

Quick coupling sockets/plugs

FESTO



# Quick coupling sockets/plugs

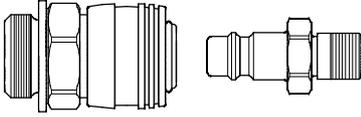
Key features

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## Mode of operation

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

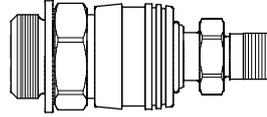
### Coupling



When coupling, the plug is pushed into the socket.

The plug engages automatically when it reaches a certain position.

### Decoupling

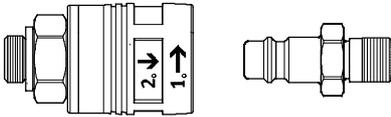


The plug is unlocked by pressing the releasing sleeve.

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

## Safety coupling

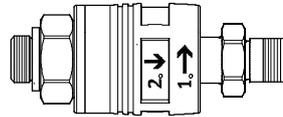
### Coupling



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.

# Quick coupling sockets/plugs

Product range overview

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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		For standard applications, without safety function	44	1.5	5
		KD1/KS1		139	2.7	7
		KD2/KS2		666	5	10
		KD3/KS3		1,350	7.2	13
		KD4/KS4		2,043	13	16
		KD5/KS5				
	Shut-off on both sides		Both ends are sealed during unlocking	666	5	18
	KD3-A-R/ KS3-A-R	1,350		7.2	18	
		KD4-A-R/KS4-A-R				
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	-	-	-	■	-	-

# Quick coupling sockets/plugs

Product range overview

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

1) Quick coupling socket, shut-off on both sides, KD...-A-R, G<sup>1</sup>/<sub>8</sub>, G<sup>1</sup>/<sub>4</sub> thread only

2) Quick coupling socket KDMS6, G<sup>1</sup>/<sub>4</sub>, G<sup>3</sup>/<sub>8</sub>, G<sup>1</sup>/<sub>2</sub> 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 <sup>1)</sup>	[bar]	-0.95 ... 12
Ambient temperature	[°C]	-10 ... +60
Standard nominal flow rate <sup>2)</sup>	[l/min]	Max. 44
Corrosion resistance classification	CRC <sup>3)</sup>	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.

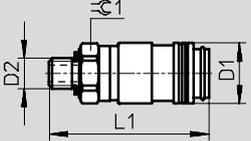
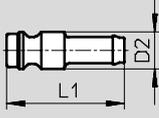
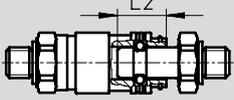
Weights [g]		
	With male thread M3	With barbed connector CN-2
Coupling socket	29	-
Coupling plug	-	4

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

Download CAD data → [www.festo.com](http://www.festo.com)

Dimensions		Insertion depth
Coupling socket Male thread	Coupling plug Barbed fitting	
		

Type	D1 Ø	D2	L1	L2	≈C 1
<b>Coupling socket</b>					
M3	6.5	M3	18.5	4.6	6
<b>Coupling plug</b>					
CN-2	4	-	12	4.6	-

<b>Ordering data</b>				
Connection	Coupling socket		Coupling plug	
	Part No.	Type	Part No.	Type
<b>Male thread</b>				
M3	151 995	KD1-M3-A	-	-
<b>Barbed fitting</b>				
CN-2	-	-	151 996	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 <sup>1)</sup> [bar]	-0.95 ... 12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate <sup>2)</sup> [l/min]	Max. 139
Corrosion resistance classification CRC <sup>3)</sup>	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

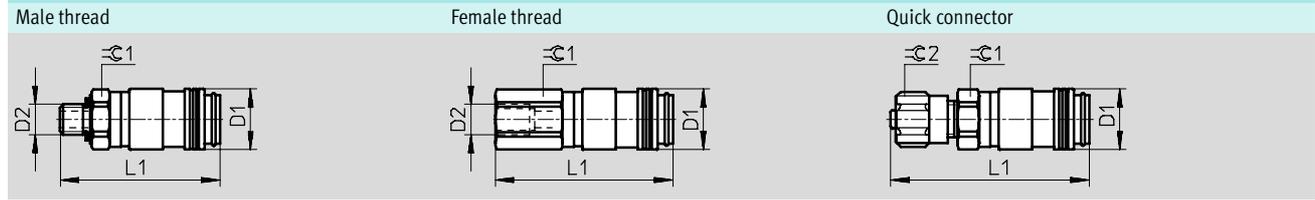
Weights [g]	Barbed fitting	Barbed bulkhead connector
	CN4	CN-4-S
Quick coupling sockets	11	21
Quick coupling plugs	5	16

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

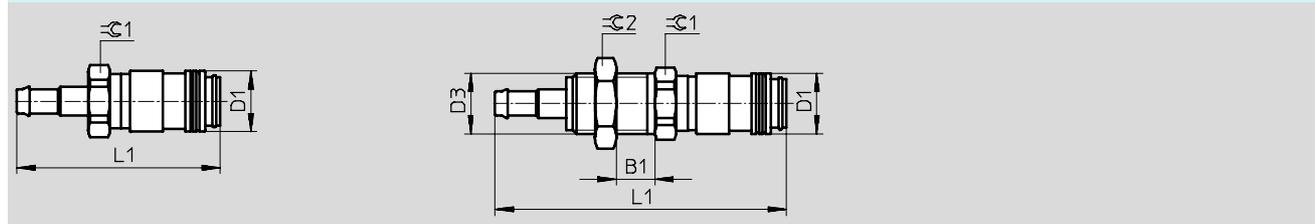
# Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

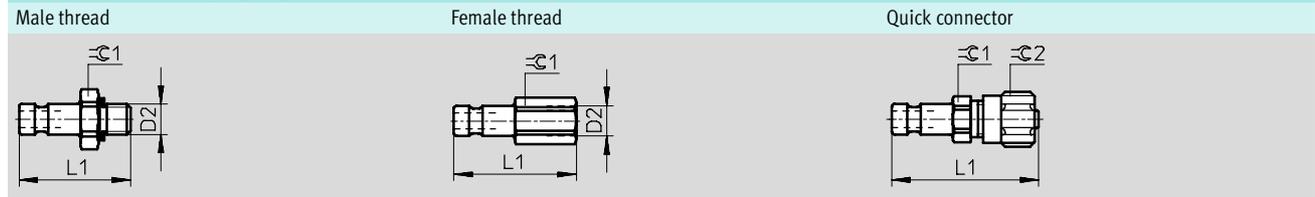
## Dimensions – Quick coupling socket Download CAD data → [www.festo.com](http://www.festo.com)



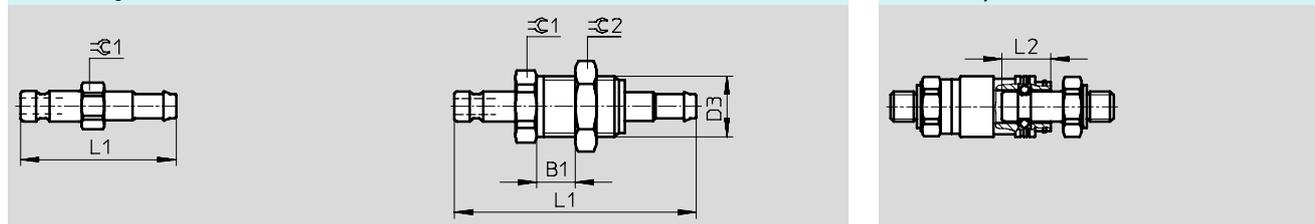
## Barbed fitting Download CAD data → [www.festo.com](http://www.festo.com)



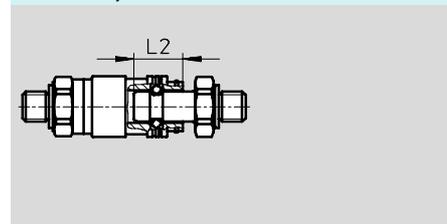
## Dimensions – Quick coupling plug Download CAD data → [www.festo.com](http://www.festo.com)



## Barbed fitting Download CAD data → [www.festo.com](http://www.festo.com)



## Insertion depth



Type	B1	D1 ∅	D2	D3	L1		L2	C1		C2
					Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug	
<b>Male thread</b>										
M5	-	10	M5	-	26.25	18.2	7.95	9	9	-
<b>Female thread</b>										
M5	-	10	M5	-	29.05	20	7.95	9	7	-
<b>Quick connector with union nut</b>										
CK-3	-	10	-	-	32.55	24	7.95	9	7	8
CK-4					35.75	27.2		11	11	12
<b>Barbed fitting</b>										
CN-4	-	10	-	-	33.25	25.4	7.95	11	7	-
<b>Barbed bulkhead connector</b>										
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	4 087	KD2-M5-A	531 658	KS2-M5-A
Female thread				
M5	531 620	KD2-M5-I	531 660	KS2-M5-I
Quick connector with union nut				
CK-3	531 621	KD2-CK-3	4 091	KS2-CK-3
CK-4	531 622	KD2-CK-4	4 090	KS2-CK-4
Barbed fitting				
CN-4	531 623	KD2-CN-4	531 663	KS2-CN-4
Barbed bulkhead connector				
CN-4-S	531 624	KD2-CN-4-S	531 664	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 <sup>1)</sup> [bar]	-0.95 ... 12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate <sup>2)</sup> [l/min]	Max. 666
Corrosion resistance classification CRC <sup>3)</sup>	1

- 1) Safety factor 2.5
- 2) Measured at p<sub>1</sub> = 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 <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>
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

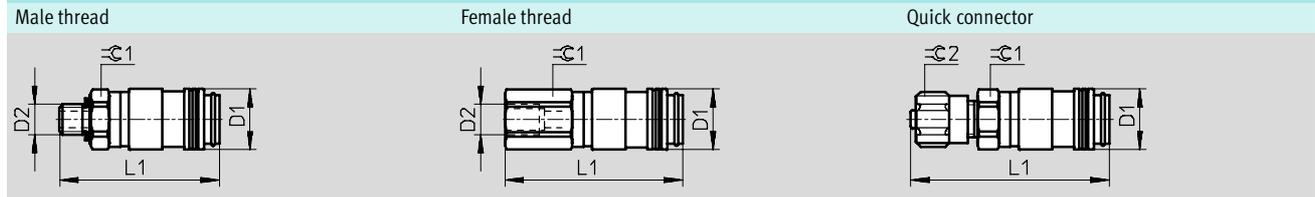
Materials	Quick coupling socket	Quick coupling plug
Housing	Brass, nickel-plated	Brass, nickel-plated <sup>1)</sup>
Releasing sleeve	Brass, nickel-plated	-

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

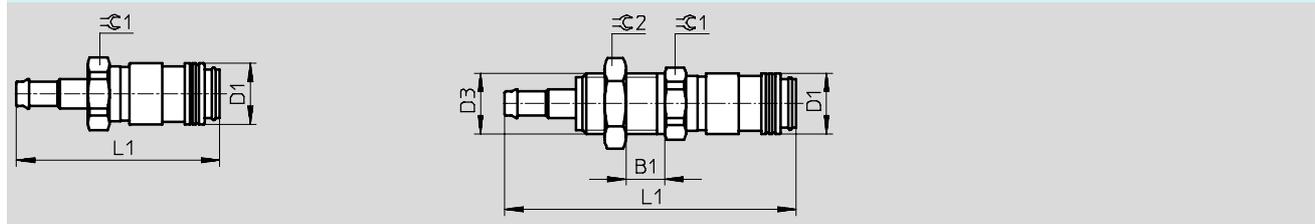
# Quick coupling sockets/plugs KD/KS, shut-off on one side

Technical data

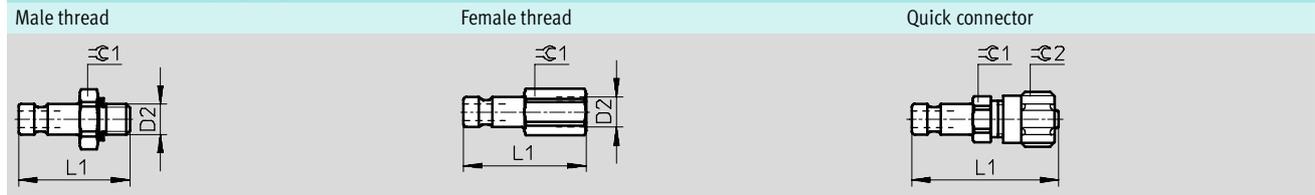
**Dimensions – Quick coupling socket** Download CAD data → [www.festo.com](http://www.festo.com)



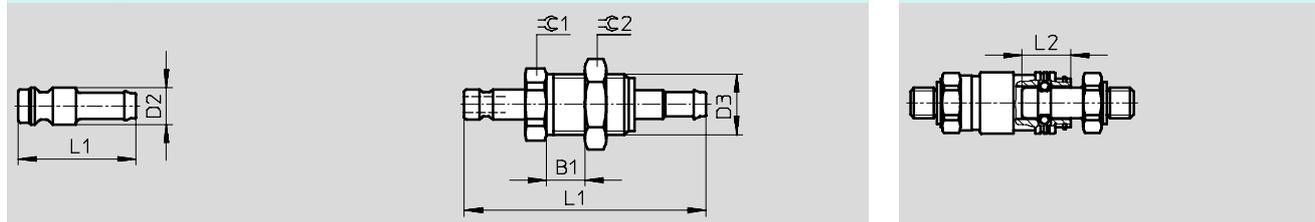
**Barbed fitting** **Barbed bulkhead connector**



**Dimensions – Quick coupling plug** Download CAD data → [www.festo.com](http://www.festo.com)



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



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

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Technical data

Ordering data				
	Quick coupling socket		Quick coupling plug	
	Part No.	Type	Part No.	Type
<b>Male thread</b>				
G $\frac{1}{8}$	2 142	KD3- $\frac{1}{8}$ -A	3 492	KS3- $\frac{1}{8}$ -A
G $\frac{1}{4}$	531 626	KD3- $\frac{1}{4}$ -A	531 666	KS3- $\frac{1}{4}$ -A
<b>Female thread</b>				
G $\frac{1}{8}$	531 627	KD3- $\frac{1}{8}$ -I	531 668	KS3- $\frac{1}{8}$ -I
G $\frac{1}{4}$	531 628	KD3- $\frac{1}{4}$ -I	531 669	KS3- $\frac{1}{4}$ -I
<b>Quick connector with union nut</b>				
CK-4	531 629	KD3-CK-4	3 326	KS3-CK-4
CK-6	531 630	KD3-CK-6	3 478	KS3-CK-6
CX-4	-		4 047	KS3-CX-4
<b>Barbed fitting</b>				
CN-6	531 631	KD3-CN-6	531 672	KS3-CN-6
<b>Barbed bulkhead connector</b>				
CN-6-S	531 632	KD3-CN-6-S	531 673	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 <sup>1)</sup> [bar]	-0.95 ... 12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate <sup>2)</sup> [l/min]	Max. 1,350
Corrosion resistance classification CRC <sup>3)</sup>	1

- Safety factor 2.5
- Measured at p<sub>1</sub> = 6 bar and Δp = 1 bar
- 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 <sup>1</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>2</sub>	G <sup>1</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>2</sub>
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 <sup>1)</sup>
Releasing sleeve	Polypropylene	-

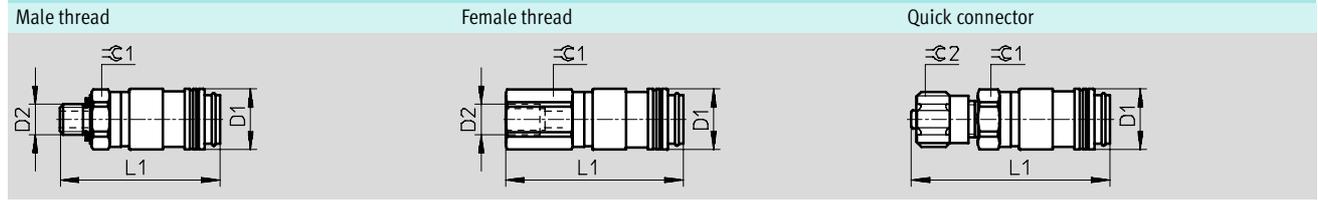
1) KS...-CX quick coupling plug: brass

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

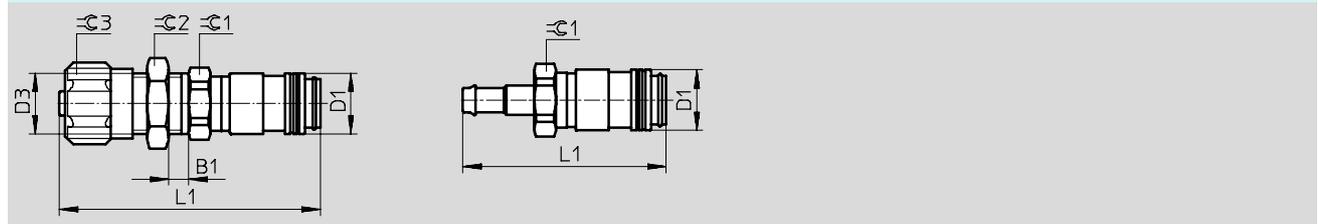
Technical data

## Dimensions – Quick coupling socket

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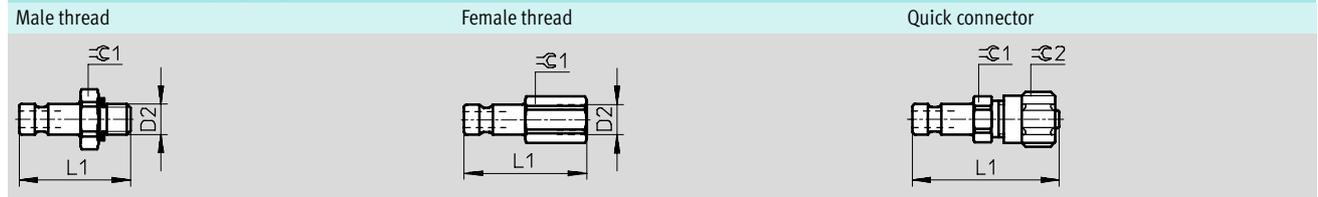


Bulkhead quick connector	Barbed fitting
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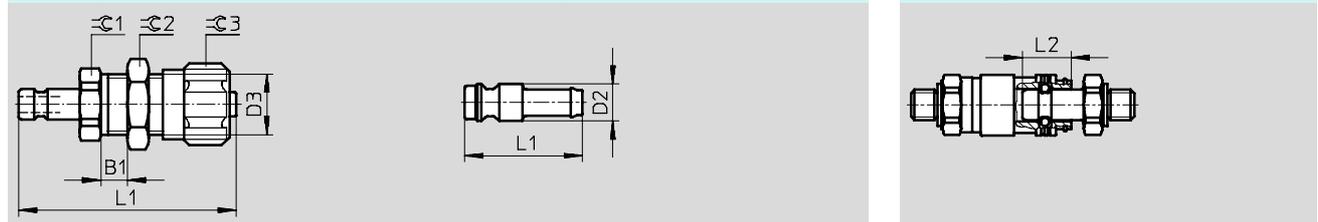


## Dimensions – Quick coupling plug

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Bulkhead quick connector	Barbed fitting	Insertion depth
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# Quick coupling sockets/plugs KD/KS, shut-off on one side

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Technical data

Type	B1	D1 ∅	D2	D3	L1		L2	=C 1		=C 2	=C 3
					Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug		
<b>Male thread</b>											
G $\frac{1}{4}$	-	26.4	G $\frac{1}{4}$	-	40.5	32.5	14.95	22	17	-	-
G $\frac{3}{8}$			G $\frac{3}{8}$		41.5	34			19		
G $\frac{1}{2}$			G $\frac{1}{2}$		43	37.5			24		
<b>Female thread</b>											
G $\frac{1}{4}$	-	26.4	G $\frac{1}{4}$	-	46	38.5	14.95	22	17	-	-
G $\frac{3}{8}$			G $\frac{3}{8}$		47.5	39.5			19		
G $\frac{1}{2}$			G $\frac{1}{2}$		50.5	44			24		
<b>Quick connector with union nut</b>											
CK-4	-	-	-	-	-	40.2	14.95	22	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	
<b>Bulkhead quick connector with union nut</b>											
CK-9-S	1,2 ... 18,2	26.4	-	M16x1	64.8	57.7	14.95	22	22	19	22
<b>Barbed fitting</b>											
N-6	-	26.4	12	-	-	47	14.95	-	-	-	-
N-9					56.2			21			

<b>Ordering data</b>											
				Quick coupling socket				Quick coupling plug			
		Part No.	Type							Part No.	Type
<b>Male thread</b>											
G $\frac{1}{4}$	2 143	KD4- $\frac{1}{4}$ -A				2 154	KS4- $\frac{1}{4}$ -A				
G $\frac{3}{8}$	2 144	KD4- $\frac{3}{8}$ -A				2 155	KS4- $\frac{3}{8}$ -A				
G $\frac{1}{2}$	2 145	KD4- $\frac{1}{2}$ -A				531 676	KS4- $\frac{1}{2}$ -A				
<b>Female thread</b>											
G $\frac{1}{4}$	531 636	KD4- $\frac{1}{4}$ -I				531 678	KS4- $\frac{1}{4}$ -I				
G $\frac{3}{8}$	531 637	KD4- $\frac{3}{8}$ -I				531 679	KS4- $\frac{3}{8}$ -I				
G $\frac{1}{2}$	531 638	KD4- $\frac{1}{2}$ -I				531 680	KS4- $\frac{1}{2}$ -I				
<b>Quick connector with union nut</b>											
CK-4	-					2 150	KS4-CK-4				
CK-6	531 639	KD4-CK-6				2 151	KS4-CK-6				
CK-9	531 640	KD4-CK-9				531 683	KS4-CK-9				
CX-6	-					4 048	KS4-CX-6				
CX-9	-					4 049	KS4-CX-9				
<b>Bulkhead quick connector with union nut</b>											
CK-9-S	531 642	KD4-CK-9-S				531 686	KS4-CK-9-S				
<b>Barbed fitting</b>											
N-6	-					2 152	KS4-N-6				
N-9	531 641	KD4-N-9				2 153	KS4-N-9				

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

FESTO

Technical data

## Quick connection coupling KD5/KS5

Ø - 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 <sup>1)</sup> [bar]	-0.95 ... +12
Ambient temperature [°C]	-10 ... +60
Standard nominal flow rate <sup>2)</sup> [l/min]	Max. 2 043
Corrosion resistance classification CRC <sup>3)</sup>	1

- 1) Safety factor 2.5
- 2) Measured at p<sub>1</sub> = 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
	G <sup>1</sup> / <sub>2</sub>	G <sup>1</sup> / <sub>2</sub>	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	-

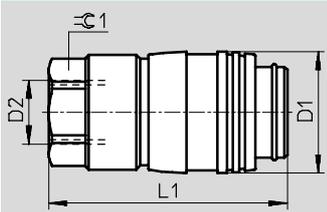
⌀ - Note  
The non-return function means that the direction of flow must always follow the direction of the arrow.

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

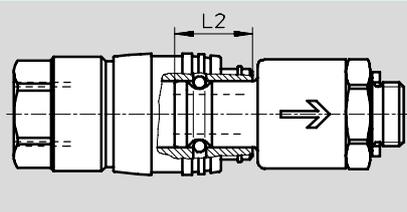
Technical data

**Dimensions – Quick coupling socket** Download CAD data → [www.festo.com](http://www.festo.com)

Female thread

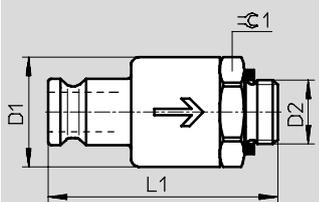
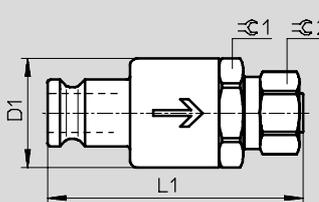
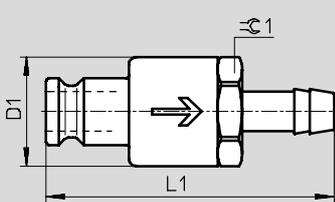


Insertion depth



**Dimensions – Quick coupling plug** Download CAD data → [www.festo.com](http://www.festo.com)

Male thread                      Quick connector                      Barbed fitting

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

<b>Ordering data</b>			
	Quick coupling sockets		Quick coupling plugs
	Part No.	Type	Part No. Type
<b>Female thread</b>			
G½	4 088	KD5-½-1	–
<b>Male thread</b>			
G½	–	–	531 687 KS5-½-A
<b>Quick connector with union nut</b>			
CK-13	–	–	4 096 KS5-CK-13
<b>Barbed fitting</b>			
N-13	–	–	4 089 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

- For applications involving liquid media

 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 <sup>1)</sup>	[bar]	-0.95 ... 12	
Ambient temperature	[°C]	-10 ... +60	
Standard nominal flow rate <sup>2)</sup>	[l/min]	Max. 666	1 350
Corrosion resistance classification	CRC <sup>3)</sup>	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.

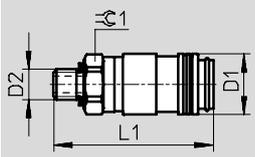
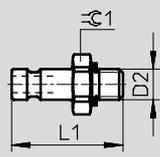
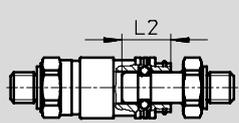
Weights [g]		KD3/KS3	KD4/KS4
		G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>
Quick coupling socket		28	58
Quick coupling plug		32	46

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](http://www.festo.com)

Quick coupling socket Male thread	Quick coupling plug	Insertion depth
		

Type	D1 Ø	D2	L1		L2	≈ 1	
			Quick coupling socket	Quick coupling plug		Quick coupling socket	Quick coupling plug
male thread							
G <sup>1</sup> / <sub>8</sub>	16	G <sup>1</sup> / <sub>8</sub>	36	39.8	13.6	14	14
G <sup>1</sup> / <sub>4</sub>	26.4	G <sup>1</sup> / <sub>4</sub>	40.5	42.5	14.95	22	22

Ordering data				
Connection	Quick coupling socket		Quick coupling plug	
	Part No.	Type	Part No.	Type
G <sup>1</sup> / <sub>8</sub>	531 659	KD3- <sup>1</sup> / <sub>8</sub> -A-R	531 667	KS3- <sup>1</sup> / <sub>8</sub> -A-R
G <sup>1</sup> / <sub>4</sub>	531 694	KD4- <sup>1</sup> / <sub>4</sub> -A-R	531 677	KS4- <sup>1</sup> / <sub>4</sub> -A-R

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

FESTO

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 <sup>1)</sup>	[bar]	0 ... +12	-0.5 ... +12
Ambient temperature	[°C]	-10 ... +60	
Standard nominal flow rate <sup>2)</sup>	[l/min]	Max. 2,043	Max. 1,818
Corrosion resistance classification	CRC <sup>3)</sup>	1	
Approval			TÜV

1) Safety factor 2.5

2) Measured at p<sub>1</sub> = 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 <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>2</sub>	G <sup>1</sup> / <sub>4</sub>	G <sup>3</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>2</sub>
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

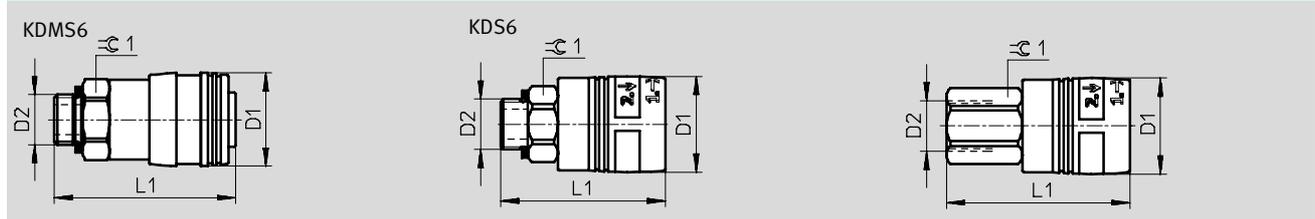
Materials	Quick coupling socket		Quick coupling plug
	KDMS	KDS	KSS
Housing	Brass, nickel-plated	Brass, nickel-plated	Hardened steel
Releasing sleeve	Brass, nickel-plated	Polyacetal	-

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

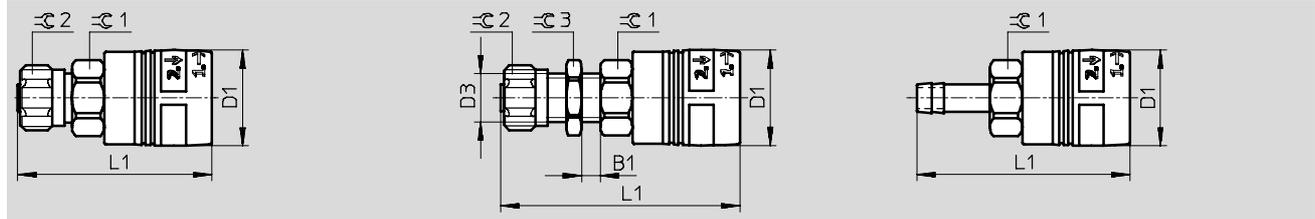
Technical data

Dimensions – Quick coupling socket Download CAD data → [www.festo.com](http://www.festo.com)

Male thread Female thread



Quick connector Bulkhead quick connector Barbed fitting

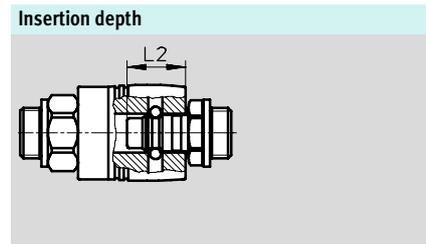
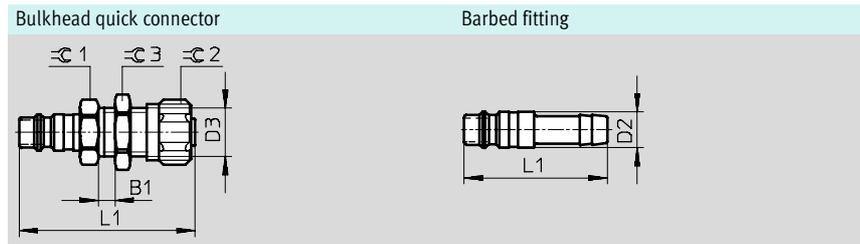
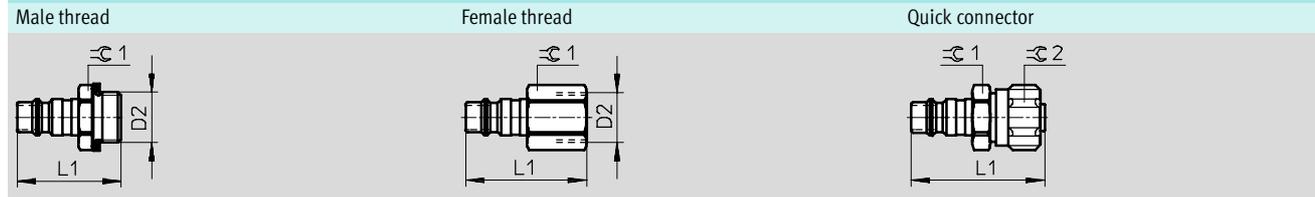


Type	B1	D1 Ø	D2	D3	L1	⌀ 1	⌀ 2	⌀ 3
<b>Male thread quick coupling socket KDMS6</b>								
G <sup>1</sup> / <sub>4</sub>	-	31	G <sup>1</sup> / <sub>4</sub>	-	59	24	-	-
G <sup>3</sup> / <sub>8</sub>			G <sup>3</sup> / <sub>8</sub>		60			
G <sup>1</sup> / <sub>2</sub>			G <sup>1</sup> / <sub>2</sub>		61.5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

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

Technical data

Dimensions – Quick coupling plug Download CAD data → [www.festo.com](http://www.festo.com)



Type	B1	D2	D3	L1	L2	$\varnothing 1$	$\varnothing 2$	$\varnothing 3$
<b>Male thread</b>								
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		
<b>Female thread</b>								
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		
<b>Quick connector with union nut</b>								
CK-9	-	-	-	43.7	19.1	19	19	-
CK-13				45.2		24	24	
<b>Bulkhead quick connector with union nut</b>								
CK-9-S	1,2 ... 18,2	-	M16x1	57.5	19.1	22	19	22
<b>Barbed fitting</b>								
N-9	-	12	-	47	19.1	-	-	-

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

FESTO

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 $\frac{1}{4}$	151 776	KDMS6- $\frac{1}{4}$ -A	151 779 KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	151 777	KDMS6- $\frac{3}{8}$ -A	151 780 KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	151 778	KDMS6- $\frac{1}{2}$ -A	531 693 KSS6- $\frac{1}{2}$ -A
Male thread, releasing sleeve made from polymer material			
G $\frac{1}{8}$	-		151 781 KSS6- $\frac{1}{8}$ -A
G $\frac{1}{4}$	531 647	KDS6- $\frac{1}{4}$ -A	151 779 KSS6- $\frac{1}{4}$ -A
G $\frac{3}{8}$	531 648	KDS6- $\frac{3}{8}$ -A	151 780 KSS6- $\frac{3}{8}$ -A
G $\frac{1}{2}$	531 649	KDS6- $\frac{1}{2}$ -A	531 693 KSS6- $\frac{1}{2}$ -A
Female thread			
G $\frac{1}{4}$	531 650	KDS6- $\frac{1}{4}$ -I	531 695 KSS6- $\frac{1}{4}$ -I
G $\frac{3}{8}$	531 651	KDS6- $\frac{3}{8}$ -I	531 696 KSS6- $\frac{3}{8}$ -I
G $\frac{1}{2}$	531 652	KDS6- $\frac{1}{2}$ -I	531 697 KSS6- $\frac{1}{2}$ -I
Quick connector with union nut			
CK-9	531 653	KDS6-CK-9	531 698 KSS6-CK-9
CK-13	531 654	KDS6-CK-13	531 699 KSS6-CK-13
Bulkhead quick connector with union nut			
CK-9-S	531 656	KDS6-CK-9-S	531 701 KSS6-CK-9-S
Barbed fitting			
N-9	531 655	KDS6-N-9	531 700 KSS6-N-9

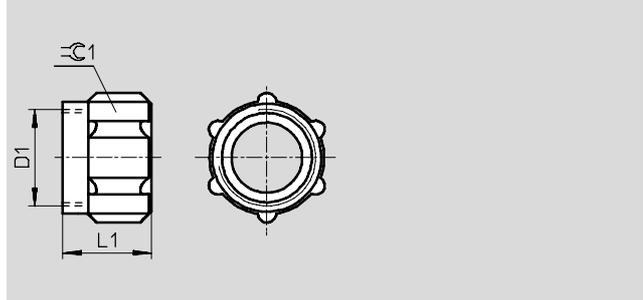
# Union nuts MCK

Accessories

FESTO

**Union nut MCK<sup>1)</sup>**  
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	533 672	MCK-PK-3-KD
4	M10x1	11	12	1.6	533 673	MCK-PK-4-KD
6	M12x1	11	14	1.9	533 674	MCK-PK-6-KD
9	M16x1	14.4	19	5	533 675	MCK-PK-9-KD
13	M22x1	18	24	8	533 676	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.