D2	D1	PN
VFOH-LE	G1/8	4	578797
(exhaust air)	G1/8	6	578798
	G1/8	8	578799
	G1/4	8	578800
	G1/4	10	578801

One-way flow control valves, series B



Type	D2	D1	PN
GRLA	M5	M5	151163
(exhaust air)	G1/8	G1/8	151169
	G1/4	G1/4	151175
GRLZ	M5	M5	151186
(supply air)	G1/8	G1/8	151192
	G1/4	G1/4	151198



Type	D2	D1	PN
GRLA	M5	M5	151160
(exhaust air)	G1/8	G1/8	151165
	G1/4	G1/4	151172
	G3/8	G3/8	151178
	G1/2	G1/2	151179
	G3/4	G3/4	151180
GRLZ	M5	M5	151183
(supply air)	G1/8	G1/8	151188
	G1/4	G1/4	151195
GRLO	M5	M5	151181



Type	D2	D1	PN
GRLA-PK	M5	3	151161
(exhaust air)	M5	4	151162
	G1/8	3*	151166
	G1/8	4*	151167
	G1/8	6*	151168
	G1/4	4*	151173
	G1/4	6*	151174

* with union nut

Standard application, series B²⁾



Type	D2	D1	PN
VFOC	Push-in sleeve	4	559723
(supply air)	Push-in sleeve	6	559724



Type	D2	D1	PN
GRLA	G1/8	6	162965
(exhaust air)	G1/8	8	162966
	G1/4	6	162967
	G1/4	8	162968
	G3/8	6	162969
	G3/8	8	162970

One-way flow control valves with scale



Type	D2	D1	PN
GRLSA	G1/8	6	540661
(exhaust air)	G1/4	8	540662

Special application Mini



Type	D2	D1	PN
GRLA	M3	3	175041
GRLZ	M5	3	175043
GRLO	M3	3	175042



Type	D2	D1	PN
GRLA	M3	M3	175038
GRLZ	M3	M3	175040
GRLO	M3	M3	175039

Special application High corrosion resistance



Type	D2	D1	PN
CRGRLA	M5	M5	161403
	G1/8	G1/8	161404
	G1/4	G1/4	161405
	G3/8	G3/8	161406
	G1/2	G1/2	161407

In-line flow control valve with QS push-in fitting



Type	D1	PN
GR	3	193965
(exhaust air/ supply air)	4	193967
	4	193966
	6	193968
	6	193969
	8	193970
GRO	3	193971
(both ends)	4	193972
	5	193973

Standard in-line flow control valve with female thread



Type	D1	PN
GR	M3	15899
(exhaust air/ supply air)	M5	151213
	G1/8	151215
	G3/8	6308
	G1/2	3720
	G3/4	2103
GRA	G1/4	6509

Check valve Pneumatically piloted



Type	D2	D1	PN
★ HGL	M5	M5	530029
★	G1/8	G1/8	530030
★	G1/4	G1/4	530031
★	G3/8	G3/8	530032
★	G1/2	G1/2	530033
★	M5	4	530038
★	G1/8	4	530039
★	G1/8	6	530040
★	G1/4	8	530041
★	G1/4	10	530042
★	G3/8	8	530043
★	G3/8	10	530044
★	G1/2	12	530045

Check valve with additional function pneumatically piloted



Type	D2	D1	PN
VBNF	G1/8	6	8001460
	G1/4	8	1927027

Check valve with 2 additional functions pneumatically piloted



Type	D2	D1	PN
VFOF-LE-BAH	G1/8	6	8001459
(exhaust air)	G1/4	8	1927030

Legend
D1 Tubing diameter, external 1
D2 Tubing diameter, external 2
PN Part number
PU Packaging unit

Comment
All L and T fittings orientable 360°.

★ Easy and fast to select

Technical data for flow control valves

		Plastic		Metal					
Designation		VFOE	GRLA-QS-(RS)-B	GRLA-(RS)-B	GRLA-PK-B	GRLA-QS-(RS)-D	VFOC	GRLA-F-QS-D	CRGRLA
Function	Exhaust air flow control	Yes	Yes	Yes	Yes	Yes	On request	Yes	Yes
	Supply air flow control	Yes	–	Yes	Yes	Yes	Yes	–	–
Actuation	With tool	–	–	Yes	Yes	Yes	Yes	Yes	Yes
	Without tool	Rotary knob with detent	Yes	Yes	–	Yes	–	–	–
Media		Compressed air	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum	Compressed air, vacuum
Operating pressure [MPa]		0,02 ... 1	0,02 ... 1	0,03 ... 1	0,03 ... 1	0,02 ... 1	0,02 ... 1	0,02 ... 1	0,03 ... 1
Operating temperature [°C]		-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60	0 ... +150	-20 ... 80
Mounting position		Any	Any	Any	Any	Any	Any	Any	Any

+++ highly suitable ++ suitable + suitable to a limited extent – unsuitable

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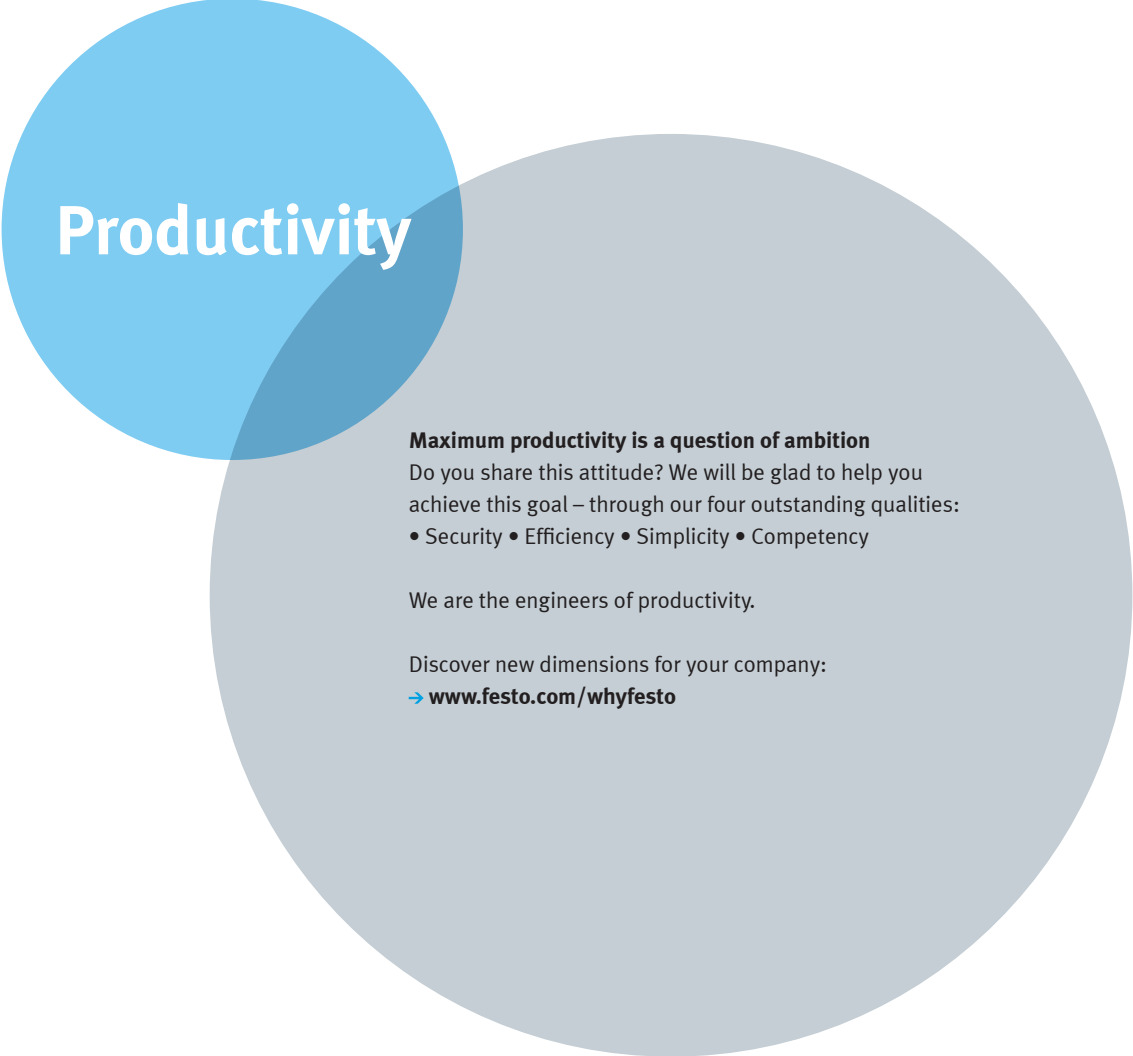
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