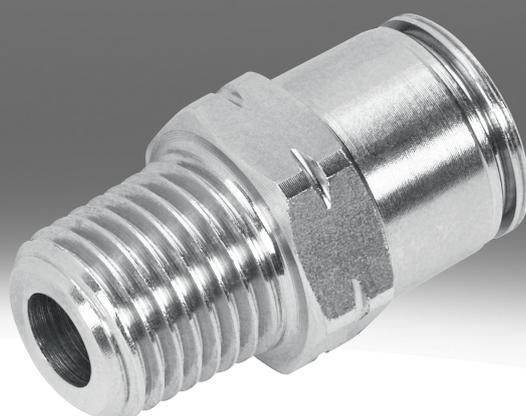


Push-in fitting, stainless steel, inches CRQS

FESTO



Characteristics

At a glance

For pneumatic applications with a temperature range up to 120°C and a pressure range up to 10 bar.

Maximum corrosion resistance and chemical resistance with approval for use in the food and packaging industry.

- Corrosion resistance class CRC 4 according to Festo standard 940 070
- Unlimited use in the food industry
- Operating media: compressed air, vacuum, (water)

The push-in fitting CRQS can be used in combination with the food-safe plastic tubing PFAN in all areas of the food & packaging industry, e.g. in areas where the use of stainless steel is stipulated. Used together, they easily resist all cleaning agents and lubricants.

Type code

001	Series
CRQS	Push-in fitting, stainless steel
CRQST	Push-in T-connector, stainless steel
CRQSL	Push-in L-connector, stainless steel

002	Pneumatic connection 1 [inch]
3/8	3/8 NPT
1/8	1/8 NPT
1/4	1/4 NPT
1/2	1/2 NPT
5/32T	Push-in connector 5/32"
5/16T	Push-in connector 5/16"
3/8T	Push-in connector 3/8"
1/4T	Push-in connector 1/4"
1/2T	Push-in connector 1/2"
5/16H	Push-in sleeve 5/16"
3/8H	Push-in sleeve 3/8"
1/4H	Push-in sleeve 1/4"

003	Pneumatic connection 2 [inch]
	Same size push-in connector as pneumatic connection 1
1/2	Push-in connector 1/2"
1/4	Push-in connector 1/4"
3/8	Push-in connector 3/8"
5/16	Push-in connector 5/16"
5/32	Push-in connector 5/32"

004	System of units
U	Imperial

Datasheet

General technical data – Push-in fittings

Pneumatic connection, port 1	Male thread 1/8 NPTF	Male thread 1/4 NPTF	Male thread 3/8 NPTF	Male thread 1/2 NPTF
Design	Push-pull principle			
Mounting position	optional			
Nominal size	0.118 ... 0.217 in	0.157 ... 0.335 in	0.315 ... 0.413 in	0.413 in
Size of pack	1			

General technical data – Push-in connectors

Pneumatic connection, port 1	Push-in sleeve diameter 1/4"	Push-in sleeve diameter 5/16"	Push-in sleeve diameter 3/8"	For tubing outside diameter of 5/32"	For tubing O.D. 1/4"	For tubing O.D. 5/16"	For tubing outer diameter of 3/8"	For tubing O.D. 1/2"
Design	Push-pull principle							
Mounting position	optional							
Nominal size	0.118 in	0.197 in	0.217 ... 0.256 in	0.118 ... 0.138 in	0.217 in	0.256 in	0.335 in	0.433 in
Size of pack	1							

Tubing insertion depths

Pneumatic connection, port 1	Push-in sleeve diameter 1/4"	Push-in sleeve diameter 5/16"	Push-in sleeve diameter 3/8"	For tubing outside diameter of 5/32"	For tubing O.D. 1/4"	For tubing O.D. 5/16"	For tubing outer diameter of 3/8"	For tubing O.D. 1/2"
Tubing insertion depth	13 mm	16 mm		13 mm	16 mm		18.5 mm	19.5 mm

Operating and environmental conditions

Operating pressure complete temperature range	-0.095 ... 1.4 MPa
Operating pressure complete temperature range	-0.95 ... 14 bar
Operating pressure complete temperature range	-13.775 ... 203 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:::]
Ambient temperature	-20 ... 150°C
Corrosion resistance class CRC ¹⁾	4 - Very high corrosion stress
Suitable for use with food	See supplementary material information

1) More information www.festo.com/x/topic/kbk

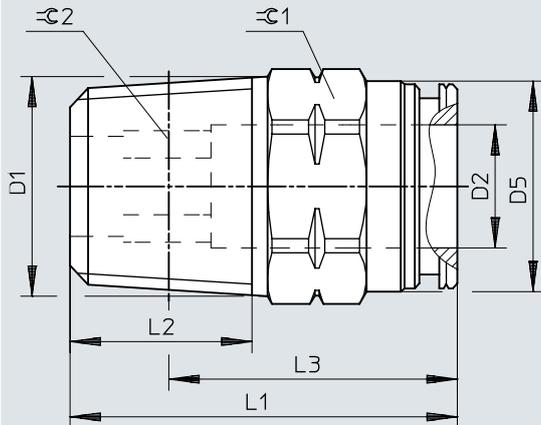
Materials

Material housing	High-alloy stainless steel
Material release ring	High-alloy stainless steel
Colour of release ring	Silver
Material tubing seal	FPM
Material tubing clamp component	High-alloy stainless steel
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Dimensions

Dimensions – Push-in fitting CRQS

Download CAD data www.festo.com

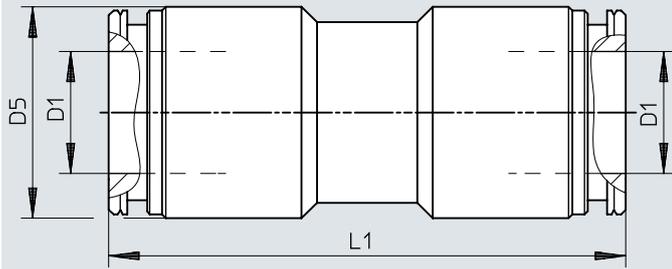


	D1	D2 ø	D5 ø	L1	L2	L3	R1	R2
CRQS-1/8-5/32-U	NPTF1/8-27	5/32	0,374	0,768	0,335	0,606	15/32	1/8
CRQS-1/8-1/4-U		1/4	0,472	0,866	0,335	0,705	1/2	5/32
CRQS-1/4-1/4-U	NPTF1/4-18	1/4	0,472	0,965	0,512	0,736	35/64	5/32
CRQS-1/4-5/16-U		5/16	0,551	1,004	0,512	0,776	35/64	1/4
CRQS-1/4-3/8-U	NPTF3/8-18	3/8	0,630	1,260	0,512	1,031	21/32	1/4
CRQS-3/8-3/8-U		3/8	0,630	1,004	0,512	0,764	45/64	5/16
CRQS-3/8-1/2-U	NPTF1/2-14	1/2	0,787	1,161	0,512	0,921	13/16	13/32
CRQS-1/2-1/2-U		1/2	0,768	1,201	0,669	0,882	55/64	13/32

Dimensions

Dimensions – Push-in connector CRQS-...T

Download CAD data www.festo.com

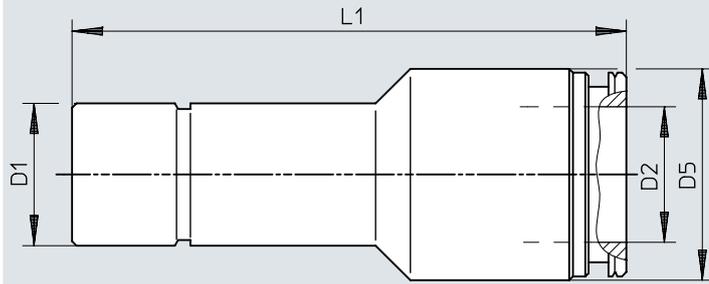


	D1 ø	D5 ø	L1
CRQS-5/32T-U	5/32	0,374	1,102
CRQS-1/4T-U	1/4	0,472	1,319
CRQS-5/16T-U	5/16	0,551	1,339
CRQS-3/8T-U	3/8	0,630	1,516
CRQS-1/2T-U	1/2	0,787	1,614

Dimensions

Dimensions – Push-in connector CRQS-...H

Download CAD data www.festo.com

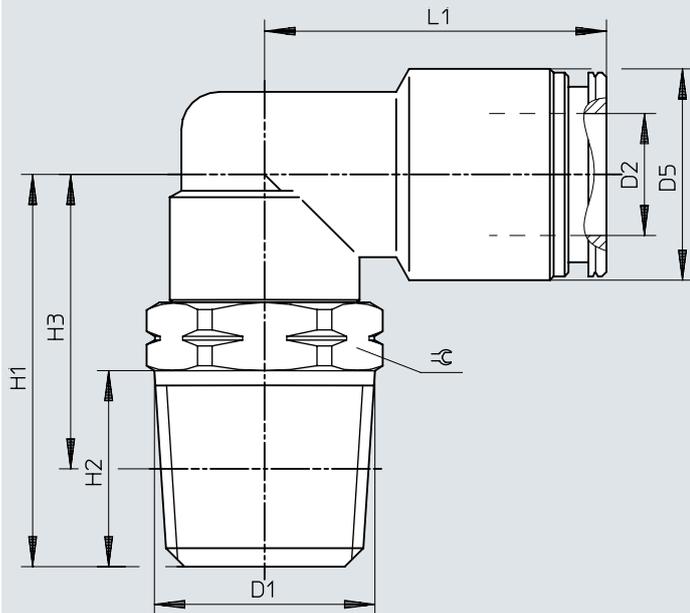


	D1 ∅	D2 ∅	D5 ∅	L1
CRQS-1/4H-5/32-U	1/4	5/32	0,374	1,240
CRQS-5/16H-1/4-U	5/16	1/4	0,472	1,358
CRQS-3/8H-1/4-U	3/8	1/4	0,472	1,358
CRQS-3/8H-5/16-U		5/16	0,551	1,437

Dimensions

Dimensions – Push-in L-fitting CRQSL

Download CAD data www.festo.com

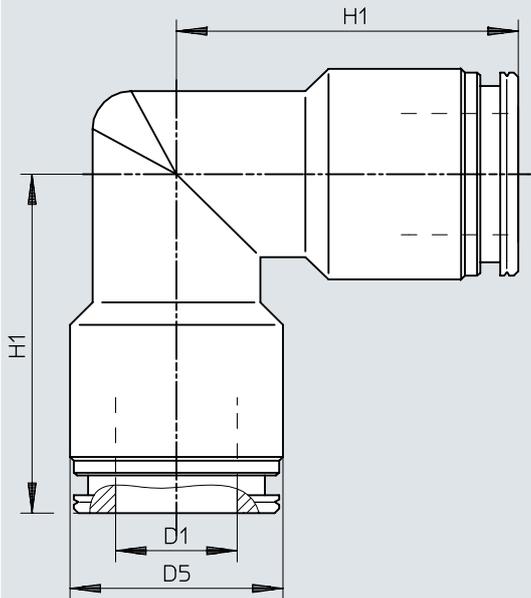


	D1	D2 ∅	D5 ∅	H1	H2	H3	L1	☉
CRQSL-1/8-5/32-U	NPTF1/8-27	5/32	0,374	0,728	0,335	0,567	0,689	15/32
CRQSL-1/8-1/4-U		1/4	0,472	0,827	0,335	0,665	0,846	1/2
CRQSL-1/4-1/4-U	NPTF1/4-18	1/4	0,472	1,024	0,512	0,795	0,846	35/64
CRQSL-1/4-5/16-U		5/16	0,551	1,024	0,512	0,795	0,886	35/64
CRQSL-1/4-3/8-U		3/8	0,630	1,142	0,512	0,913	1,024	21/32
CRQSL-3/8-3/8-U	NPTF3/8-18	3/8	0,630	1,142	0,512	0,902	1,024	45/64
CRQSL-3/8-1/2-U		1/2	0,787	1,280	0,512	1,039	1,122	13/16
CRQSL-1/2-1/2-U	NPTF1/2-14	1/2	0,787	1,457	0,669	1,138	1,122	55/64

Dimensions

Dimensions – Push-in L-connector CRQSL-...T

Download CAD data www.festo.com

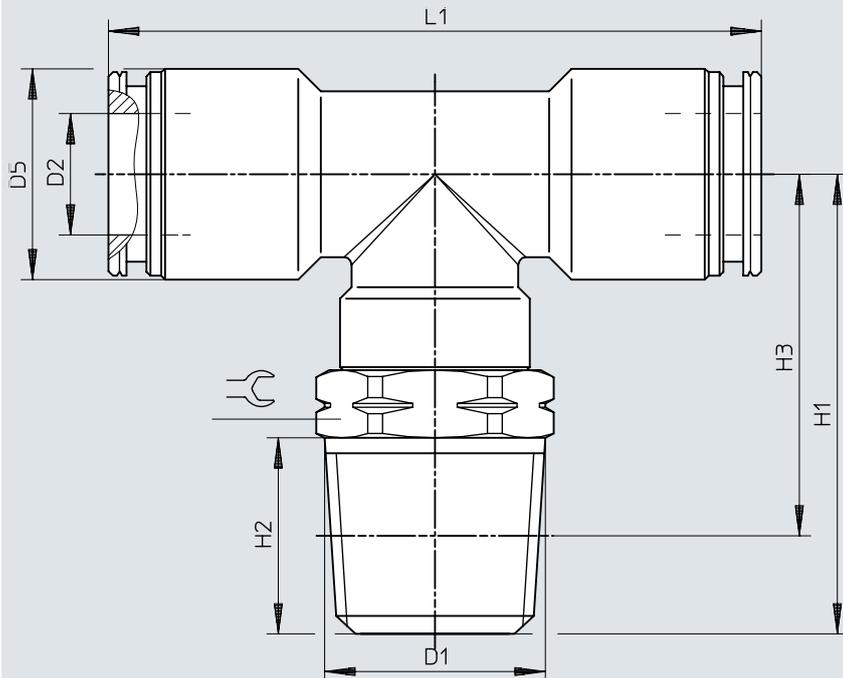


	D1 ø	D5 ø	H1
CRQSL-5/32T-U	5/32	0,374	0,689
CRQSL-1/4T-U	1/4	0,472	0,827
CRQSL-5/16T-U	5/16	0,551	0,886
CRQSL-3/8T-U	3/8	0,630	1,004
CRQSL-1/2T-U	1/2	0,787	1,083

Dimensions

Dimensions – Push-in T-fitting CRQST

Download CAD data www.festo.com

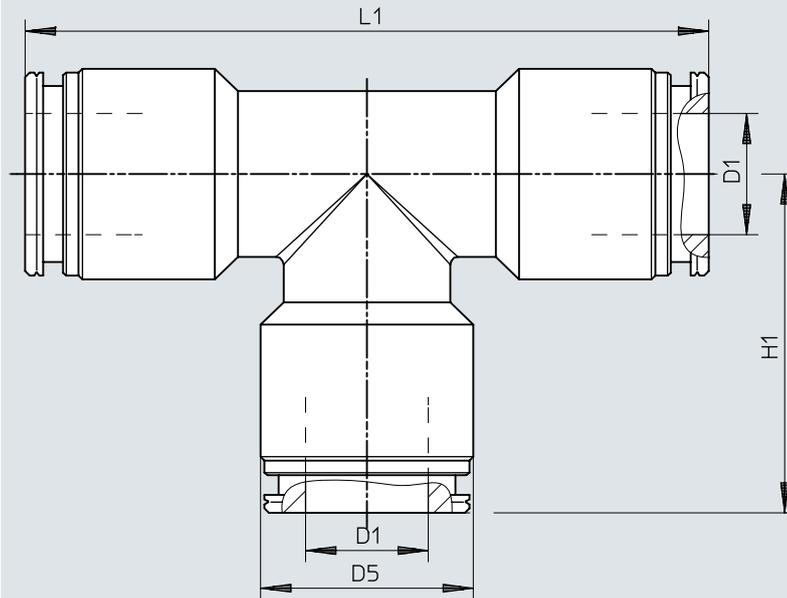


	D1	D2 ∅	D5 ∅	H1	H2	H3	L1	⊕
CRQST-1/8-5/32-U	NPTF1/8-27	5/32	0,374	0,886	0,335	0,724	1,378	15/32
CRQST-1/8-1/4-U		1/4	0,472	1,004	0,335	0,843	1,654	1/2
CRQST-1/4-1/4-U	NPTF1/4-18	1/4	0,472	1,201	0,512	0,972	1,654	35/64
CRQST-1/4-5/16-U		5/16	0,551	1,201	0,512	0,972	1,693	35/64
CRQST-1/4-3/8-U		3/8	0,630	1,260	0,512	1,031	2,008	21/32
CRQST-3/8-3/8-U	NPTF3/8-18	3/8	0,630	1,260	0,512	1,020	2,008	45/64

Dimensions

Dimensions – Push-in T-connector CRQST-...T

Download CAD data www.festo.com



	D1 ∅	D5 ∅	H1	L1
CRQST-5/32T-U	5/32	0,374	0,689	1,378
CRQST-1/4T-U	1/4	0,472	0,827	1,654
CRQST-5/16T-U	5/16	0,551	0,846	1,693
CRQST-3/8T-U	3/8	0,630	0,984	1,969
CRQST-1/2T-U	1/2	0,787	1,083	2,165

Ordering data

Ordering information – Push-in fitting CRQS(male thread with external hex)						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Male thread 1/8 NPTF	For tubing outside diameter of 5/32"	0.118 in	9.696 oz	565318	CRQS-1/8-5/32-U
		For tubing outside diameter of 1/4"	0.157 in	11 oz	565319	CRQS-1/8-1/4-U
	Male thread 1/4 NPTF	For tubing outside diameter of 1/4"		17.804 oz	565320	CRQS-1/4-1/4-U
		For tubing outside diameter of 5/16"	0.256 in	16.301 oz	565321	CRQS-1/4-5/16-U
	Male thread 3/8 NPTF	For tubing outside diameter of 3/8"	0.315 in	25.997 oz	565322	CRQS-1/4-3/8-U
		For tubing outside diameter of 1/2"	0.413 in	31.695 oz	565323	CRQS-3/8-3/8-U
Male thread 1/2 NPTF	For tubing outside diameter of 1/2"		46.296 oz	565324	CRQS-3/8-1/2-U	
				565325	CRQS-1/2-1/2-U	

Ordering information – Push-in connector CRQS-...T						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.118 in	8.703 oz	565340	CRQS-5/32T-U
	For tubing O.D. 1/4"	For tubing outside diameter of 1/4"	0.217 in	14.6 oz	565341	CRQS-1/4T-U
	For tubing O.D. 5/16"	For tubing outside diameter of 5/16"	0.256 in	19.703 oz	565342	CRQS-5/16T-U
	For tubing outer diameter of 3/8"	For tubing outside diameter of 3/8"	0.335 in	26.791 oz	565343	CRQS-3/8T-U
	For tubing O.D. 1/2"	For tubing outside diameter of 1/2"	0.433 in	43.999 oz	565344	CRQS-1/2T-U

Ordering information – Push-in connector CRQS-...H						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Push-in sleeve diameter 1/4"	For tubing outside diameter of 5/32"	0.118 in		565355	CRQS-1/4H-5/32-U
	Push-in sleeve diameter 5/16"	For tubing outside diameter of 1/4"	0.197 in	11.51 oz	565356	CRQS-5/16H-1/4-U
			0.217 in	13.693 oz	565357	CRQS-3/8H-1/4-U
Push-in sleeve diameter 3/8"	For tubing outside diameter of 5/16"	0.256 in	15.507 oz	565358	CRQS-3/8H-5/16-U	

Ordering data – Push-in L-fitting CRQSL (male thread with external hex)						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Male thread 1/8 NPTF	For tubing outside diameter of 5/32"	0.118 in	12.502 oz	565326	CRQSL-1/8-5/32-U
		For tubing outside diameter of 1/4"	0.217 in	19.987 oz	565327	CRQSL-1/8-1/4-U

Ordering data

Ordering data – Push-in L-fitting CRQSL (male thread with external hex)							
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type	
	Male thread 1/4 NPTF	For tubing outside diameter of 1/4"	0.217 in	27.5 oz	565328	CRQSL-1/4-1/4-U	
		For tubing outside diameter of 5/16"	0.236 in	27.414 oz	565329	CRQSL-1/4-5/16-U	
		For tubing outside diameter of 3/8"	0.335 in	39.01 oz	565330	CRQSL-1/4-3/8-U	
	Male thread 3/8 NPTF	For tubing outside diameter of 3/8"			43.007 oz	565331	CRQSL-3/8-3/8-U
		For tubing outside diameter of 1/2"	0.413 in		67.189 oz	565332	CRQSL-3/8-1/2-U
	Male thread 1/2 NPTF	For tubing outside diameter of 1/2"			77.197 oz	565333	CRQSL-1/2-1/2-U

Ordering data – Push-in L-connector CRQSL...T						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.138 in	12.587 oz	565345	CRQSL-5/32T-U
	For tubing O.D. 1/4"	For tubing outside diameter of 1/4"	0.217 in		565346	CRQSL-1/4T-U
	For tubing O.D. 5/16"	For tubing outside diameter of 5/16"	0.256 in	24.608 oz	565347	CRQSL-5/16T-U
	For tubing outer diameter of 3/8"	For tubing outside diameter of 3/8"	0.335 in	43.007 oz	565348	CRQSL-3/8T-U
	For tubing O.D. 1/2"	For tubing outside diameter of 1/2"	0.433 in	50.491 oz	565349	CRQSL-1/2T-U

Ordering data – Push-in T-fitting CRQST (male thread with external hex)							
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type	
	Male thread 1/8 NPTF	For tubing outside diameter of 5/32"	0.118 in	18.598 oz	565334	CRQST-1/8-5/32-U	
		For tubing outside diameter of 1/4"	0.217 in	27.5 oz	565335	CRQST-1/8-1/4-U	
	Male thread 1/4 NPTF	For tubing outside diameter of 1/4"			33.595 oz	565336	CRQST-1/4-1/4-U
		For tubing outside diameter of 5/16"	0.236 in		36.997 oz	565337	CRQST-1/4-5/16-U
	Male thread 3/8 NPTF	For tubing outside diameter of 3/8"	0.335 in		64.014 oz	565338	CRQST-1/4-3/8-U
		For tubing outside diameter of 3/8"			66.509 oz	565339	CRQST-3/8-3/8-U

Ordering data – Push-in T-connector CRQST...T						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing outside diameter of 5/32"	For tubing outside diameter of 5/32"	0.138 in	15.989 oz	565350	CRQST-5/32T-U

Ordering data

Ordering data – Push-in T-connector CRQST-...T						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing O.D. 1/4"	For tubing outside diameter of 1/4"	0.217 in	28.01 oz	565351	CRQST-1/4T-U
	For tubing O.D. 5/16"	For tubing outside diameter of 5/16"	0.256 in	32.801 oz	565352	CRQST-5/16T-U
	For tubing outer diameter of 3/8"	For tubing outside diameter of 3/8"	0.335 in	58.004 oz	565353	CRQST-3/8T-U
	For tubing O.D. 1/2"	For tubing outside diameter of 1/2"	0.433 in	69.996 oz	565354	CRQST-1/2T-U