

Fluoropolymer Fittings Hyper Fittings / Flare Type

LQ3 Series



How to Order

Threaded connection

LQ3 H 11 - M -

Fitting type

Symbol	Type
H	Connector
L	Elbow
B	Branch tee
R	Run tee

Nut material, packaging

Symbol	Nut material	Packaging
Nii	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

* LQ3H□: Nut material PVDF is not available.

Thread type

Symbol	Type
Nii	R, Rc
N	NPT

Piping type

Symbol	Type
M	Male
F	Female

Size combination

Size	No.	Applicable tubing size (mm)	Port size
1	1	4 x 3	1/8"
1	2	3 x 2	
2	1	6 x 4	1/8"
2	2		1/4"
3	1	10 x 8	1/8"
3	2	8 x 6	
3	3	10 x 8	1/4"
3	4	8 x 6	
3	5	10 x 8	3/8"
3	6	8 x 6	
3	8		1/2"
4	1	12 x 10	1/4"
4	2		3/8"
4	3		1/2"
4	4		3/4"
5	1	19 x 16	3/8"
5	2		1/2"
5	3		3/4"
6	1	25 x 22	1/2"
6	2		3/4"
6	3		1"

Note) For details of the applicable tubing sizes, refer to page 945.

Size	No.	Applicable tubing size (mm)	Port size
1	A	1/8" x 0.086"	1/8"
2	A	1/4" x 5/32"	1/8"
2	B		1/4"
3	A	3/8" x 1/4"	1/8"
3	B		1/4"
3	C		3/8"
3	D		1/2"
4	A	1/2" x 3/8"	1/4"
4	B		3/8"
4	C		1/2"
4	D		3/4"
5	A	3/4" x 5/8"	3/8"
5	B		1/2"
5	C		3/4"
6	A	1" x 7/8"	1/2"
6	B		3/4"
6	C		1"
7*	A*	1 1/4" x 1.1"	3/4"
7*	B*		1"
7*	C*		1 1/4"
8*	C*	1 1/2" x 1.33"	1 1/2"

* Fitting type H, piping type M: Male connector only.

How to Order



Fitting type

Symbol	Type
E	Union elbow
T	Union tee
P	Panel mount union
U	Union

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

* LQ3□8A: Nut material PVDF is not available.

Size combination

Size	No.	Applicable tubing size (mm)
1	1	4 x 3
1	2	3 x 2
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

Size	Symbol	Applicable tubing size (inch)
1	A	1/8" x 0.086"
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"
7*	A*	1 1/4" x 1.1"
8*	A*	1 1/2" x 1.33"

Note) For details of the applicable tubing sizes, refer to page 945.

* P: Without panel mounting

LVC
LVA
LVH
LVD
LVQ
LVP
LVW
LQ1
LQ3
LVN
LQHB
TL
TIL
TLM
TILM
TD
TID
TH
TIH

LQ3 Series



⚠ Specific Product Precautions

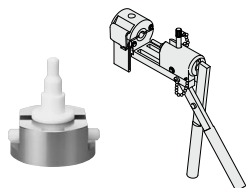
Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions.

Piping

⚠ Caution

1. Connect tubing with special tools

Please refer to the LQ3 series mounting method in "High Purity Fluoropolymer Fittings: Hyper Fitting/Flare Type" (M-E06-4) for tubing connection and special tools. (Downloadable from our web site.)



2. Tighten the nut until it touches the end surface of the body, and then tighten it an additional 1/8 turn. If the nut won't turn any further, then it means a sufficient tightening has occurred. Refer to the proper tightening torques shown below.

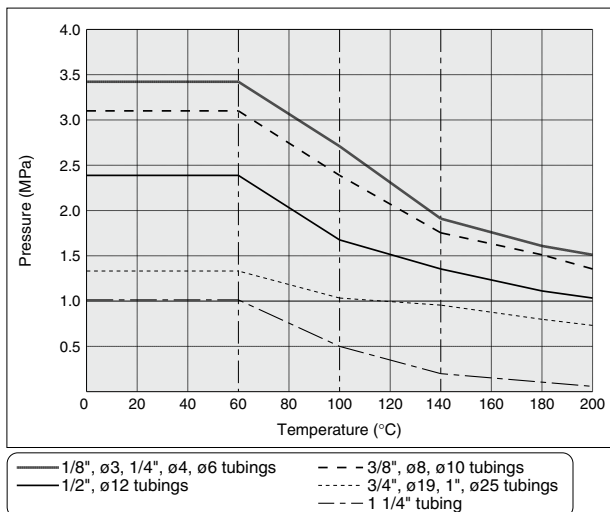
Tightening torque for piping

Body class	Torque (N·m)
1	0.7 to 0.9
2	1.6 to 1.8
3	3.2 to 3.5
4	5.0 to 5.3
5	10.0 to 10.5
6	22.5 to 23.0
7	23.0 to 26.5

Specifications

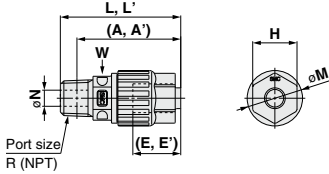
Feature	Model	LQ3□10	LQ3□20	LQ3□30	LQ3□40	LQ3□50	LQ3□60	LQ3□70
Material		New PFA						
Maximum operating pressure (at 20°C)		1.0 MPa						
Proof pressure		Refer to the withstand pressure and heat resistance performance data.						
Operating temperature	Nut material PVDF	0 to 150°C						
	Nut material PFA	0 to 200°C						

Withstand Pressure and Heat Resistance Performance

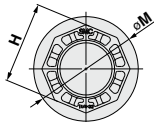


Dimensions

Male connector: LQ3H-M



(A,A'): Reference dimension after installation
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(A),L',E': Nut material PVDF dimensions
W: Width across flats dimension



Class 7, 8

Metric Size

Model	Applicable tubing O.D.	Connection threads R/NPT	A	A'	E	E'	H	L	L'	M	W	N	Min. port size
LQ3H11-M□	ø4												2.5
LQ3H12-M□	ø3	1/8"	29.5	28.5	10	9	11	33.5	32.5	14	10	4	2
LQ3H21-M□		1/8"	39.5	38.5									
LQ3H22-M□	ø6	1/4"	37.5	36.5	17	16	16	43.5	42.5	20	14	4	4
LQ3H31-M□	ø10	1/8"	51	48									4.4
LQ3H32-M□	ø8												
LQ3H33-M□	ø10												6.4
LQ3H34-M□	ø8	1/4"	49	46	22.5	19.5	21	55	52	25	18	10	6.4
LQ3H35-M□	ø10												7.5
LQ3H36-M□	ø8	3/8"	48.5	45.5									10
LQ3H38-M□	ø8	1/2"	54	51				62	59				10
LQ3H41-M□		1/4"	58	56									6
LQ3H42-M□		3/8"	57.5	55.5				64	62				8
LQ3H43-M□	ø12	1/2"	56	54	24	22	24				22		9.5
LQ3H44-M□		3/4"	59.8	57.6				69.3	67.1				16
LQ3H51-M□		3/8"	69.5	67									8
LQ3H52-M□	ø19	1/2"	68	65.5	26.5	24	32	76	73.5	37	30		10
LQ3H53-M□		3/4"	66.5	64									16
LQ3H61-M□		1/2"	80	76									10
LQ3H62-M□	ø25	3/4"	78.5	74.5	30	26	41	88	84	49	36		16
LQ3H63-M□		1"	77.5	73.5									22

Inch Size

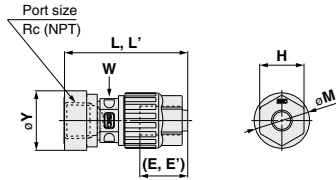
Model	Applicable tubing O.D.	Connection threads R/NPT	A	A'	E	E'	H	L	L'	M	W	N	Min. port size
LQ3H1A-M□	1/8"	1/8"	29.5	28.5	10	9	11	33.5	32.5	14	10	4	2
LQ3H2A-M□	1/4"	1/8"	39.5	38.5									
LQ3H2B-M□		1/4"	37.5	36.5	17	16	16	43.5	42.5	20	14	4	4
LQ3H3A-M□		1/8"	51	48									4.4
LQ3H3B-M□	3/8"	1/4"	49	46	22.5	19.5	21	55	52	25	18	10	6.4
LQ3H3C-M□		3/8"	48.5	45.5									
LQ3H3D-M□		1/2"	54	51				62	59				10
LQ3H4A-M□	1/2"	1/4"	58	56	24.5	22.5	24	64	62	29	22		6
LQ3H4B-M□		3/8"	57.5	55.5									8
LQ3H4C-M□		1/2"	56	54									9.5
LQ3H4D-M□		3/4"	59.8	57.6				69.3	67.1				16
LQ3H5A-M□		3/8"	69.5	67									8
LQ3H5B-M□	3/4"	1/2"	68	65.5	26.5	24	32	76	73.5	37	30		10
LQ3H5C-M□		3/4"	66.5	64									16
LQ3H6A-M□		1/2"	80	76									10
LQ3H6B-M□	1"	3/4"	78.5	74.5	30	26	41	88	84	49	36		16
LQ3H6C-M□		1"	77.5	73.5									22
LQ3H7A-M□		3/4"	96.5	96.5									16
LQ3H7B-M□	1 1/4"	1"	95.5	95.5	35	35	50	106	106	64	46		22
LQ3H7C-M□		1 1/4"	93.3	93.3									28.5
LQ3H8C-M□	1 1/2"	1 1/2"	101.3	—	39	—	60	114	—	77	55	36	36

LVC
LVA
LVB
LVD
LQV
LVP
LWV
LQ1
LQ3
LQV
LQHB
TL
TIL
TLM
TILM
TD
TID
TH
TIH

LQ3 Series

Dimensions

Female connector: LQ3H-F



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E',L'): Nut material PVDF dimensions
 W: Width across flats dimension

Metric Size

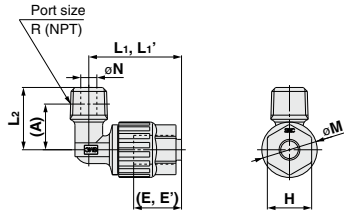
Model	Applicable tubing O.D.	Connection threads Rc/NPT	E	E'	H	L	L'	M	Min. port size	W	Y
LQ3H11-F□	ø4								2.5		
LQ3H12-F□	ø3	1/8"	10	9	11	35	34	14	2	10	18.5
LQ3H21-F□	ø6	1/8"				40	39				18.5
LQ3H22-F□		1/4"				45	44	20	4	14	21.5
LQ3H31-F□	ø10	1/8"				50.5	47.5		7.5		18.5
LQ3H32-F□	ø8								6.4		
LQ3H33-F□	ø10		22.5	19.5	21	55	52	25	7.5	18	21.5
LQ3H34-F□	ø8	1/4"							6.4		
LQ3H35-F□	ø10					55.5	52.5		7.5		25
LQ3H36-F□	ø8	3/8"							6.4		
LQ3H41-F□		1/4"				55.5	53				21.5
LQ3H42-F□	ø12	3/8"	24	22	24	58	56	29	9.5	22	25
LQ3H43-F□		1/2"				66	64				29.5
LQ3H51-F□		3/8"				67	64.5		14		25
LQ3H52-F□	ø19	1/2"	26.5	24	32	72	69.5	37		30	29.5
LQ3H53-F□		3/4"				73.5	71		16		36
LQ3H61-F□		1/2"				81.5	77.5		17.5		29.5
LQ3H62-F□	ø25	3/4"	30	26	41	83	79	49		36	36
LQ3H63-F□		1"				90.5	86.5		22		44.5

Inch Size

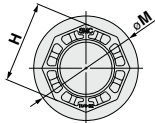
Model	Applicable tubing O.D.	Connection threads Rc/NPT	E	E'	H	L	L'	M	Min. port size	W	Y
LQ3H1A-F□	1/8"	1/8"	10	9	11	35	34	14	2	10	18.5
LQ3H2A-F□	1/4"	1/8"				40	39				18.5
LQ3H2B-F□		1/4"				45	44	20	4	14	21.5
LQ3H3A-F□		1/8"				50.5	47.5				18.5
LQ3H3B-F□	3/8"	1/4"	22.5	19.5	21	55	52	25	6.4	18	21.5
LQ3H3C-F□		3/8"				55.5	52.5				25
LQ3H4A-F□		1/4"				55.5	53				21.5
LQ3H4B-F□	1/2"	3/8"	24.5	22.5	24	58	56	29	9.5	22	25
LQ3H4C-F□		1/2"				66	64				29.5
LQ3H5A-F□		3/8"				67	64.5		14		25
LQ3H5B-F□	3/4"	1/2"	26.5	24	32	72	69.5	37		30	29.5
LQ3H5C-F□		3/4"				73.5	71		16		36
LQ3H6A-F□		1/2"				81.5	77.5		17.5		29.5
LQ3H6B-F□	1"	3/4"	30	26	41	83	79	49		36	36
LQ3H6C-F□		1"				90.5	86.5		22		44.5

Dimensions

Male elbow: LQ3L-M



(A): Reference dimension after installation
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E),L1': Nut material PVDF dimensions



Class 7

Metric Size

Model	Applicable tubing O.D.	Connection threads R/NPT	A	E	E'	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3L11-M□	ø4											2.5
LQ3L12-M□	ø3	1/8"	12.5	10	9	11	26	25	16.5	14	4	2
LQ3L21-M□	ø6	1/8"	18.5	17	16	16	33.5	32.5	22.5	20	4	4
LQ3L22-M□		1/4"	16.5								6	
LQ3L31-M□	ø10	1/8"	24								4.4	4.4
LQ3L32-M□	ø8										6.4	6.4
LQ3L33-M□	ø10	1/4"	22	22.5	19.5	21	46	43	28	25	6.4	6.4
LQ3L34-M□	ø8										10	7.5
LQ3L35-M□	ø10	3/8"	21.5								10	7.5
LQ3L36-M□											9.5	6.4
LQ3L38-M□	ø8	1/2"	24.5				47.5	44.5	32.5		9.5	6.4
LQ3L41-M□		1/4"	27								6	6
LQ3L42-M□	ø12	3/8"	26.5	24	22	24	54.5	52.5	33	29	8	8
LQ3L43-M□		1/2"	25								9.5	9.5
LQ3L51-M□		3/8"	33.5								8	8
LQ3L52-M□	ø19	1/2"	32	26.5	24	32	64	61.5	40	37	10	10
LQ3L53-M□		3/4"	30.5								16	16
LQ3L61-M□		1/2"	38								10	10
LQ3L62-M□	ø25	3/4"	36.5	30	26	41	77	73	46	49	16	16
LQ3L63-M□		1"	35.5								22	22

Inch Size

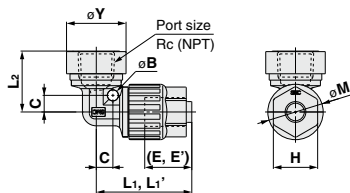
Model	Applicable tubing O.D.	Connection threads R/NPT	A	E	E'	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3L1A-M□	1/8"	1/8"	12.5	10	9	11	26	25	16.5	14	4	2
LQ3L2A-M□	1/4"	1/8"	18.5	17	16	16	33.5	32.5	22.5	20	4	4
LQ3L2B-M□		1/4"	16.5								6	
LQ3L3A-M□		1/8"	24								4.4	4.4
LQ3L3B-M□	3/8"	1/4"	22	22.5	19.5	21	46	43	28	25	6.4	6.4
LQ3L3C-M□		3/8"	21.5								10	10
LQ3L3D-M□		1/2"	24.5				47.5	44.5	32.5		9.5	
LQ3L4A-M□		1/4"	27								6	6
LQ3L4B-M□	1/2"	3/8"	26.5	24.5	22.5	24	54.5	52.5	33	29	8	8
LQ3L4C-M□		1/2"	25								9.5	9.5
LQ3L5A-M□		3/8"	33.5								8	8
LQ3L5B-M□	3/4"	1/2"	32	26.5	24	32	64	61.5	40	37	10	10
LQ3L5C-M□		3/4"	30.5								16	16
LQ3L6A-M□		1/2"	38								10	10
LQ3L6B-M□	1"	3/4"	36.5	30	26	41	77	73	46	49	16	16
LQ3L6C-M□		1"	35.5								22	22

LVC
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LQ3 Series

Dimensions

Female elbow: LQ3L-F



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'), L₁': Nut material PVDF dimensions

Metric Size

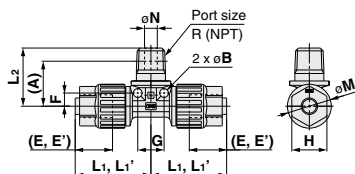
Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	C	E	E'	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y
LQ3L11-F□	ø4											2.5	
LQ3L12-F□	ø3	1/8"	3.5	4.8	10	9	11	28.5	27.5	19.5	14	2	18.5
LQ3L21-F□	ø6	1/8"								20		4	18.5
LQ3L22-F□		1/4"	4	6	17	16	16	34.5	33.5	22	20	4	21.5
LQ3L31-F□	ø10	1/8"								23		7.5	18.5
LQ3L32-F□	ø8											6.4	
LQ3L33-F□	ø10											7.5	21.5
LQ3L34-F□	ø8	1/4"	5	9	22.5	19.5	21	47.5	44.5	24	25	6.4	
LQ3L35-F□	ø10											7.5	25
LQ3L36-F□	ø8	3/8"								25.5		6.4	
LQ3L41-F□		1/4"								23.5			21.5
LQ3L42-F□	ø12	3/8"	6	10	24	22	24	52.5	50.5	26	29	9.5	25
LQ3L43-F□		1/2"								30			29.5
LQ3L51-F□		3/8"								30.5		14	25
LQ3L52-F□	ø19	1/2"	7	14	26.5	24	32	64	61.5	35.5	37	16	29.5
LQ3L53-F□		3/4"								37			36
LQ3L61-F□		1/2"								41		17.5	29.5
LQ3L62-F□	ø25	3/4"	8	18	30	26	41	78	74	42.5	49	22	36
LQ3L63-F□		1"								46			44.5

Inch Size

Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	C	E	E'	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y
LQ3L1A-F□	1/8"	1/8"	3.5	4.8	10	9	11	28.5	27.5	19.5	14	2	18.5
LQ3L2A-F□	1/4"	1/8"								20		4	18.5
LQ3L2B-F□		1/4"	4	6	17	16	16	34.5	33.5	22	20	4	21.5
LQ3L3A-F□		1/8"								23			18.5
LQ3L3B-F□	3/8"	1/4"	5	9	22.5	19.5	21	47.5	44.5	24	25	6.4	21.5
LQ3L3C-F□		3/8"								25.5			25
LQ3L4A-F□		1/4"								23.5			21.5
LQ3L4B-F□	1/2"	3/8"	6	10	24.5	22.5	24	52.5	50.5	26	29	9.5	25
LQ3L4C-F□		1/2"								30			29.5
LQ3L5A-F□		3/8"								30.5		14	25
LQ3L5B-F□	3/4"	1/2"	7	14	26.5	24	32	64	61.5	35.5	37	16	29.5
LQ3L5C-F□		3/4"								37			36
LQ3L6A-F□		1/2"								41		17.5	29.5
LQ3L6B-F□	1"	3/4"	8	18	30	26	41	78	74	42.5	49	22	36
LQ3L6C-F□		1"								46			44.5

Dimensions

Male branch tee: LQ3B-M



(A): Reference dimension after installation
(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
E',L1': Nut material PVDF dimensions

Metric Size

Model	Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3B11-M□	ø4														2.5
LQ3B12-M□	ø3	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14	4	2
LQ3B21-M□	ø6	1/8"	19.5									23.5		4	4
LQ3B22-M□		1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20	6	
LQ3B31-M□	ø10	1/8"	22.5									26.5		4	4
LQ3B32-M□	ø8														
LQ3B33-M□	ø10	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25	6.4	6.4
LQ3B34-M□	ø8														
LQ3B35-M□	ø10											30.5		10	7.5
LQ3B36-M□	ø8	3/8"	24											6.4	6.4
LQ3B41-M□		1/4"	27									33		6	6
LQ3B42-M□	ø12	3/8"	27.5	6	24	22	10	20	24	52.5	50.5	34	29	9.5	9.5
LQ3B43-M□		1/2"	29									37			
LQ3B51-M□		3/8"	32.5									39		10	10
LQ3B52-M□	ø19	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37	16	16
LQ3B53-M□		3/4"	34.5									44		16	16
LQ3B61-M□		1/2"	42									50		10	10
LQ3B62-M□	ø25	3/4"	42.5	8	30	26	18	36	41	78	74	52	49	16	16
LQ3B63-M□		1"										53		22	22

Inch Size

Model	Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3B1A-M□	1/8"	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14	4	2
LQ3B2A-M□	1/4"	1/8"	19.5									23.5		4	4
LQ3B2B-M□		1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20	6	
LQ3B3A-M□		1/8"	22.5									26.5		4	4
LQ3B3B-M□	3/8"	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25	6.4	6.4
LQ3B3C-M□		3/8"	24									30.5		10	
LQ3B4A-M□		1/4"	27									33		6	6
LQ3B4B-M□	1/2"	3/8"	27.5	6	24.5	22.5	10	20	24	52.5	50.5	34	29	9.5	9.5
LQ3B4C-M□		1/2"	29									37			
LQ3B5A-M□		3/8"	32.5									39		10	10
LQ3B5B-M□	3/4"	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37	16	16
LQ3B5C-M□		3/4"	34.5									44		16	16
LQ3B6A-M□		1/2"	42									50		10	10
LQ3B6B-M□	1"	3/4"	42.5	8	30	26	18	36	41	78	74	52	49	16	16
LQ3B6C-M□		1"										53		22	22

LVC

LVA

LVB

LVD

LQV

LVP

LWV

LQ1

LQ3

LNV

LQHB

TL

TIL

TLM

TILM

TD

TID

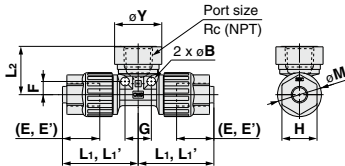
TH

TIH

LQ3 Series

Dimensions

Female branch tee: LQ3B-F



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E),L1': Nut material PVDF dimensions

Metric Size

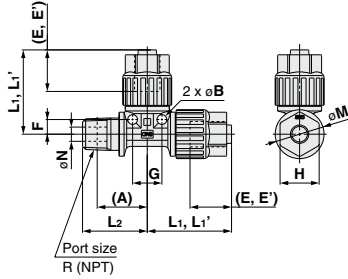
Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y
LQ3B11-F□	ø4												2.5	
LQ3B12-F□	ø3	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	2	18.5
LQ3B21-F□	ø6	1/8"									20		4	18.5
LQ3B22-F□		1/4"	4	17	16	6	12	16	34.5	33.5	22	20	4	21.5
LQ3B31-F□	ø10	1/8"									23		7.5	18.5
LQ3B32-F□	ø8												6.4	
LQ3B33-F□	ø10	1/4"	5	22.5	19.5	9	18	21	47.5	44.5	24	25	7.5	21.5
LQ3B34-F□	ø8												6.4	
LQ3B35-F□	ø10	3/8"									25.5		7.5	25
LQ3B36-F□	ø8												6.4	
LQ3B41-F□		1/4"									23.5			21.5
LQ3B42-F□	ø12	3/8"	6	24	22	10	20	24	52.5	50.5	26	29	9.5	25
LQ3B43-F□		1/2"									30			29.5
LQ3B51-F□		3/8"									30.5		14	25
LQ3B52-F□	ø19	1/2"	7	26.5	24	14	28	32	64	61.5	35.5	37	16	29.5
LQ3B53-F□		3/4"												36
LQ3B61-F□		1/2"									41		17.5	29.5
LQ3B62-F□	ø25	3/4"	8	30	26	18	36	41	78	74	42.5	49	22	36
LQ3B63-F□		1"									46			44.5

Inch Size

Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y
LQ3B1A-F□	1/8"	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	2	18.5
LQ3B2A-F□	1/4"	1/8"									20		4	18.5
LQ3B2B-F□		1/4"	4	17	16	6	12	16	34.5	33.5	22	20	4	21.5
LQ3B3A-F□		1/8"									23			18.5
LQ3B3B-F□	3/8"	1/4"	5	22.5	19.5	9	18	21	47.5	44.5	24	25	6.4	21.5
LQ3B3C-F□		3/8"									25.5			25
LQ3B4A-F□		1/4"									23.5			21.5
LQ3B4B-F□	1/2"	3/8"	6	24.5	22.5	10	20	24	52.5	50.5	26	29	9.5	25
LQ3B4C-F□		1/2"									30			29.5
LQ3B5A-F□		3/8"									30.5		14	25
LQ3B5B-F□	3/4"	1/2"	7	26.5	24	14	28	32	64	61.5	35.5	37	16	29.5
LQ3B5C-F□		3/4"												36
LQ3B6A-F□		1/2"									41		17.5	29.5
LQ3B6B-F□	1"	3/4"	8	30	26	18	36	41	78	74	42.5	49	22	36
LQ3B6C-F□		1"									46			44.5

Dimensions

Male run tee: LQ3R-M



- (A): Reference dimension after installation
- (E,E'): Reference dimension for the inserted tubing from the end surface of the nut
- (E'),L': Nut material PVDF dimensions

Metric Size

Model	Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3R11-M□	ø4														
LQ3R12-M□	ø3	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14	4	2.5
LQ3R21-M□	ø6	1/8"	19.5									23.5		4	4
LQ3R22-M□		1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20	6	2
LQ3R31-M□	ø10	1/8"	22.5									26.5		4	4
LQ3R32-M□	ø8														
LQ3R33-M□	ø10														
LQ3R34-M□	ø8	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25	6.4	6.4
LQ3R35-M□	ø10														
LQ3R36-M□	ø8	3/8"	24									30.5		10	7.5
LQ3R41-M□		1/4"	27									33		6	6
LQ3R42-M□	ø12	3/8"	27.5	6	24	22	10	20	24	52.5	50.5	34	29	9.5	9.5
LQ3R43-M□		1/4"	29									37			
LQ3R51-M□		3/8"	32.5									39		10	10
LQ3R52-M□	ø19	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37	16	16
LQ3R53-M□		3/4"	34.5									44		10	10
LQ3R61-M□		1/2"	42									50		10	10
LQ3R62-M□	ø25	3/4"	42.5	8	30	26	18	36	41	78	74	52	49	16	16
LQ3R63-M□		1"										53		22	22

Inch Size

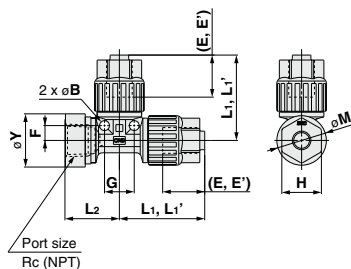
Model	Applicable tubing O.D.	Connection threads R/NPT	A	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	N	Min. port size
LQ3R1A-M□	1/8"	1/8"	15	3.5	10	9	4.8	9.5	11	28.5	27.5	19	14	4	2
LQ3R2A-M□	1/4"	1/8"	19.5									23.5		4	4
LQ3R2B-M□		1/4"	20.5	4	17	16	6	12	16	34.5	33.5	26.5	20	6	2
LQ3R3A-M□		1/8"	22.5									26.5		4	4
LQ3R3B-M□	3/8"	1/4"	23.5	5	22.5	19.5	9	18	21	47.5	44.5	29.5	25	6.4	6.4
LQ3R3C-M□		3/8"	24									30.5		10	10
LQ3R4A-M□		1/4"	27									33		6	6
LQ3R4B-M□	1/2"	3/8"	27.5	6	24.5	22.5	10	20	24	52.5	50.5	34	29	9.5	9.5
LQ3R4C-M□		1/2"	29									37			
LQ3R5A-M□		3/8"	32.5									39		10	10
LQ3R5B-M□	3/4"	1/2"	34	7	26.5	24	14	28	32	64	61.5	42	37	16	16
LQ3R5C-M□		3/4"	34.5									44		10	10
LQ3R6A-M□		1/2"	42									50		10	10
LQ3R6B-M□	1"	3/4"	42.5	8	30	26	18	36	41	78	74	52	49	16	16
LQ3R6C-M□		1"										53		22	22

LVC
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LQ3 Series

Dimensions

Female run tee: LQ3R-F



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'), L1': Nut material PVDF dimensions

Metric Size

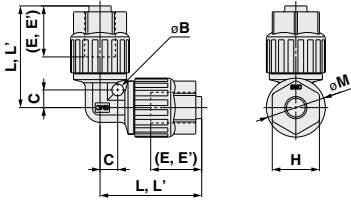
Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y	
LQ3R11-F□	ø4	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	2.5	18.5	
LQ3R12-F□	ø3												2		
LQ3R21-F□	ø6	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	4	18.5	
LQ3R22-F□		1/4"											2		
LQ3R31-F□	ø10	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	7.5	18.5	
LQ3R32-F□	ø8												6.4		
LQ3R33-F□	ø10	1/4"	5	22.5	19.5	9	18	21	47.5	44.5	24	25	7.5	21.5	
LQ3R34-F□	ø8												6.4		
LQ3R35-F□	ø10	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	25.5	25	7.5	25	
LQ3R36-F□	ø8												6.4		
LQ3R41-F□	ø12	1/4"	6	24	22	10	20	24	52.5	50.5	26	29	9.5	25	
LQ3R42-F□	3/8"	30											29.5		
LQ3R43-F□	1/2"	30											29.5		
LQ3R51-F□	ø19	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	14	25	
LQ3R52-F□		1/2"											16		29.5
LQ3R53-F□		3/4"											16		36
LQ3R61-F□	ø25	1/2"	8	30	26	18	36	41	78	74	41	49	17.5	29.5	
LQ3R62-F□		3/4"											42		36
LQ3R63-F□	1"	1"	8	30	26	18	36	41	78	74	42.5	49	22	44.5	

Inch Size

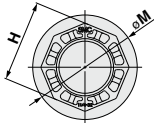
Model	Applicable tubing O.D.	Connection threads Rc/NPT	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	M	Min. port size	Y	
LQ3R1A-F□	1/8"	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	19.5	14	2	18.5	
LQ3R2A-F□	1/4"	1/8"	4	17	16	6	12	16	34.5	33.5	20	20	4	18.5	
LQ3R2B-F□		1/4"											2		
LQ3R3A-F□	3/8"	1/8"	5	22.5	19.5	9	18	21	47.5	44.5	23	25	6.4	18.5	
LQ3R3B-F□		1/4"											2		
LQ3R3C-F□	3/8"	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	25.5	25	25		
LQ3R4A-F□	1/2"	1/4"	6	24.5	22.5	10	20	24	52.5	50.5	23.5	29	9.5	21.5	
LQ3R4B-F□		3/8"											29		
LQ3R4C-F□	1/2"	1/2"	6	24.5	22.5	10	20	24	52.5	50.5	30	29	29.5		
LQ3R5A-F□	3/4"	3/8"	7	26.5	24	14	28	32	64	61.5	30.5	37	14	25	
LQ3R5B-F□		1/2"											16		29.5
LQ3R5C-F□		3/4"											16		36
LQ3R6A-F□	1"	1/2"	8	30	26	18	36	41	78	74	41	49	17.5	29.5	
LQ3R6B-F□		3/4"											42		36
LQ3R6C-F□	1"	1"	8	30	26	18	36	41	78	74	42.5	49	22	44.5	

Dimensions

Union elbow: LQ3E



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E',L'): Nut material PVDF dimensions



Class 7, 8

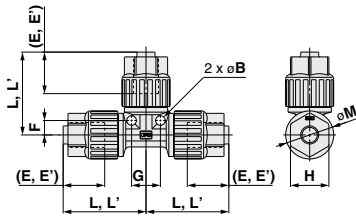
Metric Size

Model	Applicable tubing O.D.	B	C	E	E'	H	L	L'	M	Min. port size
LQ3E11	ø4									2.5
LQ3E12	ø3	3.5	4.8	10	9	11	28.5	27.5	14	2
LQ3E21	ø6	4	6	17	16	16	34.5	33.5	20	4
LQ3E31	ø10									7.5
LQ3E32	ø8	5	9	22.5	19.5	21	47.5	44.5	25	6.4
LQ3E41	ø12	6	10	24	22	24	52.5	50.5	29	9.5
LQ3E51	ø19	7	14	26.5	24	32	64	61.5	37	16
LQ3E61	ø25	8	18	30	26	41	78	74	49	22

Inch Size

Model	Applicable tubing O.D.	B	C	E	E'	H	L	L'	M	Min. port size
LQ3E1A	1/8"	3.5	4.8	10	9	11	28.5	27.5	14	2
LQ3E2A	1/4"	4	6	17	16	16	34.5	33.5	20	4
LQ3E3A	3/8"	5	9	22.5	19.5	21	47.5	44.5	25	6.4
LQ3E4A	1/2"	6	10	24.5	22.5	24	52.5	50.5	29	9.5
LQ3E5A	3/4"	7	14	26.5	24	32	64	61.5	37	16
LQ3E6A	1"	8	18	30	26	41	78	74	49	22
LQ3E7A	1 1/4"	9	22	35	35	50	92.5	92.5	64	28
LQ3E8A	1 1/2"	11	28.5	39	—	60	100.5	—	77	36

Union tee: LQ3T



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E',L'): Nut material PVDF dimensions

Metric Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L	L'	M	Min. port size
LQ3T11	ø4										2.5
LQ3T12	ø3	3.5	10	9	4.8	9.5	11	28.5	27.5	14	2
LQ3T21	ø6	4	17	16	6	12	16	34.5	33.5	20	4
LQ3T31	ø10										7.5
LQ3T32	ø8	5	22.5	19.5	9	18	21	47.5	44.5	25	6.4
LQ3T41	ø12	6	24	22	10	20	24	52.5	50.5	29	9.5
LQ3T51	ø19	7	26.5	24	14	28	32	64	61.5	37	16
LQ3T61	ø25	8	30	26	18	36	41	78	74	49	22

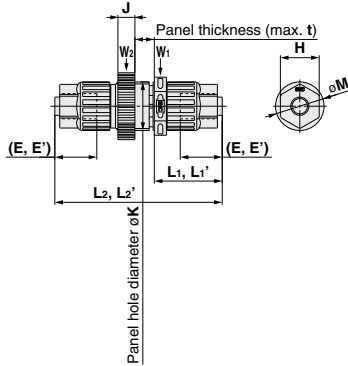
Inch Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L	L'	M	Min. port size
LQ3T1A	1/8"	3.5	10	9	4.8	9.5	11	28.5	27.5	14	2
LQ3T2A	1/4"	4	17	16	6	12	16	34.5	33.5	20	4
LQ3T3A	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	25	6.4
LQ3T4A	1/2"	6	24.5	22.5	10	20	24	52.5	50.5	29	9.5
LQ3T5A	3/4"	7	26.5	24	14	28	32	64	61.5	37	16
LQ3T6A	1"	8	30	26	18	36	41	78	74	49	22
LQ3T7A	1 1/4"	9	35	35	22	44	50	92.5	92.5	64	28
LQ3T8A	1 1/2"	11	39	—	28.5	57	60	100.5	—	77	36

LQ3 Series

Dimensions

Panel mount union: LQ3P



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L1', L2': Nut material PVDF dimensions
 W1: Width across flats dimension

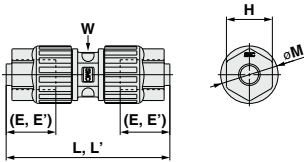
Metric Size

Model	Applicable tubing O.D.	E	E'	H	J	K	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size	t	W ₁	W ₂	
LQ3P11	ø4											2.5				
LQ3P12	ø3	10	9	11	6	14.5	23.5	22.5	58	56	14	2	8	16	17	
LQ3P21	ø6	17	16	16	7	20.5	28	27	69	67	20	4	8	21	24	
LQ3P31	ø10	22.5	19.5	21	7	24.5	39	36	89	83	25	7.5	8	26	28	
LQ3P32	ø8											6.4				
LQ3P41	ø12	24	22	24	9	30.5	44.5	42.5	100	96	29	9.5	8	32	36	
LQ3P51	ø19	26.5	24	32	9	36.5	50.5	48	117	112	37	16	13	41	43	
LQ3P61	ø25	30	26	41	10	48.5	60	56	136	127.5	49	22	13	50	55	

Inch Size

Model	Applicable tubing O.D.	E	E'	H	J	K	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size	t	W ₁	W ₂
LQ3P1A	1/8"	10	9	11	6	14.5	23.5	22.5	58	56	14	2	8	16	17
LQ3P2A	1/4"	17	16	16	7	20.5	28	27	69	67	20	4	8	21	24
LQ3P3A	3/8"	22.5	19.5	21	7	24.5	39	36	89	83	25	6.4	8	26	28
LQ3P4A	1/2"	24.5	22.5	24	9	30.5	44.5	42.5	100	96	29	9.5	8	32	36
LQ3P5A	3/4"	26.5	24	32	9	36.5	50.5	48	117	112	37	16	13	41	43
LQ3P6A	1"	30	26	41	10	48.5	60	56	136	127.5	49	22	13	50	55

Union: LQ3U



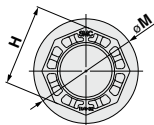
(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L': Nut material PVDF dimensions
 W: Width across flats dimension

Metric Size

Model	Applicable tubing O.D.	E	E'	H	L	L'	M	Min. port size	W
LQ3U11	ø4							2.5	
LQ3U12	ø3	10	9	11	46.5	44.5	14	2	10
LQ3U21	ø6	17	16	16	57	55	20	4	14
LQ3U31	ø10	22.5	19.5	21	79	73	25	7.5	18
LQ3U32	ø8							6.4	
LQ3U41	ø12	24	22	24	88	84	29	9.5	22
LQ3U51	ø19	26.5	24	32	103	98	37	16	30
LQ3U61	ø25	30	26	41	122	113.5	49	22	36

Inch Size

Model	Applicable tubing O.D.	E	E'	H	L	L'	M	Min. port size	W
LQ3U1A	1/8"	10	9	11	46.5	44.5	14	2	10
LQ3U2A	1/4"	17	16	16	57	55	20	4	14
LQ3U3A	3/8"	22.5	19.5	21	79	73	25	6.4	18
LQ3U4A	1/2"	24.5	22.5	24	88	84	29	9.5	22
LQ3U5A	3/4"	26.5	24	32	103	98	37	16	30
LQ3U6A	1"	30	26	41	122	113.5	49	22	36
LQ3U7A	1 1/4"	35	35	50	142	142	64	28.5	46
LQ3U8A	1 1/2"	39	—	60	152	—	77	36	55

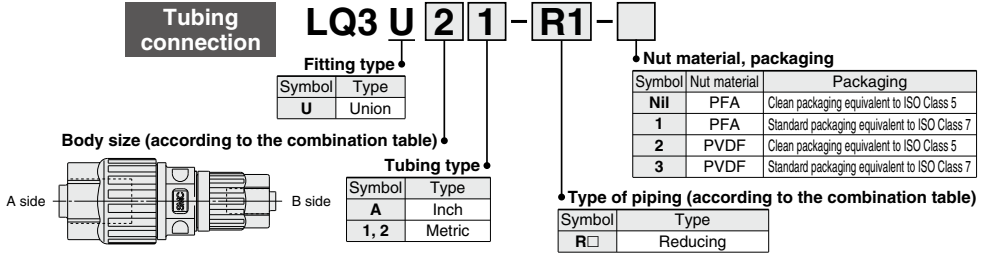


Class 7, 8

LQ3 Series

Union Reducing

How to Order



Size combination (Metric)

Size	Model	A side	B side
		Applicable tubing size (mm)	
1	LQ3U11-R1	4 x 3	3 x 2
	LQ3U21-R1	6 x 4	4 x 3
2	LQ3U21-R2		3 x 2
3	LQ3U31-R1	10 x 8	8 x 6
	LQ3U31-R2		6 x 4
	LQ3U32-R1		6 x 4
	LQ3U32-R2		4 x 3
4	LQ3U41-R1	12 x 10	10 x 8
	LQ3U41-R2		8 x 6
5	LQ3U51-R1	19 x 16	12 x 10
	LQ3U51-R2		10 x 8
6	LQ3U61-R1	25 x 22	19 x 16
	LQ3U61-R2		12 x 10

Size combination (Inch)

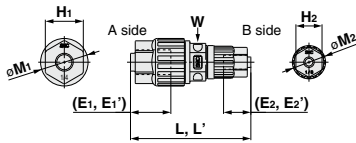
Size	Model	A side	B side
		Applicable tubing size (inch)	
2	LQ3U2A-R1	1/4" x 5/32"	1/8" x 0.086"
	LQ3U3A-R1	3/8" x 1/4"	1/4" x 5/32"
3	LQ3U3A-R2		1/8" x 0.086"
4	LQ3U4A-R1	1/2" x 3/8"	3/8" x 1/4"
	LQ3U4A-R2		1/4" x 5/32"
5	LQ3U5A-R1	3/4" x 5/8"	1/2" x 3/8"
	LQ3U5A-R2		3/8" x 1/4"
	LQ3U5A-R3		1/4" x 5/32"
6	LQ3U6A-R1	1" x 7/8"	3/4" x 5/8"
	LQ3U6A-R2		1/2" x 3/8"
7	LQ3U7A-R1	1 1/4" x 1.1"	1" x 7/8"

Note) For details of the applicable tubing sizes, refer to page 945.

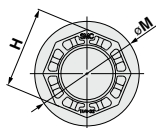
Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Union reducing: LQ3U-R



(E1, E1', E2, E2'): Reference dimension for the inserted tubing from the end surface of the nut
 (E1', E2', L'): Nut material PVDF dimensions



Class 7

Metric Size

Model	A side Applicable tubing O.D.	B side Applicable tubing O.D.	E1	E1'	E2	E2'	H1	H2	L	L'	M1	M2	Min. port size	W
LQ3U11-R1	ø4	ø3	10	9	10	9	11	11	46.5	44.5	14	14	2	10
LQ3U21-R1	ø6	ø4	17	16	10	9	16	11	51	48.5	20	14	2.5	14
LQ3U21-R2		ø3											2	
LQ3U31-R1	ø10	ø8	22.5	19.5	22.5	19.5	21	16	66.5	62	25	20	6.4	18
LQ3U31-R2		ø6											4	
LQ3U32-R1	ø8	ø6	22.5	19.5	17	16	21	16	66.5	62	25	20	4	18
LQ3U32-R2		ø4											14	
LQ3U41-R1	ø12	ø10	24	22	22.5	19.5	24	21	82.5	77	29	25	7.5	22
LQ3U41-R2		ø8											6.4	
LQ3U51-R1	ø19	ø12	26.5	24	24	22	32	24	95.5	91	37	29	9.5	30
LQ3U51-R2		ø10											7.5	
LQ3U61-R1	ø25	ø19	30	26	26.5	24	41	32	112.5	105.5	49	37	16	36
LQ3U61-R2		ø12											9.5	

Inch Size

Model	A side Applicable tubing O.D.	B side Applicable tubing O.D.	E1	E1'	E2	E2'	H1	H2	L	L'	M1	M2	Min. port size	W
LQ3U2A-R1	1/4"	1/8"	17	16	10	9	16	11	51	48.5	20	14	2	14
LQ3U3A-R1	3/8"	1/4"	22.5	19.5	17	16	21	16	66.5	62	25	20	4	18
LQ3U3A-R2		1/8"											2	
LQ3U4A-R1	1/2"	3/8"	24.5	22.5	22.5	19.5	24	21	82.5	77	29	25	6.4	22
LQ3U4A-R2		1/4"											2	
LQ3U5A-R1	3/4"	1/2"	26.5	24	24.5	22.5	32	24	95.5	91	37	29	9.5	30
LQ3U5A-R2		3/8"											7.5	
LQ3U5A-R3	1"	1/4"	30	26	26.5	24	41	32	112.5	105.5	49	37	16	36
LQ3U6A-R1		3/4"											9.5	
LQ3U6A-R2	1"	1/2"	35	35	30	26	50	41	132.5	128.2	64	49	22	46
LQ3U7A-R1		1 1/4"											2	

Union Elbow Reducing

How to Order

Tubeing connection

LQ3 E

2

1

-

R1

-

Fitting type

Symbol	Type
E	Union elbow

Tubeing type

Symbol	Type
A	Inch
1, 2	Metric

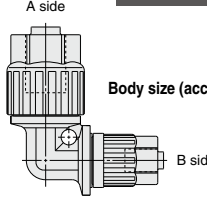
Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Type of piping (according to the combination table)

Symbol	Type
R□	Reducing

Body size (according to the combination table)



Size combination (Metric)

Size	Model	A side	B side
		Applicable tubing size (mm)	
1	LQ3E11-R1	4 x 3	3 x 2
	LQ3E21-R1		4 x 3
2	LQ3E21-R2	6 x 4	3 x 2
	LQ3E31-R1		8 x 6
3	LQ3E31-R2	10 x 8	6 x 4
	LQ3E32-R1		6 x 4
	LQ3E32-R2	8 x 6	4 x 3
4	LQ3E41-R1	12 x 10	10 x 8
	LQ3E41-R2		8 x 6
5	LQ3E51-R1	19 x 16	12 x 10
	LQ3E51-R2		10 x 8
6	LQ3E61-R1	25 x 22	19 x 16
	LQ3E61-R2		12 x 10

Size combination (Inch)

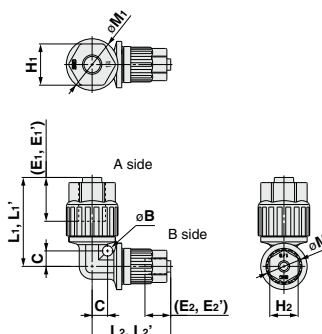
Size	Model	A side	B side
		Applicable tubing size (inch)	
2	LQ3E2A-R1	1/4" x 5/32"	1/8" x 0.086"
	LQ3E3A-R1		1/4" x 5/32"
3	LQ3E3A-R2	3/8" x 1/4"	1/8" x 0.086"
	LQ3E4A-R1		3/8" x 1/4"
4	LQ3E4A-R2	1/2" x 3/8"	1/4" x 5/32"
	LQ3E5A-R1		1/2" x 3/8"
5	LQ3E5A-R2	3/4" x 5/8"	3/8" x 1/4"
	LQ3E5A-R3		1/4" x 5/32"
	LQ3E6A-R1		3/4" x 5/8"
6	LQ3E6A-R2	1" x 7/8"	1/2" x 3/8"

(Note) For details of the applicable tubing sizes, refer to page 945.

(Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Union elbow reducing: LQ3E-R



(E1, E1', E2, E2'): Reference dimension for the inserted tubing from the end surface of the nut
(E1', E2'), L1', L2': Nut material PVDF dimensions

Metric Size

Model	A side Applicable tubing O.D.	B side Applicable tubing O.D.	B	C	E1	E1'	E2	E2'	H1	H2	L1	L1'	L2	L2'	M1	M2	Mn ref size
LQ3E11-R1	ø4	ø3	3.5	4.8	10	9	10	9	11	11	28.5	27.5	28.5	27.5	14	14	2
LQ3E21-R1		ø4															2.5
LQ3E21-R2	ø6	ø3	4	6	17	16	10	9	16	11	34.5	33.5	30.5	29.5	20	14	2
LQ3E31-R1		ø8					22.5	19.5		21	47.5	44.5	47.5	44.5	25	25	6.4
LQ3E31-R2	ø10	ø6	5	9	22.5	19.5	17	16	21	16	47.5	44.5	38	37	20	20	4
LQ3E32-R1		ø6															
LQ3E32-R2	ø8	ø4	5	9	22.5	19.5	10	9	21	11	47.5	44.5	33.5	32.5	25	14	2.5
LQ3E41-R1		ø10															7.5
LQ3E41-R2	ø12	ø8	6	10	24	22	22.5	19.5	24	21	52.5	50.5	48.5	45.5	29	25	6.4
LQ3E51-R1		ø19															7.5
LQ3E51-R2	ø19	ø12	7	14	26.5	24	24	22	32	21	64	61.5	58.5	56.5	37	29	9.5
LQ3E61-R1		ø10															7.5
LQ3E61-R2	ø25	ø19	8	18	30	26	26.5	24	41	32	78	74	70	67.5	49	37	16
		ø12					24	22		24	74	74	64.5	62.5	29	29	9.5

Inch Size

Model	A side Applicable tubing O.D.	B side Applicable tubing O.D.	B	C	E1	E1'	E2	E2'	H1	H2	L1	L1'	L2	L2'	M1	M2	Mn ref size	
LQ3E2A-R1	1/4"	1/8"	4	6	17	16	10	9	16	11	34.5	33.5	30.5	29.5	20	14	2	
LQ3E3A-R1		1/4"															4	
LQ3E3A-R2	3/8"	1/8"	5	9	22.5	19.5	10	9	21	11	47.5	44.5	33.5	32.5	25	14	2	
LQ3E4A-R1		3/8"					22.5	19.5		24	21	52.5	50.5	48.5	45.5	29	25	6.4
LQ3E4A-R2	1/2"	1/4"	6	10	24.5	22.5	17	16	24	21	61.5	58.5	39	38	29	20	4	
LQ3E5A-R1		1/2"															9.5	
LQ3E5A-R2	3/4"	3/8"	7	14	26.5	24	22.5	19.5	32	21	64	61.5	53.5	50.5	37	25	6.4	
LQ3E5A-R3		1/4"															4	
LQ3E6A-R1		3/4"	8	18	30	26	26.5	24	41	32	78	74	70	67.5	49	37	16	
LQ3E6A-R2	1"	1/2"					24.5	22.5		24	74	74	64.5	62.5	29	29	9.5	

Union Tee Reducing

How to Order

Ordering Code Example: LQ3 T 2 A - R1 - []

Tubing connection

Fitting type

Symbol	Type
T	Union tee

Body size (according to the combination table)

Tubing type

Symbol	Type
A	Inch
1, 2	Metric

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

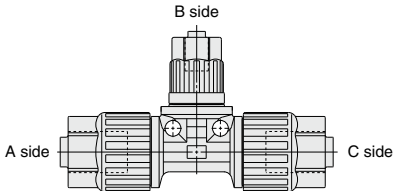
Type of piping (according to the combination table)

Symbol	Type
R□	Reducing

Size combination (Metric)

Size	Model	A side (Left)	B side (Center)	C side (Right)
		Applicable tubing size (mm)		
1	LQ3T11-R1	4 x 3	3 x 2	4 x 3
	LQ3T11-R5		4 x 3	3 x 2
2	LQ3T21-R1	6 x 4	4 x 3	6 x 4
	LQ3T21-R2		3 x 2	6 x 4
	LQ3T21-R5		6 x 4	4 x 3
	LQ3T21-R6		6 x 4	3 x 2
3	LQ3T31-R1	10 x 8	8 x 6	10 x 8
	LQ3T31-R2		6 x 4	10 x 8
	LQ3T31-R5		10 x 8	8 x 6
	LQ3T31-R6	10 x 8	6 x 4	
	LQ3T32-R1	8 x 6	6 x 4	8 x 6
	LQ3T32-R5		8 x 6	6 x 4
4	LQ3T41-R1	12 x 10	10 x 8	12 x 10
	LQ3T41-R5		12 x 10	10 x 8
5	LQ3T51-R1	19 x 16	12 x 10	19 x 16
	LQ3T51-R5		19 x 16	12 x 10
6	LQ3T61-R1	25 x 22	19 x 16	25 x 22
	LQ3T61-R5		25 x 22	19 x 16

Note) For details of the applicable tubing sizes, refer to page 945.



Size combination (Inch)

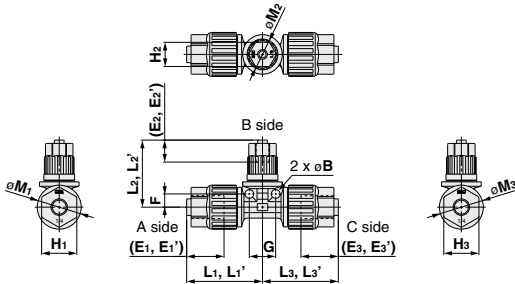
Size	Model	A side (Left)	B side (Center)	C side (Right)		
		Applicable tubing size (inch)				
2	LQ3T2A-R1	1/4" x 5/32"	1/8" x 0.086"	1/4" x 5/32"		
	LQ3T2A-R5		1/4" x 5/32"	1/8" x 0.086"		
3	LQ3T3A-R1	3/8" x 1/4"	1/4" x 5/32"	3/8" x 1/4"		
	LQ3T3A-R2		1/8" x 0.086"	3/8" x 1/4"		
	LQ3T3A-R5		3/8" x 1/4"	1/4" x 5/32"		
	LQ3T3A-R7		1/4" x 5/32"	1/4" x 5/32"		
4	LQ3T3A-R9	1/4" x 5/32"	3/8" x 1/4"	1/4" x 5/32"		
	LQ3T4A-R1		3/8" x 1/4"	1/2" x 3/8"		
	LQ3T4A-R2		1/4" x 5/32"	1/2" x 3/8"		
	LQ3T4A-R5		1/2" x 3/8"	3/8" x 1/4"		
	LQ3T4A-R6		1/2" x 3/8"	1/4" x 5/32"		
	LQ3T4A-R7		3/8" x 1/4"	3/8" x 1/4"		
	LQ3T4A-R8		1/4" x 5/32"	1/4" x 5/32"		
	LQ3T4A-R9		3/8" x 1/4"	3/8" x 1/4"		
	5		LQ3T5A-R1	3/4" x 5/8"	1/2" x 3/8"	3/4" x 5/8"
LQ3T5A-R2		3/8" x 1/4"	3/4" x 5/8"			
LQ3T5A-R3		1/4" x 5/32"	3/4" x 5/8"			
LQ3T5A-R5		3/4" x 5/8"	1/2" x 3/8"			
LQ3T5A-R6		3/4" x 5/8"	3/8" x 1/4"			
LQ3T5A-R7		1/2" x 3/8"	1/2" x 3/8"			
LQ3T5A-R9		1/2" x 3/8"	3/4" x 5/8"			
LQ3T5A-R10		3/8" x 1/4"	3/4" x 5/8"			
LQ3T5A-R11		1/2" x 3/8"	1/4" x 5/32"			
LQ3T5A-R12		3/4" x 5/8"	1/4" x 5/32"			
6		LQ3T6A-R1	1" x 7/8"		3/4" x 5/8"	1" x 7/8"
		LQ3T6A-R2			1/2" x 3/8"	1" x 7/8"
	LQ3T6A-R3	3/8" x 1/4"		1" x 7/8"		
	LQ3T6A-R4	1/4" x 5/32"		1" x 7/8"		
	LQ3T6A-R5	1" x 7/8"		3/4" x 5/8"		
	LQ3T6A-R6	1" x 7/8"		1/2" x 3/8"		
	LQ3T6A-R7	3/4" x 5/8"		3/4" x 5/8"		
	LQ3T6A-R9	3/4" x 5/8"		3/4" x 5/8"		
	LQ3T6A-R10	1/2" x 3/8"		1" x 7/8"		
	LQ3T6A-R12	1" x 7/8"		3/8" x 1/4"		
	LQ3T6A-R13	1" x 7/8"		1/4" x 5/32"		
	LQ3T6A-R14	3/4" x 5/8"		1" x 7/8"		

Note) For details of the applicable tubing sizes, refer to page 945.

LQ3 Series

Dimensions

Union tee reducing: LQ3T-R



(E1, E1', E2, E2', E3, E3'): Reference dimension for the inserted tubing from the end surface of the nut

(E1, E2', E3), L1', L2', L3': Nut material PVDF dimensions

Metric Size

Model	A side (Left) Applicable tubing O.D.	B side (Center)	C side (Right) Applicable tubing O.D.	B	E1	E1'	E2	E2'	E3	E3'	F	G	H1	H2	H3	L1	L1'	L2	L2'	L3	L3'	M1	M2	M3	Min. port size		
LQ3T11-R1	ø4	ø3	ø4	3.5	10	9	10	9	10	9	4.8	9.5	11	11	11	28.5	27.5	28.5	27.5	28.5	27.5	14	14	14	2		
LQ3T11-R5		ø4	ø3																								
LQ3T21-R1		ø4	ø6																								
LQ3T21-R2	ø6	ø3	ø6	4	17	16	10	9	17	16	6	12	16	11	16	34.5	33.5	30.5	29.5	34.5	33.5	20	14	20	2.5		
LQ3T21-R5		ø6	ø4																								
LQ3T21-R6		ø6	ø3																								
LQ3T31-R1	ø10	ø8	ø10	5	22.5	19.5	17	16	22.5	19.5	9	18	21	21	21	47.5	44.5	47.5	44.5	38	37	47.5	44.5	25	20	25	6.4
LQ3T31-R2		ø6	ø10																								
LQ3T31-R5		ø10	ø8																								
LQ3T31-R6	ø8	ø6	ø8	5	22.5	19.5	17	16	22.5	19.5	9	18	21	21	21	47.5	44.5	47.5	44.5	38	37	47.5	44.5	25	20	25	6.4
LQ3T32-R1		ø6	ø6																								
LQ3T32-R5		ø8	ø6																								
LQ3T41-R1	ø12	ø10	ø12	6	24	22	24	22	22.5	19.5	10	20	24	24	24	52.5	50.5	48.5	45.5	52.5	50.5	29	25	29	7.5		
LQ3T41-R5		ø12	ø10																								
LQ3T51-R1		ø12	ø19																								
LQ3T51-R5	ø19	ø19	ø12	7	26.5	24	24	22	26.5	24	14	28	32	32	24	64	61.5	58.5	56.5	64	61.5	37	29	37	9.5		
LQ3T61-R1		ø19	ø25																								
LQ3T61-R5		ø25	ø19																								

Inch Size

Model	A side (Left) Applicable tubing O.D.	B side (Center)	C side (Right) Applicable tubing O.D.	B	E1	E1'	E2	E2'	E3	E3'	F	G	H1	H2	H3	L1	L1'	L2	L2'	L3	L3'	M1	M2	M3	Min. port size		
LQ3T2A-R1	1/4"	1/8"	1/4"	4	17	16	10	9	17	16	6	12	16	11	16	34.5	33.5	30.5	29.5	34.5	33.5	20	14	20	2		
LQ3T2A-R5		1/4"	1/8"																								
LQ3T3A-R1		1/4"	3/8"																								
LQ3T3A-R2	3/8"	1/8"	3/8"	5	22.5	19.5	10	9	22.5	19.5	9	18	21	21	21	47.5	44.5	47.5	44.5	33.5	32.5	47.5	44.5	25	14	25	4
LQ3T3A-R5		3/8"	1/4"																								
LQ3T3A-R7		1/4"	1/4"																								
LQ3T3A-R9	1/4"	3/8"	1/4"	17	16	16	17	16	17	16	9	18	16	21	16	38	37	47.5	44.5	38	37	20	20	20	4		
LQ3T4A-R1		3/8"	1/2"																								
LQ3T4A-R2		1/4"	1/2"																								
LQ3T4A-R5	1/2"	1/2"	3/8"	6	24.5	22.5	24.5	22.5	22.5	19.5	10	20	24	24	24	52.5	50.5	48.5	45.5	52.5	50.5	29	25	29	6.4		
LQ3T4A-R6		1/2"	1/4"																								
LQ3T4A-R7		3/8"	3/8"																								
LQ3T4A-R8	3/8"	1/4"	1/4"	22.5	19.5	24.5	22.5	19.5	22.5	19.5	14	28	32	24	24	48.5	45.5	52.5	50.5	48.5	45.5	25	25	25	6.4		
LQ3T4A-R9		1/2"	3/8"																								
LQ3T5A-R1		1/2"	3/4"																								
LQ3T5A-R2	3/4"	3/8"	3/4"	26.5	24	24	24.5	22.5	24.5	22.5	14	28	32	21	32	64	61.5	58.5	56.5	64	61.5	37	29	37	9.5		
LQ3T5A-R3		1/4"	3/4"																								
LQ3T5A-R5		3/4"	1/2"																								
LQ3T5A-R6	1/2"	3/4"	3/8"	24.5	22.5	24.5	22.5	19.5	24.5	22.5	14	28	24	24	58.5	56.5	64	61.5	58.5	56.5	64	61.5	29	29	29	9.5	
LQ3T5A-R7		1/2"	1/2"																								
LQ3T5A-R9		3/4"	1/2"																								
LQ3T5A-R10	3/8"	3/4"	3/8"	22.5	19.5	26.5	24	22.5	19.5	19.5	14	28	32	21	32	54.5	51.5	64	61.5	58.5	56.5	64	61.5	25	25	25	6.4
LQ3T5A-R11		1/2"	1/4"																								
LQ3T5A-R12		3/4"	1/4"																								
LQ3T6A-R1	1"	3/4"	1"	30	26	26	26.5	24	26.5	24	18	36	41	16	78	74	70	67.5	70	67.5	78	74	49	49	49	16	
LQ3T6A-R2		1/2"	1"																								
LQ3T6A-R3		3/8"	1"																								
LQ3T6A-R4	1"	1/4"	1"	30	26	26	30	26	26.5	24	18	36	41	16	78	74	70	67.5	70	67.5	78	74	49	49	49	16	
LQ3T6A-R5		1"	3/4"																								
LQ3T6A-R6		1"	1/2"																								
LQ3T6A-R7	3/4"	3/4"	3/4"	26.5	24	26.5	24	22.5	19.5	19.5	18	36	32	32	70	67.5	70	67.5	70	67.5	78	74	37	37	37	16	
LQ3T6A-R9		3/4"	1"																								
LQ3T6A-R10		1/2"	1"																								
LQ3T6A-R12	1"	1"	3/8"	30	26	30	26	22.5	19.5	19.5	14	28	41	41	21	78	74	78	74	64.5	62.5	60	57	49	49	25	6.4
LQ3T6A-R13		1"	1/4"																								
LQ3T6A-R14		3/4"	1"																								

LQ3 Series Space Saving Union Elbow

How to Order

Tubing connection

LQ3 E 21 - S -

Fitting type

Symbol	Type
E	Union elbow

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Thread type

Symbol	Type
S	Space saving

Size combination

Size	No.	Applicable tubing size (mm)
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

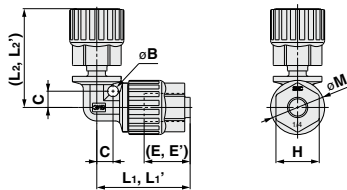
Note) For details of the applicable tubing sizes, refer to page 945.

Size	Symbol	Applicable tubing size (inch)
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"
7	A	1 1/4" x 1.1"

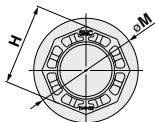
Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Space saving union elbow: LQ3E-S



(E,E'): Reference dimension for the inserted tubing from the end surface of the nut
(E'), L1', L2': Nut material PVDF dimensions



Class 7

Metric Size

Model	Applicable tubing O.D.	B	C	E	E'	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3E21-S	ø6	4	6	17	16	16	34.5	33.5	39.5	38.5	20	3.9
LQ3E31-S	ø10	5	9	22.5	19.5	21	47.5	44.5	52.5	49.5	25	7.5
LQ3E32-S	ø8								49.5	46.5		
LQ3E41-S	ø12	6	10	24	22	24	52.5	50.5	54.5	52.5	29	9.5
LQ3E51-S	ø19	7	14	26.5	24	32	64	61.5	66	63.5	37	15.8
LQ3E61-S	ø25	8	18	30	26	41	78	74	80	76	49	22

Inch Size

Model	Applicable tubing O.D.	B	C	E	E'	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3E2A-S	1/4"	4	6	17	16	16	34.5	33.5	39.5	38.5	20	3.9
LQ3E3A-S	3/8"	5	9	22.5	19.5	21	47.5	44.5	49.5	46.5	25	6.3
LQ3E4A-S	1/2"	6	10	24.5	22.5	24	52.5	50.5	54.5	52.5	29	9.5
LQ3E5A-S	3/4"	7	14	26.5	24	32	64	61.5	66	63.5	37	15.8
LQ3E6A-S	1"	8	18	30	26	41	78	74	80	76	49	22
LQ3E7A-S	1 1/4"	9	22	35	35	50	92.5	92.5	97.5	97.5	64	28

LVC

LVA

LVH

LVD

LVQ

LVP

LVW

LQ1

LQ3

LVN

LQHB

TL

TIL

TLM

TILM

TD

TID

TH

TIH

Space Saving Branch Tee

How to Order

Tubing connection

LQ3 T 21 - S B - []

Fitting type

Symbol	Type
T	Union tee

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Thread type

Symbol	Type
B	Branch tee

Tubing type

Symbol	Type
S	Space saving

Size combination

Size	No.	Applicable tubing size (mm)
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

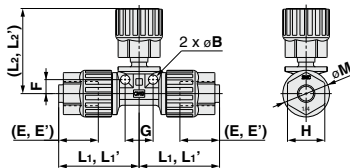
Size	Symbol	Applicable tubing size (inch)
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"

Note) For details of the applicable tubing sizes, refer to page 945.

Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Space saving branch tee: LQ3T-SB



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L1', L2': Nut material PVDF dimensions

Metric Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3T21-SB	ø6	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20	3.9
LQ3T31-SB	ø10	5	22.5	19.5	9	18	21	47.5	44.5	52.5	49.5	25	7.5
LQ3T32-SB	ø8									49.5	46.5	6.3	
LQ3T41-SB	ø12	6	24	22	10	20	24	52.5	50.5	54.5	52.5	29	9.5
LQ3T51-SB	ø19	7	26.5	24	14	28	32	64	61.5	66	63.5	37	15.8
LQ3T61-SB	ø25	8	30	26	18	36	41	78	74	80	76	49	22

Inch Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3T2A-SB	1/4"	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20	3.9
LQ3T3A-SB	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	49.5	46.5	25	6.3
LQ3T4A-SB	1/2"	6	24.5	22.5	10	20	24	52.5	50.5	54.5	52.5	29	9.5
LQ3T5A-SB	3/4"	7	26.5	24	14	28	32	64	61.5	66	63.5	37	15.8
LQ3T6A-SB	1"	8	30	26	18	36	41	78	74	80	76	49	22

LQ3 Series Space Saving Run Tee

How to Order

Tubing connection

LQ3 T 21 - S R -

Fitting type

Symbol	Type
T	Union tee

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Thread type

Symbol	Type
R	Run tee

Tubing type

Symbol	Type
S	Space saving

Size combination

Size	No.	Applicable tubing size (mm)
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

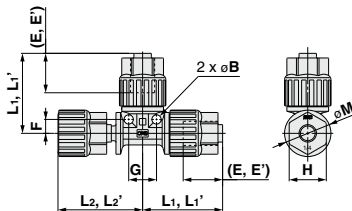
Size	Symbol	Applicable tubing size (inch)
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"

Note) For details of the applicable tubing sizes, refer to page 945.

Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Space saving run tee: LQ3T-SR



Metric Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3T21-SR	ø6	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20	3.9
LQ3T31-SR	ø10	5	22.5	19.5	9	18	21	47.5	44.5	52.5	49.5	25	7.5
LQ3T32-SR	ø8	5	22.5	19.5	9	18	21	47.5	44.5	49.5	46.5	25	6.3
LQ3T41-SR	ø12	6	24	22	10	20	24	52.5	50.5	54.5	52.5	29	9.5
LQ3T51-SR	ø19	7	26.5	24	14	28	32	64	61.5	66	63.5	37	15.8
LQ3T61-SR	ø25	8	30	26	18	36	41	78	74	80	76	49	22

Inch Size

Model	Applicable tubing O.D.	B	E	E'	F	G	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size
LQ3T2A-SR	1/4"	4	17	16	6	12	16	34.5	33.5	39.5	38.5	20	3.9
LQ3T3A-SR	3/8"	5	22.5	19.5	9	18	21	47.5	44.5	49.5	46.5	25	6.3
LQ3T4A-SR	1/2"	6	24.5	22.5	10	20	24	52.5	50.5	54.5	52.5	29	9.5
LQ3T5A-SR	3/4"	7	26.5	24	14	28	32	64	61.5	66	63.5	37	15.8
LQ3T6A-SR	1"	8	30	26	18	36	41	78	74	80	76	49	22

(E, E'): Reference dimension for the inserted tubing from the end surface of the nut

(E'), L₁', L₂': Nut material PVDF dimensions

LVC

LVA

LVH

LVD

LVQ

LVP

LVW

LQ1

LQ3

LVN

LQHB

TL

TIL

TLM

TILM

TD

TIH

TIH

LQ3 Series Tubing Extension Straight Connector

How to Order

Tubing connection

LQ3 H 2A - T -

Fitting type

Symbol	Type
H	Connector

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Thread type

Symbol	Type
T	Tubing extension

Size combination

Size	No.	Applicable tubing size (mm)
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

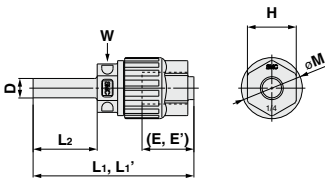
Note) For details of the applicable tubing sizes, refer to page 945.

Size	Symbol	Applicable tubing size (inch)
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"
7	A	1 1/4" x 1.1"

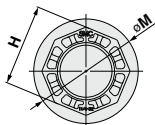
Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Tubing extension straight connector: LQ3H-T



(E, E'): Reference dimension for the inserted tubing from the end surface of the nut
(E), L': Nut material PVDF dimensions
W: Width across flats dimension



Class 7

Metric Size

Model	Applicable tubing O.D.	D	E	E'	H	L ₁	L ₁ '	L ₂	M	Min. port size	W
LQ3H21-T	ø6	ø6	17	16	16	53	51.5	18	20	3.9	14
LQ3H31-T	ø10	ø10	22.5	19.5	21	67.5	64.5	22.5	25	7.5	18
LQ3H32-T	ø8	ø8								6	
LQ3H41-T	ø12	ø12	24	22	24	74	72	24	29	9.5	22
LQ3H51-T	ø19	ø19	26.5	24	32	83.5	81	26.5	37	15.8	30
LQ3H61-T	ø25	ø25	30	26	41	97.5	93.5	31	49	22	36

Inch Size

Model	Applicable tubing O.D.	D	E	E'	H	L ₁	L ₁ '	L ₂	M	Min. port size	W
LQ3H2A-T	1/4"	1/4"	17	16	16	53	51.5	18	20	3.9	14
LQ3H3A-T	3/8"	3/8"	22.5	19.5	21	65.5	62.5	23.5	25	6.3	18
LQ3H4A-T	1/2"	1/2"	24.5	22.5	24	72	70	25	29	9.5	22
LQ3H5A-T	3/4"	3/4"	26.5	24	32	83.5	81	26.5	37	15.8	30
LQ3H6A-T	1"	1"	30	26	41	97.5	93.5	31	49	22	36
LQ3H7A-T	1 1/4"	1 1/4"	35	35	50	120.5	120.5	41.5	64	28	46

LQ3 Series Straight Adapter

How to Order

Tubing connection

LQ3 A 21 -

Fitting type

Symbol	Type
A	Straight adapter

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Size combination

Size	No.	Applicable tubing size (mm)	Applicable piping size
2	1	6 x 4	ø13.7 x ø9
2	2		ø21.3 x ø15.4
2	3		ø26.7 x ø20.5
2	4		ø33.4 x ø26.3
2	5		ø60.3 x ø52.5
3	2	8 x 6	ø13.7 x ø9
3	4		ø21.3 x ø15.4
3	6		ø26.7 x ø20.5
3	7	10 x 8	ø33.4 x ø26.3
3	8	8 x 6	ø21.3 x ø15.4
4	1	12 x 10	ø21.3 x ø15.4
4	2		ø26.7 x ø20.5
4	3		ø33.4 x ø26.3
4	4		ø60.3 x ø52.5
5	1	19 x 16	ø21.3 x ø15.4
5	2		ø26.7 x ø20.5
5	3		ø33.4 x ø26.3
6	1	25 x 22	ø26.7 x ø20.5
6	2		ø33.4 x ø26.3
6	3		ø60.3 x ø52.5

Note) For details of the applicable tubing sizes, refer to page 945.

Size	Symbol	Applicable tubing size (inch)	Applicable piping size
2	A	1/4" x 5/32"	ø13.7 x ø9
2	B		ø21.3 x ø15.4
2	C		ø26.7 x ø20.5
2	D		ø33.4 x ø26.3
2	E		ø60.3 x ø52.5
3	A	3/8" x 1/4"	ø13.7 x ø9
3	B		ø21.3 x ø15.4
3	C		ø26.7 x ø20.5
4	A	1/2" x 3/8"	ø21.3 x ø15.4
4	B		ø26.7 x ø20.5
4	C		ø33.4 x ø26.3
5	A	3/4" x 5/8"	ø60.3 x ø52.5
5	B		ø21.3 x ø15.4
5	C		ø26.7 x ø20.5
6	A	1" x 3/4"	ø33.4 x ø26.3
6	B		ø26.7 x ø20.5
6	C		ø33.4 x ø26.3
7	A	1 1/4" x 1.1"	ø33.4 x ø26.3

Note) For details of the applicable tubing sizes, refer to page 945.

LVC

LVA

LVH

LVD

LVQ

LVP

LVW

LQ1

LQ3

LVN

LQHB

TL

TIL

TLM

TILM

TD

TID

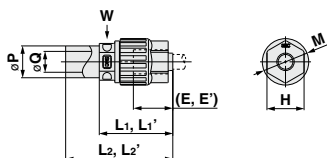
TH

TIH

LQ3 Series

Dimensions

Straight Adapter: LQ3A



(E,E'): Reference dimension for the inserted

tubing from the end surface of the nut

(E),L1',L2': Nut material PVDF dimensions

W: Width across flats dimension

Metric Size

Model	E	E'	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size	P	Q	W
LQ3A21	17	16	16	32	30.5	46	44.5	20	4	13.7	9	14
LQ3A22						58	56.5			21.3	15.4	
LQ3A23				32.5	31	70.5	69			26.7	20.5	
LQ3A24						74.5	73			33.4	26.3	
LQ3A25						60.3	52.5					
LQ3A32	22.5	19.5	21	40	39	54	53	25	6.4	13.7	9	18
LQ3A34						66	65			21.3	15.4	
LQ3A36				66	26.7	20.5						
LQ3A37				44	41	82	79			7.5	33.4	
LQ3A41	24	22	24	47	45	80	78	29	9.5	21.3	15.4	22
LQ3A42						66	66			26.7	20.5	
LQ3A43				49	47	88	86			33.4	26.3	
LQ3A44										60.3	52.5	
LQ3A51	26.5	24	32	57	54.5	95	92.5	37	15.4	21.3	15.4	30
LQ3A52									16	26.7	20.5	
LQ3A53									33.4	26.3		
LQ3A61	30	26	41	66.5	62.5	104.5	100.5	49	20.5	26.7	20.5	36
LQ3A62									22	33.4	26.3	
LQ3A63				68.5	64.5	107.5	103.5		60.3	52.5		

Inch Size

Model	E	E'	H	L ₁	L ₁ '	L ₂	L ₂ '	M	Min. port size	P	Q	W
LQ3A2A	17	16	16	32	30.5	46	44.5	20	4	13.7	9	14
LQ3A2B						58	56.5			21.3	15.4	
LQ3A2C				32.5	31	70.5	69			26.7	20.5	
LQ3A2D						74.5	73			33.4	26.3	
LQ3A2E						60.3	52.5					
LQ3A3A	22.5	19.5	21	40	39	56	53	25	6.4	13.7	9	18
LQ3A3B						66	65			21.3	15.4	
LQ3A3C				49	47	88	86			26.7	20.5	
LQ3A4A										60.3	52.5	
LQ3A4B	24.5	22.5	24	47	45	80	78	29	9.5	21.3	15.4	22
LQ3A4C						66	66			26.7	20.5	
LQ3A4D				49	47	88	86			60.3	52.5	
LQ3A5A	26.5	24	32	57	54.5	95	92.5	37	15.4	21.3	15.4	30
LQ3A5B									16	26.7	20.5	
LQ3A5C									33.4	26.3		
LQ3A6A	30	26	41	66.5	62.5	104.5	100.5	49	20.5	26.7	20.5	36
LQ3A6B									22	33.4	26.3	
LQ3A6C				68.5	64.5	107.5	103.5		60.3	52.5		
LQ3A7A	35	35	50	79	79	117	117	64	26.3	33.4	26.3	46

LQ3 Series Union Flange

How to Order

Tubing connection

LQ3 F 22 - []

Fitting type

Symbol	Type
F	Union flange

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7

Size combination

Size	No.	Applicable tubing size (mm)	Applicable flange size
2	2	6 x 4	10K-20A
4	2	10K-20A	10K-20A
4	3	12 x 10	10K-25A
5	1	10K-15A	10K-15A
5	2	19 x 16	10K-20A
5	3	10K-25A	10K-25A
6	2	10K-20A	10K-20A
6	3	25 x 22	10K-25A
6	4	10K-40A	10K-40A

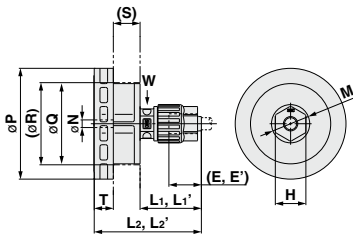
Note) For details of the applicable tubing sizes, refer to page 945.

Size	Symbol	Applicable tubing size (inch)	Applicable flange size
2	B	1/4" x 5/32"	10K-20A
4	B	10K-20A	10K-20A
4	C	1/2" x 3/8"	10K-25A
5	A	10K-15A	10K-15A
5	B	3/4" x 5/8"	10K-20A
5	C	10K-25A	10K-25A
6	B	10K-20A	10K-20A
6	C	1" x 7/8"	10K-25A
6	D	10K-40A	10K-40A

Note) For details of the applicable tubing sizes, refer to page 945.

Dimensions

Union Flange: LQ3F



- (E, E'): Reference dimension for the inserted tubing from the end surface of the nut
 (E'), L1', L2': Nut material PVDF dimensions
 W: Width across flats dimension
 (R): I.D. of JIS flange necessary to mount this product. (Additional modification is needed.)
 JIS flange is not included in the product.

Metric Size

Model	E	E'	H	L1	L1'	L2	L2'	M	P	Q	R	S	T	W	N	Min. port size
LQ3F22	17	16	16	32.1	30.9	56.1	54.9	20	58	42	43	14	10	14	4	4
LQ3F42	24	22	24	49	46.8	73	70.8	29	58	42	43	14	10	22	9.5	9.5
LQ3F43									69							
LQ3F51	26.5	24	32	58	55.3	80	77.3	37	53	42	43	12	10	30	16	16
LQ3F52									58							
LQ3F53									69							
LQ3F62	30	26	41	68.5	64.2	92.5	88.2	49	58	47	48	16	10	36	22	22
LQ3F63									69							
LQ3F64									84							

Inch Size

Model	E	E'	H	L1	L1'	L2	L2'	M	P	Q	R	S	T	W	N	Min. port size
LQ3F2B	17	16	16	32.1	30.9	56.1	54.9	20	58	42	43	14	10	14	4	4
LQ3F4B	24.5	22.5	24	49	46.8	73	70.8	29	58	42	43	14	10	22	9.5	9.5
LQ3F4C									69							
LQ3F5A	26.5	24	32	58	55.3	80	77.3	37	53	42	43	12	10	30	16	16
LQ3F5B									58							
LQ3F5C									69							
LQ3F6B	30	26	41	68.5	64.2	92.5	88.2	49	58	47	48	16	10	36	22	22
LQ3F6C									69							
LQ3F6D									84							



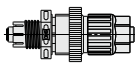

LVC
LVA
LVH
LVD
LVQ
LVP
LVW
LQ1
LQ3
LVN
LQHB
TL
TIL
TLM
TILM
TD
TID
TH
TIH

How to Order Space Saving Type Fittings

This product, for use with products with one nut attached (insert bushing) has one nut removed.

LQ3 E 6A - SN -

Fitting type

E	T
Union Elbow 	Union Tee 
P	U
Panel Mount Union 	Union 

Packaging

Symbol	Packaging
NH	Clean packaging equivalent to ISO Class 5
1	Standard packaging equivalent to ISO Class 7

Without a nut (including insert bushing) in one part

Applicable tubing size

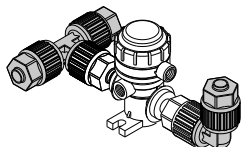
Symbol	Applicable tubing size (mm)	
Size	No.	
2	1	6 x 4
3	1	10 x 8
3	2	8 x 6
4	1	12 x 10
5	1	19 x 16
6	1	25 x 22

Symbol	Applicable tubing size (inch)	
Size	No.	
2	A	1/4" x 5/32"
3	A	3/8" x 1/4"
4	A	1/2" x 3/8"
5	A	3/4" x 5/8"
6	A	1" x 7/8"

Note 1) Please choose the same size fitting as the fitting of the connecting product.

Note 2) For details of applicable tubing sizes, refer to page 945.

Connection example



Options

Blanking plug

LQ3-1 P 03-1 - []

Size

Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Fitting type

Symbol	Type
P	Plug

Thread type

Symbol	Type
1	Male

Packaging

Symbol	Packaging
Nil	Clean packaging equivalent to ISO Class 5
1	Standard packaging equivalent to ISO Class 7



Used to block fittings which are not being used.

Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6
32	1 1/4" x 1.1"	7

Note) For details of the applicable tubing sizes, refer to page 945.

Tubing plug

LQ3-1 P 03-2 - []

Size

Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6

Fitting type

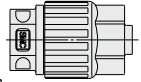
Symbol	Type
P	Plug

Type of piping

Symbol	Type
2	Tubing

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7



Used to block tubing which are not being used.

Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6

Note) For details of the applicable tubing sizes, refer to page 945.

Nut

LQ3-1 N 03 - []

Size

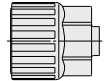
Symbol	Size
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Fitting type

Symbol	Type
N	Nut

Nut material, packaging

Symbol	Nut material	Packaging
Nil	PFA	Clean packaging equivalent to ISO Class 5
1	PFA	Standard packaging equivalent to ISO Class 7
2	PVDF	Clean packaging equivalent to ISO Class 5
3	PVDF	Standard packaging equivalent to ISO Class 7



Applicable tubing size

Metric Size

Symbol	Applicable tubing size	Size
03	ø3 x ø2	1
04	ø4 x ø3	
06	ø6 x ø4	2
08	ø8 x ø6	
10	ø10 x ø8	3
12	ø12 x ø10	
19	ø19 x ø16	5
25	ø25 x ø22	6

Inch Size

Symbol	Applicable tubing size	Size
03	1/8" x 0.086"	1
07	1/4" x 5/32"	2
11	3/8" x 1/4"	3
13	1/2" x 3/8"	4
19	3/4" x 5/8"	5
25	1" x 7/8"	6
32	1 1/4" x 1.1"	7

Note) For details of the applicable tubing sizes, refer to page 945.

LVC
LVA
LVH
LVD
LVQ
LVP
LVW
LQ1
LQ3
LVN
LQHB
TL
TIL
TLM
TILM
TD
TID
TH
TIH