

Connected by Rexroth – Pneumatic Connection Technologies



The fast and easy way: tube connections with push-in fittings

Pneumatic connections should be fast and uncomplicated, leak-tight and reliable. This is made possible with the push-in fittings in our QR series. Thanks to the simple, yet brilliant concept with its quick release function, assembly and disassembly have never been so easy.



A reliable connection with quick release

Pneumatic tubing is just as easy to release as it is to securely connect – you just need to plug or unplug it. A captive O-ring lets you release the connection many times with little force.

The perfect connection for a wide variety of applications

Flexibility has top priority with the QR series. This is apparent not only by the numerous shapes, sizes, and equipment variants, but also by the easy reconfiguration of the connections. Even the smallest fittings for tubing with a diameter of only 3 mm are easy to handle.

- ▶ Optimum sealing with a captive O-ring
- ▶ Straight, angled, T/Y/X form, multiple connections
- ▶ Pneumatic connection with cylindrical thread

QR series push-in fittings can be used with tubing diameters from 3 to 16 mm and are available in polymer, metal, stainless steel, and heat-resistant versions. As a result, you can always find the most suitable fittings for specific applications and industries.



- ▲ **QR1 series** – With numerous variants, the “mini” and “standard” polymer fittings offer universal application options. Thanks to their compact design and low weight they are ideal for small handling tasks.
- ◀ **QR2 series** – Because of their robust design, the “standard”, “stainless steel” and “heat-resistant” metal fittings are ideal for the food industry and areas in harsh environments.

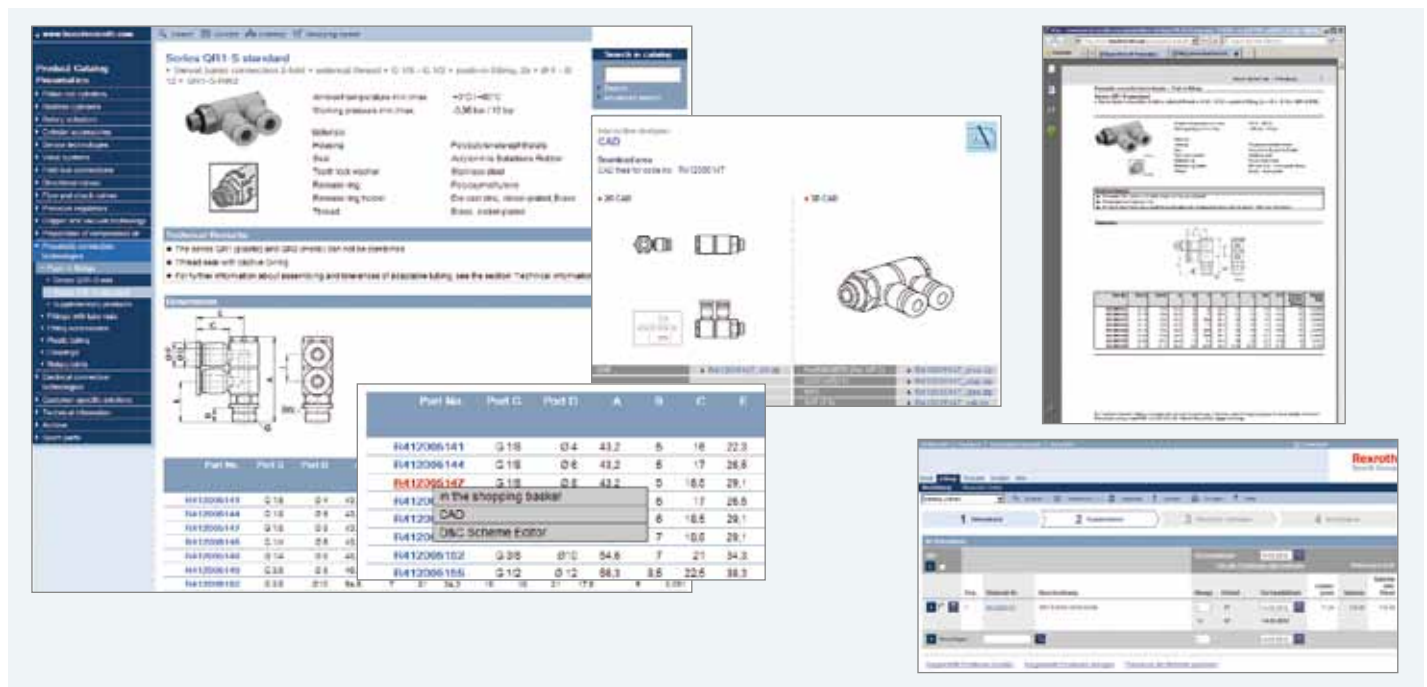


Also stop by our Internet portal

The Rexroth Internet portal is available round the clock and supports you with all process steps – from initial product information through to delivery. With just a couple of clicks, our online catalog provides you with all important technical data, including equipment details and dimensions, and our proven online tools help you to optimize your configuration and product selection. In addition to our online information portfolio, you can also take advantage of personal consulting by our technology and industry experts at any time.



- Product range with all technical details in the online catalog
- eShop with price and supplier information in the shopping basket
- Interactive designer: CAD download section
- D&C Scheme Editor with air consumption calculator



All QR1 and QR2 products at a glance

Advantages of QR1



- 1 | Cylindrical threads
- 2 | Optimum sealing, also after repeated release, through captive O-ring
- 3 | Lightweight design suitable for all Bosch Rexroth products
- 4 | Safe handling with defined pressure points
- 5 | Easy release through oval release ring with a considerably enlarged gripping surface

Advantages of QR2



- 1 | Cylindrical threads/tapered threads
- 2 | Optimum sealing, also after repeated release, through captive O-ring
- 3 | Suitable for elevated temperatures thanks to a corrosion-resistant design (QR2-F and QR2-C)
- 4 | Simple connection and release via metal release ring

02 **Connected by Rexroth Expertise**

04 **Online catalog and online tools**

05 **QR1 and QR2 product range**

06 QR1-S series, mini

08 QR1-S series, standard

12 Check-choke valves

13 QR1 series, flow and check valves

14 QR2-S series, standard

17 QR2-C series, stainless steel

19 QR2-F series, heat-resistant

20 **Compressed air tubing**

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Explanation of content

This overview of our connection technology range is intended to facilitate product selection. It shows both the core and supplementary products with their individual part numbers.

LE = delivery unit

G = thread connection

Ø D = tubing connection diameter

Connections with push-in fittings

QR1-S series mini

M3 – G 1/8 thread

Compressed air tubing Ø 3 – 6 mm

QR1-S-MAN



Straight fitting with hexagon head

G	Ø D	LE	
M3	3	25	R412005116
M3	4	25	R412005117
M5	3	25	R412005118
M5	4	25	R412005119
M5	6	25	R412005120
M6	3	25	R412005121
M6	4	25	R412005122
M6	6	25	R412005123
G 1/8	4	25	R412005124
G 1/8	6	25	R412005125

QR1-S-MIN



Straight fitting with hexagon socket

G	Ø D	LE	
M3	3	25	R412005264
M3	4	25	R412005265
M5	3	25	R412005266
M5	4	25	R412005267
M5	6	25	R412005268
M6	3	25	R412005269
M6	4	25	R412005270
M6	6	25	R412005271
M7	4	25	R412005272
M7	6	25	R412005273
G 1/8	4	25	R412005274
G 1/8	6	25	R412005275

QR1-S-MVT



Elbow fitting

G	Ø D	LE	
M3	3	25	R412005284
M3	4	25	R412005285
M5	3	25	R412005286
M5	4	25	R412005287
M5	6	25	R412005288
M6	3	25	R412005289
M6	4	25	R412005628
M6	6	25	R412005627
M7	4	25	R412005377
M7	6	25	R412005378
G 1/8	4	25	R412005379
G 1/8	6	25	R412005380

QR1-S-MVL



Elbow fitting, long

G	Ø D	LE	
M5	4	25	R412005384
M5	6	25	R412005385
G 1/8	4	25	R412005390
G 1/8	6	25	R412005391

QR1-S-MTT



T-union

G	Ø D	LE	
M5	4	25	R412005395
M5	6	25	R412005396
G 1/8	4	25	R412005400
G 1/8	6	25	R412005401

QR1-S-MLT



Elbow fitting

G	Ø D	LE	
M5	4	25	R412005405
M5	6	25	R412005406
G 1/8	4	25	R412005410
G 1/8	6	25	R412005411

QR1-S-MSK



Straight plug connector

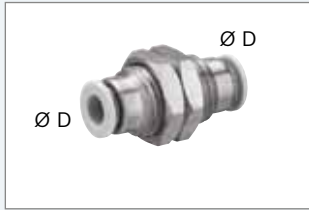
	Ø D	LE	
	3	25	R412005412
	4	25	R412005413
	6	25	R412005414

QR1-S-MSR



Straight plug connector, reducing

	Ø D1	Ø D2	LE	
	4	3	25	R412005415
	6	4	25	R412005416

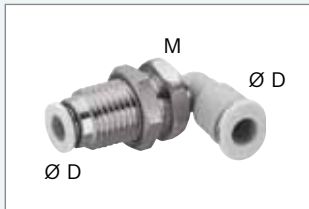
QR1-S-MSM

Bulkhead plug connector, metal

Ø D	LE	
4	25	R412005418
6	25	R412005419

QR1-S-MVK

Angled plug connector

Ø D	LE	
3	25	R412005423
4	25	R412005424
6	25	R412005425

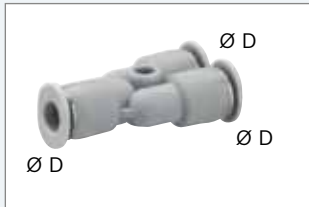
QR1-S-MVS

Angled bulkhead connector

Ø D	M	LE	
4	M8 x 0,75	25	R412005421
6	M8 x 0,75	25	R412005422

QR1-S-MTK

T-plug connector

Ø D	LE	
3	25	R412005426
4	25	R412005427
6	25	R412005428

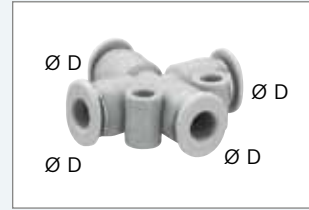
QR1-S-MYK

Y-plug connector

Ø D	LE	
3	25	R412005429
4	25	R412005430
6	25	R412005431

QR1-S-MYR

Y-plug connector, reducing

Ø D1	Ø D2	LE	
4	3	25	R412005432
6	4	25	R412005433

QR1-S-MXS

X-plug connector

Ø D	LE	
4	25	R412005435
6	25	R412005436

QR1-S-MED

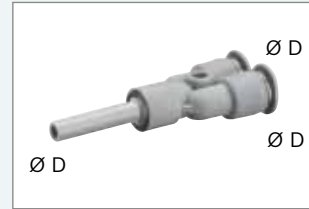
Straight push-in fitting, reducing

Ø D1	Ø D2	LE	
4	3	25	R412005437
6	4	25	R412005438

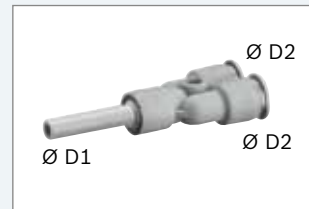
QR1-S-MVA

Angled plug-in connector

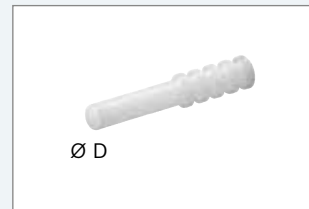
Ø D	LE	
3	25	R412005439
4	25	R412005440
6	25	R412005441

QR1-S-MYZ

Y-push-in fitting

Ø D	LE	
4	25	R412005443
6	25	R412005444

QR1-S-M2R

Y-push-in fitting, reducing

Ø D1	Ø D2	LE	
4	3	25	R412005445
6	4	25	R412005446

QR1-S-MBS

Blanking plug

Ø D	LE	
3	25	R412005447

Connections with push-in fittings

QR1-S series standard

M5 – G 1/2 thread

Compressed air tubing Ø 4 – 16 mm

QR1-S-RPN



Straight fitting

G	Ø D	LE	
M5	4	10	2121004050
M5	6	10	2121006050
G 1/8	4	10	2121004180
G 1/8	6	10	2121006180
G 1/8	8	10	2121008180
G 1/8	10	10	R412005002
G 1/8	12	10	R412005003
G 1/4	4	10	2121004140
G 1/4	6	10	2121006140
G 1/4	8	10	2121008140
G 1/4	10	10	2121010140
G 1/4	12	10	2121012140
G 3/8	6	10	R412005000
G 3/8	8	10	2121008380
G 3/8	10	10	2121010380
G 3/8	12	10	2121012380
G 3/8	14	10	2121014380
G 3/8	16	10	R412005005
G 1/2	8	10	R412005001
G 1/2	10	10	2121010120
G 1/2	12	10	2121012120
G 1/2	14	10	2121014120
G 1/2	16	10	R412005006

QR1-S-RAI



Straight female stud fitting

G	Ø D	LE	
G 1/8	4	10	2121904180
G 1/8	6	10	2121906180
G 1/8	8	10	2121908180
G 1/4	4	10	R412005085
G 1/4	6	10	2121906140
G 1/4	8	10	2121908140
G 1/4	10	10	R412005089
G 1/4	12	10	R412005091
G 3/8	6	10	R412005086
G 3/8	8	10	R412005087
G 3/8	10	10	2121910380
G 3/8	12	10	2121912380
G 1/2	10	10	R412005090
G 1/2	12	10	2121912120

QR1-S-RSI



Bulkhead connector

G	Ø D	M	LE	
G 1/8	4	12	10	2122604180
G 1/8	6	14	10	2122606180
G 1/8	8	16	10	R412005232
G 1/4	6	14	10	2122606140
G 1/4	8	16	10	2122608140
G 1/4	10	20	10	R412005233
G 3/8	8	16	10	R412005231
G 3/8	10	20	10	2122610380
G 3/8	12	22	10	R412005235
G 1/2	12	22	10	2122612120

QR1-S-RVT



Elbow fitting

G	Ø D	LE	
M5	4	10	2122004050
M5	6	10	2122006050
G 1/8	4	10	2122004180
G 1/8	6	10	2122006180
G 1/8	8	10	2122008180
G 1/8	10	10	R412005094
G 1/8	12	10	R412005095
G 1/4	4	10	2122004140
G 1/4	6	10	2122006140
G 1/4	8	10	2122008140
G 1/4	10	10	2122010140
G 1/4	12	10	2122012140
G 3/8	6	10	R412005092
G 3/8	8	10	2122008380
G 3/8	10	10	2122010380
G 3/8	12	10	2122012380
G 3/8	14	5	2122014380
G 3/8	16	5	R412005097
G 1/2	8	10	R412005093
G 1/2	10	10	2122010120
G 1/2	12	10	2122012120
G 1/2	14	5	2122014120
G 1/2	16	5	R412005098

QR1-S-RVL**Elbow fitting, long**

G	Ø D	LE	
M5	4	10	2122104050
M5	6	10	R412005099
G 1/8	4	10	2122104180
G 1/8	6	10	2122106180
G 1/8	8	10	2122108180
G 1/4	4	10	2122104140
G 1/4	6	10	2122106140
G 1/4	8	10	2122108140
G 1/4	10	10	2122110140
G 1/4	12	10	R412005103
G 3/8	8	10	2122108380
G 3/8	10	10	2122110380
G 3/8	12	10	R412005104
G 1/2	12	10	R412005105

QR1-S-RVI**Elbow screw fitting**

G	Ø D	LE	
G 1/8	4	10	R412005129
G 1/8	6	10	R412005130
G 1/8	8	10	R412005131
G 1/4	4	10	R412005132
G 1/4	6	10	R412005133
G 1/4	8	10	R412005134
G 1/4	10	10	R412005135

QR1-S-RW1**Swivel banjo connection, 1x**

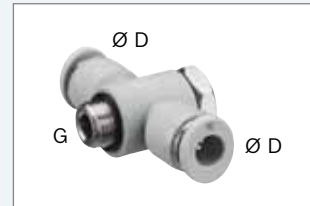
G	Ø D	LE	
M5	4	10	R412005236
M5	6	10	R412005238
G 1/8	4	10	R412005237
G 1/8	6	10	R412005239
G 1/8	8	10	R412005240
G 1/4	6	10	R412005241
G 1/4	8	10	R412005242
G 1/4	10	10	R412005243
G 3/8	8	5	R412005244
G 3/8	10	5	R412005245
G 3/8	12	5	R412005246

QR1-S-RW2**Swivel banjo connection, 2x**

G	Ø D	LE	
G 1/8	4	10	R412005141
G 1/8	6	10	R412005144
G 1/8	8	10	R412005147
G 1/4	6	10	R412005145
G 1/4	8	10	R412005148
G 3/8	8	10	R412005149
G 3/8	10	5	R412005152
G 1/2	12	5	R412005155

QR1-S-RTT**T-union**

G	Ø D	LE	
M5	4	10	2122204050
M5	6	10	R412005201
G 1/8	4	10	2122204180
G 1/8	6	10	2122206180
G 1/8	8	10	2122208180
G 1/8	10	10	R412005205
G 1/4	4	10	2122204140
G 1/4	6	10	2122206140
G 1/4	8	10	2122208140
G 1/4	10	10	2122210140
G 1/4	12	10	R412005206
G 3/8	6	10	R412005203
G 3/8	8	10	2122208380
G 3/8	10	10	2122210380
G 3/8	12	10	2122212380
G 3/8	14	10	2122214380
G 1/2	10	10	2122210120
G 1/2	12	5	2122212120
G 1/2	14	5	2122214120

QR1-S-RTS**T-banjo connection**

G	Ø D	LE	
G 1/8	6	10	R412005292
G 1/8	8	10	R412005293
G 1/4	6	10	R412005294
G 1/4	8	10	R412005295

QR1-S-RLT**Elbow fitting**

G	Ø D	LE	
M5	4	10	2122304050
M5	6	10	R412005212
G 1/8	4	10	2122304180
G 1/8	6	10	2122306180
G 1/8	8	10	R412005214
G 1/4	4	10	R412005211
G 1/4	6	10	2122306140
G 1/4	8	10	2122308140
G 1/4	10	10	R412005215
G 1/4	12	5	R412005216
G 3/8	8	10	2122308380
G 3/8	10	10	2122310380
G 3/8	12	5	2122312380
G 1/2	10	10	2122310120
G 1/2	12	5	2122312120

QR1-S-RAY**Y-fitting**

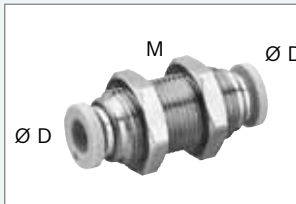
G	Ø D	LE	
G 1/8	4	10	2122404180
G 1/8	6	10	2122406180
G 1/8	8	10	2122408180
G 1/4	4	10	2122404140
G 1/4	6	10	2122406140
G 1/4	8	10	2122408140
G 1/4	10	10	2122410140
G 3/8	8	10	R412005221
G 3/8	10	10	2122410380
G 3/8	12	10	2122412380
G 1/2	10	10	2122410120
G 1/2	12	10	2122412120

QR1-S-RSK**Straight plug connector**

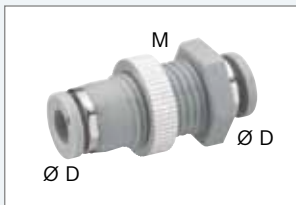
Ø D	LE	
4	10	2121504000
6	10	2121506000
8	10	2121508000
10	10	2121510000
12	10	2121512000
14	5	2121514000
16	5	R412005059

QR1-S-RSR**Straight plug connector, reducing**

Ø D1	Ø D2	LE	
6	4	10	R412005060
8	4	10	R412005061
8	6	10	R412005062
10	6	10	R412005063
10	8	10	R412005064
12	8	10	R412005065
12	10	10	R412005066
16	12	5	R412005067

QR1-S-RSM**Bulkhead plug connector, metal**

Ø D	M	LE	
4	M12 x 1.0	10	2121404000
6	M14 x 1.0	10	2121406000
8	M16 x 1.0	10	2121408000
10	M20 x 1.0	10	2121410000
12	M22 x 1.0	10	2121412000

QR1-S-RSC**Bulkhead plug connector, plastic**

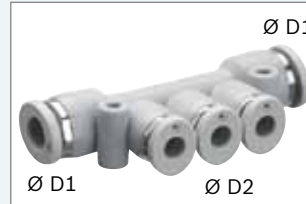
Ø D	M	LE	
4	M12 x 1.5	10	R412005051
6	M14 x 1.5	10	R412005052
8	M16 x 1.5	10	R412005053
10	M20 x 2.0	10	R412005054
12	M24 x 2.0	10	R412005055

QR1-S-RVK**Angled plug connector**

Ø D	LE	
4	10	2121204000
6	10	2121206000
8	10	2121208000
10	10	2121210000
12	10	2121212000
14	5	2121214000
16	5	R412005033

QR1-S-RVS**Angled bulkhead connector**

M	Ø D	LE	
M12 x 1.5	4	10	R412005056
M14 x 1.5	6	10	R412005057
M16 x 1.5	8	10	R412005375
M20 x 1.5	10	10	R412005376

QR1-S-RMT**Plug connector, reducing, 3x**

Ø D1	Ø D2	LE	
6	4	10	R412005346
8	4	10	R412005347
8	6	10	R412005348
10	6	10	R412005349
10	8	10	R412005350

QR1-S-RTK**T-plug connector**

Ø D	LE	
4	10	2121104000
6	10	2121106000
8	10	2121108000
10	10	2121110000
12	10	2121112000
14	5	2121114000
16	5	R412005025

QR1-S-RTR**T-plug connector, reducing**

Ø D1	Ø D2	LE	
6	4	10	R412005026
8	4	10	R412005027
8	6	10	R412005028
10	6	10	R412005029
10	8	10	R412005030
12	8	10	R412005031
12	10	10	R412005032

QR1-S-RYK**Y-plug connector**

Ø D	LE	
4	10	2121804000
6	10	2121806000
8	10	2121808000
10	10	2121810000
12	10	2121812000

QR1-S-RYR**Y-plug connector, reducing**

Ø D1	Ø D2	LE	
6	4	10	2121806040
8	4	10	R412005081
8	6	10	2121808060
10	8	10	2121810080
10	6	10	R412005082
12	10	10	R412005080
12	8	10	R412005083

QR1-S-RYD**Y-plug connector, reducing, 2x**

Ø D1	Ø D2	LE	
6	4	10	R412005344
8	6	10	R412005345

QR1-S-RXS**X-plug connector**

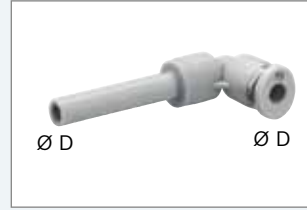
Ø D	LE	
4	10	R412005361
6	10	R412005362
8	10	R412005363
10	10	R412005364

QR1-S-RED**Straight push-in fitting, reducing**

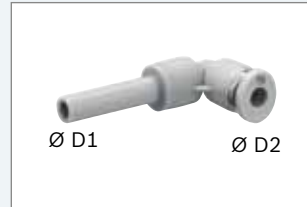
Ø D1	Ø D2	LE	
6	4	10	2121706040
8	4	10	2121708040
8	6	10	2121708060
10	4	10	2121710040
10	6	10	2121710060
10	8	10	2121710080
12	6	10	2121712060
12	8	10	2121712080
12	10	10	2121712100
14	8	5	2121714080
14	10	5	2121714100
14	12	5	2121714120

QR1-S-RVA**Angled plug-in connector**

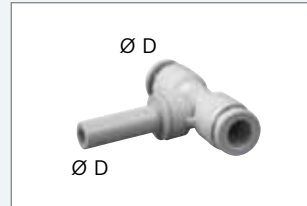
Ø D	LE	
4	10	2121304040
6	10	2121306060
8	10	2121308080
10	10	2121310100
12	10	R412005036

QR1-S-RLL**Angled plug-in connector, long**

Ø D	LE	
4	10	R412005039
6	10	R412005040
8	10	R412005041
10	10	R412005042
12	10	R412005043

QR1-S-RVR**Angled plug-in connector, reducing**

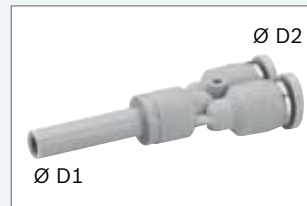
Ø D1	Ø D2	LE	
6	4	10	2121304060
8	6	10	2121306080
10	8	10	R412005034

QR1-S-RTC**T-push-in fitting**

Ø D	LE	
4	10	2122706000
8	10	2122708000
12	10	R412010596

QR1-S-RY2**Y-push-in fitting**

Ø D	LE	
4	10	R412005332
6	10	R412005333
8	10	R412005334
10	10	R412005335
12	10	R412005336

QR1-S-R2R**Y-push-in fitting, reducing**

Ø D1	Ø D2	LE	
6	4	10	R412005337
8	6	10	R412005338
10	8	10	R412005339
12	10	10	R412005340

QR1-S-RY4**Y-push-in fitting, reducing, 2x**

Ø D1	Ø D2	LE	
6	4	10	R412005341
8	4	10	R412005342

Check-choke valves with push-in fitting CC04 series

M5 – G 1/2 thread

Compressed air tubing Ø 4 – 12 mm

CC04



Check-choke valve, exhaust

G	Ø D	LE	
M5	4	1	R412010564
M5	6	1	R412010565
G 1/8	4	1	R412010568
G 1/8	6	1	R412010569
G 1/8	8	1	R412010570
G 1/4	6	1	R412010571
G 1/4	8	1	R412010572
G 1/4	10	1	R412010573
G 3/8	8	1	R412010574
G 3/8	10	1	R412010575
G 3/8	12	1	R412010576
G 1/2	10	1	R412010577
G 1/2	12	1	R412010578

CC04



Check-choke valve, supply

G	Ø D	LE	
M5	4	1	R412010581
M5	6	1	R412010582
G 1/8	4	1	R412010585
G 1/8	6	1	R412010586
G 1/8	8	1	R412010587
G 1/4	6	1	R412010588
G 1/4	8	1	R412010589
G 1/4	10	1	R412010590
G 3/8	8	1	R412010591
G 3/8	10	1	R412010592
G 3/8	12	1	R412010593
G 1/2	10	1	R412010594
G 1/2	12	1	R412010595

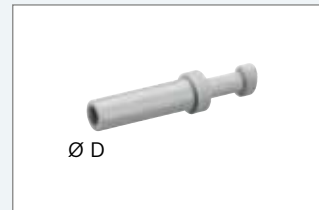
QR1-S-RCA



Sealing cap

Ø D	LE	
4	20	R412005111
6	20	R412005112
8	20	R412005113
10	20	R412005114
12	20	R412005115

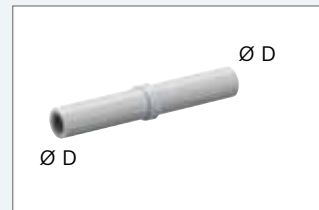
QR1-S-RBS



Blanking plug

Ø D	LE	
4	20	2123204000
6	20	2123206000
8	20	2123208000
10	20	2123210000
12	20	2123212000
14	10	2123214000
16	10	R412005331

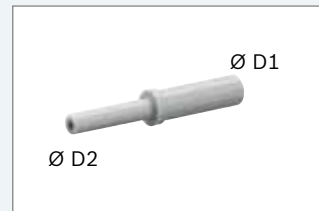
QR1-S-RDS



Connection piece

Ø D	LE	
4	20	2123104000
6	20	2123106000
8	20	2123108000
10	20	2123110000
12	20	2123112000

QR1-S-RDR



Connection piece, reducing

Ø D1	Ø D2	LE	
6	4	10	R412005323
8	4	10	R412005324
8	6	10	R412005325
10	6	10	R412005326
10	8	10	R412005327
12	8	10	R412005328
12	10	10	R412005329

Flow and check valves with push-in fitting QR1 series

G 1/8 and G 1/4 thread

Compressed air tubing Ø 4 – 12 mm

QR1-S-ANR



Straight non-return valve with push-in fitting

G	Ø D	LE	
G 1/8	4	5	R412005565
G 1/8	6	5	R412005566
G 1/4	6	5	R412005568
G 1/4	8	5	R412005569

QR1-S-AAN



Straight fitting, self-locking

G	Ø D	LE	
G 1/8	4	10	R412005526
G 1/8	6	10	R412005527
G 1/4	6	10	R412005528
G 1/4	8	10	R412005529

QR1-S-SKR



Plug connector with non-return valve

Ø D	LE	
4	5	R412005573
6	5	R412005574
8	5	R412005575
10	2	R412005576
12	2	R412005577

QR1-S-ASK



Plug connector, self-locking

Ø D	LE	
4	10	R412005547
6	10	R412005548
8	10	R412005549
10	10	R412005550

QR1-S-AGS



3/2-way stop valve, thread/push-in fitting

G	Ø D	LE	
G 1/8	6	5	R412005470
G 1/8	8	5	R412005471
G 1/4	6	5	R412005472
G 1/4	8	5	R412005473

QR1-S-ASG



3/2-way stop valve, push-in fitting/thread

G	Ø D	LE	
G 1/8	6	5	R412005459
G 1/8	8	5	R412005460
G 1/4	6	5	R412005461
G 1/4	8	5	R412005462

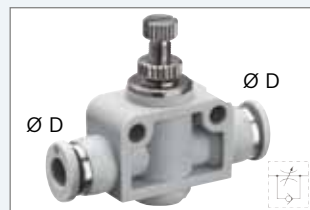
QR1-S-ASC



3/2-way stop valve, push-in fitting

Ø D	LE	
6	5	R412005482
8	5	R412005483
10	5	R412005484
12	5	R412005485

QR1-S-DBS



Check-choke valve, block shape

Ø D	LE	
4	5	R412005454
6	5	R412005455
8	5	R412005456
10	2	R412005457
12	2	R412005458

QR1-S-BSK



Ball valve, push-in fitting

Ø D	LE	
6	5	R412005502
8	5	R412005503
10	5	R412005504
12	5	R412005505

Connections with push-in fittings, metal

QR2-S series standard

M5 – G 1/2 thread

Compressed air tubing Ø 4 – 16 mm

QR2-S-RPN**Straight fitting**

G	Ø D	LE	
M5	4	25	1823373038
M5	6	25	1823373040
M7	4	25	1823373100
M7	6	25	1823373088
G 1/8	4	25	1823373041
G 1/8	6	25	1823373043
G 1/8	8	10	1823373044
G 1/4	4	25	1823373045
G 1/4	6	25	1823373047
G 1/4	8	10	1823373048
G 1/4	10	10	1823373049
G 1/4	12	10	1823391809
G 3/8	8	10	1823373050
G 3/8	10	10	1823373051
G 3/8	12	5	1823373052
G 3/8	14	5	1823373053
G 1/2	12	5	1823373054
G 1/2	14	5	1823373055
G 1/2	16	1	R412007955

QR2-S-RAI**Straight female stud fitting**

G	Ø D	LE	
G 1/8	4	10	1823391643
G 1/8	6	10	1823391645
G 1/8	8	10	1823391646
G 1/4	4	10	1823391647
G 1/4	5	10	1823391648
G 1/4	6	10	1823391649
G 1/4	8	10	1823391650

QR2-S-RSI**Bulkhead connector**

G	Ø D	LE	
G 1/8	4	10	1823391757
G 1/8	6	10	1823391758
G 1/8	8	10	1823391760
G 1/4	6	10	1823391759
G 1/4	8	10	1823391761

QR2-S-RAS**Push-in connector**

G	Ø D	LE	
M5	4	25	1823373056
M5	6	25	1823373057
M7	4	10	1823373101
M7	6	10	1823373102
G 1/8	4	25	1823373059
G 1/8	6	25	1823373061
G 1/8	8	25	1823373062
G 1/4	4	25	1823373063
G 1/4	6	25	1823373065
G 1/4	8	25	1823373066
G 1/4	10	10	1823373067
G 1/4	12	10	1823391810
G 3/8	8	10	1823373068
G 3/8	10	10	1823373069
G 3/8	12	5	1823373070
G 3/8	14	5	1823373071
G 1/2	12	5	1823373072
G 1/2	14	5	1823373073

QR2-S-RAL**Push-in connector, long**

G	Ø D	LE	
M7	4	10	1823391887
M7	6	10	1823391888
G 1/8	4	10	1823373074
G 1/8	6	10	1823373075
G 1/8	8	10	1823373076
G 1/4	6	10	1823373077
G 1/4	8	10	1823373078
G 1/4	10	10	1823373079

QR2-S-RVT**Elbow fitting**

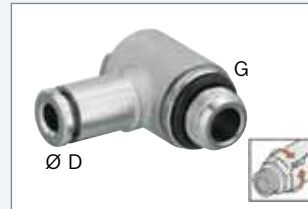
G	Ø D	LE	
M5	4	10	1823391709
M5	6	10	1823391889
M7	4	10	1823391885
M7	6	10	1823391886
G 1/8	4	10	1823391710
G 1/8	6	10	1823391711
G 1/8	8	10	1823391712
G 1/8	10	10	R412007687
G 1/4	4	10	1823391713
G 1/4	6	10	1823391714
G 1/4	8	10	1823391715
G 1/4	10	10	1823391718
G 1/4	12	5	1823391843
G 3/8	8	5	1823391716
G 3/8	10	5	1823391717
G 3/8	12	5	1823391838
G 3/8	14	5	1823391839
G 1/2	10	5	R412007589
G 1/2	12	5	1823391840
G 1/2	14	5	1823391841
G 1/2	16	5	R412007956

QR2-S-RVL**Elbow fitting, long**

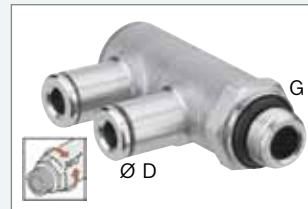
G	Ø D	LE	
G 1/8	4	10	R412010270
G 1/8	6	10	R412010271
G 1/8	8	10	R412010272
G 1/4	6	10	R412010273
G 1/4	8	10	R412010274

QR2-S-RW1**Swivel banjo connection, 1x**

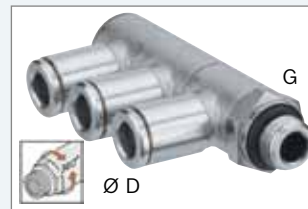
G	Ø D	LE	
M5	4	10	1823391549
M5	6	10	1823391905
G 1/8	4	10	1823391551
G 1/8	6	10	1823391553
G 1/8	8	10	1823391554
G 1/4	6	10	1823391556
G 1/4	8	10	1823391557
G 1/4	10	5	1823391558
G 3/8	8	5	1823391559
G 3/8	10	5	1823391560
G 3/8	12	5	1823391561

QR2-S-RI1**Swivel banjo connection, 1x, hexagon socket**

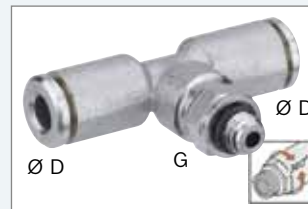
G	Ø D	LE	
M5	4	10	1823391652
G 1/8	4	10	1823391654
G 1/8	6	10	1823391656
G 1/8	8	10	1823391657
G 1/4	6	10	1823391658
G 1/4	8	10	1823391659
G 1/4	10	10	1823391660
G 1/4	12	10	1823391927
G 3/8	8	5	1823391897
G 3/8	10	5	1823391898
G 3/8	12	5	1823391899

QR2-S-RI2**Swivel banjo connection, 2x**

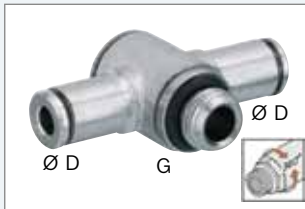
G	Ø D	LE	
G 1/8	4	10	1823391913
G 1/8	6	10	1823391914
G 1/8	8	10	1823391915
G 1/4	6	10	1823391916
G 1/4	8	10	1823391917
G 1/4	10	10	1823391918
G 1/4	12	10	1823391919

QR2-S-RI3**Swivel banjo connection, 3x**

G	Ø D	LE	
G 1/8	4	10	1823391920
G 1/8	6	10	1823391921
G 1/8	8	10	1823391922
G 1/4	6	10	1823391923
G 1/4	8	10	1823391924
G 1/4	10	10	1823391925
G 1/4	12	10	1823391926

QR2-S-RTT**T-union**

G	Ø D	LE	
M5	4	1	1823391812
G 1/8	4	1	1823391813
G 1/8	6	1	1823391814
G 1/8	8	1	1823391815
G 1/4	4	1	1823391816
G 1/4	6	1	1823391817
G 1/4	8	1	1823391818
G 1/4	10	1	1823391819
G 1/4	12	1	1823391823
G 3/8	8	1	1823391820
G 3/8	10	1	1823391821
G 3/8	12	1	1823391822
G 1/2	14	1	1823391824

QR2-S-RTI**T-banjo connection,
hexagon socket**

G	Ø D	LE	
M5	4	10	1823391661
G 1/8	4	10	1823391663
G 1/8	6	10	1823391665
G 1/8	8	10	1823391666
G 1/4	6	10	1823391667
G 1/4	8	10	1823391668
G 1/4	10	10	1823391669
G 1/4	10	10	1823391660
G 3/8	8	2	1823391900
G 3/8	10	2	1823391901
G 3/8	12	2	1823391902

QR2-S-RTS**T-banjo connection**

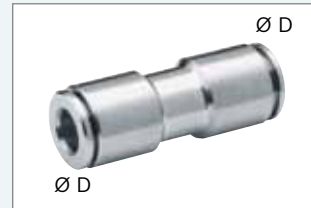
G	Ø D	LE	
M5	4	10	1823391562
G 1/8	4	10	1823391564
G 1/8	6	10	1823391566
G 1/8	8	10	1823391567
G 1/4	6	10	1823391568
G 1/4	8	10	1823391569
G 1/4	10	5	1823391570
G 3/8	8	5	1823391571
G 3/8	10	5	1823391572
G 3/8	12	5	1823391573

QR2-S-RLT**Elbow fitting**

G	Ø D	LE	
M5	4	25	1823391825
G 1/8	4	25	1823391826
G 1/8	6	25	1823391827
G 1/8	8	25	1823391828
G 1/4	4	25	1823391829
G 1/4	6	25	1823391830
G 1/4	8	10	1823391831
G 1/4	10	10	1823391832
G 1/4	12	10	1823391836
G 3/8	8	10	1823391833
G 3/8	10	10	1823391834
G 3/8	12	5	1823391835
G 1/2	14	5	1823391837

QR2-S-RSM**Bulkhead plug connector**

G	Ø D	LE	
4	M10x1	10	1823391636
6	M14x1	10	1823391638
8	M16x1	10	1823391639
10	M17x1	10	1823391640
12	M20x1	5	1823391641
14	M22x1	5	1823391642

QR2-S-RSK**Straight plug connector**

G	Ø D	LE	
4	M10x1	10	1823386077
6	M14x1	10	1823386079
8	M16x1	10	1823386080
10	M17x1	10	1823386081
12	M20x1	5	1823386082
14	M22x1	5	1823386083

QR2-S-RVK**Angled plug connector**

G	Ø D	LE	
4	M10x1	10	1823380012
6	M14x1	10	1823380014
8	M16x1	10	1823380015
10	M17x1	10	1823380016
12	M20x1	5	1823380017
14	M22x1	5	1823380018

QR2-S-RTK**T-plug connector**

G	Ø D	LE	
4	M10x1	10	1823381043
6	M14x1	10	1823381045
8	M16x1	10	1823381046
10	M17x1	10	1823381047
12	M20x1	5	1823381048
14	M22x1	5	1823381049

QR2-S-REE**Straight push-in fitting,
increasing**

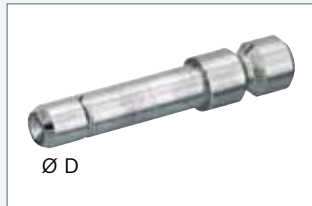
Ø D1	Ø D2	LE	
4	6	10	1823391628
6	8	10	1823391890

QR2-S-RED**Straight push-in fitting,
reducing**

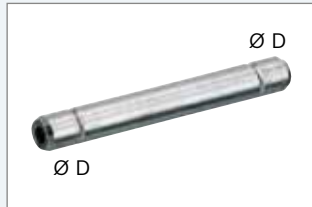
Ø D1	Ø D2	LE	
6	4	10	1823391615
8	4	10	1823391617
8	6	10	1823391619
10	6	10	1823391620
10	8	10	1823391621
12	4	10	1823391622
12	6	10	1823391623
12	8	10	1823391624
12	10	5	1823391903
14	4	5	1823391625
14	6	5	1823391626
14	8	5	1823391627
14	10	10	1823391842
14	12	10	1823391811

QR2-S-RVA**Angled plug connector**

Ø D	LE	
4	10	R412004851
6	10	R412004852
8	10	1823391942
10	10	1823391943
12	10	1823391944
14	10	R412010739

QR2-S-RBS**Blanking plug**

Ø D	LE	
4	25	1823391607
6	25	1823391609
8	25	1823391610
10	25	1823391611
12	25	1823391612
14	25	1823391613

QR2-S-RDS**Connection piece**

Ø D	LE	
4	25	1823391629
6	25	1823391631
8	25	1823391632
10	25	1823391633
12	10	1823391634
14	10	1823391635
16	10	R412010191

Connections with push-in fittings QR2-C series stainless steel

M5 – G 1/2 thread

Compressed air tubing Ø 4 – 12 mm

QR2-C-RPN**Straight fitting**

G	Ø D	LE	
M5	4	2	2544004050
G 1/8	4	2	R412004890
G 1/8	6	2	R412004891
G 1/8	8	2	R412004892
G 1/4	6	2	R412004893
G 1/4	8	2	R412004894
G 1/4	10	2	R412004895
G 3/8	10	2	R412004896
G 3/8	12	2	R412004897

QR2-C-RVT**Elbow fitting**

G	Ø D	LE	
M5	4	2	R412005617
G 1/8	4	2	R412004898
G 1/8	6	2	R412004899
G 1/8	8	2	R412004900
G 1/4	6	2	R412004901
G 1/4	8	2	R412005616
G 3/8	10	1	R412004902
G 3/8	10	1	R412004903

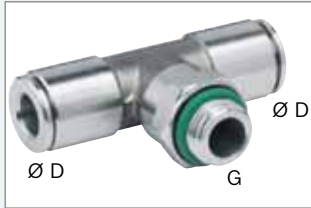
QR2-C-RH1**Banjo bolt, 1x, with 2 sealing rings**

G	LE	
G 1/8	2	R412004978
G 1/4	2	R412004979

QR2-C-RV1**Banjo union, 1x, without sealing ring**

G	Ø D	LE	
G 1/8	4	2	R412004973
G 1/8	6	2	R412004974
G 1/8	9	2	R412004975
G 1/4	6	2	R412004976
G 1/4	8	2	R412004977



QR2-C-RTT**T-union**

G	Ø D	LE	
M5	4	2	R412004889
G 1/8	4	2	R412004904
G 1/8	6	2	R412004905
G 1/8	8	2	R412004906
G 1/4	6	2	R412004907
G 1/4	8	2	R412004908

QR2-C-RSK**Straight plug connector**

Ø D	LE	
4	2	R412004982
6	2	R412004983
8	2	R412004984
10	2	R412004985
12	2	R412004986

QR2-C-RSM**Bulkhead plug connector**

G	Ø D	LE	
M12x1	4	2	2544404000
M14x1	6	2	2544406000
M16x1	8	2	2544408000
M18x1	10	2	2544410000
M20x1	12	2	2544412000

QR2-C-RSG**Bulkhead connector**

G	LE	
G 1/8	2	R412004961
G 1/4	2	R412004962
G 3/8	2	R412004963
G 1/2	1	R415009442

QR2-C-RVK**Angled plug connector**

Ø D	LE	
4	2	2544204000
6	2	2544206000
8	2	2544208000
10	2	2544210000
12	2	2544212000

QR2-C-RTK**T-plug connector**

Ø D	LE	
4	2	2544304000
6	2	2544306000
8	2	2544308000
10	2	2544310000
12	2	2544312000

QR2-C-RED**Straight push-in fitting, reducing**

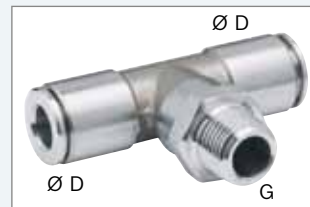
Ø D1	Ø D2	LE	
6	4	2	2544506040
8	6	2	2544508060
10	8	2	2544510080

QR2-C-RPN**Straight fitting, tapered**

G	Ø D	LE	
R 1/8	4	2	2544004180
R 1/8	6	2	2544006180
R 1/8	8	2	2544008180
R 1/4	4	2	2544004140
R 1/4	6	2	2544006140
R 1/4	8	2	2544008140
R 1/4	10	2	2544010140
R 3/8	10	1	2544010380
R 3/8	12	1	2544012380
R 1/2	12	1	2544012120

QR2-C-RVT**Elbow fitting, tapered**

G	Ø D	LE	
R 1/8	4	2	2544104180
R 1/8	6	2	2544106180
R 1/8	8	2	2544108180
R 1/4	6	2	2544106140
R 1/4	8	2	2544108140
R 1/4	10	2	2544110140
R 3/8	10	1	2544110380
R 3/8	12	1	2544112380
R 1/2	12	1	2544112120

QR2-C-RTT**T-union, tapered**

G	Ø D	LE	
R 1/8	4	2	412004968
R 1/8	6	2	R412004969
R 1/8	8	2	R412004970
R 1/4	6	2	R412004971
R 1/4	8	2	R412004972
R 1/4	10	2	R412004909
R 3/8	10	1	R412004910

Fittings

QR2-F series

Heat-resistant

M5 – G 1/2 thread

Compressed air tubing Ø 4 – 12 mm

QR2-F-RPN



Straight fitting, heat-resistant

G	Ø D	LE	
M5	4	25	1823373089
M5	6	10	1823373090
G 1/8	4	25	1823373091
G 1/8	6	25	1823373092
G 1/8	8	25	1823373093
G 1/4	4	25	1823373094
G 1/4	6	10	1823373095
G 1/4	8	10	1823373096
G 1/4	10	10	1823373097
G 1/4	12	10	R412007625
G 3/8	8	10	1823373098
G 3/8	10	10	1823373099
G 1/2	12	10	R412007730

QR2-F-RAI



Straight female stud fitting, heat-resistant

G	Ø D	LE	
G 1/8	4	10	1823391857
G 1/8	6	10	1823391858
G 1/8	8	10	1823391859
G 1/4	6	10	1823391860
G 1/4	8	10	1823391861

QR2-F-RVT



Elbow fitting, heat-resistant

G	Ø D	LE	
M5	4	10	1823391870
M5	6	10	R412007681
G 1/8	4	10	1823391871
G 1/8	6	10	1823391872
G 1/8	8	10	1823391873
G 1/4	6	10	1823391874
G 1/4	8	10	1823391875
G 1/4	10	10	1823391876
G 1/4	12	5	R412007624
G 3/8	8	5	1823391877
G 3/8	10	5	1823391878
G 3/8	12	5	R412007623
G 1/2	12	5	R412007731

QR2-F-RSM



Bulkhead plug connector, heat-resistant

Ø D	LE	
6	10	R412007629
8	10	R412007628
10	10	R412007627
12	5	R412007626

QR2-F-RSK



Straight plug connector, heat-resistant

Ø D	LE	
4	10	1823386100
6	10	1823386101
8	10	1823386102
10	10	1823386103

QR2-F-RVK



Angled plug connector, heat-resistant

Ø D	LE	
4	10	1823380019
6	10	1823380020
8	10	1823380021
10	10	1823380022

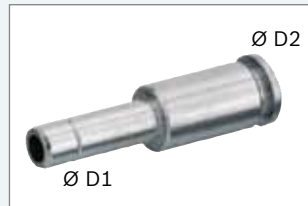
QR2-F-RTK



T-plug connector, heat-resistant

Ø D	LE	
4	10	1823381050
6	10	1823381051
8	10	1823381052
10	10	1823381053
12	10	R412007732

QR2-F-RED



Straight push-in fitting, heat-resistant, reducing

Ø D1	Ø D2	LE	
8	6	10	R412007682
10	6	10	R412007683

Plastic tubing in many qualities for all applications

Compressed air tubing made of polyurethane (PUR)

TU1-S-PUR

Dimensions	Length	Black	Blue	Red	Natural
[mm]	[m]				
3 x 0,6	25	1820712068	1820712067	1820712066	1820712069
4 x 0,75	25	1820712010	1820712030	1820712020	1820712000
4 x 0,75	100	1820712018	1820712036	1820712026	1820712007
6 x 1,05	25	1820712012	1820712032	1820712022	1820712002
6 x 1,05	100	1820712019	1820712037	1820712027	1820712006
8 x 1,15	25	1820712013	1820712033	1820712023	1820712003
8 x 1,15	100	1820712016	1820712038	1820712028	1820712008
10 x 1,25	25	1820712015	1820712035	1820712025	1820712005
10 x 1,25	100	1820712081	1820712039	1820712029	1820712009
12 x 1,5	25	1820712014	1820712034	1820712024	1820712004
12 x 1,5	100	1820712017	1820712040	1820712083	1820712082
14 x 2	25	R412004778	R412004782	R412004786	R412004790
14 x 2	100	R412004779	R412004783	R412004787	R412004791
16 x 2,5	25	R412004780	R412004784	R412004788	R412004792
16 x 2,5	100	R412004781	R412004785	R412004789	R412004793

TU1-F-PUR FOOD

Dimensions	Length	Translucent red	Translucent blue	Translucent black	Natural
[mm]	[m]				
4 x 0,75	25	R412009900	R412004796	R412009963	R412004797
6 x 1,05	25	R412009901	1820712044	1820712043	1820712042
8 x 1,25	25	R412004994	1820712047	1820712046	1820712045
10 x 1,5	25	R412009902	R412004798	R412009964	R412004799
12 x 2	25	R412009903	R412009965	R412009966	R412009967

TU1-E-PUR ECONOMY

Dimensions	Length	Black	Blue	Natural
[mm]	[m]			
4	500	R412007824	R412007825	R412007823
6	500	R412007827	R412007828	R412007826
8	500	R412007830	R412007831	R412007829
10	400	R412007833	R412007834	R412007832
12	300	R412007836	R412007837	R412007835

TU1 series plastic tubing forms the basis of our comprehensive range



TU1-A-PUR

Dimensions	Length	Black-marking color-white
[mm]	[m]	
4 x 0,75	50	1820712089
6 x 1	50	1820712091
8 x 1,1	50	1820712092
10 x 1,25	50	1820712093

TU1-X-PUR FLAMEX

Dimensions	Length	Black-marking color-white
[mm]	[m]	
4 x 1	25	1820712084
8 x 2	25	1820712085
10 x 2	25	1820712086
12 x 2	25	1820712087
14 x 2	25	1820712088

TU2-S-PUR DUO

Dimensions	Length	Black-blue
[mm]	[m]	
4 x 1	25	1820712070
6 x 1	25	1820712072
8 x 1	25	1820712073
10 x 1,25	25	1820712074

Compressed air tubing in further qualities, colors, dimensions on request

- Single tubing, duo tubing, and spiral tubing
- Polyurethane (PUR), polyamide (PAM), Teflon (TEF), polyethylene terephthalate (PET), and polyvinyl chloride (PVC)

Compressed air tubing made of polyamide (PAM)

TU1-S-PAM

Dimensions	Length	Black	Natural
[mm]	[m]		
4 x 1	25	1820712110	1820712100
6 x 1	25	1820712111	1820712101
8 x 1	25	1820712112	1820712102
10 x 1	25	1820712115	1820712105
12 x 1,5	25	1820712113	1820712103
14 x 1,5	25	1820712114	1820712104

TU1-S-PAM HIGH FLOW

Dimensions	Length	Blue
[mm]	[m]	
4 x 0,5	25	R412009913
4 x 0,5	100	R412009914
6 x 0,65	25	R412009915
6 x 0,65	100	R412009917
8 x 0,8	25	R412009918
8 x 0,8	100	R412009920
10 x 1	25	R412009921
10 x 1	100	R412009923
12 x 1,1	25	R412009924
12 x 1,1	100	R412009926
14 x 1,25	25	R412009927
16 x 1,35	25	R412009929

Pneumatic connection technology without push-in fittings for special applications



**Coupling with tube nut,
CP1 series**



**Coupling with external thread,
CP1 series**

Fittings with tube nuts

The range includes plastic and metal standard variants as well as additional special forms.

Couplings

From standard lock couplings with various connection types to safety couplings.

Throttle valves, check-choke valves, non-return valves

Also available in versions with an integrated silencer or for use as a screw-in throttle. Some versions also suitable for direct installation in piping.

Flow and check valves

Shut-off valves, manual spool valves, quick exhaust valves

Other connector accessories

The product range includes blanking plugs and connectors in many shapes and with tailored connections.



**Check-choke valve,
CH01 and CH02 series**



**Non-return valve,
NR01 and NR02 series**



Shut-off valve



ML manual spool valve



Quick exhaust valve, 573 series



**Fittings with tube nuts,
NU1 series, plastic, and NU2 series, metal**



**Double-nipple fitting,
FPT series**



**Blanking plug,
FPT series**

In contact with our customers and partners. Pneumatic solutions for automation

Based on proven expertise and a first-class product range

Our understanding of cooperation goes well beyond individual projects. We are constantly in dialog with our customers and are always a competent contact for both technical and economic questions. The know-how contained in our comprehensive pneumatic product range gives us a solid foundation for our work.

- Cylinders and sensor technology
- Valves, valve terminal systems, field bus connections
- Gripper and vacuum technology
- Compressed air preparation, assembly material, accessories

Understanding our customers allows us to respond more quickly and give us a head start in achieving tailor-made solutions. Thus, we always remain close to the action and ensure the technological lead for us and our customers.

With this basis, we can always provide our customers with the right solution for a wide variety of tasks, applications, and working environments. In addition, our Air Supply Management contains an extensive range of products and components, from well-matched maintenance units with every possible function, to tubing, sensors, and system fittings, as well as assembly material. The entire spectrum: for nominal flows up to 14,500 l/min and connection diameters from 3 mm.



Around-the-clock information

You can learn all about our pneumatic products on our homepage. In the online catalog, you can find additional information covering the entire product range, including all technical details, as well as the use of user-friendly design tools.

- Product highlights in pneumatics
- Internet platform with online tools



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