

Quick coupling sockets/plugs



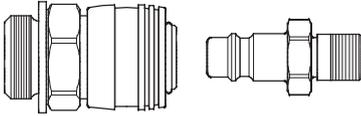
Quick coupling sockets/plugs

Key features

Mode of operation

Quick connection coupling, shut-off on one/both sides

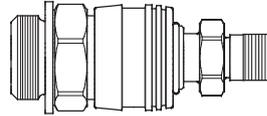
Coupling



When coupling, the plug is pushed into the socket.

The plug engages automatically when it reaches a certain position.

Decoupling

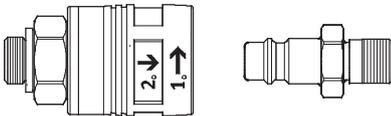


The plug is unlocked by pressing the releasing sleeve.

When decoupling, it is important to make sure that the quick coupling plug is held until the coupling plug is fully exhausted.

Safety coupling

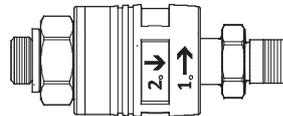
Coupling



When coupling, the plug is pushed into the socket.

The plug engages automatically when it reaches a certain position.

Decoupling



The releasing sleeve is first turned. This is to release the compressed air from the system.

The plug is then unlocked by pulling the releasing sleeve.

-  - Note

When inserting and releasing couplings, the maximum pressure should be 10 bar.

119.Quick coupling sockets/plugs

Product range overview

Function	Version	Type	Brief description	Max. standard nominal flow rate [l/min]	Nominal size [mm]	→ Page/Internet
Quick connection coupling	Shut-off on one side					
		KD1/KS1	For standard applications, without safety function	44	1.5	5
		KD2/KS2		139	2.7	7
		KD3/KS3		666	5	10
		KD4/KS4		1,350	7.2	13
		KD5/KS5		2,043	13	16
	Shut-off on both sides					
	KD3-A-R/ KS3-A-R	Both ends are sealed during unlocking	666	5	18	
	KD4-A-R/KS4-A-R		1,350	7.2	18	
Safety coupling		KDMS6	The compressed air is released from the system by turning the releasing sleeve. Only then can the coupling be unlocked	2,043	7.8	20
		KDS6/KSS6		1,818		

Coupling/tubing combination options							
Tubing	Quick coupling socket/plug						
	KD1/KS1	KD2/KS2	KD3/KS3	KD4/KS4	KD5/KS5	KDS6/KSS6	
Standard I.D.	Polyurethane						
	PU-2	■	-	-	-	-	-
	PU-3	-	■	-	-	-	-
	PU-4	-	■	■	■	-	-
	PU-6	-	-	■	■	-	-
	PU-9	-	-	-	■	-	■
	PU-13	-	-	-	-	■	■
	Nitrile rubber						
	P-6	-	-	-	■	-	-
	P-9	-	-	-	■	-	■
	P-13	-	-	-	-	■	-
	Polyamide						
	PP-3	-	■	-	-	-	-
	PP-4	-	■	■	■	-	-
	PP-6	-	-	■	■	-	-
Standard O.D.	Polyurethane						
	PUN-3	■	-	-	-	-	-
	PUN-4	-	■	-	-	-	-
	PUN-6	-	■	■	■	-	-
	PUN-8	-	-	■	■	-	-
	Polyamide						
	PAN-4	-	■	-	-	-	-
	PAN-6	-	■	■	■	-	-
	PAN-8	-	-	■	■	-	-
	Nitrile rubber with metal braiding (only with KS...-CX quick coupling plug)						
	PX-4	-	-	■	-	-	-
	PX-6	-	-	-	■	-	-
	PX-9	-	-	-	■	-	-

120.Quick coupling sockets/plugs

Product range overview

FESTO

Quick coupling socket/plug combination options												
Connection	Size 1		Size 2		Size 3 ¹⁾		Size 4 ¹⁾		Size 5		Size 6 ²⁾	
	Socket	Plug	Socket	Plug	Socket	Plug	Socket	Plug	Socket	Plug	Socket	Plug
Male thread												
M3	■	-	-	-	-	-	-	-	-	-	-	-
M5	-	-	■	■	-	-	-	-	-	-	-	-
G ¹ / ₈	-	-	-	-	■	■	-	-	-	-	-	■
G ¹ / ₄	-	-	-	-	■	■	■	■	-	-	■	■
G ³ / ₈	-	-	-	-	-	-	■	■	-	-	■	■
G ¹ / ₂	-	-	-	-	-	-	■	■	-	■	■	■
Female thread												
M5	-	-	■	■	-	-	-	-	-	-	-	-
G ¹ / ₈	-	-	-	-	■	■	-	-	-	-	-	-
G ¹ / ₄	-	-	-	-	■	■	■	■	-	-	■	■
G ³ / ₈	-	-	-	-	-	-	■	■	-	-	■	■
G ¹ / ₂	-	-	-	-	-	-	■	■	■	-	■	■
Quick connector with union nut												
CK-3	-	-	■	■	-	-	-	-	-	-	-	-
CK-4	-	-	■	■	■	■	-	■	-	-	-	-
CK-6	-	-	-	-	■	■	■	■	-	-	-	-
CK-9	-	-	-	-	-	-	■	■	-	-	■	■
CK-13	-	-	-	-	-	-	-	-	-	■	■	■
CX-4	-	-	-	-	-	■ ³⁾	-	-	-	-	-	-
CX-6	-	-	-	-	-	-	-	■ ³⁾	-	-	-	-
CX-9	-	-	-	-	-	-	-	■ ³⁾	-	-	-	-
Bulkhead quick connector												
CK-9-S	-	-	-	-	-	-	■	■	-	-	■	■
Barbed fitting												
CN-2	-	■	-	-	-	-	-	-	-	-	-	-
CN-4	-	-	■	■	-	-	-	-	-	-	-	-
CN-6	-	-	-	-	■	■	-	-	-	-	-	-
N-6	-	-	-	-	-	-	-	■	-	-	-	-
N-9	-	-	-	-	-	-	■	■	-	-	■	■
N-13	-	-	-	-	-	-	-	-	-	■	-	-
Barbed bulkhead connector												
CN-4-S	-	-	■	■	-	-	-	-	-	-	-	-
CN-6-S	-	-	-	-	■	■	-	-	-	-	-	-

1) Quick coupling socket, shut-off on both sides, KD-...-A-R, G¹/₈, G¹/₄ thread only

2) Quick coupling socket KDMS6, G¹/₄, G³/₈, G¹/₂ male thread only

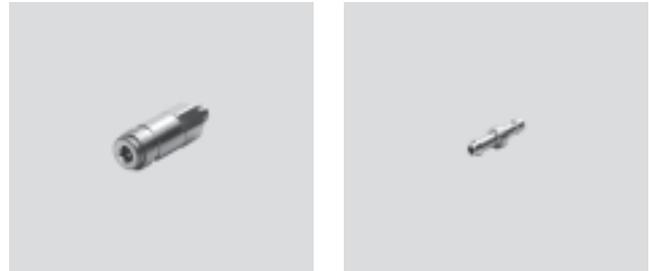
3) For PX tubing only

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Quick connection coupling KD1/KS1

⌀ - Nominal size
1.5 mm



Technical data		
Operating medium		Filtered compressed air, lubricated or unlubricated
Operating pressure ¹⁾	[bar]	-0.95 ... +12
Ambient temperature	[°C]	-10 ... +60
Standard nominal flow rate ²⁾	[l/min]	Max. 44
Corrosion resistance classification	CRC ³⁾	1

1) Safety factor 2.5

2) Measured at p1 = 6 bar and Δp = 1 bar

3) Corrosion resistance class 1 according to Festo standard 940 070

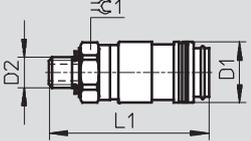
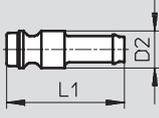
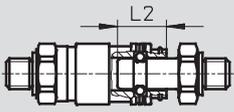
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]		
	With male thread M3	With barbed connector CN-2
Coupling socket	29	-
Coupling plug	-	4

Materials		
	Coupling socket	Coupling plug
Housing	Brass, nickel-plated	Brass, nickel-plated
Releasing sleeve	Brass, nickel-plated	-

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Dimensions		Download CAD data → www.festo.com
Coupling socket Male thread	Coupling plug Barbed fitting	Insertion depth
		

Type	D1 Ø	D2	L1	L2	±C 1
Coupling socket					
M3	6.5	M3	18.5	4.6	6
Coupling plug					
CN-2	4	-	12	4.6	-

Ordering data				
Connection	Coupling socket		Coupling plug	
	Part No.	Type	Part No.	Type
Male thread				
M3	151995	KD1-M3-A	-	-
Barbed fitting				
CN-2	-	-	151996	KS1-CN-2

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Quick connection coupling KD2/KS2

⌀ - Nominal size
2.7 mm

⌀ - Note
All quick coupling socket types of the same size are compatible with all plugs of this size.



Technical data	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure ¹⁾ [bar]	-0.95 ... +12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate ²⁾ [l/min]	Max. 139
Corrosion resistance classification CRC ³⁾	1

- 1) Safety factor 2.5
- 2) Measured at p1 = 6 bar and Δp = 1 bar
- 3) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]	Male thread	Female thread	Quick connector	
	M5	M5	CK-3	CK-4
Quick coupling sockets	10	12	11	16
Quick coupling plugs	5	5	4	11

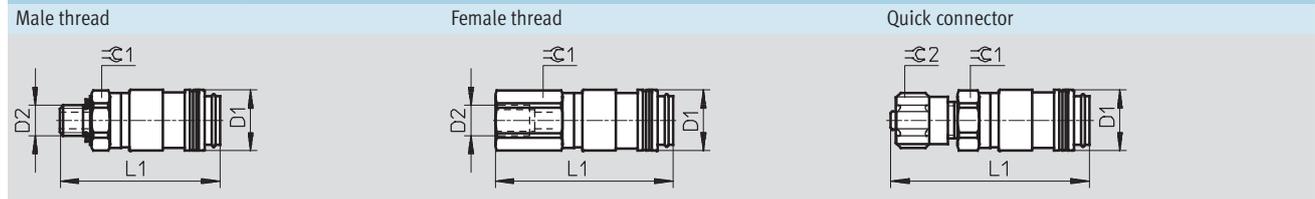
Weights [g]	Barbed fitting	Barbed bulkhead connector
	CN4	CN-4-S
Quick coupling sockets	11	21
Quick coupling plugs	5	16

Materials	Quick coupling socket	Quick coupling plug
Housing	Brass, nickel-plated	Brass, nickel-plated
Releasing sleeve	Brass, nickel-plated	-

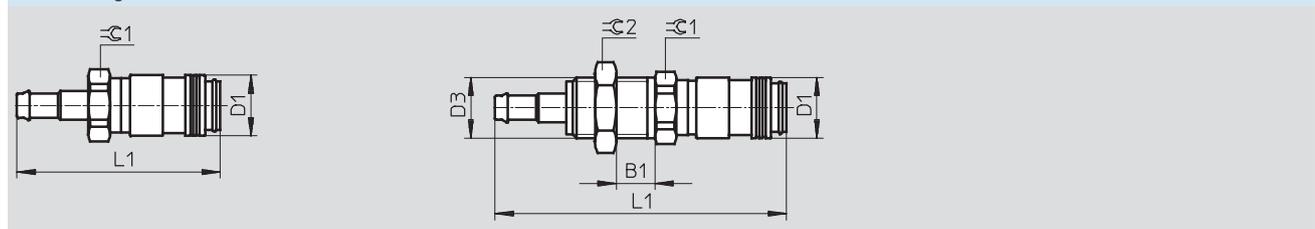
Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

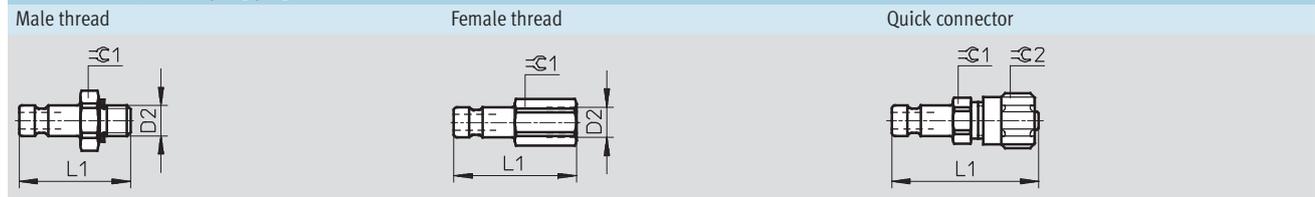
Dimensions – Quick coupling socket Download CAD data → www.festo.com



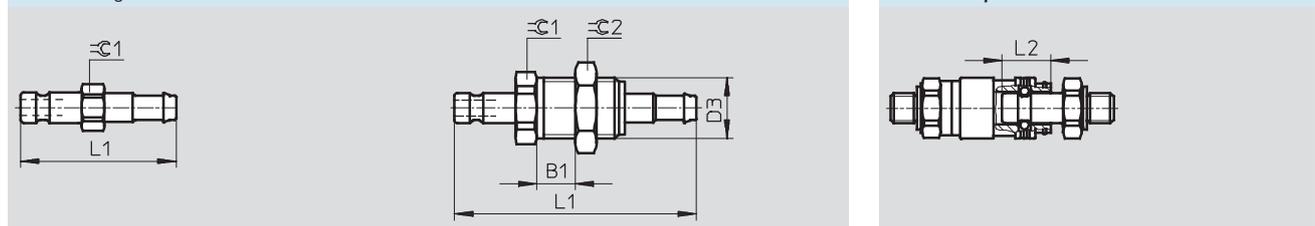
Barbed fitting Barbed bulkhead connector



Dimensions – Quick coupling plug Download CAD data → www.festo.com



Barbed fitting Barbed bulkhead connector Insertion depth



Type	B1	D1 ∅	D2	D3	L1		L2	≡C 1		≡C 2
					Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug	
Male thread										
M5	-	10	M5	-	26.25	18.2	7.95	9	9	-
Female thread										
M5	-	10	M5	-	29.05	20	7.95	9	7	-
Quick connector with union nut										
CK-3	-	10	-	-	32.55	24	7.95	9	7	8
CK-4					35.75	27.2		11	11	12
Barbed fitting										
CN-4	-	10	-	-	33.25	25.4	7.95	11	7	-
Barbed bulkhead connector										
CN-4-S	1 ... 10	10	-	M10x1	47.75	39.7	7.95	11	11	13

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Ordering data			
Type	Quick coupling socket		Quick coupling plug
	Part No.	Type	Part No. Type
Male thread			
M5	4087	KD2-M5-A	531658 KS2-M5-A
Female thread			
M5	531620	KD2-M5-I	531660 KS2-M5-I
Quick connector with union nut			
CK-3	531621	KD2-CK-3	4091 KS2-CK-3
CK-4	531622	KD2-CK-4	4090 KS2-CK-4
Barbed fitting			
CN-4	531623	KD2-CN-4	531663 KS2-CN-4
Barbed bulkhead connector			
CN-4-S	531624	KD2-CN-4-S	531664 KS2-CN-4-S

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Quick connection coupling KD3/KS3

⌀ - Nominal size
5 mm

⌀ - Note
All quick coupling socket types of the same size are compatible with all plugs of this size.



Technical data	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure ¹⁾ [bar]	-0.95 ... +12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate ²⁾ [l/min]	Max. 666
Corrosion resistance classification CRC ³⁾	1

- 1) Safety factor 2.5
- 2) Measured at p₁ = 6 bar and Δp = 1 bar
- 3) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]	Male thread		Female thread	
	G ³ / ₈	G ¹ / ₄	G ¹ / ₈	G ¹ / ₄
Quick coupling sockets	28	35	32	47
Quick coupling plugs	13	23	16	27

Weights [g]	Quick connector			Barbed fitting	Barbed bulkhead connector
	CK-4	CK-6	CX-4	CN-6	CN-6-S
Quick coupling sockets	31	32	-	27	44
Quick coupling plugs	16	21	16	8	32

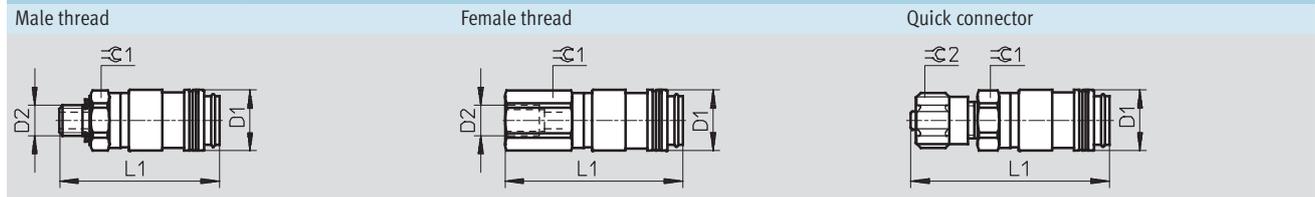
Materials	Quick coupling socket	Quick coupling plug
Housing	Brass, nickel-plated	Brass, nickel-plated ¹⁾
Releasing sleeve	Brass, nickel-plated	-

1) KS...CX quick coupling plug: brass

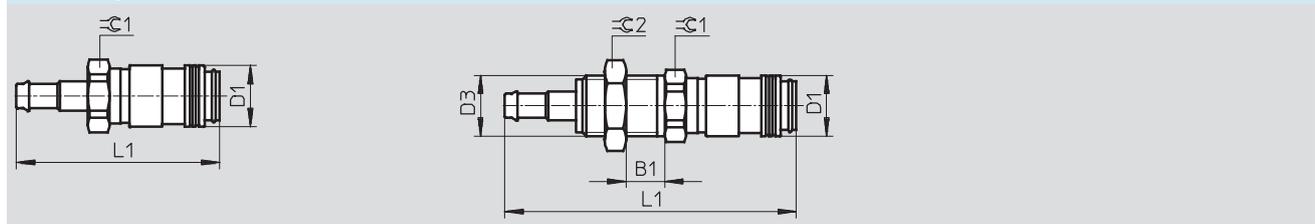
Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

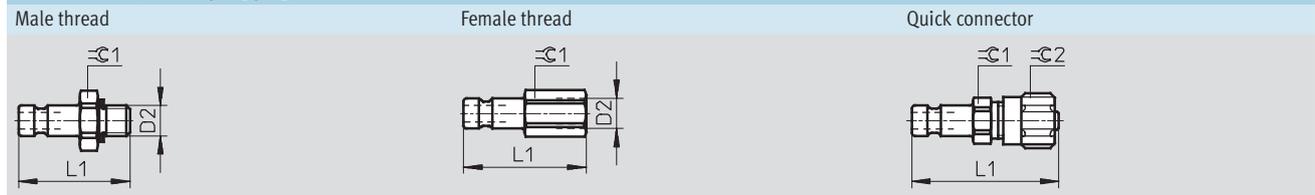
Dimensions – Quick coupling socket Download CAD data → www.festo.com



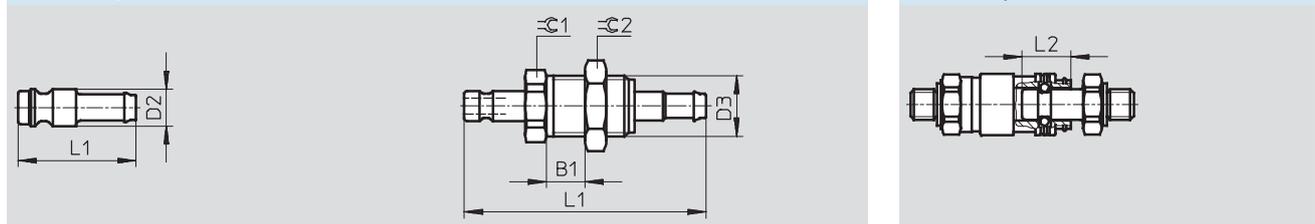
Barbed fitting **Barbed bulkhead connector**



Dimensions – Quick coupling plug Download CAD data → www.festo.com



Barbed fitting **Barbed bulkhead connector** **Insertion depth**



Type	B1	D1 ∅	D2	D3	L1		L2	∅C 1		∅C 2
					Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug	
Male thread										
G ¹ / ₈	-	16	G ¹ / ₈	-	36	25	13.6	14	13	-
G ¹ / ₄			G ¹ / ₄	-	37.6	27.6		17	17	
Female thread										
G ¹ / ₈	-	16	G ¹ / ₈	-	38.2	28	13.6	14	13	-
G ¹ / ₄			G ¹ / ₄	-	45.2	32.6		13.6	17	
Quick connector with union nut										
CK-4	-	16	-	-	43.1	34.5	13.6	14	12	12
CK-6					43.2	34.6			14	14
CX-4					-	43			-	14
Barbed fitting										
CN-6	-	16	9 d10	-	43.2	28.6	13.6	14	-	-
Barbed bulkhead connector										
CN-6-S	1,1 ... 10	16	-	M12x1	58.2	48.6	13.6	17	17	17

Quick coupling sockets/plugs KD/KS, shut-off on one side

FESTO

Technical data

Ordering data				
	Quick coupling socket		Quick coupling plug	
	Part No.	Type	Part No.	Type
Male thread				
G $\frac{3}{8}$	2142	KD3- $\frac{1}{8}$ -A	3492	KS3- $\frac{1}{8}$ -A
G $\frac{1}{4}$	531626	KD3- $\frac{1}{4}$ -A	531666	KS3- $\frac{1}{4}$ -A
Female thread				
G $\frac{3}{8}$	531627	KD3- $\frac{1}{8}$ -I	531668	KS3- $\frac{1}{8}$ -I
G $\frac{1}{4}$	531628	KD3- $\frac{1}{4}$ -I	531669	KS3- $\frac{1}{4}$ -I
Quick connector with union nut				
CK-4	531629	KD3-CK-4	3326	KS3-CK-4
CK-6	531630	KD3-CK-6	3478	KS3-CK-6
CX-4	-		4047	KS3-CX-4
Barbed fitting				
CN-6	531631	KD3-CN-6	531672	KS3-CN-6
Barbed bulkhead connector				
CN-6-S	531632	KD3-CN-6-S	531673	KS3-CN-6-S

Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Quick connection coupling KD4/KS4

- Releasing sleeve made from polymer material

⌀ - Nominal size
7.2 mm

⌀ - Note

All quick coupling socket types of the same size are compatible with all plugs of this size.



Technical data	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure ¹⁾ [bar]	-0.95 ... +12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate ²⁾ [l/min]	Max. 1,350
Corrosion resistance classification CRC ³⁾	1

1) Safety factor 2.5

2) Measured at p₁ = 6 bar and Δp = 1 bar

3) Corrosion resistance class 1 according to Festo standard 940 070

Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]	Male thread			Female thread		
	G ³ / ₄	G ³ / ₈	G ¹ / ₂	G ¹ / ₄	G ³ / ₈	G ¹ / ₂
Quick coupling sockets	57	62	78	88	82	86
Quick coupling plugs	21	29	55	31	32	57

Weights [g]	Quick connector					Bulkhead quick connector	Barbed fitting	
	CK-4	CK-6	CK-9	CX-6	CX-9	CK-9-S	N-6	N-9
Quick coupling sockets	-	63	71	-	-	97	-	57
Quick coupling plugs	26	26	26	34	61	69	15	18

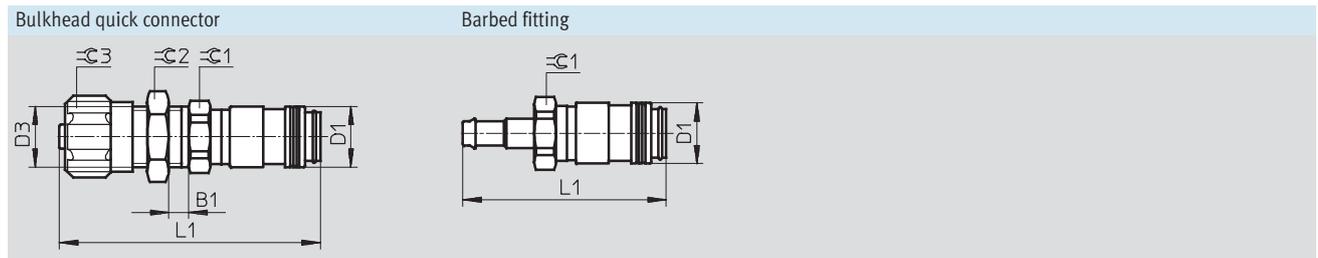
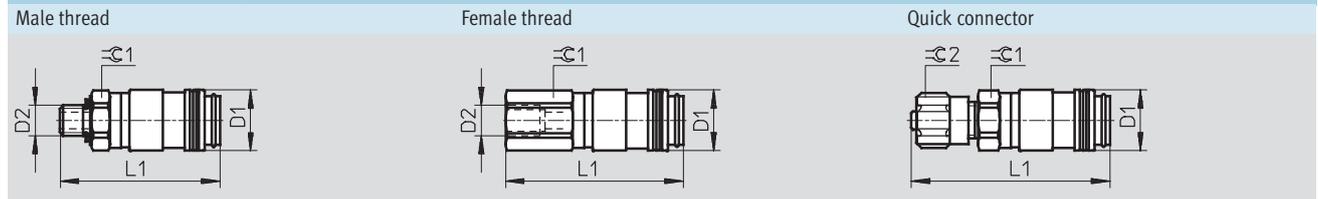
Materials		
	Quick coupling socket	Quick coupling plug
Housing	Brass, nickel-plated	Brass, nickel-plated ¹⁾
Releasing sleeve	Polypropylene	-

1) KS...-CX quick coupling plug: brass

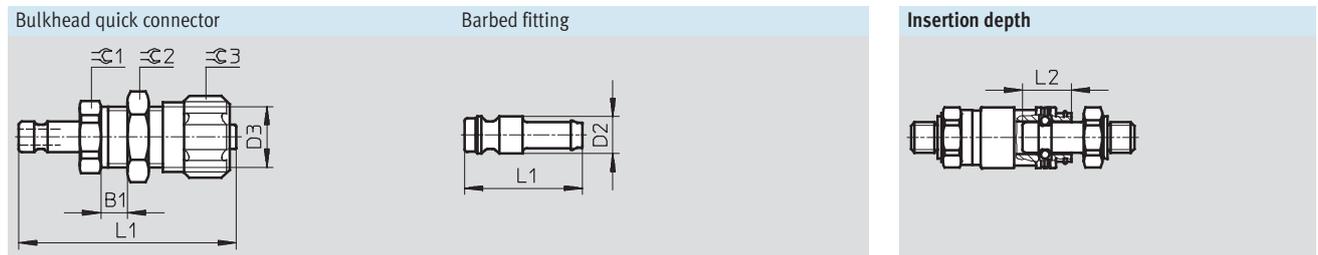
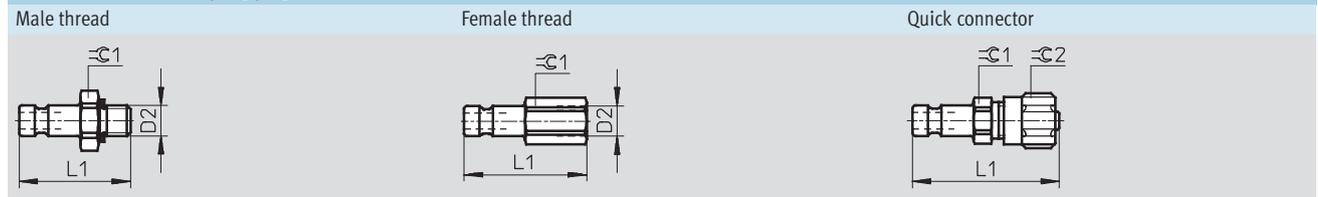
Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Dimensions – Quick coupling socket Download CAD data → www.festo.com



Dimensions – Quick coupling plug Download CAD data → www.festo.com



Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Type	B1	D1 Ø	D2	D3	L1		L2	=C 1		=C 2	=C 3	
					Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug			
Male thread												
G ¹ / ₄	-	26.4	G ¹ / ₄	-	40.5	32.5	14.95	22	17	-	-	
G ³ / ₈			G ³ / ₈		41.5	34			19			
G ¹ / ₂			G ¹ / ₂		43	37.5			24			24
Female thread												
G ¹ / ₄	-	26.4	G ¹ / ₄	-	46	38.5	14.95	22	17	-	-	
G ³ / ₈			G ³ / ₈		47.5	39.5			19			
G ¹ / ₂			G ¹ / ₂		50.5	44			24			24
Quick connector with union nut												
CK-4	-	-	-	-	-	40.2	14.95	-	17	12	-	
CK-6		26.4			46.4	40.3				14		
CK-9		-			49.8	43.7				19		19
CX-6		-			-	53				17		17
CX-9		-			-	60				19		22
Bulkhead quick connector with union nut												
CK-9-S	1,2 ... 18,2	26.4	-	M16x1	64.8	57.7	14.95	22	22	19	22	
Barbed fitting												
N-6	-	26.4	12	-	-	47	14.95	-	-	-	-	
N-9					56.2			21				

Ordering data												
				Quick coupling socket				Quick coupling plug				
				Part No.	Type			Part No.	Type			
Male thread												
G ¹ / ₄	2143			KD4- ¹ / ₄ -A				2154		KS4- ¹ / ₄ -A		
G ³ / ₈	2144			KD4- ³ / ₈ -A				2155		KS4- ³ / ₈ -A		
G ¹ / ₂	2145			KD4- ¹ / ₂ -A				531676		KS4- ¹ / ₂ -A		
Female thread												
G ¹ / ₄	531636			KD4- ¹ / ₄ -I				531678		KS4- ¹ / ₄ -I		
G ³ / ₈	531637			KD4- ³ / ₈ -I				531679		KS4- ³ / ₈ -I		
G ¹ / ₂	531638			KD4- ¹ / ₂ -I				531680		KS4- ¹ / ₂ -I		
Quick connector with union nut												
CK-4	-			-				2150		KS4-CK-4		
CK-6	531639			KD4-CK-6				2151		KS4-CK-6		
CK-9	531640			KD4-CK-9				531683		KS4-CK-9		
CX-6	-			-				4048		KS4-CX-6		
CX-9	-			-				4049		KS4-CX-9		
Bulkhead quick connector with union nut												
CK-9-S	531642			KD4-CK-9-S				531686		KS4-CK-9-S		
Barbed fitting												
N-6	-			-				2152		KS4-N-6		
N-9	531641			KD4-N-9				2153		KS4-N-9		

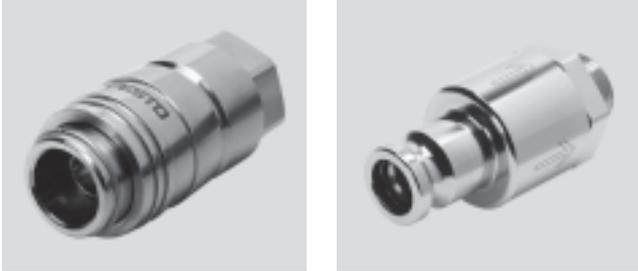
Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

Quick connection coupling KD5/KS5

⌀ - Nominal size
13 mm

⌀ - Note
All quick coupling socket types of the same size are compatible with all plugs of this size.



Technical data	
Operating medium	Filtered compressed air, lubricated or unlubricated
Operating pressure ¹⁾ [bar]	0 ... +12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate ²⁾ [l/min]	Max. 2 043
Corrosion resistance classification CRC ³⁾	1

- 1) Safety factor 2.5
- 2) Measured at p1 = 6 bar and Δp = 1 bar
- 3) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]	Male thread	Female thread	Quick connector	Barbed fitting
	G3/2	G1/2	CK-13	N-13
Quick coupling socket	-	413	-	-
Quick coupling plug	255	-	251	256

Materials	Quick coupling socket	Quick coupling plug
Housing	Galvanised steel	Galvanised steel
Releasing sleeve	Galvanised steel	-

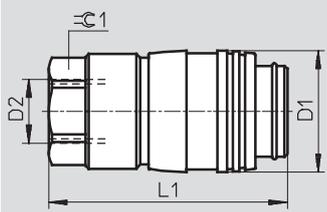
⌀ - Note
The non-return function means that the direction of flow must always follow the direction of the arrow.

Quick coupling sockets/plugs KD/KS, shut-off on one side

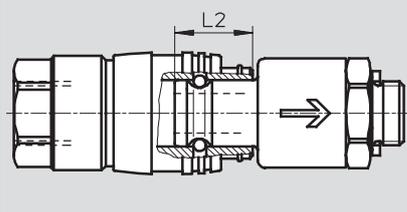
Technical data

Dimensions – Quick coupling socket Download CAD data → www.festo.com

Female thread

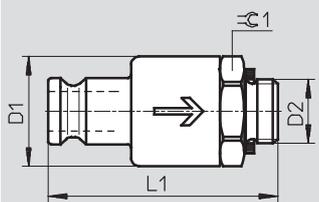


Insertion depth

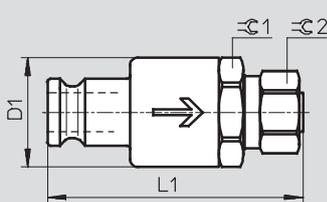


Dimensions – Quick coupling plug Download CAD data → www.festo.com

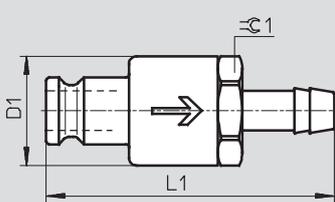
Male thread



Quick connector



Barbed fitting



Type	D1 Ø	D2	L1		L2	⌀1		⌀2
			Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug	
Female thread								
G½	40	G½	78	–	25.5	32	–	–
Male thread								
G½	36	G½	–	74.9	25.5	–	32	–
Quick connector with union nut								
CK-13	36	–	–	83.2	25.5	–	32	24
Barbed fitting								
N-13	36	–	–	94	25.5	–	32	–

Ordering data			
	Quick coupling sockets		Quick coupling plugs
	Part No.	Type	Part No. Type
Female thread			
G½	4088	KD5-½-1	–
Male thread			
G½	–	–	531687 KS5-½-A
Quick connector with union nut			
CK-13	–	–	4096 KS5-CK-13
Barbed fitting			
N-13	–	–	4089 KS5-N-13

Quick coupling sockets/plugs KD/KS, shut-off on both sides

Technical data

Quick connection coupling KD3-A-R/KS3-A-R

- After decoupling both parts are tight

 - Note
Only coupling plugs and sockets of the same function and size may be combined.

 - Nominal size
5 mm



KD3-...-A-R



KS3-...-A-R

 - Nominal size
7.2 mm



KD4-...-A-R



KS4-...-A-R

Technical data		KD3/KS3	KD4/KS4
Operating medium		Filtered compressed air, lubricated or unlubricated	
Operating pressure ¹⁾	[bar]	-0.95 ... +12	
Ambient temperature	[°C]	-10 ... +60	
Standard nominal flow rate ²⁾	[l/min]	Max. 666	1 350
Corrosion resistance classification	CRC ³⁾	1	

1) Safety factor 2.5

2) Measured at p1 = 6 bar and Δp = 1 bar

3) Corrosion resistance class 1 according to Festo standard 940 070

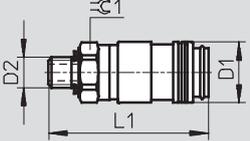
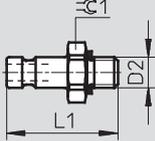
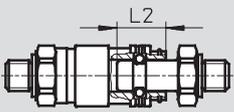
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]		
	KD3/KS3	KD4/KS4
	G ³ / ₈	G ¹ / ₄
Quick coupling socket	28	58
Quick coupling plug	32	46

Materials				
	Quick coupling socket	Quick coupling plug	Quick coupling socket	Quick coupling plug
	KD3	KS3	KD4	KS4
Housing	Brass		Brass	
Releasing sleeve	Brass	-	Polypropylene	-

Quick coupling sockets/plugs KD/KS, shut-off on both sides

Technical data

Dimensions		Download CAD data → www.festo.com
Quick coupling socket	Quick coupling plug	Insertion depth
Male thread		
		

Type	D1 Ø	D2	L1		L2	≅ 1	
			Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug
male thread							
G $\frac{1}{8}$	16	G $\frac{1}{8}$	36	39.8	13.6	14	14
G $\frac{1}{4}$	26.4	G $\frac{1}{4}$	40.5	42.5	14.95	22	22

Ordering data			
Connection	Quick coupling socket		Quick coupling plug
	Part No.	Type	Part No. Type
G $\frac{1}{8}$	531659	KD3- $\frac{1}{8}$ -A-R	531667 KS3- $\frac{1}{8}$ -A-R
G $\frac{1}{4}$	531694	KD4- $\frac{1}{4}$ -A-R	531677 KS4- $\frac{1}{4}$ -A-R

Quick coupling sockets/plugs KDMS/KDS/KSS, shut-off on one side

Technical data

Safety coupling

- Releasing sleeve made from brass material

Ø - Nominal size
7.8 mm



KDMS



KSS

Note

All quick coupling socket types of the same size are compatible with all plugs of this size.

Safety coupling

- Releasing sleeve made from polymer material

Ø - Nominal size
7.8 mm



KDS



KSS

Note

All quick coupling socket types of the same size are compatible with all plugs of this size.

Technical data		KDMS	KDS/KSS
Operating medium		Filtered compressed air, lubricated or unlubricated	
Operating pressure ¹⁾	[bar]	0 ... +12	-0.5 ... +12
Ambient temperature	[°C]	-10 ... +60	
Standard nominal flow rate ²⁾	[l/min]	Max. 2,043	Max. 1,818
Corrosion resistance classification	CRC ³⁾	1	
Approval			TÜV

1) Safety factor 2.5

2) Measured at p1 = 6 bar and Δp = 1 bar

3) Corrosion resistance class 1 according to Festo standard 940 070

Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]	Male thread				Female thread		
	G1/8	G1/4	G3/8	G1/2	G1/4	G3/8	G1/2
Quick coupling sockets KDMS-...	-	167	170	175	-	-	-
Quick coupling sockets KDS-...	-	93	96	111	125	115	121
Quick coupling plugs	19	20	27	50	28	29	49

Weights [g]	Quick connector		Bulkhead quick connector	Barbed fitting
	CK-9	CK-13	CK-9-S	N-9
Quick coupling sockets KDMS-...	-	-	-	-
Quick coupling sockets KDS-...	104	121	122	97
Quick coupling plugs	37	50	64	17

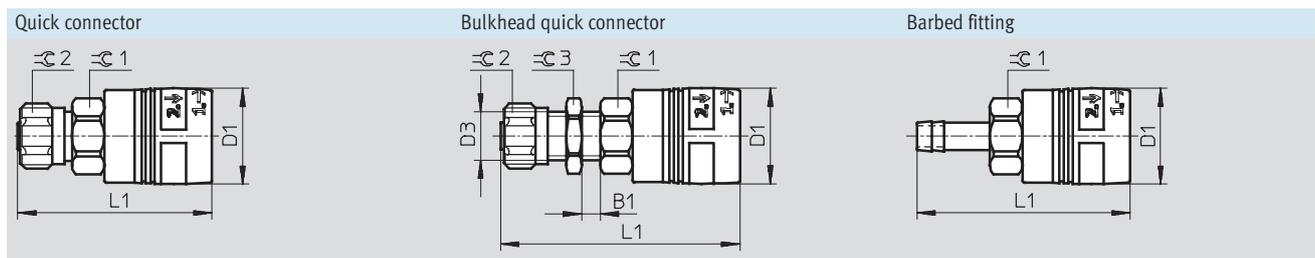
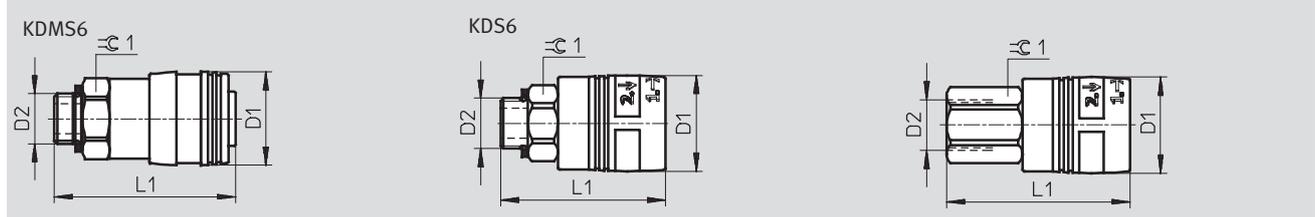
Materials	Quick coupling socket		Quick coupling plug
	KDMS	KDS	KSS
Housing	Brass, nickel-plated	Brass, nickel-plated	Hardened steel
Releasing sleeve	Brass, nickel-plated	Polyacetal	-

Quick coupling sockets/plugs KDMS/KDS/KSS, shut-off on one side

Technical data

Dimensions – Quick coupling socket Download CAD data → www.festo.com

Male thread Female thread



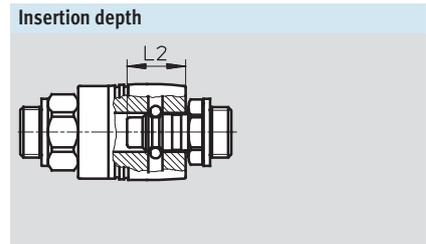
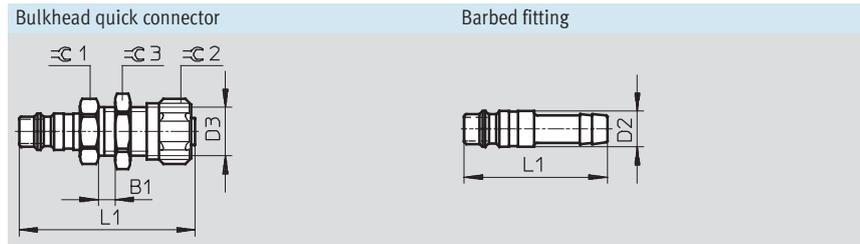
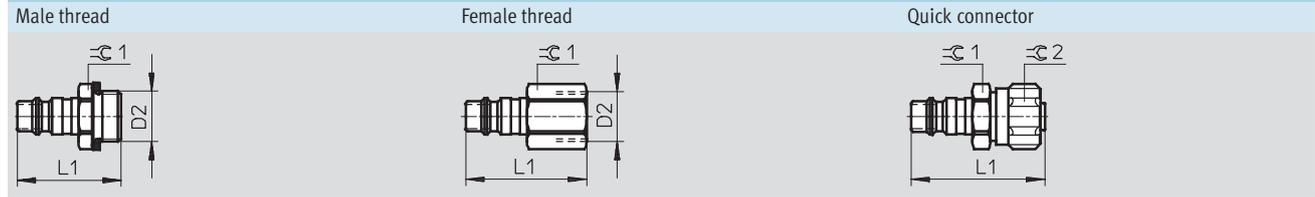
Type	B1	D1 Ø	D2	D3	L1	⌀ 1	⌀ 2	⌀ 3
Male thread quick coupling socket KDMS6								
G ¹ / ₄	-	31	G ¹ / ₄	-	59	24	-	-
G ³ / ₈			G ³ / ₈		60			
G ¹ / ₂			G ¹ / ₂		61.5			
Male thread quick coupling socket KDS6								
G ¹ / ₄	-	31.6	G ¹ / ₄	-	53	22	-	-
G ³ / ₈			G ³ / ₈		54	22		
G ¹ / ₂			G ¹ / ₂		55.5	24		
Female thread								
G ¹ / ₄	-	31.6	G ¹ / ₄	-	60	22	-	-
G ³ / ₈			G ³ / ₈		60	22		
G ¹ / ₂			G ¹ / ₂		63	24		
Quick connector with union nut								
CK-9	-	31.6	-	-	63.5	22	19	-
CK-13					64.5	24	24	
Bulkhead quick connector with union nut								
CK-9-S	1,2 ... 18,2	31.6	-	M16x1	78.5	22	19	22
Barbed fitting								
N-9	-	31.6	12	-	69.7	22	-	-

Quick coupling sockets/plugs KDMS/KDS/KSS, shut-off on one side

FESTO

Technical data

Dimensions – Quick coupling plug Download CAD data → www.festo.com



Type	B1	D2	D3	L1	L2	$\varnothing 1$	$\varnothing 2$	$\varnothing 3$
Male thread								
G $\frac{1}{8}$	-	G $\frac{1}{8}$	-	30.5	19.1	13	-	-
G $\frac{1}{4}$		G $\frac{1}{4}$		32.5		17		
G $\frac{3}{8}$		G $\frac{3}{8}$		34		19		
G $\frac{1}{2}$		G $\frac{1}{2}$		37.5		24		
Female thread								
G $\frac{1}{4}$	-	G $\frac{1}{4}$	-	38.5	19.1	17	-	-
G $\frac{3}{8}$		G $\frac{3}{8}$		39.5		19		
G $\frac{1}{2}$		G $\frac{1}{2}$		44		24		
Quick connector with union nut								
CK-9	-	-	-	43.7	19.1	19	19	-
CK-13				45.2		24	24	
Bulkhead quick connector with union nut								
CK-9-S	1,2 ... 18,2	-	M16x1	57.5	19.1	22	19	22
Barbed fitting								
N-9	-	12	-	47	19.1	-	-	-

Quick coupling sockets/plugs KDMS/KDS/KSS, shut-off on one side

Technical data

Ordering data				
Connection	Quick coupling socket		Quick coupling plug	
	Part No.	Type	Part No.	Type
Male thread, releasing sleeve made from brass material				
G $\frac{1}{4}$	151776	KDMS6- $\frac{1}{4}$ -A	151779	KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	151777	KDMS6- $\frac{3}{8}$ -A	151780	KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	151778	KDMS6- $\frac{1}{2}$ -A	531693	KSS6- $\frac{1}{2}$ -A
Male thread, releasing sleeve made from polymer material				
G $\frac{1}{8}$	-		151781	KSS6- $\frac{1}{8}$ -A
G $\frac{1}{4}$	531647	KDS6- $\frac{1}{4}$ -A	151779	KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	531648	KDS6- $\frac{3}{8}$ -A	151780	KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	531649	KDS6- $\frac{1}{2}$ -A	531693	KSS6- $\frac{1}{2}$ -A
Female thread				
G $\frac{1}{4}$	531650	KDS6- $\frac{1}{4}$ -I	531695	KSS6- $\frac{1}{4}$ -I
G $\frac{3}{8}$	531651	KDS6- $\frac{3}{8}$ -I	531696	KSS6- $\frac{3}{8}$ -I
G $\frac{1}{2}$	531652	KDS6- $\frac{1}{2}$ -I	531697	KSS6- $\frac{1}{2}$ -I
Quick connector with union nut				
CK-9	531653	KDS6-CK-9	531698	KSS6-CK-9
CK-13	531654	KDS6-CK-13	531699	KSS6-CK-13
Bulkhead quick connector with union nut				
CK-9-S	531656	KDS6-CK-9-S	531701	KSS6-CK-9-S
Barbed fitting				
N-9	531655	KDS6-N-9	531700	KSS6-N-9

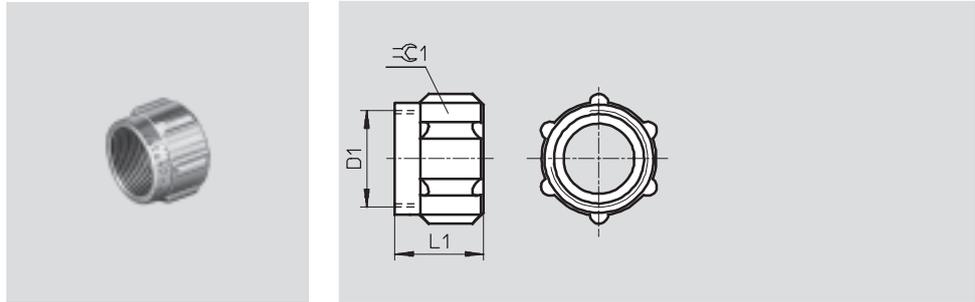
Union nuts MCK

Accessories



Union nut MCK¹⁾
for quick connector

Material:
Wrought aluminium alloy
Conforms to RoHS



Ordering data						
Nominal size [mm]	D1	L1	⊖C 1	Weight [g]	Part No.	Type
3	M6x0.75	8.5	8	0.6	533672	MCK-PK-3-KD
4	M10x1	11	12	1.6	533673	MCK-PK-4-KD
6	M12x1	11	14	1.9	533674	MCK-PK-6-KD
9	M16x1	14.4	19	5	533675	MCK-PK-9-KD
13	M22x1	18	24	8	533676	MCK-PK-13-KD

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Product Range and Company Overview

A Complete Suite of Automation Services

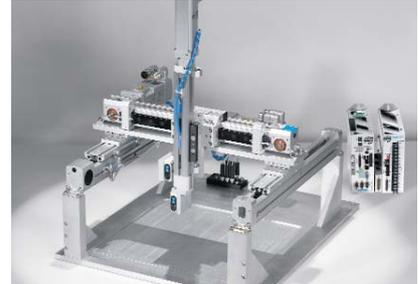
Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

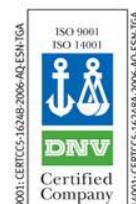
Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com