

Coupling socket, quick coupling plug KD

FESTO



Coupling socket, quick coupling plug KD

Characteristics

At a glance

Coupling to ISO 4414, with shut-off on one side or both sides.

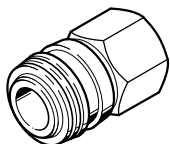
- Quick connection coupling for standard applications without safety function
- Shut off at one or both ends
- With male or female thread or with barbed connector or quick connector
- Nickel-plated brass, PP
- Operating medium: compressed air, vacuum

Notes on product selection:

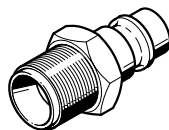
- All coupling sockets of the same size are compatible with all plugs of this size.
- Coupling sockets KD4 can be combined with all quick coupling plugs NPHS-S6. For couplings that are frequently subject to pressure surges or that have to be frequently mated, it is recommended to use the hardened quick coupling plugs NPHS-S6.

Coupling element

[D] Coupling socket



[S] Coupling plug



Additional function

[R] Self-locking

When used with the quick coupling plug KS....-A-R, the coupling KD....-A-R has a shut-off function on both sides. It is possible to use other plugs, but the function would then correspond to the KD....-A coupling with shut-off on one side and reduced cross-section.

It is not advisable to use the quick coupling plug KS....-A-R with other couplings, as, when it is plugged in, the valve in the plug is not opened.

Type code

001	Series	
KD	Coupling socket	
KS	Coupling plug	

002	Coupling size	
1	Size 1	
2	Size 2	
3	Size 3	
4	Size 4	

003	Connection type	
	Thread	
CK	Quick connector CK	
CN	Barbed connector CN	
N	Barbed connector N	

004	Connection size	
1/8	1/8	
1/4	1/4	
3/8	3/8	
1/2	1/2	
2	2 mm	
3	3 mm	
4	4 mm	
6	6 mm	
9	9 mm	
M3	M3	
M5	M5	

005	Connection design	
	Standard	
A	Outside	
I	Inside	

006	Additional function	
	None	
R	Self-locking	

Coupling socket, quick coupling plug KD

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)	
Short type code	KD1
Pneumatic connection, port 1	Male thread M3
Nominal size	1.5 mm
Nominal torque	0.6 Nm
Tolerance for nominal tightening torque	± 10%
Standard nominal flow rate ¹⁾	44 l/min
Nominal flow rate standardised according to ISO 8778	47.7 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa
Operating pressure complete temperature range	-0.95 ... 12 bar
Operating pressure complete temperature range	-13.775 ... 174 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating and pilot medium	Lubricated operation possible
Ambient temperature	-10 ... 60°C
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress
Material housing	Brass, nickel-plated
Material releasing sleeve	Nickel-plated brass
Valve body material	Brass
Material seals	NBR
Material spring	High-alloy stainless steel
Material thread seal	NBR, High-alloy stainless steel
Material thread piece	Nickel-plated brass
Material ball	High-alloy stainless steel
Note on materials	RoHS-compliant
LABS (PWS) conformity	VDMA24364-B1/B2-L

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

2) More information www.festo.com/x/topic/crc

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)	
Short type code	KS1
Pneumatic connection, port 1	Barbed hose fitting 2 mm
Nominal size	1.5 mm
Standard nominal flow rate ¹⁾	44 l/min
Nominal flow rate standardised according to ISO 8778	47.7 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa
Operating pressure complete temperature range	-0.95 ... 12 bar
Operating pressure complete temperature range	-13.775 ... 174 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating and pilot medium	Lubricated operation possible
Ambient temperature	-10 ... 60°C
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress
Information on materials	Brass, nickel plated
Note on materials	RoHS-compliant
LABS (PWS) conformity	VDMA24364-B1/B2-L

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

2) More information www.festo.com/x/topic/crc

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)				
Short type code	KD2			
Pneumatic connection, port 1	Male thread M5	Female thread M5	For tubing outer diameter of 4 mm, For barbed fitting I.D. 3 mm with union nut	CK-4, For barbed fitting I.D. 4 mm with union nut
Nominal size	2.4 mm	2.7 mm	2 mm	2.9 mm
Nominal torque	0.85 Nm		–	
Tolerance for nominal tightening torque	± 15%		–	
Standard nominal flow rate ¹⁾	83 ... 131 l/min	84 ... 135 l/min	68 ... 88 l/min	82 ... 130 l/min
Nominal flow rate standardised according to ISO 8778	90 ... 142 l/min	91.1 ... 146.3 l/min	73.7 ... 95.4 l/min	88.9 ... 140.9 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa			
Operating pressure complete temperature range	-0.95 ... 12 bar			
Operating pressure complete temperature range	-13.775 ... 174 psi			
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]			
Note on operating and pilot medium	Lubricated operation possible			
Ambient temperature	-10 ... 60°C			
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress			
Material housing	Brass, nickel-plated			
Material releasing sleeve	Nickel-plated brass			
Valve body material	Brass			
Material seals	NBR			
Material spring	High-alloy stainless steel			
Material thread seal	NBR, High-alloy stainless steel	–		
Material thread piece	Nickel-plated brass		–	
Material snap ring	High-alloy stainless steel			
Material ball	High-alloy stainless steel			
Material union nut	–		Nickel-plated wrought aluminium alloy	
Note on materials	RoHS-compliant			
LABS (PWIS) conformity	VDMA24364-B1/B2-L			

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

2) More information www.festo.com/x/topic/crc

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Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)				
Short type code	KS2			
Pneumatic connection, port 1	Male thread M5	Female thread M5	For tubing outer diameter of 4 mm, For barbed fitting I.D. 3 mm with union nut	For tubing outside diameter of 6 mm, For barbed fitting I.D. 4 mm with union nut
Nominal size	2.4 mm	2.7 mm	2 mm	2.7 mm
Nominal torque	0.85 Nm		–	
Tolerance for nominal tightening torque	± 15%		–	
Standard nominal flow rate ¹⁾	85 ... 136 l/min	88 ... 139 l/min	68 ... 84 l/min	86 ... 129 l/min
Nominal flow rate standardised according to ISO 8778	92.1 ... 147.4 l/min	95.4 ... 150.7 l/min	73.7 ... 91.1 l/min	93.2 ... 139.8 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa			
Operating pressure complete temperature range	-0.95 ... 12 bar			
Operating pressure complete temperature range	-13.775 ... 174 psi			
Operating medium	Compressed air to ISO 8573-1:2010 [7:::]			
Note on operating and pilot medium	Lubricated operation possible			
Ambient temperature	-10 ... 60°C			
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress			
Material thread seal	NBR, High-alloy stainless steel	–		
Material union nut	–		Nickel-plated wrought aluminium alloy	
Information on materials	Brass, nickel plated			
Note on materials	RoHS-compliant			
LABS (PWIS) conformity	VDMA24364-B1/B2-L			

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

2) More information www.festo.com/x/topic/crc

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)						
Short type code	KD3					
Pneumatic connection, port 1	Male thread G1/8	Male thread G1/4	Female thread G1/8	Female thread G1/4	For tubing outside di- ameter of 6 mm, For barbed fitting I.D. 4 mm with union nut	For tubing outer diame- ter of 8 mm, For barbed fitting I.D. 6 mm with union nut
Nominal size	4.95 mm	5 mm			2.9 mm	4.9 mm
Nominal torque	5 Nm	9.5 Nm	5 Nm	9.5 Nm	–	
Tolerance for nominal tighten- ing torque	± 15%				–	
Standard nominal flow rate ¹⁾	185 ... 572 l/min	185 ... 594 l/min	185 ... 603 l/min	185 ... 666 l/min	158 ... 225 l/min	180 ... 468 l/min
Nominal flow rate standard- ised according to ISO 8778	200.5 ... 620 l/min	200.5 ... 643.9 l/min	200.5 ... 653.7 l/min	200.5 ... 721.9 l/min	171.3 ... 243.9 l/min	195.1 ... 507.3 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa					
Operating pressure complete temperature range	-0.95 ... 12 bar					
Operating pressure complete temperature range	-13.775 ... 174 psi					
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]					
Note on operating and pilot medium	Lubricated operation possible					
Ambient temperature	-10 ... 60°C					
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress					
Material housing	Brass, nickel-plated					
Material releasing sleeve	Nickel-plated brass					
Valve body material	Brass					
Material seals	NBR					
Material spring	High-alloy stainless steel					
Material thread seal	PA66-GF30/TPE-U		–			
Material thread piece	Nickel-plated brass				–	
Material snap ring	High-alloy stainless steel					
Material ball	High-alloy stainless steel					
Material union nut	–				Nickel-plated wrought aluminium alloy	
Note on materials	RoHS-compliant					
LABS (PWIS) conformity	VDMA24364-B1/B2-L					

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

2) More information www.festo.com/x/topic/crc

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Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)						
Short type code	KS3					
Pneumatic connection, port 1	Male thread G1/8	Male thread G1/4	Female thread G1/8	Female thread G1/4	CK-4, For barbed fitting I.D. 4 mm with union nut	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut
Nominal size	4.95 mm				2.9 mm	4.9 mm
Nominal torque	5 Nm	9.5 Nm	5 Nm	9.5 Nm	–	
Tolerance for nominal tightening torque	± 15%				–	
Standard nominal flow rate ¹⁾	225 ... 648 l/min	225 ... 653 l/min	225 ... 617 l/min	225 ... 666 l/min	158 ... 185 l/min	216 ... 464 l/min
Nominal flow rate standardised according to ISO 8778	243.9 ... 702.4 l/min	243.9 ... 707.9 l/min	243.9 ... 668.8 l/min	243.9 ... 721.9 l/min	171.3 ... 200.5 l/min	234.1 ... 503 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa					
Operating pressure complete temperature range	-0.95 ... 12 bar					
Operating pressure complete temperature range	-13.775 ... 174 psi					
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]					
Note on operating and pilot medium	Lubricated operation possible					
Ambient temperature	-10 ... 60°C					
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress					
Material thread seal	PA66-GF30/TPE-U		–			
Material union nut	–				Nickel-plated wrought aluminium alloy	
Information on materials	Brass, nickel plated					
Note on materials	RoHS-compliant					
LABS (PWIS) conformity	VDMA24364-B1/B2-L					

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

2) More information www.festo.com/x/topic/crc

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)									
Short type code	KD4								
Pneumatic connection, port 1	Male thread G1/4	Male thread G3/8	Male thread G1/2	Female thread G1/4	Female thread G3/8	Female thread G1/2	For tubing out- er diameter of 8 mm, For barbed fit- ting I.D. 6 mm with union nut	For barbed fit- ting inside di- ameter of 9 mm with un- ion nut	Barbed hose fitting 9 mm
Nominal size	8 mm	10 mm		7.2 mm			4.9 mm	7.4 mm	
Nominal torque	9.5 Nm	21.5 Nm	32.5 Nm	9.5 Nm	21.5 Nm	32.5 Nm	–		
Tolerance for nominal tighten- ing torque	± 15%		± 20%	± 15%		± 20%	–		
Standard nominal flow rate ¹⁾	261 ... 1,287 l/min	261 ... 1,274 l/min	257 ... 1,337 l/min	257 ... 1,292 l/min	261 ... 1,350 l/min	257 ... 1,332 l/min	252 ... 756 l/ min	261 ... 1,116 l/min	810 ... 1,152 l/min
Nominal flow rate standard- ised according to ISO 8778	282.9 ... 1,395.1 l/min	282.9 ... 1,381 l/min	278.6 ... 1,449.3 l/min	278.6 ... 1,400.5 l/min	282.9 ... 1,463.4 l/min	278.6 ... 1,443.9 l/min	273.2 ... 819.5 l/min	282.9 ... 1,209.7 l/min	878 ... 1,248.8 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa								
Operating pressure complete temperature range	-0.95 ... 12 bar								
Operating pressure complete temperature range	-13.775 ... 174 psi								
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]								
Note on operating and pilot medium	Lubricated operation possible								
Ambient temperature	-10 ... 60°C								
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress								
Material housing	Brass, nickel-plated								
Material releasing sleeve	PP								
Valve body material	Brass								
Material seals	NBR								
Material spring	High-alloy stainless steel								
Material thread seal	PA66-GF30/TPE-U			–					
Material thread piece	Nickel-plated brass						–		
Material of inner raceway	Brass								
Material snap ring	High-alloy stainless steel								
Material pins	High-alloy stainless steel								
Material union nut	–						Nickel-plated wrought alumin- ium alloy		–
Note on materials	RoHS-compliant								
LABS (PWIS) conformity	VDMA24364-B1/B2-L								

1) Measured at p₁ = 6 bar and Δp = 1 bar2) More information www.festo.com/x/topic/crc

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Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)											
Short type code	KS4										
Pneumatic connection, port 1	Male thread G1/4	Male thread G3/8	Male thread G1/2	Female thread G1/4	Female thread G3/8	Female thread G1/2	For tubing outside diameter of 6 mm, For barbed fitting I.D. 4 mm with union nut	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut	For barbed fitting inside diameter of 9 mm with union nut	Barbed hose fitting 6 mm	Barbed hose fitting 9 mm
Nominal size	7.85 mm						2.9 mm	4.9 mm	7.4 mm	4.5 mm	7 mm
Nominal torque	9.5 Nm	21.5 Nm	32.5 Nm	9.5 Nm	21.5 Nm	32.5 Nm	–				
Tolerance for nominal tightening torque	± 15%		± 20%	± 15%		± 20%	–				
Standard nominal flow rate ¹⁾	756 ... 1,323 l/min			720 ... 1,161 l/min	756 ... 1,350 l/min	756 ... 1,314 l/min	252 ... 261 l/min	432 ... 495 l/min	725 ... 1,197 l/min	441 ... 495 l/min	711 ... 1,134 l/min
Nominal flow rate standardised according to ISO 8778	819.5 ... 1,434.1 l/min			780.5 ... 1,258.5 l/min	819.5 ... 1,463.4 l/min	819.5 ... 1,424.4 l/min	273.2 ... 282.9 l/min	468.3 ... 536.6 l/min	785.9 ... 1,297.5 l/min	478 ... 536.6 l/min	770.7 ... 1,229.3 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa										
Operating pressure complete temperature range	-0.95 ... 12 bar										
Operating pressure complete temperature range	-13.775 ... 174 psi										
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]										
Note on operating and pilot medium	Lubricated operation possible										
Ambient temperature	-10 ... 60°C										
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress										
Material thread seal	PA66-GF30/TPE-U			–							
Material union nut	–						Nickel-plated wrought aluminium alloy		–		
Information on materials	Brass, nickel plated										
Note on materials	RoHS-compliant										
LABS (PWIS) conformity	VDMA24364-B1/B2-L										

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

2) More information www.festo.com/x/topic/crc

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)		
Short type code	KD3	KD4
Pneumatic connection, port 1	Male thread G1/8	Male thread G1/4
Nominal size	5 mm	8 mm
Nominal torque	5 Nm	9.5 Nm
Tolerance for nominal tightening torque	± 15%	
Standard nominal flow rate ¹⁾	–	765 l/min
Nominal flow rate standardised according to ISO 8778	–	829.3 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa	
Operating pressure complete temperature range	-0.95 ... 12 bar	
Operating pressure complete temperature range	-13.775 ... 174 psi	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]	
Note on operating and pilot medium	Lubricated operation possible	
Ambient temperature	-10 ... 60°C	
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress	
Material housing	Brass	
Material releasing sleeve	Nickel-plated brass	PP
Valve body material	Brass	
Material seals	NBR	
Material spring	High-alloy stainless steel	
Material thread seal	PA66-GF30/TPE-U	
Material thread piece	Brass	
Material of inner raceway	–	Brass
Material snap ring	High-alloy stainless steel	
Material pins	–	High-alloy stainless steel
Material ball	High-alloy stainless steel	–
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

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

2) More information www.festo.com/x/topic/crc

Datasheet

Technical data – Coupling sockets NPHS-D6-M (unlocking sleeve metal)		
Short type code	KS3	KS4
Pneumatic connection, port 1	Male thread G1/8	Male thread G1/4
Nominal size	4.2 mm	8 mm
Nominal torque	5 Nm	9.5 Nm
Tolerance for nominal tightening torque	± 15%	
Standard nominal flow rate ¹⁾	–	765 l/min
Nominal flow rate standardised according to ISO 8778	–	829.3 l/min
Operating pressure complete temperature range	-0.095 ... 1.2 MPa	
Operating pressure complete temperature range	-0.95 ... 12 bar	
Operating pressure complete temperature range	-13.775 ... 174 psi	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]	
Note on operating and pilot medium	Lubricated operation possible	
Ambient temperature	-10 ... 60°C	
Corrosion resistance class CRC ²⁾	1 - Low corrosion stress	
Valve body material	Brass	
Material seals	NBR	
Material spring	High-alloy stainless steel	
Material thread seal	PA66-GF30/TPE-U	
Information on materials	Brass	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

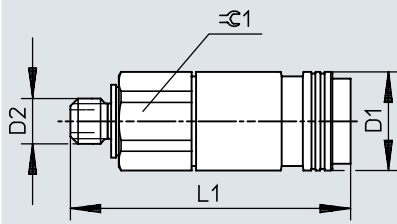
1) Measured at p1 = 6 bar and Δp = 1 bar

2) More information www.festo.com/x/topic/crc

Dimensions

Dimensions – Coupling socket KD1, male thread

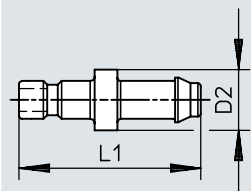
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	D1 ø	D2	L1	≡ 1
KD1-M3-A	6,5	M3	18,5	6

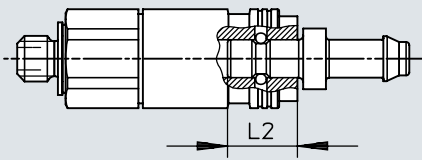
Dimensions

Dimensions – Quick coupling plug KS1, barbed fitting Download CAD data → www.festo.com



	D2	L1
KS1-CN-2	4	12

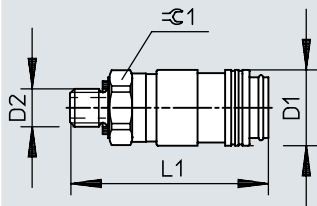
Dimensions

Dimensions – Plug-in coupling KD1/KS1, insertion depthDownload CAD data → www.festo.com

	L2
KD1-M3-A	4,6
KS1-CN-2	4,6

Dimensions

Dimensions – Coupling socket KD2, male thread Download CAD data → www.festo.com

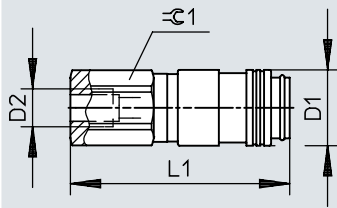


	D1 Ø	D2	L1	M5
KD2-M5-A	10	M5	26,25	9

Dimensions

Dimensions – Coupling socket KD2, female thread

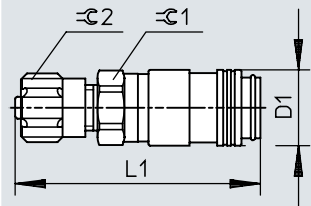
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	D1 Ø	D2	L1	$\varnothing 1$
KD2-M5-I	10	M5	29,05	9

Dimensions

Dimensions – Coupling socket KD2, quick connector Download CAD data → www.festo.com

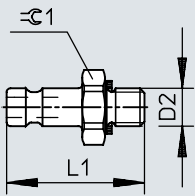


	D1 ø	L1	⌘ 1	⌘ 2
KD2-CK-3	10	32,55	9	8
KD2-CK-4	10	35,75	11	12

Dimensions

Dimensions – Quick coupling plug KS2, male thread

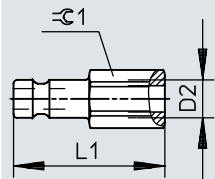
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	D2	L1	≡ 1
KS2-M5-A	M5	18,2	9

Dimensions

Dimensions – Quick coupling plug KS2, female thread Download CAD data → www.festo.com

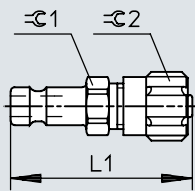


	D2	L1	±0.1
KS2-M5-I	M5	20	7

Dimensions

Dimensions – Quick coupling plug KS2, quick connector

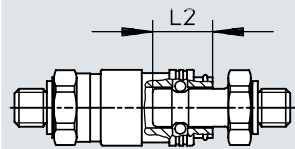
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	L1	$\varnothing 1$	$\varnothing 2$
KS2-CK-3	24	7	8
KS2-CK-4	27,2	11	12

Dimensions

Dimensions – Quick coupling plug KS2, insertion depth Download CAD data → www.festo.com

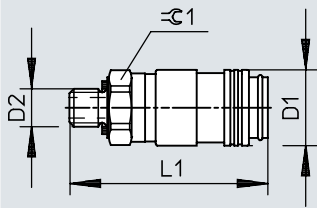


	L2
KS2-M5-A	7,95
KS2-M5-I	7,95
KS2-CK-3	7,95
KS2-CK-4	7,95

Dimensions

Dimensions – Coupling socket KD3, male thread

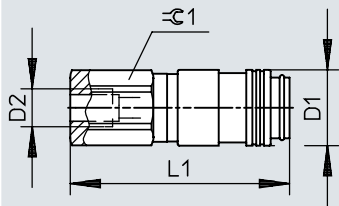
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	D1 Ø	D2	L1	$\varnothing 1$
KD3-1/8-A	16	G1/8	36	14
KD3-1/4-A		G1/4	37,6	17

Dimensions

Dimensions – Coupling socket KD3, female thread Download CAD data → www.festo.com

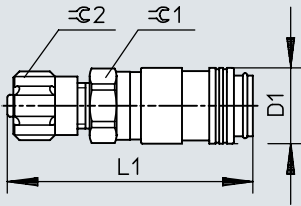


	D1 Ø	D2	L1	1
KD3-1/8-I	16	G1/8	38,2	14
KD3-1/4-I		G1/4	45,2	17

Dimensions

Dimensions – Coupling socket KD3, quick connector

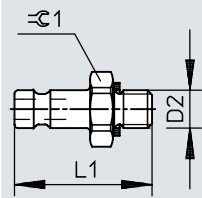
Download CAD data → www.festo.com



	D1 ø	L1	G 1	G 2
KD3-CK-4	16	43,1	14	12
KD3-CK-6		43,2		14

Dimensions

Dimensions – Quick coupling plug KS3, male thread Download CAD data → www.festo.com

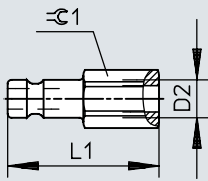


	D2	L1	≡G 1
KS3-1/8-A	G1/8	25	13
KS3-1/4-A	G1/4	27,6	17

Dimensions

Dimensions – Quick coupling plug KS3, female thread

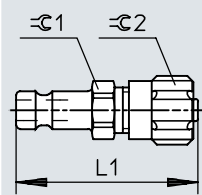
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	D2	L1	± 0.1
KS3-1/8-I	G1/8	28	13
KS3-1/4-I	G1/4	32,6	17

Dimensions

Dimensions – Quick coupling plug KS3, quick connector Download CAD data → www.festo.com

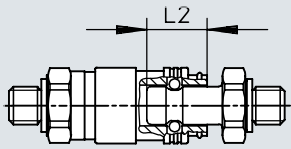


	L1	G1	G2
KS3-CK-4	34,5	12	12
KS3-CK-6	34,6	14	14

Dimensions

Dimensions – Quick coupling plug KS3, insertion depth

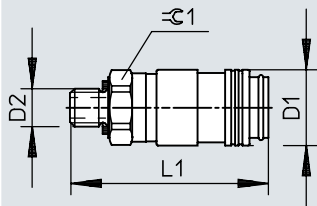
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	L2
KS3-1/8-A	13,6
KS3-1/4-A	13,6
KS3-1/8-I	13,6
KS3-1/4-I	13,6
KS3-CK-4	13,6
KS3-CK-6	13,6

Dimensions

Dimensions – Coupling socket KD4, male thread Download CAD data → www.festo.com

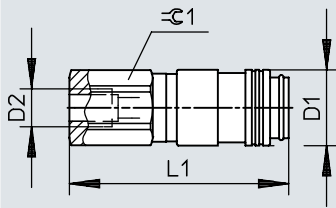


	D1 Ø	D2	L1	(G) 1
KD4-1/4-A	26,4	G1/4	40,5	22
KD4-3/8-A		G3/8	41,5	
KD4-1/2-A		G1/2	43	24

Dimensions

Dimensions – Coupling socket KD4, female thread

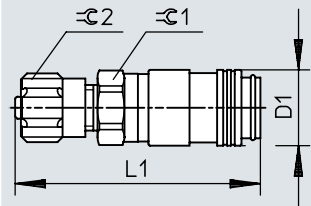
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	D1 Ø	D2	L1	$\varnothing 1$
KD4-1/4-I	26,4	G1/4	46	22
KD4-3/8-I		G3/8	47,5	
KD4-1/2-I		G1/2	50,5	24

Dimensions

Dimensions – Coupling socket KD4, quick connector Download CAD data → www.festo.com

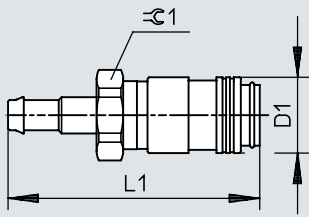


	D1 Ø	L1	Ø 1	Ø 2
KD4-CK-6	26,4	46,4	22	14
KD4-CK-9		49,8		19

Dimensions

Dimensions – Coupling socket KD4, barbed fitting

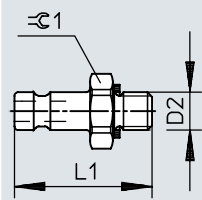
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	D1 Ø	L1	± 0.1
KD4-N-9	26,4	56,2	21

Dimensions

Dimensions – Quick coupling plug KS4, male thread Download CAD data → www.festo.com

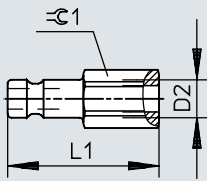


	D2	L1	≡ 1
KS4-1/4-A	G1/4	32,5	17
KS4-3/8-A	G3/8	34	19
KS4-1/2-A	G1/2	37,5	24

Dimensions

Dimensions – Quick coupling plug KS4, female thread

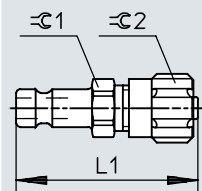
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	D2	L1	≈C1
KS4-1/4-I	G1/4	38,5	17
KS4-3/8-I	G3/8	39,5	19
KS4-1/2-I	G1/2	44	24

Dimensions

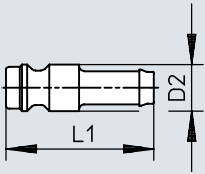
Dimensions – Quick coupling plug KS4, quick connector Download CAD data → www.festo.com



	L1	$\varnothing 1$	$\varnothing 2$
KS4-CK-4	40,2	17	12
KS4-CK-6	40,3		14
KS4-CK-9	43,7	19	19

Dimensions

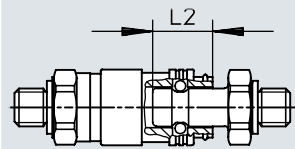
Dimensions – Quick coupling plug KS4, barbed fitting

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	D2	L1
KS4-N-6	12	47
KS4-N-9		

Dimensions

Dimensions – Quick coupling plug KS4, insertion depth Download CAD data → www.festo.com

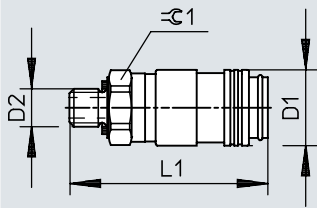


	L2
KS4-1/4-A	14,95
KS4-3/8-A	
KS4-1/2-A	
KS4-1/4-I	14,95
KS4-3/8-I	
KS4-1/2-I	
KS4-CK-4	14,95
KS4-CK-6	
KS4-CK-9	
KS4-N-6	14,95
KS4-N-9	

Dimensions

Dimensions – Coupling socket KD...-R, male thread

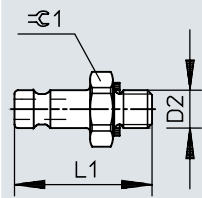
Download CAD data → www.festo.com



	D1 ø	D2	L1	≡ 1
KD3-1/8-A-R	16	G1/8	36	14
KD4-1/4-A-R	26,4	G1/4	40,5	22

Dimensions

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

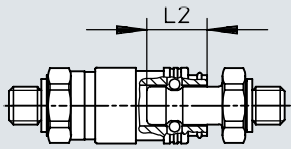


	D2	L1	G1
KS3-1/8-A-R	G1/8	39,8	14
KS4-1/4-A-R	G1/4	42,5	22

Dimensions

Dimensions – Push-in coupling KD...-R/KS...-R, insertion depth

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	L2
KD3-1/8-A-R	13,6
KD4-1/4-A-R	14,95
KS3-1/8-A-R	13,6
KS4-1/4-A-R	14,95

Dimensions

Dimensions – Union nut MCK for quick connector

Download CAD data → www.festo.com

The technical drawing illustrates the dimensions of a coupling socket. The side view on the left shows a cylindrical component with a central bore and a flange at the bottom. Dimension D1 indicates the outer diameter of the main body, L1 indicates the length of the main body, and G1 indicates the diameter of the central bore. The front view in the center shows the circular flange with eight radial slots. A detail view on the right shows a cross-section of the flange with a central hole.

	D1	L1	⌀G1
MCK-PK-3-KD	M6x0,75	8,5	8
MCK-PK-4-KD	M10x1	11	12
MCK-PK-6-KD	M12x1	11	14
MCK-PK-9-KD	M16x1	14,4	19

Ordering data

Ordering data – Coupling sockets NPHS-D6-M (metal releasing sleeve)						
Short type code	Pneumatic connection, port 1	Standard nominal flow rate	Nominal flow rate standardised according to ISO 8778	Product weight	Part no.	Type
KD1	Male thread M3	44 l/min	47.7 l/min	2.9 g	151995	KD1-M3-A
KS1	Barbed hose fitting 2 mm			0.4 g	151996	KS1-CN-2

Ordering data – Coupling sockets NPHS-D6-M (metal releasing sleeve)						
Short type code	Pneumatic connection, port 1	Standard nominal flow rate	Nominal flow rate standardised according to ISO 8778	Product weight	Part no.	Type
KD2	Male thread M5	83 ... 131 l/min	90 ... 142 l/min	10 g	4087	KD2-M5-A
	Female thread M5	84 ... 135 l/min	91.1 ... 146.3 l/min	12 g	531620	KD2-M5-I
	For tubing outer diameter of 4 mm, For barbed fitting I.D. 3 mm with union nut	68 ... 88 l/min	73.7 ... 95.4 l/min	11 g	531621	KD2-CK-3
	CK-4, For barbed fitting I.D. 4 mm with union nut	82 ... 130 l/min	88.9 ... 140.9 l/min	16 g	531622	KD2-CK-4
KS2	Male thread M5	85 ... 136 l/min	92.1 ... 147.4 l/min	5 g	531658	KS2-M5-A
	Female thread M5	88 ... 139 l/min	95.4 ... 150.7 l/min		531660	KS2-M5-I
	For tubing outer diameter of 4 mm, For barbed fitting I.D. 3 mm with union nut	68 ... 84 l/min	73.7 ... 91.1 l/min	4 g	4091	KS2-CK-3
	For tubing outside diameter of 6 mm, For barbed fitting I.D. 4 mm with union nut	86 ... 129 l/min	93.2 ... 139.8 l/min	11 g	4090	KS2-CK-4

Ordering data – Coupling sockets NPHS-D6-M (metal releasing sleeve)						
Short type code	Pneumatic connection, port 1	Standard nominal flow rate	Nominal flow rate standardised according to ISO 8778	Product weight	Part no.	Type
KD3	Male thread G1/8			28 g	531659	KD3-1/8-A-R
		185 ... 572 l/min	200.5 ... 620 l/min		2142	KD3-1/8-A
	Male thread G1/4	185 ... 594 l/min	200.5 ... 643.9 l/min	35 g	531626	KD3-1/4-A
	Female thread G1/8	185 ... 603 l/min	200.5 ... 653.7 l/min	32 g	531627	KD3-1/8-I
	Female thread G1/4	185 ... 666 l/min	200.5 ... 721.9 l/min	47 g	531628	KD3-1/4-I
	For tubing outside diameter of 6 mm, For barbed fitting I.D. 4 mm with union nut	158 ... 225 l/min	171.3 ... 243.9 l/min	31 g	531629	KD3-CK-4
	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut	180 ... 468 l/min	195.1 ... 507.3 l/min	32 g	531630	KD3-CK-6
KS3	Male thread G1/8				531667	KS3-1/8-A-R
		225 ... 648 l/min	243.9 ... 702.4 l/min	13 g	3492	KS3-1/8-A
	Male thread G1/4	225 ... 653 l/min	243.9 ... 707.9 l/min	23 g	531666	KS3-1/4-A
	Female thread G1/8	225 ... 617 l/min	243.9 ... 668.8 l/min	16 g	531668	KS3-1/8-I
	Female thread G1/4	225 ... 666 l/min	243.9 ... 721.9 l/min	27 g	531669	KS3-1/4-I
	CK-4, For barbed fitting I.D. 4 mm with union nut	158 ... 185 l/min	171.3 ... 200.5 l/min	16 g	3326	KS3-CK-4
	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut	216 ... 464 l/min	234.1 ... 503 l/min	21 g	3478	KS3-CK-6

Coupling socket, quick coupling plug KD

Ordering data

Ordering data – Coupling sockets NPHS-D6-M (metal releasing sleeve)						
Short type code	Pneumatic connection, port 1	Standard nominal flow rate	Nominal flow rate standardised according to ISO 8778	Product weight	Part no.	Type
KD4	Male thread G1/4	261 ... 1287 l/min	282.9 ... 1395.1 l/min	57 g	2143	KD4-1/4-A
		765 l/min	829.3 l/min	58 g	531694	KD4-1/4-A-R
	Male thread G3/8	261 ... 1274 l/min	282.9 ... 1381 l/min	62 g	2144	KD4-3/8-A
	Male thread G1/2	257 ... 1337 l/min	278.6 ... 1449.3 l/min	78 g	2145	KD4-1/2-A
	Female thread G1/4	257 ... 1292 l/min	278.6 ... 1400.5 l/min	88 g	531636	KD4-1/4-I
	Female thread G3/8	261 ... 1350 l/min	282.9 ... 1463.4 l/min	82 g	531637	KD4-3/8-I
	Female thread G1/2	257 ... 1332 l/min	278.6 ... 1443.9 l/min	86 g	531638	KD4-1/2-I
	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut	252 ... 756 l/min	273.2 ... 819.5 l/min	63 g	531639	KD4-CK-6
	For barbed fitting inside diameter of 9 mm with union nut	261 ... 1116 l/min	282.9 ... 1209.7 l/min	71 g	531640	KD4-CK-9
	Barbed hose fitting 9 mm	810 ... 1152 l/min	878 ... 1248.8 l/min	57 g	531641	KD4-N-9
KS4	Male thread G1/4	756 ... 1323 l/min	819.5 ... 1434.1 l/min	21 g	2154	KS4-1/4-A
		765 l/min	829.3 l/min	46 g	531677	KS4-1/4-A-R
	Male thread G3/8	756 ... 1323 l/min	819.5 ... 1434.1 l/min	29 g	2155	KS4-3/8-A
	Male thread G1/2			55 g	531676	KS4-1/2-A
	Female thread G1/4	720 ... 1161 l/min	780.5 ... 1258.5 l/min	31 g	531678	KS4-1/4-I
	Female thread G3/8	756 ... 1350 l/min	819.5 ... 1463.4 l/min	32 g	531679	KS4-3/8-I
	Female thread G1/2	756 ... 1314 l/min	819.5 ... 1424.4 l/min	57 g	531680	KS4-1/2-I
	For tubing outside diameter of 6 mm, For barbed fitting I.D. 4 mm with union nut	252 ... 261 l/min	273.2 ... 282.9 l/min	26 g	2150	KS4-CK-4
	For tubing outer diameter of 8 mm, For barbed fitting I.D. 6 mm with union nut	432 ... 495 l/min	468.3 ... 536.6 l/min		2151	KS4-CK-6
	For barbed fitting inside diameter of 9 mm with union nut	725 ... 1197 l/min	785.9 ... 1297.5 l/min		531683	KS4-CK-9
	Barbed hose fitting 6 mm	441 ... 495 l/min	478 ... 536.6 l/min	15 g	2152	KS4-N-6
	Barbed hose fitting 9 mm	711 ... 1134 l/min	770.7 ... 1229.3 l/min	18 g	2153	KS4-N-9

Ordering data – Coupling sockets NPHS-D6-M (metal releasing sleeve)						
Short type code	Pneumatic connection, port 1	Standard nominal flow rate	Nominal flow rate standardised according to ISO 8778	Product weight	Part no.	Type
KD3	Male thread G1/8			28 g	531659	KD3-1/8-A-R
KD4	Male thread G1/4	765 l/min	829.3 l/min	58 g	531694	KD4-1/4-A-R
KS3	Male thread G1/8			32 g	531667	KS3-1/8-A-R
KS4	Male thread G1/4	765 l/min	829.3 l/min	46 g	531677	KS4-1/4-A-R

Accessories

Union nut MCK			
	Short type code	Part no.	Type
	MCK	533674	MCK-PK-6-KD
		533673	MCK-PK-4-KD
		533675	MCK-PK-9-KD
		533672	MCK-PK-3-KD