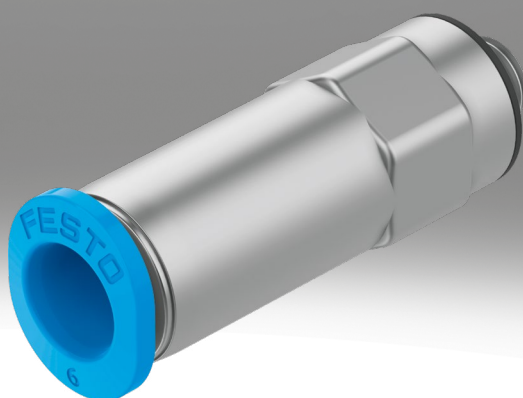


Push-in fitting QSK

FESTO



Characteristics

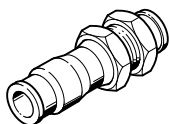
At a glance

The self-sealing push-in fitting QSK blocks the air flow after the tubing is disconnected.

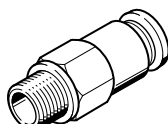
- PBT and nickel-plated brass
- Operating medium: compressed air, vacuum
- Straight shape, L-shape, push-in bulkhead connector

Series

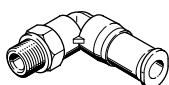
[QSSK] Push-in bulkhead connector QSSK



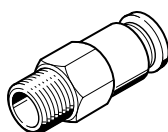
[QSK] Push-in connector, self-sealing QSK



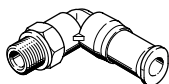
[QSKL] Push-in connector, self-sealing, L-shape QSKL



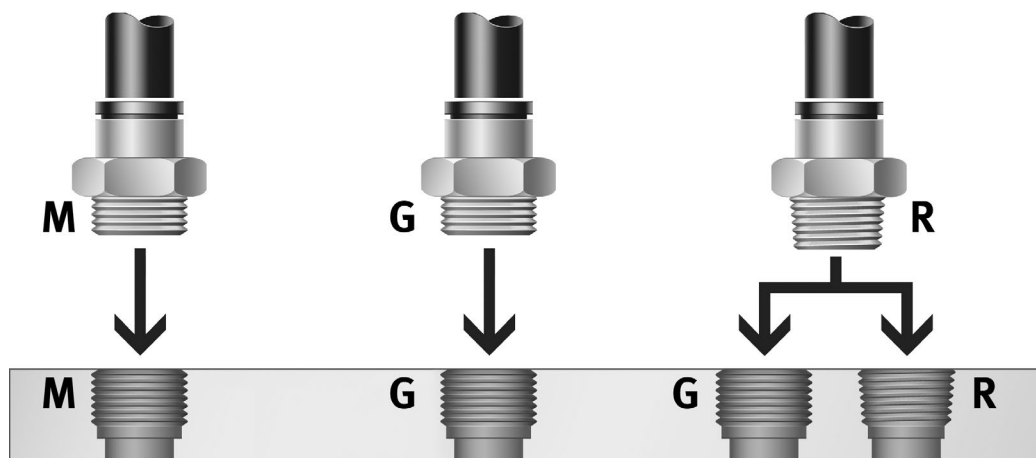
[QSMK] Push-in connector, self-sealing, mini QSMK



[QSMKL] Push-in connector, self-sealing, mini, L-shape QSMKL



Pneumatic connection 1



Push-in fittings for different tube outside diameters can be combined with push-in fittings, push-in sleeves, metric male threads, male R and G threads.

Which fitting fits into which thread?

- Metric thread: Threads are comparable to G threads and are mounted in metric cylindrical threads. Tightness is ensured by a chambered O-ring.
- G thread to ISO 228-1: shorter thread, constant installation depth, replaceable sealing ring, seal on the front, reusable several times thanks to replaceable sealing ring.
- R thread to EN 10226-1 and ISO 7/1: self-locking thread, seal on the thread, no additional sealing surface required, smaller installation dimensions as no shoulder for sealing surface, can be reused up to 5 times. When combining a male R thread with a female G thread, leakage can occur if the female G thread is not manufactured properly or has an unfavourable limit tolerance. In this case, an additional seal is required, e.g. with sealing band.

Type code

001	Series	
QSSK	Push-in bulkhead connector QSSK	
QSK	Push-in connector, self-sealing QSK	
QSKL	Push-in connector, self-sealing, L-shape QSKL	
QSMK	Push-in connector, self-sealing, mini QSMK	
QSMKL	Push-in connector, self-sealing, mini, L-shape QSMKL	

002	Pneumatic connection 1	
1/8	Male thread R1/8	
1/4	Male thread R1/4	
3/8	Male thread R3/8	
1/2	Male thread R1/2	
4	Push-in connector 4 mm	
6	Push-in connector 6 mm	
8	Push-in connector 8 mm	
10	Push-in connector 10 mm	
12	Push-in connector 12 mm	
G1/8	Male thread G1/8	
G1/4	Male thread G1/4	
G3/8	Male thread G3/8	
G1/2	Male thread G1/2	
M5	Male thread M5	

003	Pneumatic connection 2	
	Same size push-in connector as pneumatic connection 1	
4	Push-in connector 4 mm	
6	Push-in connector 6 mm	
8	Push-in connector 8 mm	
10	Push-in connector 10 mm	
12	Push-in connector 12 mm	

Datasheet

General technical data

Size	Mini	Standard
Design	Push-pull principle	
Mounting position	optional	
Type of seal on screwed plug ¹⁾	Coating, Sealing ring	
Approved tubing type	PAN-, PAN-MF-, PAN-R-, PAN-V0-, PEN-, PFAN-, PLN-, PTFEN-, PUN-, PUN-CM-, PUN-DUO-, PUN-H-, PUN-H-DUO-, PUN-S-, PUN-S-DUO-, PUN-V0-	

1) Sealing ring (G thread), coating (R thread)

Nominal tightening torque

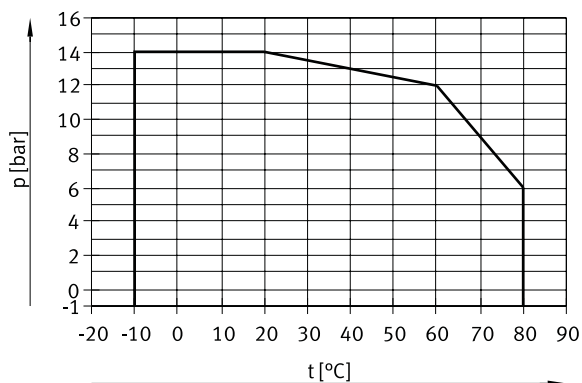
Pneumatic connection, port 1	Male thread M5	Male thread G1/8	Male thread G1/4	Male thread G3/8	Male thread G1/2	Male thread R1/8	Male thread R1/4	Male thread R3/8	Male thread R1/2
Nominal torque	1.2 Nm	5.4 Nm	9 Nm	15.5 Nm	26 Nm	7 Nm	9 Nm	15.5 Nm	26 Nm

Operating and environmental conditions

Operating pressure complete temperature range	-0.95 ... 6 bar
Temperature-dependent operating pressure	-0.95 ... 14 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:::] Water (liquid, ice-free)
Note on operating and pilot medium	Lubricated operation possible
Ambient temperature	-10 ... 80°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress

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

Operating pressure p as a function of temperature t



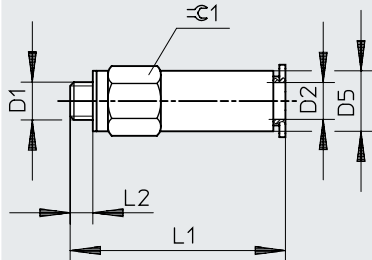
Materials

Size	Mini	Standard
Material housing	PBT	Brass, nickel-plated, PBT
Material release ring	POM	
Material tubing seal	NBR	
Material tubing clamp component	High-alloy stainless steel	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Dimensions

Dimensions – Push-in fitting, self-sealing QSK/QSMK, M thread

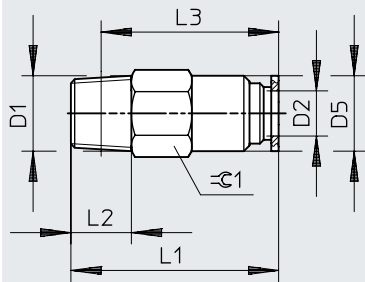
Download CAD data www.festo.com



	D1	D2 Ø	D5 Ø	L1	L2	≡
QSMK-M5-4	M5	4	8	29,5	3,5	8
QSMK-M5-6		6	10	32,5	3,5	10

Dimensions

Dimensions – Push-in fitting, self-sealing QSK/QSMK, R thread [Download CAD data](#) www.festo.com

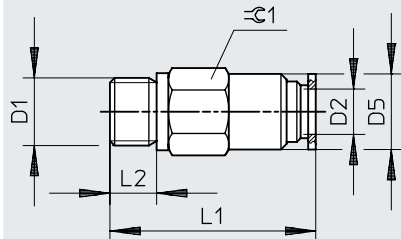


	D1	D2 ø	D5 ø	L1	L2	L3	1
QSMK-1/8-4	R1/8	4	9	25,5	8	20	10
QSMK-1/8-6		6	10	27,5	8	23	10
QSK-1/8-8		8	14	36	8	32	14
QSMK-1/4-6	R1/4	6	12	27,5	11	21	14
QSK-1/4-8		8	14	36	11	30	14
QSK-1/4-10		10	17	38,5	11	32,5	17
QSK-3/8-8	R3/8	8	15	36	12	29,5	17
QSK-3/8-10		10	17	40	12	33,5	17
QSK-3/8-12		12	21	46	12	39,5	21
QSK-1/2-12	R1/2	12	21	46	15	38	21

Dimensions

Dimensions – Push-in fitting, self-sealing QSK/QSMK, G thread

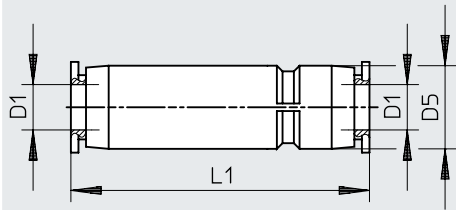
Download CAD data www.festo.com



	D1	D2 ø	D5 ø	L1	L2	≡G
QSMK-G1/8-4	G1/8	4	8,8	23,5	5,1	13
QSMK-G1/8-6		6	10	26,2	5,1	13
QSK-G1/8-8		8	14	34,7	5,1	14
QSMK-G1/4-6	G1/4	6	12	25,6	5,6	17
QSK-G1/4-8		8	14	34,5	5,6	17
QSK-G1/4-10		10	17	36,8	5,6	17
QSK-G3/8-8	G3/8	8	15	34,5	6,6	19
QSK-G3/8-10		10	17	38,3	6,6	19
QSK-G3/8-12		12	20,8	43,3	6,6	21
QSK-G1/2-12	G1/2	12	20,8	44,9	7,6	24

Dimensions

Dimensions – Push-in connector, self-sealing QSK/QSMK [Download CAD data](http://www.festo.com) www.festo.com

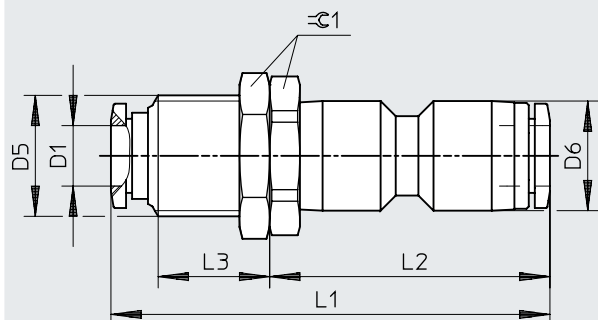


	D1 Ø	D5 Ø	L1
QSMK-4	4	8,5	36
QSMK-6	6	11	39,5
QSK-8	8	14,5	54,5
QSK-10	10	17,5	60,5
QSK-12	12	21	70,5

Dimensions

Dimensions – Push-in bulkhead connector QSSK

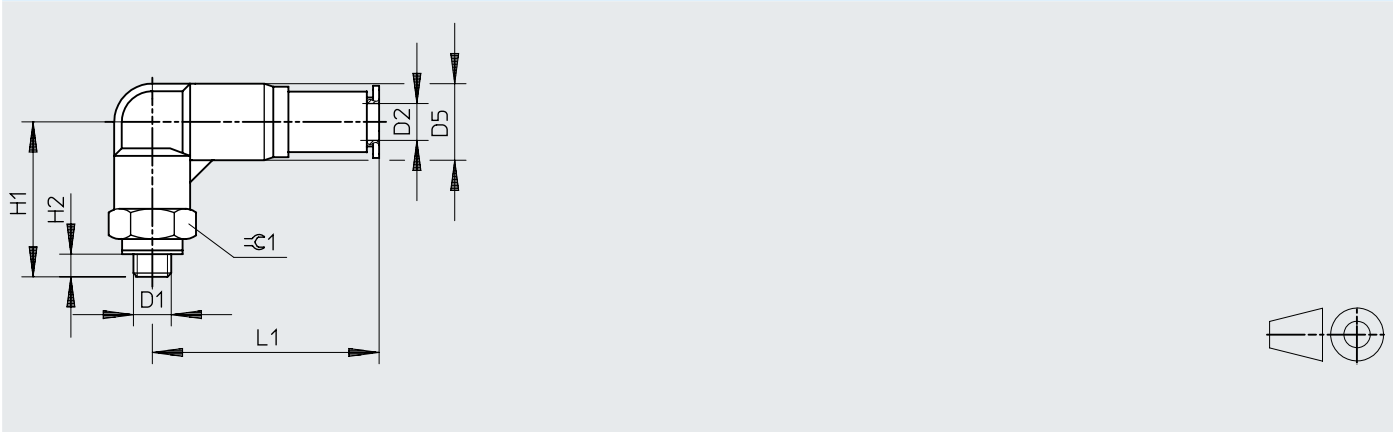
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	D1 ø	D5 ø	D6 ø	L1	L2	L3	☞
QSSK-4	4	M10x1	10	43,1	29,6	10	12
QSSK-6	6	M12x1	12,5	47,6	34,2	9,9	14
QSSK-8	8	M16x1	14,5	58,1	37,1	14,7	19
QSSK-10	10	M20x1	17,5	64,5	41,4	16,2	24
QSSK-12	12	M22x1	21	75,5	48,6	20,7	27

Dimensions

Dimensions – Push-in L-fitting, self-sealing QSKL/QSMKL, M-thread Download CAD data www.festo.com

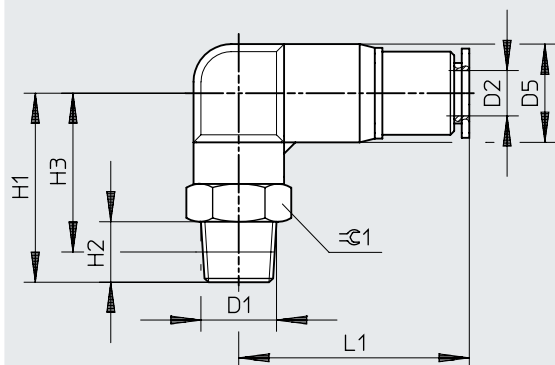


	D1	D2 ø	D5 ø	H1	H2	L1	≡G
QSMKL-M5-4	M5	4	9,5	16	2,8	27,6	8
QSMKL-M5-6		6	12,5	19,5	2,8	30,4	10

Dimensions

Dimensions – Push-in L-fitting, self-sealing QSKL/QSMKL, R thread

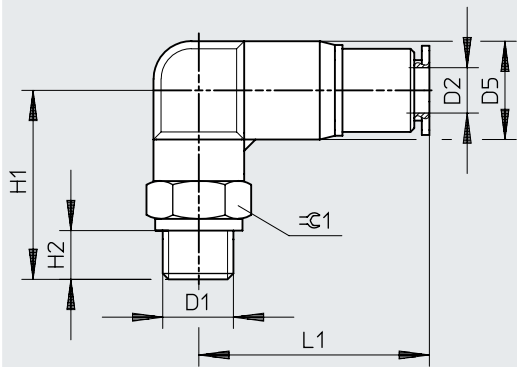
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	D1	D2 ø	D5 ø	H1	H2	H3	L1	≙
QSMKL-1/8-4	R1/8	4	9,5	22	8	18,1	28,4	10
QSMKL-1/8-6		6	12,5	22,5	8	18,6	30,4	12
QSKL-1/8-8		8	14,5	24	8	24	39,7	14
QSMKL-1/4-6	R1/4	6	12,5	28	11	20,1	31,8	14
QSKL-1/4-8		8	14,5	28	11	22	40,7	14
QSKL-1/4-10		10	17,5	28,5	11	22,5	45,6	17
QSKL-3/8-8	R3/8	8	14,5	31	12	24,7	42	17
QSKL-3/8-10		10	17,5	32	12	25,7	46	17
QSKL-3/8-12		12	21	32,5	12	26,2	53,7	21
QSKL-1/2-12	R1/2	12	21	36,5	15	28,3	54,2	21

Dimensions

Dimensions – Push-in L-fitting, self-sealing QSKL/QSMKL, G thread [Download CAD data](#) www.festo.com



	D1	D2 ø	D5 ø	H1	H2	L1	☞
QSMKL-G1/8-4	G1/8	4	9,5	21,1	4,2	28,4	13
QSMKL-G1/8-6		6	12,5	21,6	4,2	30,4	13
QSKL-G1/8-8		8	14,5	22,1	4,2	39,7	14
QSMKL-G1/4-6	G1/4	6	12,5	24,7	4,8	31,8	17
QSKL-G1/4-8		8	14,5	24,7	4,8	40,7	17
QSKL-G1/4-10		10	17,5	25,2	4,8	45,6	17
QSKL-G3/8-8	G3/8	8	14,5	27,2	5,8	42	19
QSKL-G3/8-10		10	17,5	28,2	5,8	46	19
QSKL-G3/8-12		12	21	28,7	5,8	53,7	19
QSKL-G1/2-12	G1/2	12	21	32,2	6,8	54,2	24

Ordering data

Ordering data – Push-in fitting, self-sealing QSK/QSMK						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Male thread M5	For tubing outside diameter of 4 mm	1.4 mm	7.1 g	153291	QSMK-M5-4
		For tubing outside diameter of 6 mm	1.7 mm	12 g	153292	QSMK-M5-6
	Male thread G1/8	For tubing outside diameter of 4 mm	1.6 mm	14 g	186294	QSMK-G1/8-4
		For tubing outside diameter of 6 mm	3 mm		186295	QSMK-G1/8-6
		For tubing outside diameter of 8 mm	3.4 mm	23 g	186297	QSK-G1/8-8
	Male thread G1/4	For tubing outside diameter of 6 mm	3 mm	26 g	186296	QSMK-G1/4-6
		For tubing outside diameter of 8 mm	4.3 mm	30 g	186298	QSK-G1/4-8
		For tubing outside diameter of 10 mm	4.8 mm	33 g	186300	QSK-G1/4-10
	Male thread G3/8	For tubing outside diameter of 8 mm	4.5 mm	43 g	186299	QSK-G3/8-8
		For tubing outside diameter of 10 mm	5.6 mm	41 g	186301	QSK-G3/8-10
		For tubing outer diameter of 12 mm	6.1 mm	63 g	186302	QSK-G3/8-12
	Male thread G1/2		6.4 mm	78 g	186303	QSK-G1/2-12
	Male thread R1/8	For tubing outside diameter of 4 mm	1.6 mm	9.5 g	153419	QSMK-1/8-4
		For tubing outside diameter of 6 mm	3 mm		153420	QSMK-1/8-6
		For tubing outside diameter of 8 mm	3.4 mm	22.5 g	153422	QSK-1/8-8
	Male thread R1/4	For tubing outside diameter of 6 mm	3 mm	21 g	153421	QSMK-1/4-6
		For tubing outside diameter of 8 mm	4.3 mm	22.5 g	153423	QSK-1/4-8
		For tubing outside diameter of 10 mm	4.8 mm	32 g	153425	QSK-1/4-10
	Male thread R3/8	For tubing outside diameter of 8 mm	4.5 mm	39 g	153424	QSK-3/8-8
		For tubing outside diameter of 10 mm	5.6 mm	35 g	153426	QSK-3/8-10
		For tubing outer diameter of 12 mm	6.1 mm	63.5 g	153427	QSK-3/8-12

Ordering data

Ordering data – Push-in fitting, self-sealing QSK/QSMK

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Male thread R1/2	For tubing outer diameter of 12 mm	6.4 mm	65.5 g	153428	QSK-1/2-12

Ordering data – Push-in connector, self-sealing QSK/QSMK

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	1.6 mm	3.5 g	153439	QSMK-4
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	3 mm	6 g	153440	QSMK-6
	For tubing outer diameter of 8 mm	For tubing outside diameter of 8 mm	4.4 mm	16 g	153441	QSK-8
	For tubing outer diameter of 10 mm	For tubing outside diameter of 10 mm	5.3 mm	26 g	153442	QSK-10
	For tubing outer diameter of 12 mm	For tubing outer diameter of 12 mm	6.2 mm	40.5 g	153443	QSK-12

Ordering data – Push-in bulkhead connector QSSK

	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	For tubing outer diameter of 4 mm	For tubing outside diameter of 4 mm	1.5 mm	14 g	130637	QSSK-4
	For tubing outside diameter of 6 mm	For tubing outside diameter of 6 mm	3 mm	20 g	130638	QSSK-6
	For tubing outer diameter of 8 mm	For tubing outside diameter of 8 mm	4.3 mm	38 g	130639	QSSK-8
	For tubing outer diameter of 10 mm	For tubing outside diameter of 10 mm	5.4 mm	68 g	130640	QSSK-10
	For tubing outer diameter of 12 mm	For tubing outer diameter of 12 mm	6.3 mm	98 g	130641	QSSK-12

Ordering data

Ordering data – Push-in L-fitting, self-sealing QSKL/QSMKL						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Nominal size	Product weight	Part no.	Type
	Male thread M5	For tubing outside diameter of 4 mm	1.4 mm	7 g	153294	QSMKL-M5-4
		For tubing outside diameter of 6 mm	1.7 mm	10 g	153295	QSMKL-M5-6
	Male thread G1/8	For tubing outside diameter of 4 mm	1.5 mm	14 g	186304	QSMKL-G1/8-4
		For tubing outside diameter of 6 mm	2.9 mm	15 g	186305	QSMKL-G1/8-6
		For tubing outside diameter of 8 mm	4.2 mm	17 g	186307	QSKL-G1/8-8
	Male thread G1/4	For tubing outside diameter of 6 mm	2.9 mm	24 g	186306	QSMKL-G1/4-6
		For tubing outside diameter of 8 mm	4.1 mm	27 g	186308	QSKL-G1/4-8
		For tubing outside diameter of 10 mm	5.2 mm	31 g	186310	QSKL-G1/4-10
	Male thread G3/8	For tubing outside diameter of 8 mm	4.3 mm	35 g	186309	QSKL-G3/8-8
		For tubing outside diameter of 10 mm	5.3 mm	40 g	186311	QSKL-G3/8-10
		For tubing outer diameter of 12 mm	6.2 mm	47 g	186312	QSKL-G3/8-12
	Male thread G1/2			74 g	186313	QSKL-G1/2-12
	Male thread R1/8	For tubing outside diameter of 4 mm	1.5 mm	11 g	153429	QSMKL-1/8-4
		For tubing outside diameter of 6 mm	2.9 mm	13 g	153430	QSMKL-1/8-6
		For tubing outside diameter of 8 mm	4.2 mm	21 g	153432	QSKL-1/8-8
	Male thread R1/4	For tubing outside diameter of 6 mm	2.9 mm	20 g	153431	QSMKL-1/4-6
		For tubing outside diameter of 8 mm	4.1 mm	27 g	153433	QSKL-1/4-8
		For tubing outside diameter of 10 mm	5.2 mm	35 g	153435	QSKL-1/4-10
	Male thread R3/8	For tubing outside diameter of 8 mm	4.3 mm	38 g	153434	QSKL-3/8-8
		For tubing outside diameter of 10 mm	5.3 mm	46 g	153436	QSKL-3/8-10
		For tubing outer diameter of 12 mm	6.2 mm	58 g	153437	QSKL-3/8-12
	Male thread R1/2			81 g	153438	QSKL-1/2-12