

Push-in fittings CRQS, stainless steel, NPT

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Technical data

General technical data	
Size	Standard
Design	Push-pull principle
Mounting position	Any
Max. tightening torque [ft-lbf]	8.851 at male thread NPTF1/8-27
	11.801 at male thread NPTF1/4-18
	13.276 at male thread NPTF3/8-18
	14.751 at male thread NPTF1/2-14
Usable lines	PFAN

Operating and environmental conditions	
Operating pressure [psi]	-13.8 ... +203.1
complete temperature range	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Ambient temperature [°F]	-4 ... +302
Corrosion resistance class CRC ²⁾	4
Food-safe ¹⁾	See supplementary material information

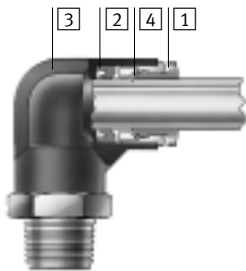
1) Additional information www.festo.com/sp → Certificates.

2) CRC4: Corrosion resistance class to Festo standard 940 070

Components with very heavy corrosion exposure. Components in contact with aggressive media, e.g. in food or chemical industries. These applications must, if necessary, be verified by special tests with the media concerned.

Materials

Sectional view



	CRQS, NPT
1 Releasing ring	High-alloy stainless steel
2 Tubing seal	FPM
3 Housing	High-alloy stainless steel
4 Tube retaining claw	High-alloy stainless steel
Note on materials	Contains PWIS (paint wetting impairment substances)
	RoHS-compliant

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Product range overview

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Design	Version	Type	Connection D1		Connection D2		→ Page/ Internet	
			NPT thread	Tubing O.D.	Push-in sleeve ∅	Tubing O.D.		
Inline	Push-in fitting – Male thread with internal/external hex							
		CRQS	1/8	–	–	5/32, 1/4	4	
			1/4			1/4, 5/16, 3/8		
			3/8			3/8, 1/2		
			1/2			1/2		
	Push-in connector							
		CRQS-...T	–	5/32	–	–	4	
			1/4	5/16				
			3/8	1/2				
			1/2					
	Push-in connector with push-in sleeve							
		CRQS-...H	–	–	1/4	5/32	5	
			5/16	1/4				
			3/8	1/4, 5/16				
	L-shape	Push-in L-fitting, orientable – Male thread with external hex						
		CRQSL	1/8	–	–	5/32, 1/4	6	
			1/4			1/4, 5/16, 3/8		
			3/8			3/8, 1/2		
			1/2			1/2		
Push-in L-connector								
		CRQSL-...T	–	5/32	–	–	6	
			1/4	5/16				
			3/8	1/2				
			1/2					
T-shape		Push-in T-fitting, orientable – Male thread with external hex						
			CRQST	1/8	–	–	5/32, 1/4	7
				1/4			1/4, 5/16, 3/8	
				3/8			3/8	
		Push-in T-connector						
		CRQST-...T	–	5/32	–	–	7	
			1/4	5/16				
			3/8	1/2				
			1/2					

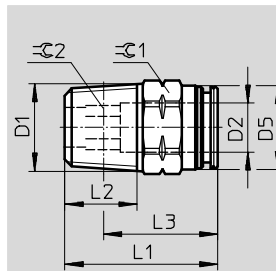
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Technical data

Push-in fitting CRQS

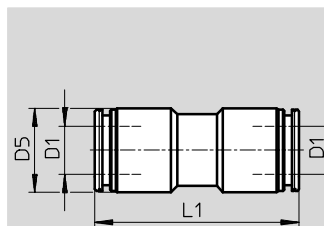
Male thread with external hex



Dimensions and ordering data												
Pneumatic connection		Nominal size	Dimensions [in]						Weight/ piece	Part No.	Type	PU ¹⁾
Male thread	For tubing O.D.		D5 Ø	L1	L2	L3	≲ 1	≲ 2				
D1	D2 [in]	[in]							[oz]			
NPTF1/8-27	5/32	0.118	0.374	0.768	0.335	0.606	15/32	1/8	0.342	565318	CRQS-1/8-5/32-U	1
	1/4	0.157	0.472	0.866	0.335	0.705	1/2	5/32	0.388	565319	CRQS-1/8-1/4-U	1
NPTF1/4-18	1/4	0.157	0.472	0.965	0.512	0.736	35/64	5/32	0.628	565320	CRQS-1/4-1/4-U	1
	5/16	0.256	0.551	1.004	0.512	0.776	35/64	1/4	0.575	565321	CRQS-1/4-5/16-U	1
	3/8	0.256	0.630	1.260	0.512	1.031	21/32	1/4	0.896	565322	CRQS-1/4-3/8-U	1
NPTF3/8-18	3/8	0.315	0.630	1.004	0.512	0.764	45/64	5/16	0.917	565323	CRQS-3/8-3/8-U	1
	1/2	0.413	0.787	1.161	0.512	0.921	13/16	13/32	1.118	565324	CRQS-3/8-1/2-U	1
NPTF1/2-14	1/2	0.413	0.768	1.201	0.669	0.882	55/64	13/32	1.633	565325	CRQS-1/2-1/2-U	1

1) Packaging unit

Push-in connector CRQS-...T



Dimensions and ordering data							
Pneumatic connection	Nominal size	Dimensions [in]		Weight/ piece	Part No.	Type	PU ¹⁾
For tubing O.D.		D5 Ø	L1				
D1 [in]	[in]			[oz]			
5/32	0.118	0.374	1.102	0.307	565340	CRQS-5/32T-U	1
1/4	0.217	0.472	1.319	0.515	565341	CRQS-1/4T-U	1
5/16	0.256	0.551	1.339	0.695	565342	CRQS-5/16T-U	1
3/8	0.335	0.630	1.516	0.945	565343	CRQS-3/8T-U	1
1/2	0.433	0.787	1.614	1.552	565344	CRQS-1/2T-U	1

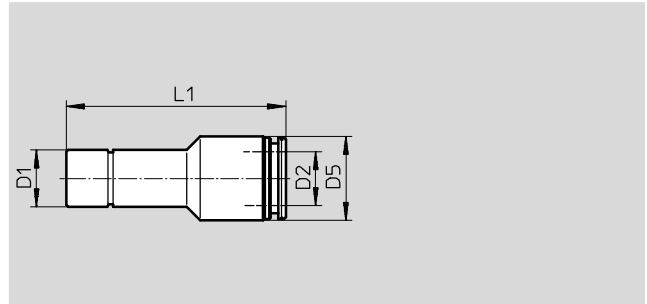
1) Packaging unit

Push-in fittings CRQS, stainless steel, NPT

Technical data

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Push-in connector CRQS-...H
with push-in sleeve



Dimensions and ordering data								
Pneumatic connection		Nominal size	Dimensions [in]		Weight/ piece	Part No.	Type	PU ¹⁾
Push-in sleeve O.D.	For tubing O.D.		D5 Ø	L1				
D1 [in]	D2 [in]	[in]			[oz]			
1/4	5/32	0.118	0.374	1.240	–	565355	CRQS-1/4H-5/32-U	1
5/16	1/4	0.197	0.472	1.358	0.406	565356	CRQS-5/16H-1/4-U	1
3/8	1/4	0.217	0.472	1.358	0.483	565357	CRQS-3/8H-1/4-U	1
	5/16	0.256	0.551	1.437	0.547	565358	CRQS-3/8H-5/16-U	1

1) Packaging unit

Push-in fittings CRQS, stainless steel, NPT

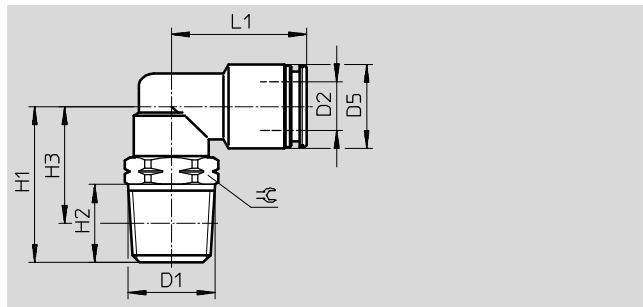
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Technical data

Push-in L-fitting CRQSL

Orientable

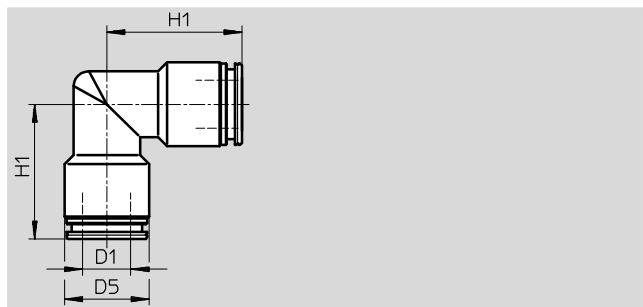
Male thread with external hex



Dimensions and ordering data												
Pneumatic connection		Nominal size	Dimensions [in]						Weight/ piece	Part No.	Type	PU ¹⁾
Male thread	For tubing O.D.		D5 Ø	H1	H2	H3	L1					
D1	D2 [in]	[in]							[oz]			
NPTF1/8-27	5/32	0.118	0.374	0.728	0.335	0.567	0.689	15/32	0.441	565326	CRQSL-1/8-5/32-U	1
	1/4	0.217	0.472	0.827	0.335	0.665	0.846	1/2	0.705	565327	CRQSL-1/8-1/4-U	1
NPTF1/4-18	1/4	0.217	0.472	1.024	0.512	0.795	0.846	35/64	0.97	565328	CRQSL-1/4-1/4-U	1
	5/16	0.236	0.551	1.024	0.512	0.795	0.886	35/64	0.967	565329	CRQSL-1/4-5/16-U	1
	3/8	0.335	0.630	1.142	0.512	0.913	1.024	21/32	1.376	565330	CRQSL-1/4-3/8-U	1
NPTF3/8-18	3/8	0.335	0.630	1.142	0.512	0.902	1.024	45/64	1.517	565331	CRQSL-3/8-3/8-U	1
	1/2	0.413	0.787	1.280	0.512	1.039	1.122	13/16	2.37	565332	CRQSL-3/8-1/2-U	1
NPTF1/2-14	1/2	0.413	0.787	1.457	0.669	1.138	1.122	55/64	2.723	565333	CRQSL-1/2-1/2-U	1

1) Packaging unit

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



Dimensions and ordering data							
Pneumatic connection	Nominal size	Dimensions [in]		Weight/ piece	Part No.	Type	PU ¹⁾
For tubing O.D.		D5 Ø	H1				
D1 [in]	[in]			[oz]			
5/32	0.138	0.374	0.689	0.444	565345	CRQSL-5/32T-U	1
1/4	0.217	0.472	0.827	0.515	565346	CRQSL-1/4T-U	1
5/16	0.256	0.551	0.886	0.868	565347	CRQSL-5/16T-U	1
3/8	0.335	0.630	1.004	1.517	565348	CRQSL-3/8T-U	1
1/2	0.433	0.787	1.083	1.781	565349	CRQSL-1/2T-U	1

1) Packaging unit

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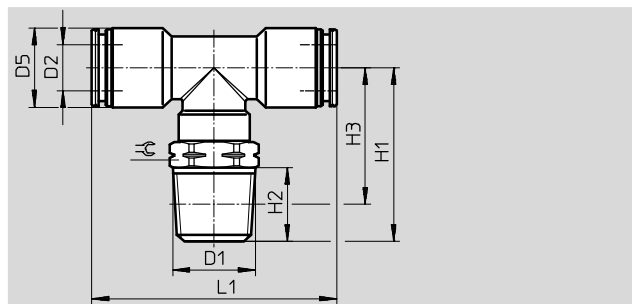
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Technical data

Push-in T-fitting CRQST

Orientable

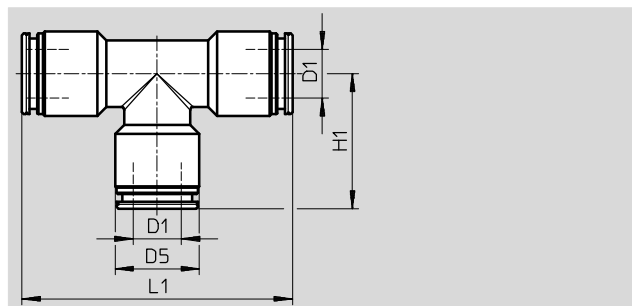
Male thread with external hex



Dimensions and ordering data												
Pneumatic connection		Nominal size	Dimensions [in]						Weight/ piece	Part No.	Type	PU ¹⁾
Male thread	For tubing O.D.		D5 Ø	H1	H2	H3	L1	≡				
D1	D2 [in]	[in]							[oz]			
NPTF1/8-27	5/32	0.118	0.374	0.886	0.335	0.724	1.378	15/32	0.656	565334	CRQST-1/8-5/32-U	1
	1/4	0.217	0.472	1.004	0.335	0.843	1.654	1/2	0.97	565335	CRQST-1/8-1/4-U	1
NPTF1/4-18	1/4	0.217	0.472	1.201	0.512	0.972	1.654	35/64	1.185	565336	CRQST-1/4-1/4-U	1
	5/16	0.236	0.551	1.201	0.512	0.972	1.693	35/64	1.305	565337	CRQST-1/4-5/16-U	1
	3/8	0.335	0.630	1.260	0.512	1.031	2.008	21/32	2.258	565338	CRQST-1/4-3/8-U	1
NPTF3/8-18	3/8	0.335	0.630	1.260	0.512	1.020	2.008	45/64	2.346	565339	CRQST-3/8-3/8-U	1

1) Packaging unit

Push-in T-connector CRQST-...T



Dimensions and ordering data								
Pneumatic connection	Nominal size	Dimensions [in]			Weight/ piece	Part No.	Type	PU ¹⁾
For tubing O.D.		D5 Ø	H1	L1				
D1 [in]	[in]				[oz]			
5/32	0.138	0.374	0.689	1.378	0.564	565350	CRQST-5/32T-U	1
1/4	0.217	0.472	0.827	1.654	0.988	565351	CRQST-1/4T-U	1
5/16	0.256	0.551	0.846	1.693	1.157	565352	CRQST-5/16T-U	1
3/8	0.335	0.630	0.984	1.969	2.046	565353	CRQST-3/8T-U	1
1/2	0.433	0.787	1.083	2.165	2.469	565354	CRQST-1/2T-U	1

1) Packaging unit