

## Main features and certifications

Quick-lock couplings single shut off (only on coupling) in brass not nickel-plated. Connection tightness of the coupling with the stem is granted by a series of spheres. This allows a longer life time even when connections and disconnections are frequent. Divided in couplings (type KA) and stems (type SF), are available in different sizes (20, 21 and 26) and many configurations. Supplied as standard in compliance to Reach and RoHS directives.



## Quick-lock couplings

from page 4.40.10



Quick-lock couplings in standard brass (not nickel-plated) with european profile. Available in many configurations and in three sizes. Size 20 (DN 2,7) is compact dimensions and can be used in different fields, suitable for chemical, medical, pharmaceutical and similar. Size 21 (DN 5) is the most common size, so is used in various fields. Size 26 (DN 7,2) is the biggest, is used in almost every field, and is often called "universal".



# Quick-lock couplings



## Code key

Size	Series <sup>(1)</sup>	Type <sup>(1)</sup>	Thread or Tube <sup>(1)</sup>	Material	Seals	Surface treatment
<b>21</b>	<b>KA</b>	<b>AW</b>	<b>13</b>	<b>M</b>	<b>P</b>	<b>X</b>
20 = 6 mm <sup>2</sup> (DN 2,7) 21 = 20 mm <sup>2</sup> (DN 5) 26 = 40 mm <sup>2</sup> (DN7,2)	KA = Coupling SF = Stem	AM = Male metric thread (DIN 13) AD = Male metric thread (DIN 2353, ISO 8434-1) AW = BSP male thread (ISO 228) IM = Metric female thread (DIN 13) IW = BSP female thread (ISO 228) TF = With hose adapter KO = With rapid fitting KS = With bulkhead rapid fitting TS = With bulkhead hose adapter KK = With rapid fitting and anti-deviation spring	03 = -      Ø 3 04 = -      Ø 4 05 = M5x0,8      Ø 5 06 = -      Ø 6 08 = -      Ø 8 09 = -      Ø 9 10 = M10x1      Ø 10 10 = 1/8"      - 12 = M12x1,5      Ø 12 13 = 1/4"      Ø 13 14 = M14x1,5      - 16 = M16x1,5      - 17 = 3/8"      - 18 = M18x1,5      - 21 = 1/2"      -	M = Brass	P = NBR X = None	X = None

## Notes

The options in the same grind are alternative to each others.  
 For standard materials and technical features see page 4.40.12  
 (1) For matching between size, coupling, stem, type and thread or tube diameter, see from page 4.40.11; for the specific type, see the following pages.  
 On request are also available other types, sizes, material, seals and surface treatments. For further informations and availability, please contact the sales department.

## How to order - Couplings

Size	Series	Type	Thread	Material	Seals	Surface treatment
21	KA	AW	13	M	P	X

## How to order - Stems

Size	Series	Type	Thread	Material	Seals	Surface treatment
21	SF	KO	08	M	X	X

## Quick-lock couplings

Type				Parallel threads (BSP)	Metric threads	For tube (internal) Ø mm	Data sheet and code page
KA	AM	Coupling with male metric thread (DIN 13)		-	M5x0,8	-	4.40.20
KA	AD	Coupling with male metric thread (DIN 2353, ISO 8434-1)		-	M12x1,5, M14x1,5, M16x1,5, M18x1,5	-	4.40.20
KA	AW	Coupling with BSP male thread (ISO 228)		1/8", 1/4", 3/8", 1/2"	-	-	4.40.20
KA	IM	Coupling with female metric thread (DIN 13)		-	M5x0,8, M12x1,5, M14x1,5, M16x1,5, M18x1,5	-	4.40.20
KA	IW	Coupling with BSP female thread (ISO 228)		1/8", 1/4", 3/8", 1/2"	-	-	4.40.20
KA	TF	Coupling with hose adapter		-	-	3, 4, 5, 6, 8, 9, 10, 13	4.40.21
KA	KO	Coupling with rapid fitting		-	-	4, 5, 6, 8, 10, 12	4.40.21
KA	KS	Coupling with bulkhead rapid fitting		-	-	4, 5, 6	4.40.22
KA	TS	Coupling with bulkhead hose adapter		-	-	3, 4, 6, 8, 9, 10	4.40.22
KA	KK	Coupling with rapid fitting and anti-deviation spring		-	-	6, 8, 10, 12	4.40.23
SF	AM	Stem with male metric thread (DIN 13)		-	M5x0,8	-	4.40.40
SF	AD	Stem with male metric thread (DIN 2353, ISO 8434-1)		-	M12x1,5, M14x1,5, M16x1,5, M18x1,5	-	4.40.40
SF	AW	Stem with BSP male thread (ISO 228)		1/8", 1/4", 3/8", 1/2"	-	-	4.40.40
SF	IM	Stem with female metric thread (DIN 13)		-	M5x0,8, M12x1,5, M14x1,5, M16x1,5, M18x1,5	-	4.40.40
SF	IW	Stem with BSP female thread (ISO 228)		1/8", 1/4", 3/8", 1/2"	-	-	4.40.40
SF	TF	Stem with hose adapter		-	-	3, 4, 5, 6, 8, 9, 10, 13	4.40.41
SF	KO	Stem with rapid fitting		-	-	4, 5, 6, 8, 10, 12	4.40.41
SF	KS	Stem with bulkhead rapid fitting		-	-	4, 5, 6, 8	4.40.42
SF	TS	Stem with bulkhead hose adapter		-	-	3, 4, 5, 6, 8, 10	4.40.42
SF	KK	Stem with rapid fitting and anti-deviation spring		-	-	6, 8, 10, 12	4.40.43

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## Technical data

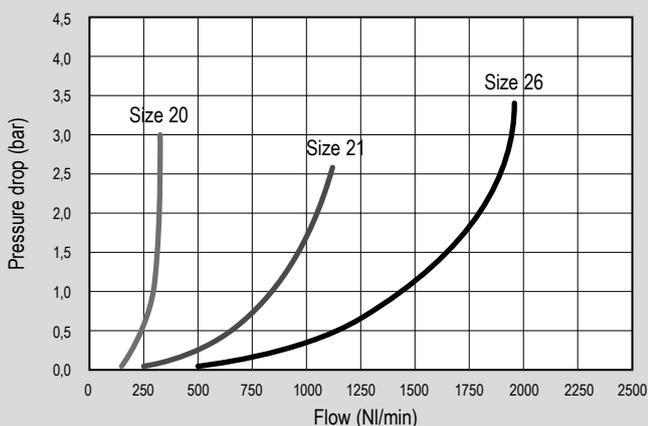
Series	KA			SF		
	Size	20	21	26	20	21
	6 mm <sup>2</sup> (DN 2,7)	20 mm <sup>2</sup> (DN 5)	40 mm <sup>2</sup> (DN 7,2)	6 mm <sup>2</sup> (DN 2,7)	20 mm <sup>2</sup> (DN 5)	40 mm <sup>2</sup> (DN 7,2)
Fluid	Compressed air, water, non-aggressive fluids					
Pressure range	0 ÷ 35 bar					
Vacuum	-99 KPa					
Temperature range	-20°C ÷ +100°C					
Metric threads	DIN 13	DIN 2353, ISO 8434-1		DIN 13	DIN 2353, ISO 8434-1	
Parallel threads	ISO 228					
Tubes	Calibrated Nylon (PA6), Polyurethane (PU) and Rilsan (PA11)					

## Standard materials

Series	KA		SF	
	Body	Brass OT58		
Valve	Brass OT58		-	
Releasing sleeve	Brass OT58			
Springs	Stainless Steel AISI 301			
Elastic ring	Stainless Steel AISI 301			
Spheres	Stainless Steel AISI 420			
Seals	NBR			

## Flow diagram

P = 6 bar, with ΔP 1 bar



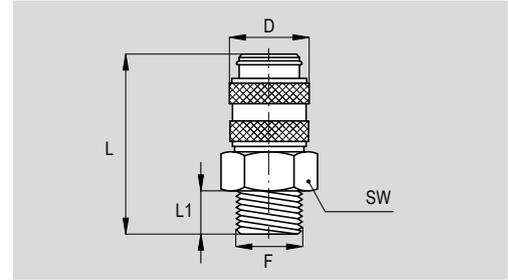
# Quick-lock couplings

## Couplings series KA



### Main features

Type	Description
KA AD	Coupling with male metric thread (DIN 13)
KA AM	Coupling with male metric thread (DIN 2353, ISO 8434-1)
KA AW	Coupling with BSP male thread (ISO 228)

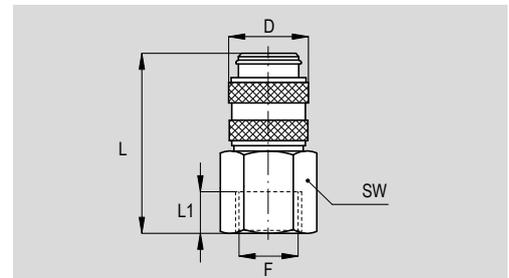


### Dimensions

Code	Item	Size	F (Thread)	SW	L	D	L1	Weight (g)
570002	20KAAM05MPX	20 (DN 2,7)	M5X0,8	9	26	10	5	9
570015	20KAAW10MPX		G1/8"	11	28	10	7	12
570043	21KAAW10MPX	21 (DN 5)	G1/8"	14	37	16	7	27
570044	21KAAW13MPX		G1/4"	17	38	16	9	36
570045	21KAAW17MPX		G3/8"	19	38	16	9	43
570046	21KAAD12MPX		M12x1,5	17	39	16	10	37
570047	21KAAD14MPX	M14x1,5	17	17	39	16	10	37
570100	26KAAW10MPX	26 (DN7,2)	G1/8"	22	38	27	7	70
570006	26KAAW13MPX		G1/4"	22	40	27	9	73
570101	26KAAW17MPX		G3/8"	22	41	27	9	76
570102	26KAAW21MPX		G1/2"	24	41	27	10	87
570104	26KAAD14MPX		M14x1,5	22	40	27	9	75
570105	26KAAD16MPX		M16x1,5	22	40	27	9	75
570106	26KAAD18MPX		M18x1,5	22	40	27	10	78

### Main features

Type	Description
KA IM	Coupling with female metric thread (DIN 13)
KA IW	Coupling with BSP female thread (ISO 228)



### Dimensions

Code	Item	Size	F (Thread)	SW	L	D	L1	Weight (g)
570016	20KAIM05MPX	20 (DN 2,7)	M5X0,8	9	26	10	5	10
570017	20KAIW10MPX		G1/8"	12	28	10	7	14
570048	21KAIW10MPX	21 (DN 5)	G1/8"	14	37	16	9	32
570049	21KAIW13MPX		G1/4"	17	38	16	9	38
570050	21KAIW17MPX		G3/8"	19	39	16	10,5	39
570051	21KAIM12MPX		M12x1,5	17	38	16	9	39
570052	21KAIM14MPX	M14x1,5	17	17	38	16	9	37
570107	26KAIW13MPX	26 (DN7,2)	G1/4"	22	41	27	10,5	92
570108	26KAIW17MPX		G3/8"	22	41	27	10,5	85
570109	26KAIW21MPX		G1/2"	24	42,5	27	12	87
570110	26KAIM14MPX		M14x1,5	22	41,5	27	11	90
570111	26KAIM16MPX		M16x1,5	22	41,5	27	11	84
570112	26KAIM18MPX		M18x1,5	22	41,5	27	12	80

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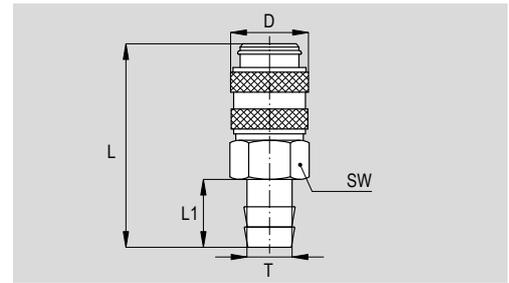
# Quick-lock couplings

## Couplings series KA



### Main features

Type	Description
KA TF	Coupling with hose adapter

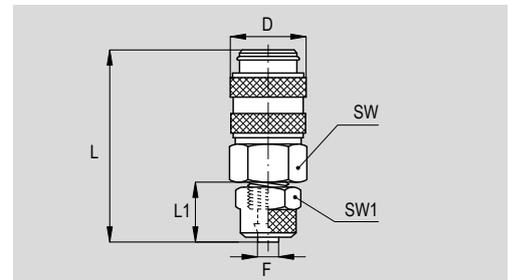


### Dimensions

Code	Item	Size	T (Ø int. Tube)	SW	L	D	L1	Weight (g)
570018	20KATF03MPX	20 (DN 2,7)	3	12	35	10	13	9
570019	20KATF04MPX		4	12	35	10	13	10
570020	20KATF05MPX		5	12	35	10	13	10
570053	21KATF04MPX	21 (DN 5)	4	14	46	16	17	27
570054	21KATF06MPX		6	14	46	16	17	27
570055	21KATF08MPX		8	14	46	16	17	29
570056	21KATF09MPX		9	14	46	16	17	29
570113	26KATF06MPX	26 (DN7,2)	6	21	55	27	25	64
570114	26KATF08MPX		8	21	55	27	25	67
570115	26KATF09MPX		9	21	55	27	25	68
570116	26KATF10MPX		10	21	55	27	25	70
570117	26KATF13MPX		13	21	55	27	25	75

### Main features

Type	Description
KA KO	Coupling with rapid fitting



### Dimensions

Code	Item	Size	T (Ø Tube)	SW	SW1	L	D	L1	Weight (g)
570021	20KAKO04MPX	20 (DN 2,7)	4x3	9	-	33	10	12	15
570022	20KAKO05MPX		5x3	9	-	33	10	12	15
570023	20KAKO06MPX		6x4	9	-	32	10	12	15
570059	21KAKO06MPX	21 (DN 5)	6x4	14	12	43	16	13	32
570060	21KAKO08MPX		8x6	14	14	43	16	13	34
570270	26KAKO06MPX	26 (DN7,2)	6x4	22	12	44	27	11	73
570121	26KAKO08MPX		8x6	22	14	44	27	13	78
570122	26KAKO10MPX		10x8	22	17	48	27	17	83
570123	26KAKO12MPX		12x9	22	17	48	27	17	85

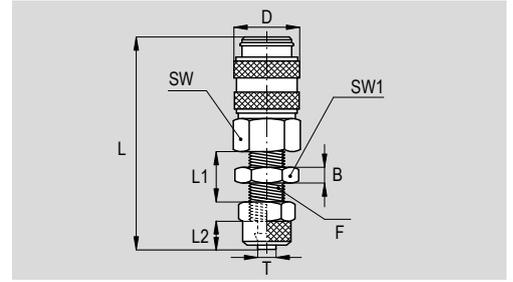
# Quick-lock couplings

## Couplings series KA



### Main features

Type	Description
KA KS	Coupling with bulkhead rapid fitting

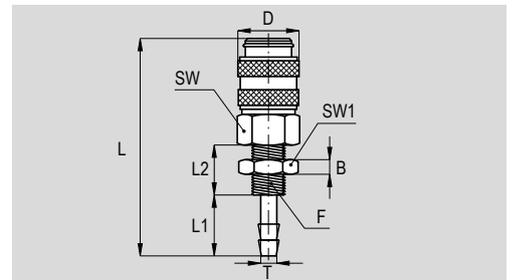


### Dimensions

Code	Item	Size	T (Ø Tube)	F	B	SW	SW1	L	D	L1	L2	Weight (g)
570024	20KAKS04MPX	20 (DN 2,7)	4x3	M7x0,5	3	12	11	45	10	17	7	26
570025	20KAKS05MPX		5x3	M7x0,5	3	12	11	45	10	17	7	26
570026	20KAKS06MPX		6x4	M8x0,5	3,5	12	12	45	10	17	7	26

### Main features

Type	Description
KA TS	Coupling with bulkhead hose adapter



### Dimensions

Code	Item	Size	T (Ø int. Tube)	F	SW	SW1	L	B	D	L1	L2	Weight (g)
570027	20KATS03MPX	20 (DN 2,7)	3	M7x0,5	12	11	51	3	10	13	17	24
570028	20KATS04MPX		4	M7x0,5	12	11	51	3	10	13	17	24
570063	21KATS04MPX	21 (DN 5)	4	M10x1	14	14	60	4	16	17	14	40
570065	21KATS06MPX		6	M12x1	17	17	60	4	16	17	14	45
572510	21KATS09MPX		9	M12x1	17	19	60	4	16	17	14	47
572378	26KATS06MPX	26 (DN7,2)	6	M12x1	22	17	62	4	27	17	14	87
572379	26KATS08MPX		8	M12x1	22	17	62	4	27	17	14	88
572380	26KATS10MPX		10	M14x1	22	19	70	4	27	25	14	90

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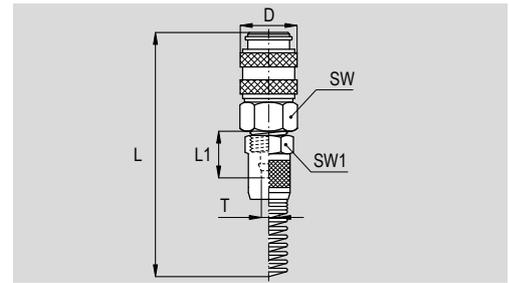
# Quick-lock couplings

## Couplings series KA



### Main features

Type	Description
KA KK	Coupling with rapid fitting and anti-deviation spring



### Dimensions

Code	Item	Size	T (Ø Tube)	SW	SW1	L	D	L1	Weight (g)
570067	21KAKK06MPX	21 (DN 5)	6x4	14	12	120	16	13	39
570068	21KAKK08MPX		8x6	14	14	130	16	13	44
570124	26KAKK08MPX	26 (DN7,2)	8x6	22	14	130	27	13	90
570125	26KAKK10MPX		10x8	22	19	136	27	17	120
570126	26KAKK12MPX		12x9	22	19	126	27	17	141

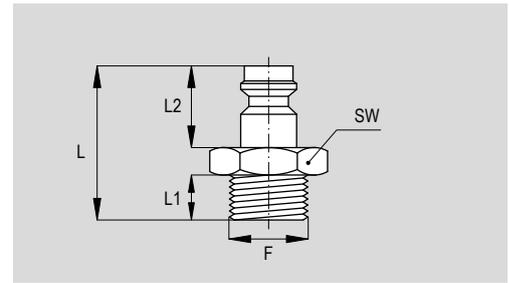
# Quick-lock couplings

## Stems series SF



### Main features

Type	Description
SF AM	Stem with male metric thread (DIN 13)
SF AD	Stem with male metric thread (DIN 2353, ISO 8434-1)
SF AW	Stem with BSP male thread (ISO 228)

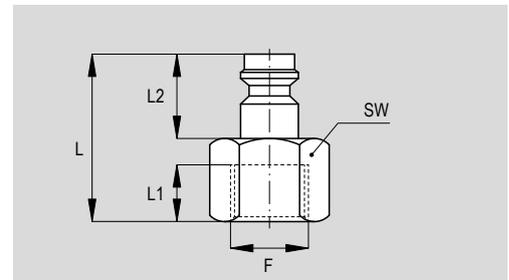


### Dimensions

Code	Item	Size	F (Thread)	SW	L	L1	L2	Weight (g)
570039	20SFAM05MXX	20 (DN 2,7)	M5x0,8	7	18	5	10	3
570040	20SFAW10MXX		G1/8"	11	20	7	10	6
570088	21SFAW10MXX	21 (DN 5)	G1/8"	13	25	7	14	11
570089	21SFAW13MXX		G1/4"	17	27,5	9	14	18
570090	21SFAW17MXX		G3/8"	19	27,5	9	14	21
570091	21SFAD10MXX		M10x1	13	26	8	14	11
570092	21SFAD12MXX		M12x1,5	17	28,5	10	14	18
570093	21SFAD14MXX	M14x1,5	17	28,5	10	14	19	
570147	26SFAW10MXX	26 (DN7,2)	G1/8"	13	31	7	20	17
570148	26SFAW13MXX		G1/4"	17	33	9	20	21
570149	26SFAW17MXX		G3/8"	19	33	9	20	26
570150	26SFAW21MXX		G1/2"	24	35	10	20	41
570151	26SFAD14MXX		M14x1,5	17	33	9	20	26
570152	26SFAD16MXX		M16x1,5	19	33	9	20	32
570153	26SFAD18MXX		M18x1,5	22	34	10	20	36

### Main features

Type	Description
SF IM	Stem with female metric thread (DIN 13)
SF IW	Stem with BSP female thread (ISO 228)

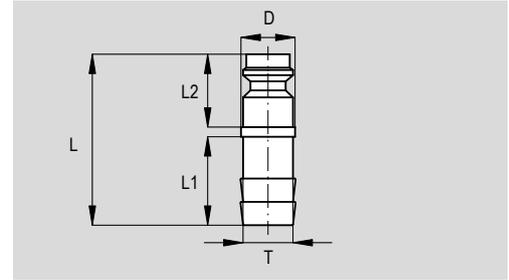


### Dimensions

Code	Item	Size	F (Thread)	SW	L	L1	L2	Weight (g)
570041	20SFIM05MXX	20 (DN 2,7)	M5x0,8	7	17	5	10	3
570042	20SFIW10MXX		G1/8"	12	19	7	10	6
570094	21SFIW10MXX	21 (DN 5)	G1/8"	13	25	9	14	12
570095	21SFIW13MXX		G1/4"	17	26	10	14	18
570096	21SFIW17MXX		G3/8"	19	26,5	10,5	14	22
570097	21SFIM10MXX		M10x1	13	22,5	7	14	10
570098	21SFIM12MXX		M12x1,5	17	25	9	14	19
570099	21SFIM14MXX	M14x1,5	17	25	9	14	17	
570154	26SFIW10MXX	26 (DN7,2)	G1/8"	13	31	9	20	16
570155	26SFIW13MXX		G1/4"	17	33	10	20	24
570156	26SFIW17MXX		G3/8"	19	33	10	20	23
570157	26SFIW21MXX		G1/2"	24	35	12	20	38
570158	26SFIM14MXX		M14x1,5	17	33	11	20	25
570159	26SFIM16MXX		M16x1,5	19	33	11	20	36
570160	26SFIM18MXX		M18x1,5	22	35	12	20	43

Main features

Type	Description
SF TF	Stem with hose adapter

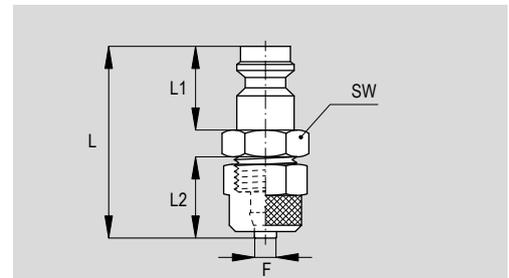


Dimensions

Code	Item	Size	T (Ø int. Tube)	L	D	L1	L2	Weight (g)
570029	20SFTF03MXX	20 (DN 2,7)	3	24	7	13	10	2
570030	20SFTF04MXX		4	24	7	13	10	3
570031	20SFTF05MXX		5	24	9	13	10	3
570069	21SFTF04MXX	21 (DN 5)	4	32	9	16,5	14	7
570070	21SFTF05MXX		5	32	12	16,5	14	8
570071	21SFTF06MXX		6	32	12	16,5	14	8
570072	21SFTF08MXX		8	32	12	16,5	14	12
570073	21SFTF09MXX		9	38	12	23	14	11
570127	26SFTF04MXX	26 (DN7,2)	4	44	12	22,5	20	10
570128	26SFTF06MXX		6	44	12	24	20	14
570129	26SFTF08MXX		8	44	12	24	20	18
570130	26SFTF09MXX		9	44	12	24	20	17
570131	26SFTF10MXX		10	44	12	23	20	19
570132	26SFTF13MXX		13	44	15	23	20	24

Main features

Type	Description
SF KO	Stem with rapid fitting



Dimensions

Code	Item	Size	T (Ø Tube)	SW	L	L1	L2	Weight (g)
570003	20SFKO04MXX	20 (DN 2,7)	4x3	8	25	10	12	12
570032	20SFKO05MXX		5x3	8	25	10	12	12
570033	20SFKO06MXX		6x4	8	25	10	12	12
570076	21SFKO06MXX	21 (DN 5)	6x4	12	32	14	12	16
570077	21SFKO08MXX		8x6	14	32	14	12	23
570136	26SFKO06MXX	26 (DN7,2)	6x4	12	34	20	13	18
570137	26SFKO08MXX		8x6	14	34	20	13	19
570138	26SFKO10MXX		10x8	17	43	20	17	38
570139	26SFKO12MXX		12x9	17	43	20	17	36

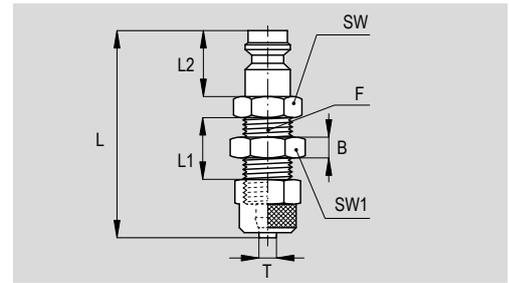
# Quick-lock couplings

## Stems series SF



### Main features

Type	Description
SF KS	Stem with bulkhead rapid fitting

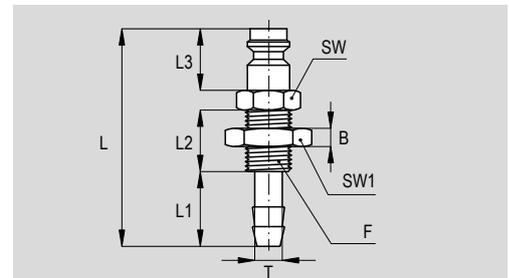


### Dimensions

Code	Item	Size	T (Ø Tube)	F	B	SW	SW1	L	L1	L2	Weight (g)
570034	20SFKS04MXX	20 (DN 2,7)	4x3	M7x0,5	3	12	11	38	17	10	23
570035	20SFKS05MXX		5x3	M7x0,5	3	12	11	38	17	10	23
570036	20SFKS06MXX		6x4	M8x0,5	3,5	12	12	38	17	10	23

### Main features

Type	Description
SF TS	Stem with bulkhead hose adapter



### Dimensions

Code	Item	Size	T (Ø int. Tube)	F	SW	SW1	L	B	L1	L2	L3	Weight (g)
570037	20SFTS03MXX	20 (DN 2,7)	3	M7x0,5	12	11	45	3	13	17	10	21
570038	20SFTS04MXX		4	M7x0,5	12	11	45	3	13	17	10	21
570080	21SFTS04MXX	21 (DN 5)	4	M10x1	14	14	50	4	17	14	14	20
570082	21SFTS06MXX		6	M12x1	14	17	50	4	17	14	14	25
570084	21SFTS09MXX		9	M12x1	17	19	50	4	17	14	14	30
570140	26SFTS06MXX	26 (DN7,2)	6	M12x1	14	17	56	4	17	14	20	30
570141	26SFTS08MXX		8	M12x1	17	17	56	4	17	14	20	45
570142	26SFTS10MXX		10	M14x1	17	19	56	4	17	14	20	42

4 - ACCESSORIES

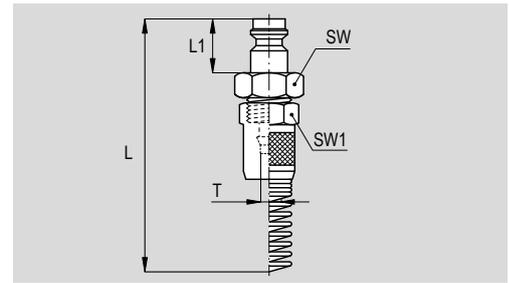
# Quick-lock couplings

## Stems series SF



### Main features

Type	Description
SF KK	Stem with rapid fitting and anti-deviation spring



### Dimensions

Code	Item	Size	T (Ø Tube)	SW	SW1	L	L1	Weight (g)
570086	21SFKK06MXX	21 (DN 5)	6x4	14	12	110	14	26
570087	21SFKK08MXX		8x6	14	14	120	14	29
570143	26SFKK06MXX	26 (DN7,2)	6x4	-	12	115	20	30
570144	26SFKK08MXX		8x6	-	14	115	20	37
570145	26SFKK10MXX		10x8	17	19	132	20	83
570146	26KAKK12MXX		12x9	17	19	132	20	86

