



SERIES KQ2 ONE TOUCH FITTINGS



FITTINGS WITH UNI-THREAD

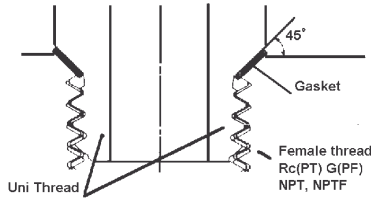
SERIES KQ: BLACK BODY FITTINGS
SERIES KQ2: WHITE BODY FITTINGS

- ✓ Wide Range of Pressures low vacuum to 0.1MPa
- ✓ Wide Range of Applicable Tube Systems (4mm to 16mm)
- ✓ Minimized Resistance to Air Flow
- ✓ Easy and quick installation of tube
- ✓ A unique thread concept allows for compatability with parallel and taper female threads. Uni-thread fits all female thread types* (Rc, Rp, G, NPT, NPTF, BSP, BSPT)
- ✓ No Thread Sealant required
- ✓ Space-Saving
- ✓ Uniform Mounting Height improves appearance
- ✓ Cuts assembly time by over 60%

- ✓ Constant mounting height saves space

Lower height of screwed-in fittings save space and improves appearance

UNITHREAD CONSTRUCTION



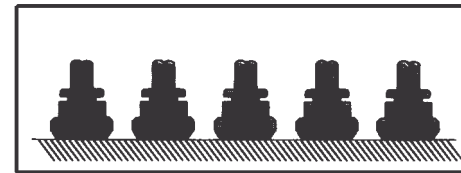
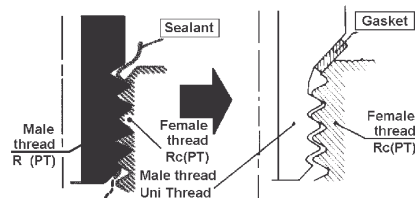
UNI THREAD RIDGE SHAPE

A new ridge shape has been created as a Uni-Thread for common application to Rc(PT), G(PF) NPT, and NPTF female threads with different thread diameters, pitches, tapered angles, ridge shapes, etc..

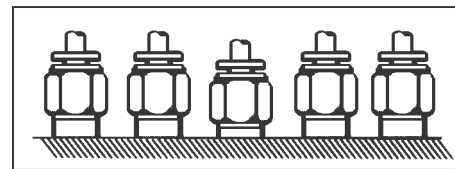
GASKET CONSTRUCTION

A gasket made of stainless sheet covered with laminated NBR on both sides is seated on the chamfer of a female thread to materialize a perfect sealing construction irrespective of the difference in thread diameters due to the difference in the types of female threads, variation in tolerance, difference in the size of chamfer.

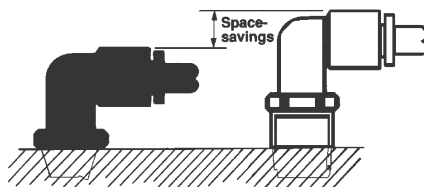
(It is applicable to any female thread with ordinary chamfer.)



Uni-Threads



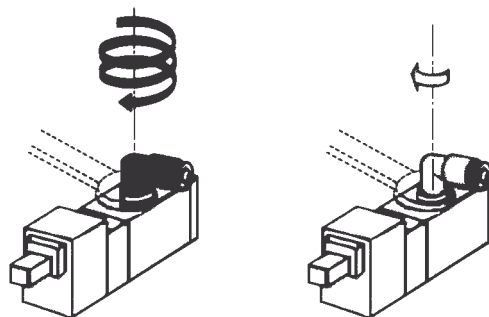
Conventional Threads



- ✓ Screw-In Time is reduced to 1/3

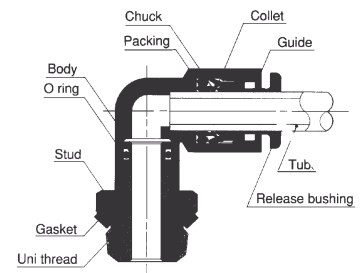
Existing Tapered Thread Series:
2 to 3 turns with a wrench
after manual tightening

Uni-Thread Series:
1/4 to 1/2 turn with a wrench
after manual tightening



Thread Type	Manual Tightening Time +Tool Tightening Time	Total	Ratio
Uni-Thread	6 sec + 4 sec	10 sec	1/3
Conventional Thread	4 sec + 26 sec	30 sec	1

PARTS DESCRIPTION



TECHNICAL SPECIFICATIONS

Fluid	Air
Max Operating Pressure	0.1MPa / 145PSI
Operating Vacuum Pressure	0.001MPa (Absolute) 0.2PSI
Applicable Tube Material	Nylon, Soft Nylon, Polyurethane
Proof Pressure	3MPa / 435PSI
Ambient Fluid Temperature	0 - 60°C / 32 ~ 140°F

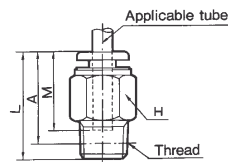
TUBE FITTINGS: ONE TOUCH FITTINGS

KQ, KQ2 SEALANT TYPE

4.15

PRODUCT SELECTOR

MALE CONNECTOR: KQH (KQ2H)



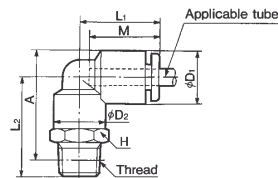
Applicable Tube OD (mm)	Thread R(PT)	Model	H (Hex)	L	•A	M	Effective Orifice (mm ²)		Weight (g)
							Nylon	Urethane	
3.2	M5x0.8	KQH23-M5	8.7	22.5	20	15.5	3.4	2.9	5
3.2	1/8	KQH23-01S	10	22	18	15.5	3.4	2.9	9
3.2	1/4	KQH23-02S	14	21	15	15.5	3.4	2.9	16
4	M5x0.8	KQH04-M5	9.8	23.5	20	16	4	4	8
4	1/8	KQH04-01S	10	22	18	16	5.6	5.6	9
4	1/4	KQH04-02S	14	21	15	16	5.6	5.6	16
6	M5x0.8	KQH06-M5	11.8	24	20.5	17	4	4	9
6	1/8	KQH06-01S	12	22.5	18.5	17	13.1	13.1	10
6	1/4	KQH06-02S	14	23	17	17	13.1	13.1	15
6	3/8	KQH06-03S	17	23	16.5	17	13.1	13.1	27
8	1/8	KQH08-01S	14	28	24	18.5	26.1	18	21
8	1/4	KQH08-02S	14	26.5	20.5	18.5	26.1	18.0	19
8	3/8	KQH08-03S	17	23.5	17	18.5	26.1	18.0	26
10	1/8	KQH10-01S	17	30	26	21	41.5	29.5	19
10	1/4	KQH10-02S	17	33.5	27.5	21	41.5	29.5	30
10	3/8	KQH10-03S	17	29	22.5	21	41.5	29.5	30
10	1/2	KQH10-04S	22	27	19	21	41.5	29.5	53
12	1/4	KQH12-02S	19	34.5	28.5	22	58.3	46.1	42
12	3/8	KQH12-03S	19	30	23.5	22	58.3	46.1	34
12	1/2	KQH12-04S	22	30	22	22	58.3	46.1	51
16	3/8	KQH16-03S	24	38.5	32	24	81	(81)	61
16	1/2	KQH16-04S	24	34.5	26.5	24	113	(96)	47

• Reference dimensions after PT thread installation.
Note: The dimensions in brackets are for Soft Nylon.

Applicable Tube OD (Inch)	Thread UNF NPT	Model	H (Hex)	L	•A	M	Minimum Hole Diameter	Weight (g)
1/8	UNF10-32	KQH01-32	8.7	22.5	20	15.5	2.3	5
1/8	1/16	KQH01-33S	11.11	22	18	15.5	2.5	7
1/8	1/8	KQH01-34S	11.11	22	18	15.5	2.5	9
1/8	1/4	KQH01-35S	14.29	21	15	16	2.5	16
5/32	UNF10-32	KQH03-32	9.8	22.5	20	16	2.5	5
5/32	1/16	KQH03-33S	11.11	22	18	16	3	7
5/32	1/8	KQH03-34S	11.11	22	18	16	3	9
5/32	1/4	KQH03-35S	14.29	21	15	16	3	16
3/16	1/8	KQH05-34S	12.7	22	18	16	3.5	11
3/16	1/4	KQH05-35S	14.29	21	15	16	3.5	12
1/4	1/8	KQH07-34S	14.29	22.5	18.5	17	4.6	10
1/4	1/4	KQH07-35S	14.29	23	17	17	4.6	15
1/4	3/8	KQH07-36S	17.46	23	16.5	17	4.6	27
5/16	1/8	KQH09-34S	14.29	28.5	24.5	18.5	6	15
5/16	1/4	KQH09-35S	14.29	26.5	20.5	18.5	6	16
5/16	3/8	KQH09-36S	17.46	23.5	17	18.5	6	24
3/8	1/4	KQH11-35S	17.46	33.5	27.5	21	7	31
3/8	3/8	KQH11-36S	17.46	29	22.5	21	7	29
3/8	1/2	KQH11-37S	22.23	27	19	21	7	46
1/2	1/4	KQH13-35S	22.23	34.5	28.5	22	9	44
1/2	3/8	KQH13-36S	22.23	33.5	27	22	9.6	44
1/2	1/2	KQH13-37S	22.23	30	22	22	9.6	44

PRODUCT SELECTOR

MALE ELBOW: KQL (KQ2L)



Applicable Tube OD (mm)	Thread R(PT)	Model	H (Hex)	OD ₁	OD ₂	L ₁	L ₂	•A	M	Effective Orifice (mm ²)		Weight (g)
										Nylon/Urethane		
3.2	M5x0.8	KQL23-M5	8	9.6	8	17.5	15	16	15.5	3/2.5		6
3.2	1/8	KQL23-01S	10	9.6	10	17.5	21.5	22.5	15.5	3/2.5		8
3.2	1/4	KQL23-02S	14	9.6	10	17.5	25.5	24.5	15.5	3/2.5		18
4	M5x0.8	KQL04-M5	8	10.4	8	18	15.5	16	16	3.5/3.5		4
4	1/8	KQL04-01S	10	10.4	10	18	22	23	16	4.2/4.2		10
4	1/4	KQL04-02S	14	10.4	10	18	26	25	16	4.2/4.2		19
6	M5x0.8	KQL06-M5	8	12.8	8	20	16	18	17	3.5/3.5		6
6	1/8	KQL06-01S	10	12.8	10	20	23	25.5	17	11.4/11.4		12
6	1/4	KQL06-02S	14	12.8	10	20	27	27.5	17	11.4/11.4		10
6	3/8	KQL06-03S	17	12.8	10	20	29	29	17	11.4/11.4		33
8	1/8	KQL08-01S	12	15.2	12	23	24.5	28	18.5	21.6/14.9		13
8	1/4	KQL08-02S	14	15.2	12	23	28.5	30	18.5	21.6/14.9		21
8	3/8	KQL08-03S	17	15.2	12	23	30.5	31.5	18.5	21.6/14.9		35
10	1/8	KQL10-01S	17	18.5	17	26.5	27	32	21	21.6/14.9		25
10	1/4	KQL10-02S	17	18.5	17	26.5	30	33	21	35.2/25.0		26
10	3/8	KQL10-03S	17	18.5	17	26.5	32	34.5	21	35.2/25.0		36
10	1/2	KQL10-04S	22	18.5	17	26.5	36	37	21	35.2/25.0		63
12	1/4	KQL12-02S	17	20.9	17	28.5	31	35.5	22	50.2/39.7		28
12	3/8	KQL12-03S	17	20.9	17	28.5	33	37	22	50.2/39.7		38
12	1/2	KQL12-04S	22	20.9	17	28.5	37	39.5	22	50.2/39.7		65
16	3/8	KQL16-03S	22	26.5	21	33	38	44.5	24	71/71		101
16	1/2	KQL16-04S	22	26.5	21	33	41	46	24	100/84		105

• Reference dimensions after PT thread installation.
Note: The dimensions in brackets are for soft nylon.

SERIES KQ2 ONE TOUCH FITTINGS



SEE NEXT PAGE FOR MORE DIMENSIONS