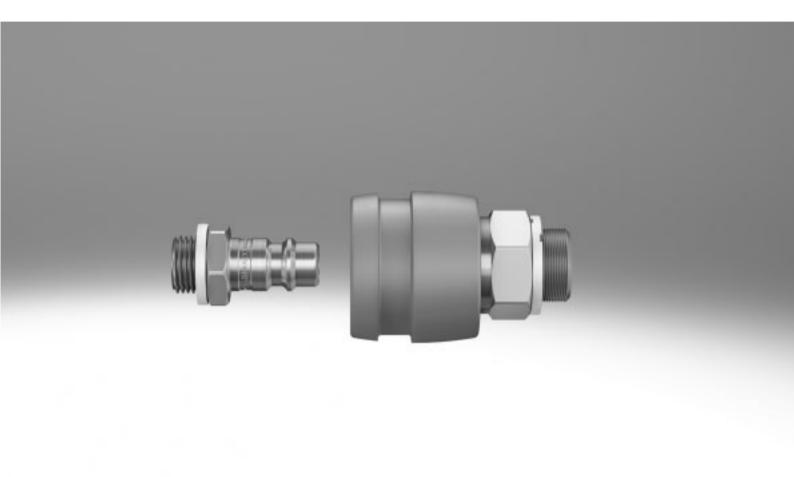
Quick coupling sockets/plugs



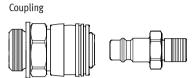


Quick coupling sockets/plugs

Key features

Mode of operation

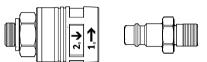
Plug-in coupling with quick coupling socket KD and quick coupling plug KS, shut-off at one or both ends



To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.

Safety coupling with quick coupling socket KDS and quick coupling plug KSS

Coupling



To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.

Note

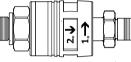
The maximum pressure that should be applied when mating and releasing the couplings is 10 bar.

Uncoupling

Uncoupling

To unlock, push the releasing sleeve.

When uncoupling it is important to hold the quick coupling plug until it is fully vented.



To vent, start by turning the re-1. leasing sleeve. This releases the pin locking mechanism of the coupling. The plug moves approx. 5 mm out of the coupling and is held in this position by the ball locking mechanism of the coupling. The air from the

plug and the components connected to it can escape. The air on the coupling side is shut off.

2. Then unlock the plug fully by pulling the releasing sleeve. The plug should only be removed after all the air has been vented.

Quick coupling sockets/plugs

Key features

Mode of operation

Quick coupling socket NPHS-D6-M and quick coupling plug NPHS-S6 Coupling



To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.



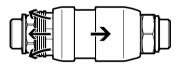
When the plug is engaged, the releasing sleeve shifts one position in the direction of the plug. This releases the locking mechanism between the releasing sleeve and the sliding sleeve. The sliding sleeve can now be actuated.

Pressurising



To pressurise, slide the sliding sleeve in the direction of the plug.

Exhausting



To exhaust, slide the sliding sleeve in the direction of the thread on the quick coupling socket. The air from the plug and the components connected to it can escape. The air on the coupling side is shut off. The releasing sleeve is now accessible.

been exhausted. With the plug re-

or be pushed.

moved, the two sleeves cannot slide

Decoupling



Unlock the plug fully by pushing the releasing sleeve. The plug should only be removed after all the air has

- 闄 - Note

Pressurise or exhaust the coupling to a maximum of 10 bar only. Hearing protection is recommended, especially at higher operating pressures. Exhausting

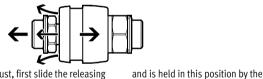
Coupling

To lock the coupling, push the plug

into the socket. The plug automatic-

ally engages with an audible click

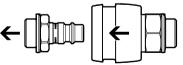
when in a specific position. In the



Quick coupling socket NPHS-D6-P and quick coupling plug NPHS-S6

To exhaust, first slide the releasing sleeve in the direction of the thread on the quick coupling socket. This releases the pin locking mechanism of the coupling. The plug moves approx. 5 mm out of the coupling

Decoupling



Next release the plug from the ball locking mechanism by pulling the releasing sleeve. This releases the plug completely so that it can be removed from the socket. The plug should only be removed after all the air has been exhausted.

ball locking mechanism of the coup-

escape. The air on the coupling side

ling. The air from the plug and the

components connected to it can

is shut off.

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process, the releasing sleeve moves

briefly backwards and then forwards

again.

2017/05 – Subject to change

Quick coupling sockets/plugs Product range overview

Function	Version	Туре	Brief description	Standard nominal flow rate [l/min]	Nominal width [mm]	→ Page/Internet
Plug-in coupling	Shut off on one	side				
		KD1/KS1	For standard applications, without	44	1.5	6
		KD2/KS2	safety function	68 139	2 3.2	8
		KD3/KS3		158 666	2.9 5	11
		KD4/KS4		252 1350	2.9 10	14
		KD5/KS5		1710 2043	11 13	18
	Shut off on both	n sides				
		KD3R/	Both sides are sealed after unlocking	563	4.2 5	20
		KS3R				
	Oluber -	KD4R/		765	8	20
		KS4R				
Safety coupling	Shut off on one	side				
		KDS6/KSS6	Exhaust the air on the plug side by turning the releasing sleeve and then unlocking the coupling	882 1818	5 10	22
-		NPHS-D6-M/ NPHS-S6	Exhaust the air on the plug side by sliding the sliding sleeve and then unlocking the coupling	1750 2100	5.5 10	27
	CO)P	NPHS-D6-P/ NPHS-S6	Exhaust the air on the plug side by pushing the releasing sleeve and then unlocking the coupling	875 2083	5 11	27

Tubing		Quick couplin	Quick coupling socket/plug										
		KD1/KS1	KD2/KS2	KD3/KS3	KD4/KS4	KD5/KS5	KDS6/KSS6	NPHS-D6/ NPHS-S6					
With standard I.D.	Polyurethane												
	PU-9	-	-	-		-							
	PU-13	-	-	-	-			-					
	Nitrile rubbe	r											
P-6 P-9	P-6	-	-	-		-	-	-					
	-	-	-		-								
	P-13	-	-	-	-			-					
With standard O.D.	Polyurethane	5											
	PUN-3		-	-	-	-	-	-					
	PUN-4	-		-	-	-	-	-					
	PUN-6	-		•		-	-	-					
	PUN-8	-	-			-	-	-					
	Polyamide												
	PAN-4	-		-	-	-	-	-					
	PAN-6	-		•	•	-	-	-					
	PAN-8	-	-			-	-	-					

Quick coupling sockets/plugs Product range overview

Quick coupling Connection					Size 31)	Size 31 ⁾ Size 4 ¹⁾			Size 5		Size 6		Size 6	
connection	Socket	Plug KS1		Plug KS2		Plug KS3				Plug	Socket	Plug		
	KD1	Plug K31	KD2	Plug K32	KD3	Flug KSS	KD4	Plug K34	KD5	Plug KSS	KDS6	KSS6	NPHS- D6	NPHS-Se
Male thread														
M3		-	-	-	-	-	-	-	-	-	-	-	-	-
M5	-	-			-	-	-	-	-	-	-	-	-	-
G1⁄8	-	-	-	-			-	-	-	-	-		-	
G1⁄4	-	-	-	-					-	-				
G3⁄8	-	-	-	-	-	-			-	-				
G1⁄2	-	-	-	-	-	-			-					
Female thread														
M5	-	-			-	-	-	-	-	-	-	-	-	-
G1⁄8	-	-	-	-			-	-	-	-	-	-	-	-
G1⁄4	-	-	-	-					-	-			-	
G3⁄8	-	-	-	-	-	-			-	-			-	
G1⁄2	-	-	-	-	-	-				-			-	
Quick connect	arwith union	nut												
CK-3	-	-			_	-	-	_	-	-	_	-	-	-
CK-4	_	_					_		-	_	-	-	_	_
СК-6	-	_	-	-				-	-	_	-	-	_	_
СК-9	-	-	-	_	_	-		-	-	-			_	_
СК-13	-	-	-	-	-	-	-	-	-		-		-	-
		1	1		1	1	1				1			1
Bulkhead quic			1	1	1	1		1 -	1			T _	1	1
СК-9	-	-	-	-	-	-			-	-			-	-
Barbed fitting														
CN-2	-		-	-	-	-	-	-	-	-	-	-	-	-
CN-4	-	-			-	-	-	-	-	-	-	-	-	-
CN-6	-	-	-	-			-	-	-	-	-	-	-	-
N-6	-	-	-	-	-	-	-		-	-	-	-	-	-
N-9	-	-	-	-	-	-			-	-			-	•
N-13	-	-	-	-	-	-	-	-	-		-	-	-	-
Barbed bulkhe	ad fitting													
			1		1	T	1	1		1	1	-		1
CN-4	-	-			-	-	-	-	-	-	-	-	-	-

1) Quick coupling socket/plug, shut off on both sides: KD3-...-A-R thread G1/8 only, KD4-...-A-R G1/4 only

Plug-in coupling KD1/KS1

- 11 -Flow rate 44 l/min

- **Ø** -Nominal size 1.5 mm





General technical data

General technical uata			
Pneumatic connection 1		Quick coupling socket KD1	Quick coupling plug KS1
		Male thread	Barbed fitting
		M3	CN-2
Nominal size	[mm]	1.5	1.5
Nominal tightening torque	[Nm]	0.6 ±10%	-
Product weight	[g]	2.9	0.4

Standard nominal flow rate gnN¹⁾ [l/min]

Stanualu nominat now rate quiv / [t/min	J
Quick coupling socket/plug	Quick coupling socket KD1
combination	Male thread
	M3
Quick coupling plug KS1	
Barbed fitting CN-2	44

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions	perating and environmental conditions							
Operating pressure complete [bar]	-0.95 +12							
temperature range								
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot medium	Operation with lubricated medium possible							
Ambient temperature [°C]	-10 +60							
Corrosion resistance class CRC ¹⁾	1							

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials		
	Quick coupling socket KD1	Quick coupling plug KS1
Housing	Nickel-plated brass	Nickel-plated brass
Releasing sleeve	Nickel-plated brass	-

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Dimensions				Download CAD o	lata → www.festo.com	
Quick coupling socket	Quick cou	pling plug	1	Insertion depth		
Male thread	Barbed fit	ting				
					€	
Connection	D1	D2	L1	L2	=© 1	
Male thread	Ø					
M3	6.5	M3	18.5	4.6	6	
Barbed fitting			1		1	
CN-2	-	4	12	4.6	-	

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

Plug-in coupling KD2/KS2

- N - Flow rate 68 ... 139 l/min

--Note

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

- **Ø** -Nominal size 2 ... 3.2 mm





General technical data – Quick coupling socket KD2

Concrat technicat data Qu	aren coupang	Societien					
Pneumatic connection 1		Male thread	Female thread	Quick connector		Barbed fitting	Barbed bulkhead
							fitting
		M5	M5	CK-3	CK-4	CN-4	CN-4
Nominal size	[mm]	2.4	2.7	2	2.9	3.2	2.5
Nominal tightening torque	[Nm]	0.85 ±15%		-			
Product weight	[g]	10	12	11	16	11	21

General technical data – Quick counling plug KS2

General technical data – Qu	ick coupling	plug KS2					
Pneumatic connection 1		Male thread	Female thread	Quick connector		Barbed fitting	Barbed bulkhead
							fitting
		M5	M5	CK-3	CK-4	CN-4	CN-4
Nominal size	[mm]	2.4	2.7	2	2.7	2.4	2.7
Nominal tightening torque	[Nm]	0.85 ±15%		-			
Product weight	[g]	5	5	4	11	5	16

Standard nominal flow rate gnN¹⁾ [l/min]

Standard Hommat flow face q	ina - Lynnin	U								
Quick coupling socket/plug		Quick coupling socket KD2								
combination		Male thread	Female thread	Quick connect	tor	Barbed fitting	Barbed bulkhead			
							fitting			
		M5	M5	CK-3	CK-4	CN-4	CN-4			
Quick coupling plug KS2										
Male thread	M5	126	133	85	129	136	119			
Female thread	M5	131	135	88	130	139	121			
Quick connector	CK-3	83	84	68	82	84	79			
	CK-4	120	126	86	123	129	113			
Barbed fitting	CN-4	113	116	82	113	119	105			
Barbed bulkhead fitting	CN-4	115	121	83	119	122	110			

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

FESTO

1

Operating and environmental conditions									
Operating pressure complete [bar]	-0.95 +12								
temperature range									
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]								
Note on operating/pilot medium	Operation with lubricated medium possible								
Ambient temperature [°C]	-10 +60								
Corrosion resistance class CRC ¹⁾	1								

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

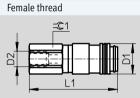
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials

	Quick coupling socket KD2	Quick coupling plug KS2
Housing	Nickel-plated brass	Nickel-plated brass
Releasing sleeve	Nickel-plated brass	-
Note on materials	RoHS-compliant	

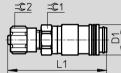
Dimensions – Quick coupling socket

Male thread C1 5

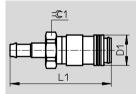


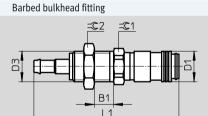
Quick connector

Download CAD data → www.festo.com



Barbed fitting





Connection	B1	D1	D2	D3	L1	=© 1	=© 2
		Ø					
Male thread							
M5	-	10	M5	-	26.25	9	-
Female thread							
M5	-	10	M5	-	29.05	9	-
Quick connector with union nut							
CK-3	_	10	_	_	32.55	9	8
CK-4	_	10	_	_	35.75	11	12
Barbed fitting							
CN-4	-	10	-	-	33.25	11	-
Barbed bulkhead fitting							
CN-4	1 10	10	-	M10x1	47.75	11	13



Dimensions – Quick coupling plug Download CAD data → www.festo.com Male thread Female thread Quick connector <u>=C1 =C2</u> FT: M 11 L1 Barbed fitting Barbed bulkhead fitting Insertion depth <u>C1</u> <u>=C2</u> <u>=C1</u> ÐB HT. L1 B1 L1 Connection B1 D1 D2 D3 L1 L2 =© 1 =© 2 Ø Male thread M5 10 Μ5 18.2 7.95 9 _ _ _ Female thread Μ5 7.95 7 Μ5 _ 10 20 _ Quick connector with union nut CK-3 24 7 8 10 _ 7.95 _ _ CK-4 27.2 11 12 Barbed fitting CN-4 10 25.4 7.95 7 _ ---Barbed bulkhead fitting 1 ... 10 CN-4 10 M10x1 39.7 7.95 11 13 _

Ordering data							
Connection	Quick coup	oling socket	Quick coupling plug				
	Part No.	Туре	Part No.	Туре			
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	n 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 fitting							
CN-4	531624	KD2-CN-4-S	531664	KS2-CN-4-S			

_

Plug-in coupling KD3/KS3

Note

plugs of this size.

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



Nominal size 2.9 ... 5 mm





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General technical data – Quick coupling socket KD3

Pneumatic connection 1		Male thread		Female thread		Quick connector		Barbed fitting	Barbed bulkhead
									fitting
		G1⁄8	G1⁄4	G1⁄8	G1⁄4	CK-4	СК-6	CN-6	CN-6
Nominal size	[mm]	4.95	5	5	5	2.9	4.9	4.9	4.9
Nominal tightening torque	[Nm]	5 ±15%	9.5 ±15%	5 ±15%	9.5 ±15%	-			
Product weight	[g]	28	35	32	47	31	32	27	44

General technical data – Ouick coupling plug KS3

Concratteeninteataata Qu	ochelar technicar auta Quick coupling plag hos									
Pneumatic connection 1		Male thread		Female thre	Female thread		ector	Barbed fitting	Barbed bulkhead	
									fitting	
		G1⁄8	G1⁄4	G1⁄8	G1⁄4	CK-4	CK-6	CN-6	CN-6	
Nominal size	[mm]	4.95	4.95	4.95	4.95	2.9	4.9	4.9	4.9	
Nominal tightening torque	[Nm]	5 ±15%	9.5 ±15%	5 ±15%	9.5 ±15%	-				
Product weight	[g]	13	23	16	27	16	21	8	32	

Standard nominal flow rate qnN¹⁾ [l/min]

Quick coupling socket/plug		Quick co	Quick coupling socket KD3								
combination		Male thr	ead	Female	thread	Quick co	nnector	Barbed fitting	Barbed bulkhead		
									fitting		
		G1⁄8	G1⁄4	G1⁄8	G1⁄4	CK-4	CK-6	CN-6	CN-6		
Quick coupling plug KS3											
Male thread	G1⁄8	563	581	585	648	225	464	504	459		
	G1⁄4	558	581	594	653	225	455	500	459		
Female thread	G1⁄8	536	554	558	617	225	446	486	450		
	G1⁄4	572	594	603	666	225	468	504	468		
Quick connector	CK-4	185	185	185	185	158	180	180	180		
	CK-6	428	437	441	464	216	378	401	374		
Barbed fitting	CN-6	410	432	414	441	216	365	387	360		
Barbed bulkhead fitting	CN-6	423	441	432	459	216	374	401	378		

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions								
Operating pressure complete [bar]	-0.95 +12							
temperature range								
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot medium	Operation with lubricated medium possible							
Ambient temperature [°C]	-10 +60							
Corrosion resistance class CRC ¹⁾	1							

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

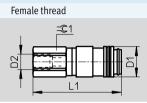
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

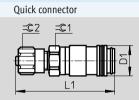
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Materials		
	Quick coupling socket KD3	Quick coupling plug KS3
Housing	Nickel-plated brass	Nickel-plated brass
Releasing sleeve	Nickel-plated brass	-
Note on materials	RoHS-compliant	

Dimensions – Quick coupling socket

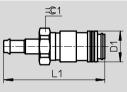
Male thread <u>=C1</u> 02 5

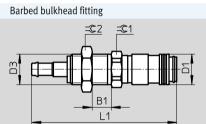




Download CAD data → www.festo.com

Barbed fitting





Connection	B1	D1	D2	D3	L1	=© 1	=© 2
		Ø					
Male thread							
G1⁄8	_	16	G1⁄8	-	36	14	_
G1⁄4	_	10	G1⁄4	-	37.6	17	-
F 1 (1)							
Female thread	1	1	1	1	1	1	1
G1⁄8	_	16	G1⁄8	-	38.2	14	_
G1⁄4		10	G1⁄4	-	45.2	17	
Quick connector with union nut							
CK-4					43.1		12
СК-6		16	-	-	43.2	14	14
	n.						
Barbed fitting							
CN-6	-	16	9 d10	-	43.2	14	-
Barbed bulkhead fitting							
CN-6	1.1 10	16	-	M12x1	58.2	17	17

Dimensions – Quick coupling plug Male thread		Female thread			Oui	Downloa ck connector	d CAD data → w	ww.festo.com	
					Qui	=C1 =C2			
		=©1	Ļ				-		
			12		ft	┍═╋┎╞╡	L		
			3		날	▝╌᠊ᡛ╢ <u>╞</u>			
			■┤ ╵		-	L1 -			
Barbed fitting		Barbed bulkhe	ead fitting		Ins	ertion depth			
		<u>=C1</u>	<u>=C2</u>			1.2			
L									
			<u>}∕</u> ¶ <u></u>	₽a	f.				
		Fre AL	<u>}</u> ┥ <u></u> ┏╸╸				<u>⋑</u> Ң <u></u>		
┝╼╴└╵╺╾┤╵		B	1						
			1						
Connection	B1	D1	D2	D3	L1	L2	=© 1	=© 2	
		Ø							
Male thread									
G1/8	_	16	G1⁄8	-	25	13.6	13	_	
G1⁄4		10	G1⁄4	-	27.6	1910	17		
Female thread									
G1/8			G1⁄8	_	28	13.6	13		
G ¹ /4		16	G ¹ /4	_	32.6	13.6	17		
			374		5210	1910			
Quick connector with union nut									
CK-4	_	16	_	_	34.5	13.6	12	12	
CK-6		10			34.6	19.0	14	14	
Barbed fitting CN-6	_	16	9 d10	-	28.6	13.6	_	_	
		10	<i>J</i> 010		20.0	15.0			
Barbed bulkhead fitting									
CN-6	1.1 10	16	-	M12x1	48.6	13.6	17	17	
Ordering data									
Connection	Quick couplir				Quick coup				
	Part No. T	уре			Part No.	Туре			
Male thread						1/00 1/ 1			
G1/8 G1/4		(D3-1⁄8-A (D3-1⁄4-A			3492 531666	KS3-1⁄8-A KS3-1⁄4-A			
074	551020 N	UJ-74-A			551000	KJJ-74-A			
Female thread									
G1/8	531627 K	(D3-1⁄8-I			531668	KS3-1⁄8-I			
G1⁄4	531628 K	(D3-1/4-I			531669	KS3-1⁄4-I			
						-			
Quick connector with union nut					0001	NG0 611 1			
CK-4 CK-6		(D3-CK-4 (D3-CK-6			3326 3478	KS3-CK-4 KS3-CK-6			
	001020 K	0-1)-64			24/8	1.33-01-0			
Barbed fitting									
CN-6	531631 K	(D3-CN-6			531672	KS3-CN-6			
					· · · ·				
Barbed bulkhead fitting									
CN-6	531632 K	(D3-CN-6-S			531673	KS3-CN-6-S			

FESTO

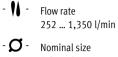
→ Internet: www.festo.com/catalogue/...

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Technical data

Plug-in coupling KD4/KS4

- Releasing sleeve made from polymer material
- Quick coupling sockets KD4 can be combined with all quick coupling plugs KSS6 → 22



2.9 ... 10 mm





Note

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

KSS6 are recommended for use with couplings that are frequently subject to pressure surges or that have to be frequently mated.

General technical data – Ouick coupling socket KD4

Concratice inneur data Quick coupling sociate har											
Pneumatic connection 1		Male thread		Female thread		Quick connector		Bulkhead quick connector	Barbed fitting		
		G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	СК-6	СК-9	CK-9	N-9
Nominal size	[mm]	8	10		7.2			4.9	7.4	7.4	7.4
Nominal tightening torque	[Nm]	9.5	21.5	32.5	9.5	21.5	32.5	-			
		±15%	±15%	±20%	±15%	±15%	±20%				
Product weight	[g]	57	62	78	88	82	86	63	71	97	57

General technical data – Quick coupling plug KS4

····· 、													
Pneumatic connection 1		Male thread		Female thread		Quick connector		r	Bulkhead quick	Barbed fitti	ng		
									connector				
		G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	CK-4	CK-6	CK-9	СК-9	N-6	N-9
Nominal size	[mm]	7.85			7.85			2.9	4.9	7.4	7.4	4.5	7
Nominal tightening torque	[Nm]	9.5	21.5	32.5	9.5	21.5	32.5	-					
		±15%	±15%	±20%	±15%	±15%	±20%						
Product weight	[g]	21	29	55	31	32	57	26	26	26	69	15	18

Standard nominal flow rate qnN¹⁾ [l/min]

Standard Hommat now rate qu	···· · [t/ ·····	1									
Quick coupling socket/plug		Quick o	Quick coupling socket KD4								
combination		Male thread			Female thread		Quick connector		Bulkhead quick	Barbed fitting	
										connector	
		G1⁄4	G3⁄8	G1⁄2 G1⁄4		G3⁄8	G1⁄2	CK-6	СК-9	СК-9	N-9
Quick coupling plug KS4											
Male thread	G1⁄4	1,260	1,242	1,296	1,283	1,305	1,323	756	1,098	1,098	1,143
	G3⁄8	1,283	1,274	1,319	1,283	1,323	1,323	756	1,116	1,116	1,152
	G1⁄2	1,283	1,260	1,301	1,283	1,323	1,323	756	1,098	1,098	1,143
Female thread	G1⁄4	1,125	1,125	1,148	1,130	1,161	1,161	720	1,008	1,008	1,035
	G3⁄8	1,287	1,274	1,337	1,292	1,350	1,332	756	1,116	1,116	1,152
	G1⁄2	1,287	1,260	1,305	1,292	1,314	1,305	756	1,116	1,116	1,152
Quick connector	CK-4	261	261	257	257	261	257	252	261	261	
	CK-6	486	482	482	482	486	495	432	477	477	
	СК-9	1,152	1,143	1,179	1,161	1,197	1,197	725	1,017	1,017	1,044
Bulkhead quick connector	СК-9	1,152	1,143	1,179	1,161	1,197	1,197	725	1,017	1,017	1,044
Barbed fitting	N-6	486	482	482	482	486	495	441	477	477	
	N-9	1,107	1,089	1,107	1,098	1,134	1,125	711	981	981	1,008

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions					
Operating pressure complete [bar]	-0.95 +12				
temperature range					
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]				
Note on operating/pilot medium	Operation with lubricated medium possible				
Ambient temperature [°C]	-10 +60				
Corrosion resistance class CRC ¹⁾	1				

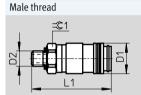
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

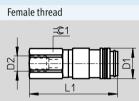
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials

	Quick coupling socket KD4	Quick coupling plug KS4
Housing	Nickel-plated brass	Nickel-plated brass
Releasing sleeve	Polypropylene	-
Note on materials	RoHS-compliant	

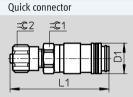
Dimensions – Quick coupling socket



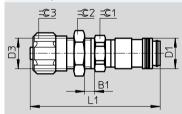


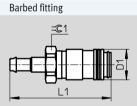
Download CAD data → www.festo.com

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Bulkhead quick connector





Connection	B1	D1	D2	D3	L1	=© 1	=© 2	=© 3
		Ø						
Male thread								
G1⁄4			G1⁄4		40.5	22		
G3⁄8	-	26.4	G3⁄8	-	41.5	22	-	-
G1⁄2			G1⁄2	-	43	24		
Female thread								
G ¹ /4			G1⁄4		46			
G ³ /8	_	26.4	G ³ /8	_	40	22	_	_
G ¹ /2	-	20.4	G1/2	-	50.5	24	-	
Quick connector with union nut								
СК-6	_	26.4	_	-	46.4	22	14	
СК-9		20.4	_		49.8		19	
Bulkhead quick connector with union nut	ir i i i i i i i i i i i i i i i i i i	r	n.	T	T	1	n.	n.
СК-9	1.2 18.2	26.4	-	M16x1	64.8	22	19	22
Barbed fitting								
	1	26.4	12	1	54.0	24	1	1
N-9	-	26.4	12	-	56.2	21	-	-

Dimensions – Quick coupling plug Download CAD data → www.festo.com Quick connector Male thread Female thread **=**C1 <u>=C2</u> Æ L1 Bulkhead quick connector Barbed fitting Insertion depth <u>=C1</u> <u>=C2</u> <u>=C3</u> П 6 11 B Connection B1 D1 D2 D3 L1 L2 =© 1 =© 2 =© 3 Ø Male thread G1⁄4 G1⁄4 32.5 17 G3⁄8 34 _ 26.4 G3⁄8 14.95 19 G1⁄2 G1⁄2 37.5 24 Female thread G1⁄4 G1⁄4 38.5 17 G3⁄8 26.4 G3⁄8 39.5 14.95 19 -_ _ G1⁄2 G1⁄2 44 24 Quick connector with union nut CK-4 _ 40.2 12 17 CK-6 14.95 _ _ _ 40.3 14 _ 26.4 CK-9 19 19 43.7 Bulkhead quick connector with union nut 14.95 CK-9 1.2 ... 18.2 26.4 _ M16x1 57.7 22 19 22 Barbed fitting N-6 26.4 12 _ 47 14.95 _ _ _ _ N-9

Ordering data		
Connection	Quick coupling socket	Quick coupling plug
	Part No. Type	Part No. Type
Male thread		
G1⁄4	2143 KD4-¼-A	2154 KS4-¼-A
G3⁄/8	2144 KD4-¾-A	2155 KS4-3⁄8-A
G1⁄2	2145 KD4-½-A	531676 KS4-½-A
Female thread		
G1⁄4	531636 KD4-¼-I	531678 KS4-¼-I
G3⁄8	531637 KD4- ³ ⁄8-I	531679 KS4-¾-I
G1/2	531638 KD4-1⁄2-I	531680 KS4-1/2-I
Quick connector with uni	on nut	
CK-4	-	2150 KS4-CK-4
СК-6	531639 KD4-CK-6	2151 KS4-CK-6
СК-9	531640 KD4-CK-9	531683 KS4-CK-9
Bulkhead quick connecto	or with union nut	
CK-9	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

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Technical data

Plug-in coupling KD5/KS5

- Plug with non-return function that allows the air to escape slowly during uncoupling
- ♥ Flow rate 1,710 ... 2,043 l/min - ♥ - Nominal size
 - 11 ... 13 mm



- Note

All quick coupling socket types of the same size are compatible with all plugs of this size. The non-return function means that the direction of flow must always follow the direction of the arrow (marked on the plug).

General technical data

General lecinical uata							
Pneumatic connection 1		Quick coupling socket KD5	Quick coupling plug KS5				
		Female thread	Male thread	Quick connector	Barbed fitting		
		G1⁄2	G1/2	CK-13	N-13		
Nominal size	[mm]	13	13	11.7	11		
Nominal tightening torque	[Nm]	32.5 ±20%	32.5 ±20%	-			
Product weight	[g]	413	255	251	256		

Standard nominal flow rate qnN¹⁾ [l/min]

Stanualu nominat now rate qui						
Quick coupling socket/plug		ick coupling socket KD5				
combination		male thread				
		M3				
Quick coupling plug KS5						
Male thread	G1⁄2	1,872				
Quick connector	CK-13	2,043				
Barbed fitting	N-13	1,710				

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions

Operating pressure complete [bar]	0 +12
temperature range	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible
Ambient temperature [°C]	-10 +60
Corrosion resistance class CRC ¹⁾	1

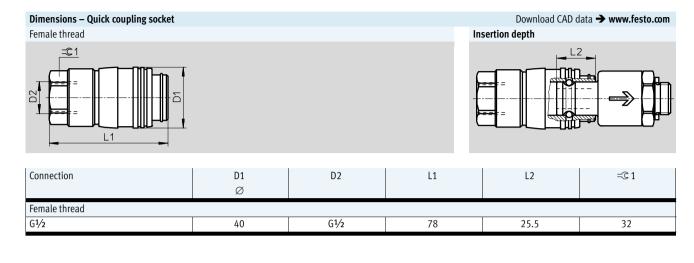
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

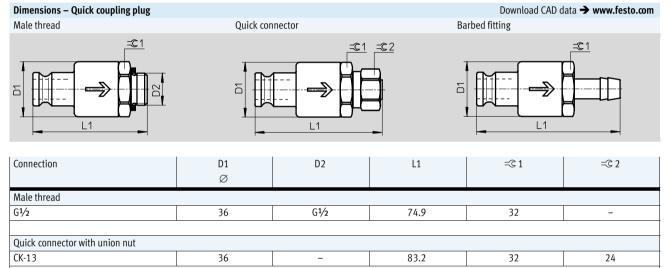
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials		
	Quick coupling socket KD5	Quick coupling plug KS5
Housing	Galvanised steel	Galvanised steel
Releasing sleeve	Galvanised steel	-

36

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Ordering data		
Connection	Quick coupling socket	Quick coupling plug
	Part No. Type	Part No. Type
Female thread		
G1/2	4088 KD5-1/2-I	-
Male thread		
G1/2	-	531687 KS5-1/2-A
Quick connector with union nut		
CK-13	-	4096 KS5-CK-13
Barbed fitting		
N-13	-	4089 KS5-N-13

_

Barbed fitting N-13

94

32

_

Flow rate

563 l/min

Nominal size 4.2 ... 5 mm

- 11 -

- **Ø** -

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1

Plug-in coupling KD...-R/KS...-R • Both sides are sealed after unlocking

_ Note

Only quick coupling sockets and plugs with the same function and size can be combined.

> - 11 -Flow rate 765 l/min - **Ø** -Nominal size 8 mm



KD3-...-R



KS3-...-R



KD4-...-R

KS4-...-R

General technical data

General lecinical uala						
Pneumatic connection 1		Quick coupling socket KD3	Quick coupling plug KS3	Quick coupling socket KD4	Quick coupling plug KS4	
		Male thread	Male thread	Male thread	Male thread	
		G1⁄8	G1⁄8	G1⁄4	G1⁄4	
Nominal size	[mm]	5	4.2	8	8	
Nominal tightening torque	[Nm]	5 ±15%	5 ±15%	9.5 ±15%	9.5 ±15%	
Product weight	[g]	28	32	58	46	

Standard nominal flow rate gnN¹⁾ [l/min]

Standard noninnat now rate quite											
Quick coupling socket/plug		Quick coupling socket KD3	Quick coupling socket KD4								
combination		Male thread	Male thread								
		G1⁄8	G1⁄4								
Quick coupling plug KS3											
Male thread 0	G 1⁄8	563	-								
Quick coupling plug KS4											
Male thread C	G1⁄4	-	765								

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions								
Operating pressure complete [bar]	-0.95 +12							
temperature range								
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot medium	Operation with lubricated medium possible							
Ambient temperature [°C]	-10 +60							
Corrosion resistance class CRC ¹⁾	1							

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

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

Dimensions					Download CAD data	→ www.festo.com
Quick coupling socket Male thread	Quick	coupling plug		Insertion of	lepth	
	11					
Туре	D1 Ø	D2	L Quick coupling socket	1 Quick coupling plug	L2	-©1
Male thread						
G1⁄8	16	G1⁄8	36	39.8	13.6	14
G1/4	26.4	G1⁄4	40.5	42.5	14.95	22

Ordering data		
Connection	Quick coupling socket	Quick coupling plug
	Part No. Type	Part No. Type
G1⁄8	531659 KD3-1⁄8-A-R	531667 KS3-1⁄8-A-R
G1⁄4	531694 KD4-¼-A-R	531677 KS4-¼-A-R

Type discontinued Available up until 2017

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

Technical data

Safety coupling KDS6/KSS6

• Releasing sleeve made from polymer material

- ♥ - Flow rate 882 ... 1,818 l/min - Ø - Nominal size

5 ... 10 mm





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- Note

-

The quick coupling sockets KDS6 must only be used in combination with the hardened steel plugs KSS6. All quick coupling socket types of the same size are compatible with all plugs of this size.

General technical data – Quick coupling socket KDS6

Pneumatic connection 1		Male thread			Female thread			Quick connector		Bulkhead quick	Barbed fitting
										connector	
		G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	СК-9	CK-13	СК-9	N-9
Nominal size	[mm]	8	10		7.2			7.4	10	7.4	7
Nominal tightening torque	[Nm]	9.5	21.5	32.5	9.5	21.5	32.5	-			
		±15%	±15%	±20%	±15%	±15%	±20%				
Product weight	[g]	93	96	111	125	115	121	104	121	122	97

General technical data – Quick coupling plug KSS6

Pneumatic connection 1		Male threa	ıd			Female thread			Quick		Bulkhead	Barbed fitting
										tor	quick	
								connector				
		G1⁄8	G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	CK-9	CK-13	СК-9	N-9
Nominal size	[mm]	5	7.85			7.85			7.4	7.85	7.4	7
Nominal tightening torque	[Nm]	5 ±15%	9.5 ±15%	21.5	32.5	9.5	21.5	32.5	-			
				±15%	±20%	±15%	±15%	±20%				
Product weight	[g]	19	20	27	50	28	29	49	37	50	64	17

Standard nominal flow rate qnN¹) [l/min]

Standard noninnat now rate q													
Quick coupling socket/plug		Quick o	Quick coupling socket KDS6										
combination		Male thread			Female	Female thread			ector	Bulkhead quick connector	Barbed fitting		
		G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	СК-9	CK-13	CK-9	N-9		
Quick coupling plug KSS6													
Male thread	G1⁄8	963	981	972	936	968	990	999	963	905	882		
	G1⁄4	1,611	1,791	1,719	1,566	1,683	1,796	1,413	1,724	1,377	1,350		
	G3⁄8	1,629	1,755	1,688	1,562	1,656	1,782	1,413	1,647	1,386	1,350		
	G1⁄2	1,602	1,733	1,643	1,539	1,652	1,764	1,404	1,634	1,386	1,337		
Female thread	G1⁄4	1,436	1,530	1,485	1,373	1,463	1,530	1,278	1,395	1,215	1,179		
	G3⁄8	1,697	1,814	1,751	1,584	1,733	1,818	1,427	1,710	1,413	1,355		
	G1⁄2	1,674	1,814	1,755	1,584	1,719	1,782	1,436	1,737	1,404	1,364		
Quick connector	CK-9	1,440	1,512	1,472	1,377	1,467	1,526	1,269	1,449	1,274	1,224		
	CK-13	1,629	1,814	1,719	1,557	1,724	1,800	1,427	1,697	1,418	1,350		
Bulkhead quick connector	CK-9	1,440	1,512	1,472	1,377	1,467	1,526	1,269	1,449	1,274	1,224		
Barbed fitting	N-9	1,305	1,359	1,332	1,260	1,323	1,368	1,188	1,341	1,197	1,121		

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

→ Internet: www.festo.com/catalogue/...

- **Type discontinued** Available up until 2017

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

Technical data

Operating and environmental conditions Quick coupling socket Quick coupling plug KDS6 KSS6 -0.95 ... +12 Operating pressure complete -0.5 ... +12 [bar] temperature range Compressed air in accordance with ISO 8573-1:2010 [7:-:-] Operating medium Operation with lubricated medium possible Note on operating/pilot medium Ambient temperature -10 ... +60 [°C] Corrosion resistance class CRC¹⁾ 1 BIA Certification BIA ΤÜV ΤÜV

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials		
	Quick coupling socket	Quick coupling plug
	KDS6	KSS6
Housing	Nickel-plated brass	Hardened steel
Releasing sleeve	Polyacetal	-
Note on materials	RoHS-compliant	RoHS-compliant

Technical data



Dimensions – Quick coupling socket Download CAD data → www.festo.com Male thread Female thread Quick connector **=©** 2 **=**€ 1 **=C** 1 C 1 20 02 11 11 | 1 Bulkhead guick connector Barbed fitting <u>=C2</u> =C 3 **=**℃ 1 **=**℃ 1 Ш 2 B1 11 11 Connection B1 D1 D2 D3 L1 =C 1 =C 2 =C 3 Ø Male thread G1⁄4 31.6 G1⁄4 53 22 _ G3⁄8 G3⁄8 54 31.6 22 _ _ _ G1⁄2 31.6 G1⁄2 55.5 24 _ Female thread G1⁄4 31.6 G1⁄4 60 22 _ G3⁄8 31.6 G3⁄8 60 22 _ G1/2 31.6 G1⁄2 63 24 _ Quick connector with union nut CK-9 31.6 22 19 63.5 _ _ _ _ CK-13 24 31.6 64.5 24 _ Bulkhead quick connector with union nut CK-9 1.2 ... 18.2 M16x1 78.5 19 22 31.6 _ 22 Barbed fitting N-9 _ 31.6 12 _ 69.7 22 _ _

- **Type discontinued** Available up until 2017

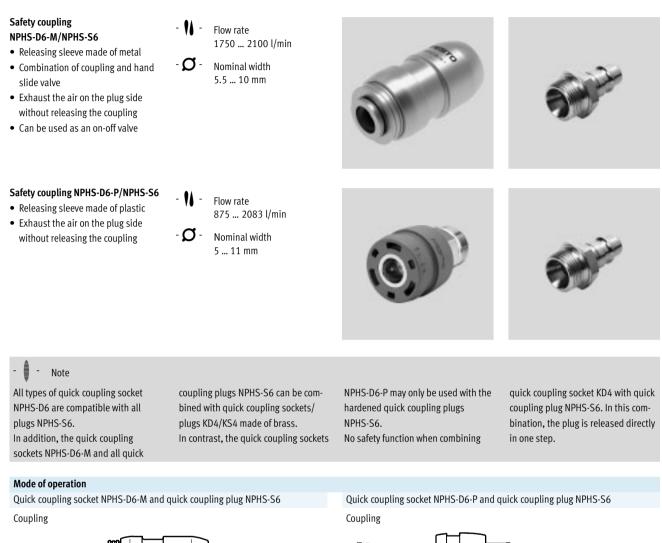
Quick coupling sockets/plugs KDS/KSS, shut-off on one side

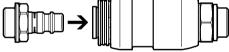
Dimensions – Quick coupling plug Download CAD data → www.festo.com Male thread Female thread Quick connector **=**€ 1 **=©**2 <u>c</u> 1 Bulkhead quick connector Barbed fitting Insertion depth <u>=C 3</u> <u>=C 1</u> **=**€2 Ē L1 B1 L2 =© 1 =© 2 =© 3 Connection B1 D2 D3 L1 Male thread G1⁄8 G1⁄8 30.5 13 G1⁄4 G1⁄4 32.5 17 19.5 _ _ G3⁄8 G3⁄8 34 19 G1⁄2 37.5 G1⁄2 24 Female thread G1⁄4 G1⁄4 38.5 17 G3⁄8 G3⁄8 39.5 19.5 19 _ _ G1⁄2 G1⁄2 44 24 Quick connector with union nut CK-9 43.7 19 19 19.5 _ _ _ CK-13 45.2 24 24 Bulkhead quick connector with union nut CK-9 1.2 ... 18.2 M16x1 57.5 19.5 22 19 22 _ Barbed fitting N-9 19.5 12 47 _ _ _

Ordering data						
Connection	Quick coupli	ng socket		Quick cou	pling plug	
	Part No. 7	Гуре		Part No.	Туре	
Male thread, releasing sl	eeve made from polymer mater	rial				
G1⁄8	-			151781	KSS6-1/8-A	· [·
G1⁄4	531647	(DS6-1/4-A	- L -	151779	KSS6-¼-A	- - ای - - ای -
G3⁄/8	531648	(DS6-¾-A	·l·	151780	KSS6-¾-A	· [·
G1⁄2	531649	(DS6-1/2-A	· [·	531693	KSS6-1/2-A	· [.
Female thread						
G1⁄4	531650	(DS6-1/4-1	· [·	531695	KSS6-1/4-I	. [.
G3⁄8	531651	(DS6-3/8-1	.1.	531696	KSS6-3⁄8-I	.l.
G ¹ /2	531652	(DS6-1/2-I	· [·	531697	KSS6-1/2-I	· [.
Quick connector with uni	on nut					
СК-9	531653	KDS6-CK-9	- <u>]</u> -	531698	KSS6-CK-9	.[.
CK-13	531654	KDS6-CK-13	.1.	531699	KSS6-CK-13	. [.
Bulkhead quick connecto	or with union nut					
СК-9	531656	KDS6-CK-9-S	· [·	531701	KSS6-CK-9-S	
Barbed fitting						
N-9	531655	(DS6-N-9	.l.	531700	KSS6-N-9	.l.

Technical data

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To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position.



actuated.

When the plug is engaged, the releasing sleeve shifts one position in the direction of the plug. This releases the locking mechanism between the

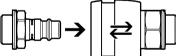
Pressurising



To pressurise, slide the sliding sleeve in the direction of the plug.

releasing sleeve and the sliding

sleeve. The sliding sleeve can now be



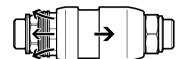
To lock the coupling, push the plug into the socket. The plug automatically engages with an audible click when in a specific position. In the process, the releasing sleeve moves briefly backwards and then forwards again.

ESTO

Technical data

Mode of operation

Quick coupling socket NPHS-D6-M and quick coupling plug NPHS-S6 Exhausting



To exhaust, slide the sliding sleeve in the direction of the thread on the quick coupling socket. The air from the plug and the components

connected to it can escape. The air on the coupling side is shut off. The releasing sleeve is now accessible.

Special features:

Decoupling

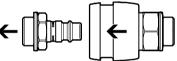
To repressurise the plug, the sliding sleeve must once more be slid in the direction of the plug. It is not necessary to release the plug from the

socket completely before doing this. This safety coupling can thus be used as an on-off valve, for example.

been exhausted. With the plug re-

or be pushed.

moved, the two sleeves cannot slide



Next release the plug from the ball locking mechanism by pulling the releasing sleeve. This releases the plug completely so that it can be removed

from the socket. The plug should only be removed after all the air has been exhausted.

and is held in this position by the

ball locking mechanism of the coup-

ling. The air from the plug and the

components connected to it can escape. The air on the coupling side

from the socket completely before

is shut off.

doing this.

Note

Pressurise or exhaust the coupling to a maximum of 10 bar only. Hearing protection is recommended, especially at higher operating pressures.

Unlock the plug fully by pushing the

only be removed after all the air has

releasing sleeve. The plug should

General technical data – Quick coupling socket NPHS-D6

Pneumatic connection 1	Male thread								read	For plug-in nipple		
		NPHS-D6-M			NPHS-D6	-Р			NPHS-D6	-Р		NPHS-D6-P
		G1⁄4	G3⁄8	G1⁄2	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	I.D. 9 mm
Nominal width	[mm]	8.2	10	10	5	7.8	10.2	11	-	-	-	7
Nominal tightening torque	[Nm]	7 ±20%	15	25	3.5	11	12.5	14	-	-	-	-
			±20%	±20%	±10%	±10%	±20%	±20%				
Product weight	[g]	173	179	200	94	95	98	113	124	114	122	95

General technical data – Quick coupling plug NPHS-S6

Pneumatic connection 1		Male thread				Female threa	ıd		For plug-in nipple			
		G1⁄8	G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	I.D. 9 mm			
Nominal width	[mm]	5.5	7.85	7.85	7.85	7.85	7.85	7.85	7			
Nominal tightening torque	[Nm]	3.5 ±10%	11 ±10%	12.5 ±20%	14 ±20%	-	-	-	-			
Product weight	[g]	19	20	27	50	28	29	49	17			

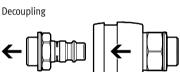
Quick coupling socket NPHS-D6-P and quick coupling plug NPHS-S6

To exhaust, first slide the releasing sleeve in the direction of the thread on the quick coupling socket. This releases the pin locking mechanism of the coupling. The plug moves approx. 5 mm out of the coupling

Special features:

Exhausting

To repressurise the plug, it must once more be pushed into the socket. It is not necessary to release the plug







Technical data

Standard nominal flow rate qnN ¹⁾ [l/min]								
Quick coupling socket/plug		Quick coupling socket NPHS-D6-M	Quick coupling socket NPHS-D6-M					
combination		Male thread	Male thread					
		G1⁄4	G3⁄8	G1/2				
Quick coupling plug NPHS-S6								
Male thread	G1⁄4	1833	2100	2100				
	G3⁄8	1800	2050	2050				
	G1⁄2	1750	2000	2000				

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Standard nominal flow rate gnN¹⁾ [l/min]

Quick coupling socket/plug combination		Quick coupling socket NPHS-D6-P							
		Male thread				Female th	nread	For plug-in nipple	
		G1⁄8	G1⁄4	G3⁄8	G1⁄2	G1⁄4	G3⁄8	G1⁄2	I.D. 9 mm
Quick coupling plug NF	PHS-S6								
Male thread	G1⁄8	875	1183	1216	1233	1183	1203	1238	1093
	G1⁄4	1038	1916	2033	2016	2033	2000	1983	1585
	G3⁄8	1038	1883	2033	1983	2033	1950	1950	1585
	G1⁄2	1002	1883	1966	1950	1966	1916	1916	1533
Female thread	G1⁄4	1002	1883	1950	1916	1800	1800	1008	1503
	G3⁄8	1050	1966	2083	2016	2050	2083	2050	1613
	G1⁄2	1038	1883	2000	1983	1933	2050	1950	1613
For plug-in nipple	I.D. 9 mm	966	1585	1640	1585	1585	1700	1640	1448

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar

Operating and environmental conditions

operating and environmental conditions							
		Quick coupling socket	Quick coupling plug				
		NPHS-D6-M	NPHS-D6-P	NPHS-S6			
Operating pressure for entire	[bar]	-0.95 +20 ¹⁾	-0.95 +10	-0.95 +10 ²⁾			
temperature range							
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]					
Note on operating/pilot medi	um	Lubricated operation possible					
Ambient temperature	[°C]	-20 +80	-10 +60	-10 +60 ²⁾			
Corrosion resistance class CRC ³⁾		0	1	0			
Noise level ⁴⁾	[dB(A)]	110 (at 6 bar)	93 (at 6 bar)	-			
		113 (at 10 bar)	98.7 (at 10 bar)	-			
		117 (at 16 bar)	-	-			

1) Pressurise or exhaust the coupling to a maximum of 10 bar only. Hearing protection is recommended, especially at higher operating pressures. 20 bar is the maximum static operating pressure (without pulsation).

Using a suitable sealing ring, it is possible to achieve a static operating pressure (without pulsation) of up to 20 bar in a temperature range of -20°C to +100°C.
Corrosion resistance class CRC 0 to Festo standard FN 940070

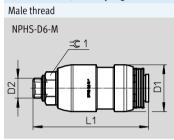
No corrosion stress. Applies to small, optically irrelevant standard parts such as threaded pins, circlips and clamping sleeves which are usually only available in a phosphated or burnished version (and possibly oiled) as well as to ball bearings (for components < CRC 3) and plain bearings. Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

4) Measured at a distance of 1 m, 10 l volume via the coupling, at pressure open and exhausted.

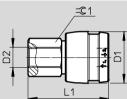
Materials							
	Quick coupling socket		Quick coupling plug				
	NPHS-D6-M	NPHS-S6					
Housing	Nickel-plated brass	Nickel-plated brass	Hardened galvanised steel				
Sliding sleeve	Clear anodised aluminium	-	-				
Releasing sleeve	Hardened nickel-plated steel	РР	-				
Note on materials	RoHS compliant						

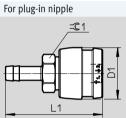
Dimensions – Quick coupling socket



NPHS-D6-P **=**©1 2 L1

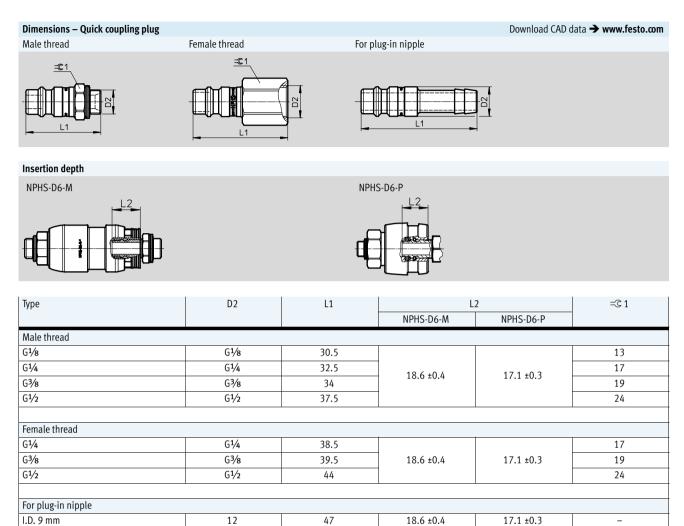
Female thread





Connection	D1	D2	L1	=© 1
	Ø			
Male thread, quick coupling sock	et NPHS-D6-M			
G1⁄4		G1⁄4	76	19
G3⁄8	30.8	G3⁄8	77	22
G1/2		G1⁄2	80.5	24
Male thread, quick coupling sock	et NPHS-D6-P			
G1/8		G1/8	46.5	22
G1⁄4	34	G1⁄4	48	22
G3⁄8	54	G3⁄8	49	22
G1/2		G1⁄2	50.5	24
Female thread				
G1⁄4		G1⁄4	53	22
G3⁄8	34	G3⁄8	53	22
G1⁄2		G1⁄2	56	24
For plug-in nipple				
I.D. 9 mm	34	-	63.6	22

Download CAD data → www.festo.com



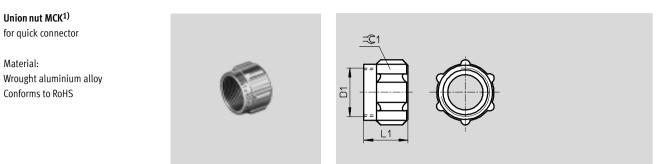
Ordering data – Quick cou	pling socket	
Connection	Releasing sleeve made of plastic	Releasing sleeve made of metal
	Part No. Type	Part No. Type
Male thread		
G1/8	8059266 NPHS-D6-P-G18	-
G1⁄4	8059267 NPHS-D6-P-G14	8059275 NPHS-D6-M-G14
G3⁄8	8059268 NPHS-D6-P-G38	8059276 NPHS-D6-M-G38
G1⁄2	8059269 NPHS-D6-P-G12	8059277 NPHS-D6-M-G12
Female thread		
G1⁄4	8059271 NPHS-D6-P-G14F	-
G3⁄8	8059272 NPHS-D6-P-G38F	-
G1/2	8059273 NPHS-D6-P-G12F	-
For plug-in nipple		
I.D. 9 mm	8059274 NPHS-D6-P-BC9	-

Ordering data – Quick coupling plug		
Connection	Part No.	Туре
Male thread		
G1/8	8059257	NPHS-S6-M-G18
G1⁄4	8059258	NPHS-S6-M-G14
G3⁄8	8059259	NPHS-S6-M-G38
G1/2	8059260	NPHS-S6-M-G12
Female thread		
G1⁄4	8059262	NPHS-S6-M-G14F
G3⁄8	8059263	NPHS-S6-M-G38F
G1/2	8059264	NPHS-S6-M-G12F
	·	
For plug-in nipple		
I.D. 9 mm	8059265	NPHS-S6-M-BC9

Union nuts MCK

Accessories

FESTO



Ordering data						
Nominal size	D1	L1	=© 1	Weight	Part No.	Туре
[mm]				[g]		
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 CRC 1 to Festo standard FN 940070

Low corrosion resistance class case i to resistance class case class case i to resistance class case i to resistance class case i