

Improved weather resistance
in outdoor environments

*1 One-touch Fittings

KQ-X1744

*1 Various tests for weather resistance have been passed, including the accelerated weathering test, combined cycle test, and ozone-proof exposure test. When using the product, refer to "Product Usage Precautions" on page 12.

Passed
1000 hours

Accelerated
weathering test

ISO 4892-3 (JIS K 7350-3) compliant

Passed
960 hours

Combined cycle test

ISO 14993 (JIS H 8502: 1999) compliant

Passed
1000 hours

Ozone-proof
exposure test

ISO 1431 (JIS K 6259) compliant



<Variations>

Type **5 models**

Male connector, Straight union,
Male elbow, Union elbow,
Union tee

Tube O.D. **6 types**

ø4, ø6, ø8, ø10, ø12, ø16

Test details

Accelerated
weathering test

UV exposure: **8 hours**
(Type 1A: UVA-340)

UV exposure and water spray: **0.25 hours**
(Type 1A: UVA-340)

Condensation/Dark:
3.75 hours

Combined cycle test

Salt water spray: **2 hours**
(Ambient temperature 35°C, Salinity 5%)

Drying: **4 hours**
(Ambient temperature 60°C,
Relative humidity 20 to 30%)

Humidity: **2 hours**
(Ambient temperature 50°C,
Relative humidity 95% or more)

Ozone-proof
exposure test

Exposure time: **1000 hours**
(Ozone-proof concentration 1 ppm, Ambient temperature 40°C)

Refer to page 12 for One-touch fitting with improved weather resistance safety instructions.

KQ-X1744

Specifications

Applicable tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Fluid	Air, Water*1 *2
Operating pressure range	-100 kPa to 1 MPa*3
Ambient and fluid temperatures	-5 to 60°C, Water: 0 to 40°C (No freezing)

- *1 The surge pressure must be kept below the max. operating pressure.
 - *2 Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.
 - *3 Check the operating pressure range of the tubing.
 - * Specifications not listed are the same as those of the KQ2 series.
- For details, refer to page 35.
- * Please contact your local sales representative for more details.

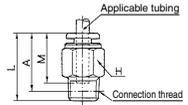
One-touch Fitting with Improved Weather Resistance KQ-X1744



Male Connector

Applicable tubing O.D.	Connection thread	Model	H (Width across flats)	L	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
							Nylon	Urethane		
ø4	R1/8	KQH04-01 □-X1744	10	21.1	18	16	5.6	4.0	3	9
	R1/4	KQH04-02 □-X1744	14	19	13.5					16
ø6	R1/8	KQH06-01 □-X1744	12	21.6	18.5	17	13.1	10.4	4.5	16
	R1/4	KQH06-02 □-X1744	14	22.5	17					14
	R3/8	KQH06-03 □-X1744	17	20.9	15.5					27
ø8	R1/8	KQH08-01 □-X1744	14	27.1	24	18.5	26.1	18	6	21
	R1/4	KQH08-02 □-X1744	14	26	20.5					19
	R3/8	KQH08-03 □-X1744	17	20.9	15.5					26
ø10	R1/8	KQH10-01 □-X1744	17	29.1	26	21	26.1	26.1	7.5	19
	R1/4	KQH10-02 □-X1744	17	33	27.5					30
	R3/8	KQH10-03 □-X1744	17	27.9	22.5		30			
	R1/2	KQH10-04 □-X1744	22	26.1	19		53			
ø12	R1/4	KQH12-02 □-X1744	19	34	28.5	22	58.3	46.1	9	42
	R3/8	KQH12-03 □-X1744	19	28.9	23.5					34
	R1/2	KQH12-04 □-X1744	22	29.1	22					51
ø16	R3/8	KQH16-03 □-X1744	24	38.4	33	25	81	67	11	61
	R1/2	KQH16-04 □-X1744	24	34.6	27.5		113	67	13	47

- : Nil : No sealant for the threaded portion
S: Threaded portion with sealant

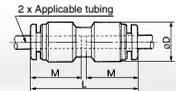


- *1 Reference dimensions after the installation of the R thread



Straight Union

Applicable tubing O.D.	Model	øD	L	M	Effective area [mm ²]		Min. port size	Weight [g]
					Nylon	Urethane		
ø4	KQH04-00-X1744	10.4	32.5	16	5.6	4.0	3	3
ø6	KQH06-00-X1744	12.8	34.5	17	13.1	10.4	4.5	4
ø8	KQH08-00-X1744	15.2	38.5	18.5	26.1	18	6	6
ø10	KQH10-00-X1744	18.5	42.5	21	41.5	29.5	7.5	11
ø12	KQH12-00-X1744	20.9	44.5	22	58.3	46.1	9	14
ø16	KQH16-00-X1744	26.5	51	25	113	67	13	24





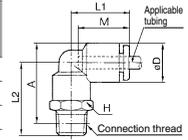
One-touch Fitting with Improved Weather Resistance **KQ-X1744**

Male Elbow



Applicable tubing O.D.	Connection thread	Model	H (With across face)	øD	L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
									Nylon	Urethane		
ø4	R1/8	KQL04-01□-X1744	10	10.4	18	21.1	23	16	4.2	4.2	3	10
	R1/4	KQL04-02□-X1744	14	10.4	18	25.5	25					19
R1/8	KQL06-01□-X1744	10	12.8	20	22.1	25.5	12					12
	R1/4	KQL06-02□-X1744	14	12.8	20	26.5						27.5
R3/8	KQL06-03□-X1744	17	12.8	20	27.9	29	13					33
	R1/8	KQL08-01□-X1744	12	15.2	23	23.6						28
R1/4	KQL08-02□-X1744	14	15.2	23	28	30	21					21
	R3/8	KQL08-03□-X1744	17	15.2	23	29.4						31.5
R1/8	KQL10-01□-X1744	17	18.5	26.5	26.1	32	25	21.6	14.9			25
	R1/4	KQL10-02□-X1744	17	18.5	26.5	29.5						33
R3/8	KQL10-03□-X1744	17	18.5	26.5	30.9	34.5	36					36
	R1/2	KQL10-04□-X1744	22	18.5	26.5	35.1						37
R1/4	KQL12-02□-X1744	17	20.9	28.5	30.5	35.5	22					28
	R3/8	KQL12-03□-X1744	17	20.9	28.5	31.9						37
R1/2	KQL12-04□-X1744	22	20.9	28.5	36.1	39.5	65					65
	R3/8	KQL16-03□-X1744	22	26.5	34	36.9						44.5
R1/2	KQL16-04□-X1744	22	26.5	34	40.1	46	103					

□: Nil : No sealant for the threaded portion
S: Threaded portion with sealant

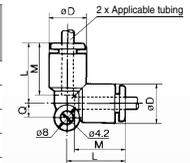


*1 Reference dimensions after the installation of the R thread

Union Elbow



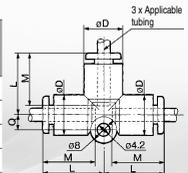
Applicable tubing O.D.	Model	øD	L	Q	M	Effective area [mm ²]		Min. port size	Weight [g]
						Nylon	Urethane		
ø4	KQL04-00-X1744	10.4	18	4.5	16	4.2	4.2	3	6
ø6	KQL06-00-X1744	12.8	20	5.3	17	11.4	9	4.5	6
ø8	KQL08-00-X1744	15.2	23	6	18.5	21.6	14.9	6	10
ø10	KQL10-00-X1744	18.5	26.5	6.8	21	35.2	25	7.5	17
ø12	KQL12-00-X1744	20.9	28.5	7.5	22	50.2	39.7	9	21
ø16	KQL16-00-X1744	26.5	34	10	25	100	58.9	13	29



Union Tee



Applicable tubing O.D.	Model	øD	L	Q	M	Effective area [mm ²]		Min. port size	Weight [g]
						Nylon	Urethane		
ø4	KQT04-00-X1744	10.4	18	4.5	16	6.4	4.4	3	7
ø6	KQT06-00-X1744	12.8	20	5.3	17	13.4	10.6	4.5	10
ø8	KQT08-00-X1744	15.2	23	6	18.5	25.6	17.7	6	15
ø10	KQT10-00-X1744	18.5	26.5	6.8	21	40	28.4	7.5	25
ø12	KQT12-00-X1744	20.9	28.5	7.5	22	57.4	45.4	9	29
ø16	KQT16-00-X1744	26.5	34	10	25	100	58.9	13	40



Refer to page 12 for One-touch fitting with improved weather resistance safety instructions.