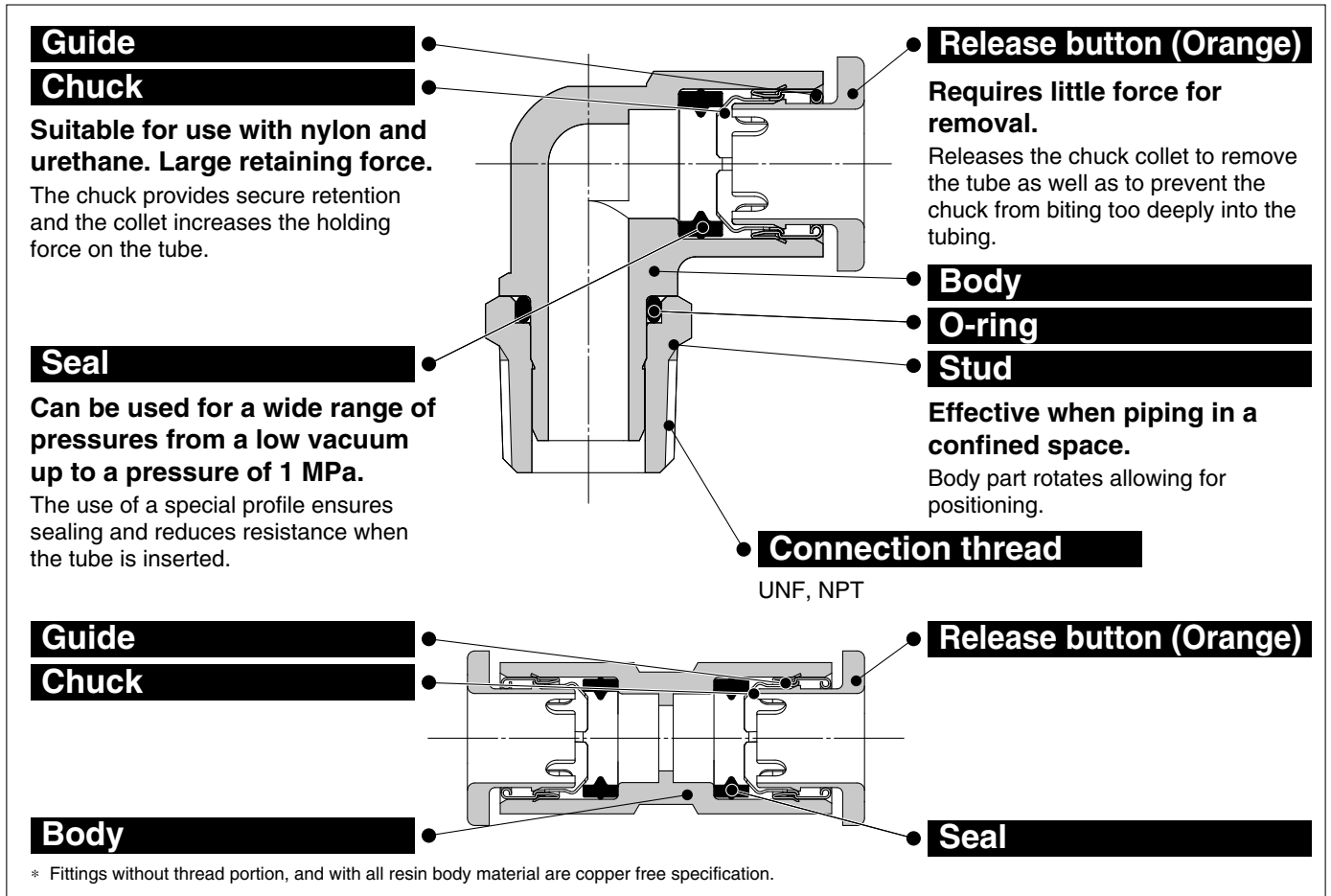


Oval Type Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

KQ2 Series



One-touch IN/OUT connection.
Possible to use in vacuum to -100 kPa.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/16"

Specifications

Fluid		Air, Water*1
Operating pressure range*2		-100 kPa to 1 MPa
Proof pressure (at 23°C)		3 MPa
Ambient and fluid temperature		-5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	ANSI/ASME1.20.1 (NPT thread) JIS B0208 (UNF thread)
	Nut section	JIS B0208 (UNF thread)
Seal on the threads		With sealant

*1 The surge pressure must be under the maximum operating pressure.

*2 Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

Body	C3604, PBT, PP
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



Made to Order
(Refer to page 48 for details.)

How to Order

Threaded Type

KQ2 H 05 - 34 A S 1

One-touch fittings

Model

Symbol	Model
H	Male connector
S	Hexagon socket head male connector
F	Female connector
L	Male elbow
K	45° male elbow
V	Universal male elbow
VS	Hexagon socket head universal male elbow
VF	Universal female elbow
LF	Female elbow
VD	Double universal male elbow
VT	Triple universal male elbow
W	Extended male elbow
T	Male branch tee
Y	Male run tee
E	Bulkhead union
	Bulkhead connector
LE	Bulkhead male elbow

Oval type release button

Male thread seal method

Symbol	Seal method
Nil	None
S	With thread sealant

Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating

Port size/Applicable tubing O.D.

Symbol	Size	
Thread connection	32	10-32UNF
	33	NPT1/16
	34	NPT1/8
	35	NPT1/4
Tubing connection	00*1	Same diameter tubing

*1 Only for "Bulkhead union" and "Bulkhead male elbow".

Applicable tubing O.D.

Symbol	Size
01	ø1/8"
03	ø5/32"
05	ø3/16"

Spare Parts

Use the part number below to order the gasket for sealing 10-32UNF thread.

Gasket for 10-32UNF: M-5G2

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Tube - Tube Type

KQ2 H 05 - 00 A 1

One-touch fittings

Model

Symbol	Model
H	Straight union
	Different diameter straight
L	Union elbow
	Plug-in elbow
	Reducer elbow
R	Plug-in reducer
T	Union tee
	Different diameter tee
TW	Cross

Oval type release button

Port size/Applicable tubing O.D.

Symbol	Size		
Tubing (Port) connection	00	Same diameter tubing	
	99	Same diameter rod	
	Different tubing (Reducer)	01	ø1/8"
		03	ø5/32"
		05	ø3/16"

Applicable tubing O.D.

Symbol	Size
01	ø1/8"
03	ø5/32"
05	ø3/16"

Accessories

Symbol	Name
KQ2N	Nipple
	Reducer nipple
KQ2C	Tube cap
KQ2P	Plug

Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Inch Size One-touch Fittings

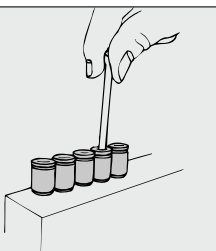
Oval Type Variations

Hexagon socket head male connector

KQ2S P.34



Internal hexagon socket allows tightening with a hexagon wrench in confined spaces.

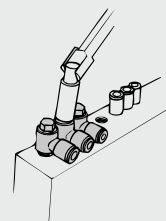


Universal male elbow

KQ2V P.37



Hexagon head of the body allows tightening with a box wrench in confined spaces.

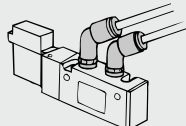


45° male elbow

KQ2K P.37



Use to pipe a female thread at a 45° angle. Its direction is in-between that of the male connector and male elbow.

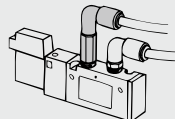


Extended male elbow

KQ2W P.41



Basically, it is used together with a male elbow. Its extended height allows for multi-leveled piping and prevents interference among fittings.

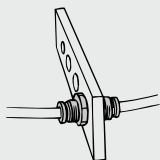


Bulkhead union

KQ2E P.45



Use to connect tubing through a panel, etc.

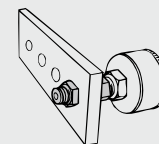


Bulkhead connector

KQ2E P.45



Use to connect a male thread and tubing through a panel, etc.

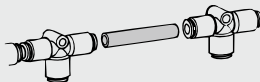


Nipple

KQ2N P.47



Use to connect One-touch fittings.

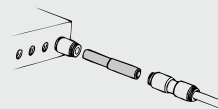


Reducer nipple

KQ2N P.47



Use to connect One-touch fittings of different sizes.



Male connector

KQ2H P.33



Use to pipe a female thread in the same direction. Most general model.

Hexagon socket head universal male elbow

KQ2VS P.38



Hexagon socket on the top allows tightening with a hexagon wrench in confined spaces.

Union elbow

KQ2L P.35



Use to connect tubing at right angles.

Female connector

KQ2F P.34



Use to pipe a male thread of a pressure gauge, etc.

Universal female elbow

KQ2VF P.38



Use to branch a male or female thread in the same direction and at a 90° angle. Multiple connections possible.

Plug-in elbow

KQ2L P.36



Use to change the tube direction of One-touch fittings by 90°.

Straight union

KQ2H P.33



Use to connect tubing in the same direction.

Female elbow

KQ2LF P.36



Use to pipe a male thread at right angles.

Reducer elbow

KQ2L P.36



Use to change the tube direction of One-touch fittings by 90° and connect tubing of reduced size.

Different diameter straight

KQ2H P.33



Use to connect tubing of different sizes.

Double universal male elbow

KQ2VD P.39



Use to two-branch a female thread at right angles. Two individual parts rotate 360°.

Male branch tee

KQ2T P.42



Use to branch a female thread at both 90° angles.

Male elbow

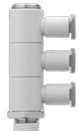
KQ2L P.35



Use to pipe a female thread at right angles. Most general model.

Triple universal male elbow

KQ2VT P.40



Use to three-branch a female thread at right angles. Three individual parts rotate 360°.

Union tee


KQ2T P.43



Use to branch tubing at both 90° angles.

Different diameter tee


KQ2T P.43



Use to connect tubing of reduced size for branching at both 90° angles.

Cross


KQ2TW P.43



Use to four-branch a line.

Male run tee


KQ2Y P.44



Use to branch a female thread in the same direction and at a 90° angle.

Plug-in reducer


KQ2R P.45



Use to change size of One-touch fittings.

Bulkhead male elbow


KQ2LE P.46



Use to connect tubing through a panel, etc. and to change the tube direction by 90°.

Tube cap


KQ2C P.46



Use to plug unused tubing.

Plug


KQ2P P.46



Use to plug unused One-touch fittings.

Color cap

KQ2C P.47



Mount onto the release button and use different colors for piping according to applications.

The following models do not support oval type release buttons. Refer to the round type (from page 133).


Branch universal male elbow

KQ2Z P.146



Double branch universal male elbow

KQ2ZD P.146




Triple branch universal male elbow

KQ2ZT P.147




Branch "Y"

KQ2U P.151




Union "Y"

KQ2U P.152




Different diameter union "Y"

KQ2U P.152




Plug-in "Y"

KQ2U P.152



Different diameter plug-in "Y"

KQ2X P.153



⚠ Box wrenches and socket wrenches may interfere with oval type release buttons. Refer to page 217 for details.

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

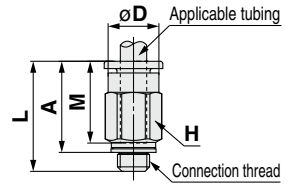
Dimensions

Male Connector: KQ2H (Gasket seal)

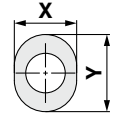


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD	Release button dimensions		L	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	10-32UNF	KQ2H01-32□1	7	6.9	6.7	9.5	17.4	14.4	13.3	3	2.5	2.3	2.7
ø5/32	10-32UNF	KQ2H03-32□1	8	7.9	7.7	10	17.6	14.6	13.3	3.3	3.3	2.3	3.3
ø3/16	10-32UNF	KQ2H05-32□1	8	9	8.4	11	17.7	14.7	13.3	3.4	3.4	2.3	3.4

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



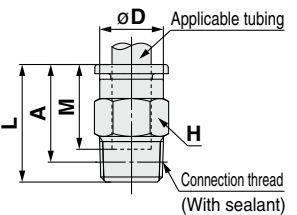
Male Connector: KQ2H (Sealant)



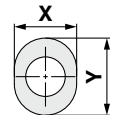
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD	Release button dimensions		L	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	1/16	KQ2H01-33□S1	9.5	6.9	6.7	9.5	19.3	15.2	13.3	3	2.5	2.5	6
	1/8	KQ2H01-34□S1	11.11	—	6.7	9.5	14	10.8	13.3	3	2.5	2.5	7.1
	1/4	KQ2H01-35□S1	14.29	—	6.7	9.5	16.7	12.3	13.3	3.4	2.9	2.5	16.2
ø5/32	1/16	KQ2H03-33□S1	9.5	7.9	7.7	10	20	15.9	13.3	4.8	3.4	3	6.1
	1/8	KQ2H03-34□S1	11.11	—	7.7	10	14	10.8	13.3	4.8	3.4	3	6.5
	1/4	KQ2H03-35□S1	14.29	—	7.7	10	16.7	12.3	13.3	4.8	3.4	3	15.6
ø3/16	1/8	KQ2H05-34□S1	11.11	8.55	8.4	11	17.4	14.2	13.3	7.8	6.5	3.5	7.4
	1/4	KQ2H05-35□S1	14.29	—	8.4	11	16.7	12.3	13.3	7.8	6.5	3.5	14.9

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



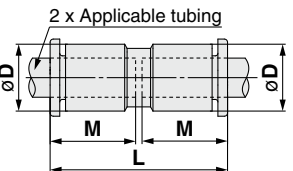
Release button dimensions



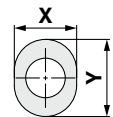
Straight Union: KQ2H



Applicable tubing O.D. [inch]	Model	øD	Release button dimensions		L	M	Effective area [mm ²]		Min. port size	Weight [g]
			X	Y			Nylon	Urethane		
ø1/8	KQ2H01-00A1	7.1	6.7	9.5	27.6	13.3	3.4	2.9	2.5	1.4
ø5/32	KQ2H03-00A1	8.2	7.7	10	27.6	13.3	5.6	4	3	1.6
ø3/16	KQ2H05-00A1	9.1	8.4	11	27.6	13.3	7.8	6.5	3.5	1.9



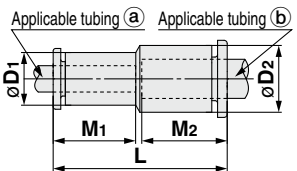
Release button dimensions



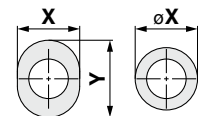
Different Diameter Straight: KQ2H



Applicable tubing O.D. [inch]	Model	øD1	Release button dimensions (a)		Release button dimensions (b)		L	M1	M2	Effective area [mm ²]		Min. port size	Weight [g]	
			X	Y	øX (X)	Y				Nylon	Urethane			
ø1/8	ø5/32	KQ2H01-03A1	7.1	6.7	9.5	8.2	7.7	10	27.6	13.3	3.4	2.9	2.5	1.5
	ø1/4	KQ2H01-07A1	7.1	6.7	9.5	11.1	10.9	—	27.6	13.3	3.4	2.9	2.5	2
ø5/32	ø3/16	KQ2H03-05A1	8.2	7.7	10	9.1	8.4	11	27.6	13.3	5.6	5.6	3	1.8
	ø1/4	KQ2H03-07A1	8.2	7.7	10	11.1	10.9	—	27.6	13.3	5.6	5.6	3	2.1
ø3/16	ø1/4	KQ2H05-07A1	9.1	8.4	11	11.1	10.9	—	27.6	13.3	7.8	6.5	3.5	2.2



Release button dimensions



Applicable tubing O.D.:
ø1/8",
ø5/32",
ø3/16"

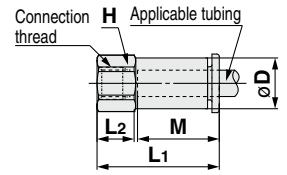
Dimensions

Female Connector: KQ2F

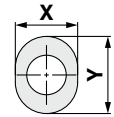


Applicable tubing O.D. [inch]	Connection thread UNF, NPT	Model	H (Width across flats)	øD	Release button dimensions		L1	L2	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	10-32UNF	KQ2F01-32□1	7	6.9	6.7	9.5	19.7	5.7	13.3	3	2.5	2.5	3.4
	1/8	KQ2F01-34□1	14.29	6.9	6.7	9.5	25	9.5	13.3	3	2.5	2.5	13.4
	1/4	KQ2F01-35□1	17.46	6.9	6.7	9.5	29.8	13.3	13.3	3	2.5	2.5	24.4
ø5/32	10-32UNF	KQ2F03-32□1	8	7.9	7.7	10	19.5	5.7	13.3	4	4	3	4.5
	1/8	KQ2F03-34□1	14.29	7.9	7.7	10	24.8	9.5	13.3	5.6	4	3	13.7
	1/4	KQ2F03-35□1	17.46	7.9	7.7	10	29.7	13.3	13.3	5.6	4	3	24.7

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

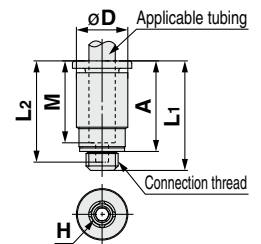


Hexagon Socket Head Male Connector: KQ2S (Gasket seal)

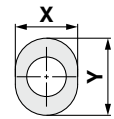


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD	Release button dimensions		L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y					Nylon	Urethane		
ø1/8	10-32UNF	KQ2S01-32□1	2	7	6.7	9.5	17.5	16.3	14.5	13.3	2.5	2.5	2	2.6
ø5/32	10-32UNF	KQ2S03-32□1	2.5	8	7.7	10	18.6	17.8	15.6	13.3	4	4	2.5	3

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



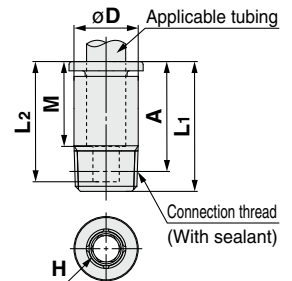
Hexagon Socket Head Male Connector: KQ2S (Sealant)



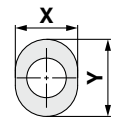
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD	Release button dimensions		L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y					Nylon	Urethane		
ø5/32	1/16	KQ2S03-33□S1	2.78	8	7.7	10	19.8	18.8	15.7	13.3	4.1	3.6	2.8	4.5
	1/8	KQ2S03-34□S1	2.78	10.3	7.7	10	17.3	16.3	14.1	13.3	4.1	3.6	2.8	6
ø3/16	1/8	KQ2S05-34□S1	3.57	11	8.4	11	19.8	18.8	16.6	13.3	7.8	6.5	3.6	7.5

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

Inch Size Uni

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

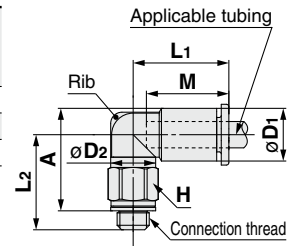
Dimensions

Male Elbow: KQ2L (Gasket seal)

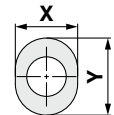


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	10-32UNF	KQ2L01-32□1	7	7.1	6.7	9.5	7	15.3	14.2	14.8	13.3	2.6	2.2	2.5	3	●
ø5/32	10-32UNF	KQ2L03-32□1	7	8.2	7.7	10	7	15.4	14.7	15.8	13.3	3.5	3.5	2.5	3.1	●
ø3/16	10-32UNF	KQ2L05-32□1	7	9.1	8.4	11	7	14.5	15.8	17.4	13.3	3.5	3.5	2.5	3.2	●

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



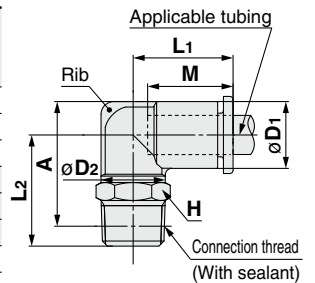
Male Elbow: KQ2L (Sealant)



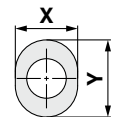
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	1/16	KQ2L01-33□S1	11.11	7.1	6.7	9.5	10	14.5	24.3	23.8	13.3	3	2.5	2.5	9.1	—
	1/8	KQ2L01-34□S1	11.11	7.1	6.7	9.5	10	14.5	16.7	17.1	13.3	3	2.5	2.5	5.5	—
	1/4	KQ2L01-35□S1	14.29	7.1	6.7	9.5	10	14.5	21.1	20.3	13.3	3	2.5	2.5	15	—
ø5/32	1/16	KQ2L03-33□S1	11.11	8.2	7.7	10	10	14.8	23.8	23.8	13.3	4.6	3.3	3	9.3	●
	1/8	KQ2L03-34□S1	11.11	8.2	7.7	10	10	14.8	16.2	17.1	13.3	4.6	3.3	3	5.6	●
	1/4	KQ2L03-35□S1	14.29	8.2	7.7	10	10	14.8	21.6	21.3	13.3	4.6	3.3	3	15.2	●
ø3/16	1/8	KQ2L05-34□S1	11.11	9.1	8.4	11	10	15	16.7	18.1	13.3	6.8	5.6	3.5	5.8	—
	1/4	KQ2L05-35□S1	14.29	9.1	8.4	11	10	15	22.1	22.3	13.3	6.8	5.6	3.5	15.4	—

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



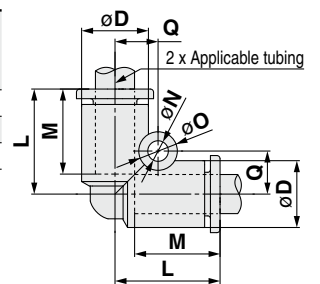
Release button dimensions



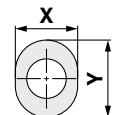
Union Elbow: KQ2L



Applicable tubing O.D. [inch]	Model	øD	Release button dimensions		L	Q	M	øO	øN	Effective area [mm ²]		Min. port size	Weight [g]
			X	Y						Nylon	Urethane		
ø1/8	KQ2L01-00A1	7.1	6.7	9.5	14.9	5.4	13.3	6	3.2	3	2.5	2.5	1.6
ø5/32	KQ2L03-00A1	8.2	7.7	10	15.3	5.7	13.3	6	3.2	4.2	4.2	3	1.9
ø3/16	KQ2L05-00A1	9.1	8.4	11	15.7	6.2	13.3	6	3.2	6.8	5.6	3.5	2.2



Release button dimensions



Inch Size One-touch Fittings **KQ2 Series**

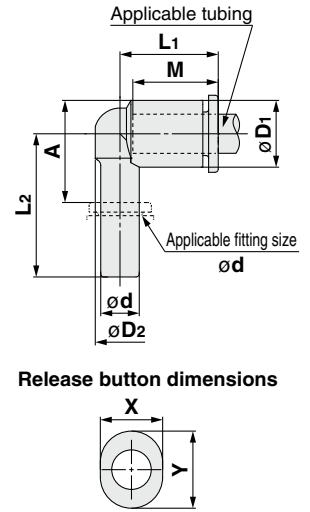
Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

Plug-in Elbow: KQ2L



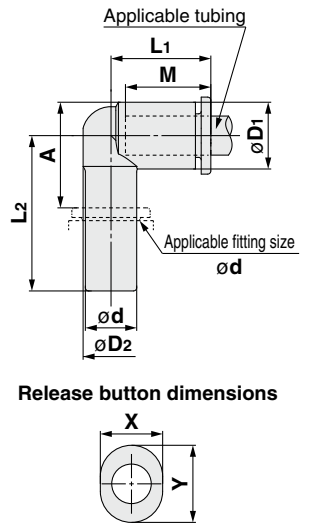
Applicable tubing O.D. [inch]	Applicable fitting size ϕd [inch]	Model	$\phi D1$	Release button dimensions		$\phi D2$	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y						Nylon	Urethane		
$\phi 1/8$	$\phi 1/8$	KQ2L01-99A1	7.1	6.7	9.5	6.4	14.5	20.9	11.1	13.3	3	2.5	2.2	0.9
$\phi 5/32$	$\phi 5/32$	KQ2L03-99A1	8.2	7.7	10	7.2	14.5	21.1	11.9	13.3	4.2	4.2	2.5	1.2
$\phi 3/16$	$\phi 3/16$	KQ2L05-99A1	9.1	8.4	11	8	15	22.2	13.4	13.3	6.8	5.6	3.5	1.4



Reducer Elbow: KQ2L



Applicable tubing O.D. [inch]	Applicable fitting size ϕd [inch]	Model	$\phi D1$	Release button dimensions		$\phi D2$	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y						Nylon	Urethane		
$\phi 1/8$	$\phi 5/32$	KQ2L01-03A1	7.1	6.7	9.5	6.4	14.5	23.9	14.1	13.3	3	2.5	2.5	1.1
	$\phi 3/16$	KQ2L01-05A1	7.1	6.7	9.5	6.4	14.5	28.4	18.6	13.3	3	2.5	2.5	1.1
	$\phi 1/4$	KQ2L01-07A1	7.1	6.7	9.5	6.4	14.5	24.5	14.7	13.3	3	2.5	2.5	1.3
$\phi 5/32$	$\phi 3/16$	KQ2L03-05A1	8.2	7.7	10	7.2	14.8	29.1	19.9	13.3	4.2	4.2	3	1.3
	$\phi 1/4$	KQ2L03-07A1	8.2	7.7	10	7.2	14.8	21.1	11.9	13.3	4.2	4.2	3	1.4
$\phi 3/16$	$\phi 1/4$	KQ2L05-07A1	9.1	8.4	11	8	15	21.6	12.8	13.3	6.8	5.6	3.5	1.5
	$\phi 5/16$	KQ2L05-09A1	9.1	8.4	11	8	15	30	20.3	13.3	6.8	5.6	3.5	1.9

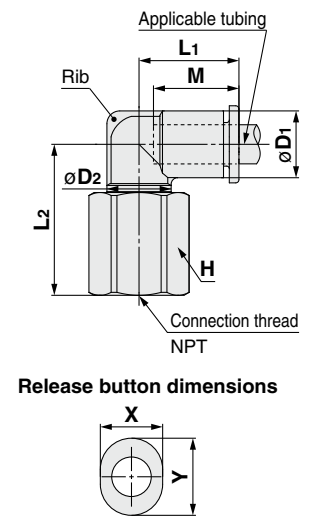


Female Elbow: KQ2LF



Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	$\phi D1$	Release button dimensions		$\phi D2$	L1	L2	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y					Nylon	Urethane			
$\phi 1/8$	1/8	KQ2LF01-34□1	14.29	7.1	6.7	9.5	10	14.5	22.8	13.3	3	2.5	2.5	18.2	—
	1/4	KQ2LF01-35□1	17.46	7.1	6.7	9.5	10	14.5	26.3	13.3	3	2.5	2.5	31.7	—
$\phi 5/32$	1/8	KQ2LF03-34□1	14.29	8.2	7.7	10	10	14.8	22.4	13.3	4.2	4.2	3	18.3	●
	1/4	KQ2LF03-35□1	17.46	8.2	7.7	10	10	14.8	26.9	13.3	4.2	4.2	3	31.9	●

□: A (Brass), N (Brass + Electroless nickel plating)



Oval Type
 Sealant/Gasket Seal
 Metric Size M, R, Rc
 Inch Size UNF, NPT
 Inch Size M, R, Rc
 Metric Size G
 Metric Size R, Rc
 Inch Size NPT
 Inch Size R
 Inch Size Uni
 Metric Size Uni
 Inch Size Uni

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

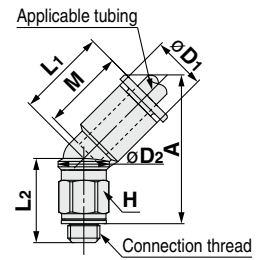
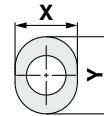
45° Male Elbow: KQ2K (Gasket seal)



Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	10-32UNF	KQ2K01-32□1	7	7.1	6.7	9.5	8	14.4	13	21.9	13.3	3	2.5	2.5	2.8
ø5/32	10-32UNF	KQ2K03-32□1	7	8.2	7.7	10	8	14.4	13	22.2	13.3	3.4	3.4	2.5	3

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



45° Male Elbow: KQ2K (Sealant)

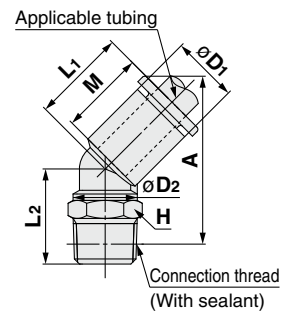
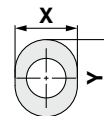


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	1/8	KQ2K01-34□S1	11.11	7.1	6.7	9.5	10	14.3	12.7	21.8	13.3	3	2.5	2.5	5.3
ø5/32	1/8	KQ2K03-34□S1	11.11	8.2	7.7	10	10	14.4	12.7	22.2	13.3	4.8	3.4	3	5.5
ø3/16	1/8	KQ2K05-34□S1	11.11	9.1	8.4	11	10	14.5	13.2	23.1	13.3	6.8	5.6	3.5	5.6

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread

Release button dimensions



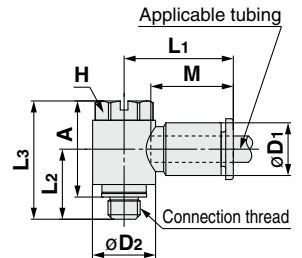
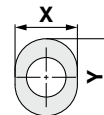
Universal Male Elbow: KQ2V (Gasket seal)



Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	10-32UNF	KQ2V01-32□1	8	7.1	6.7	9.5	9.8	17.5	10.4	17.9	14.4	13.3	2.2	1.9	2.5	5.2
ø5/32	10-32UNF	KQ2V03-32□1	8	8.2	7.7	10	9.8	17.5	10.4	17.9	14.4	13.3	2.9	2.9	2.5	5.3

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



Universal Male Elbow: KQ2V (Sealant)

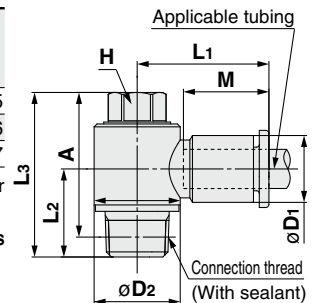
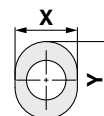


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2V01-34□S1	8	7.1	6.7	9.5	13.4	19.3	13.7	25.6	22.4	13.3	2.2	1.9	2.5	13.5
ø5/32	1/8	KQ2V03-34□S1	8	8.2	7.7	10	13.4	19.3	13.7	25.6	22.4	13.3	2.9	2.9	3	13.6
ø3/16	1/8	KQ2V05-34□S1	8	9.1	8.4	11	13.4	19.6	13.7	25.6	22.4	13.3	4.5	3.7	3.5	13.7

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread

Release button dimensions



Dimensions

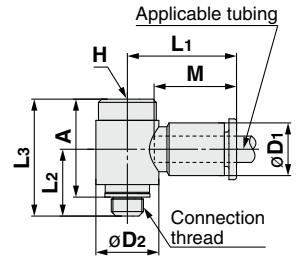
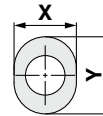
Hexagon Socket Head Universal Male Elbow: KQ2VS (Gasket seal)



Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	10-32UNF	KQ2VS01-32□1	4	7.1	6.7	9.5	9.8	17.5	10.4	18.2	14.7	13.3	2.2	1.9	2.3	5.3
ø5/32	10-32UNF	KQ2VS03-32□1	4	8.2	7.7	10	9.8	17.5	10.4	18.2	14.7	13.3	2.9	2.9	2.3	5.4

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



Hexagon Socket Head Universal Male Elbow: KQ2VS (Sealant)

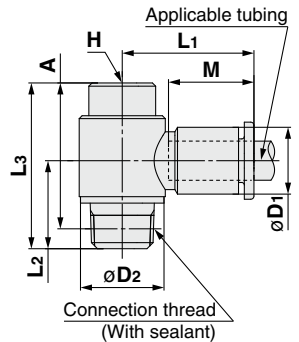
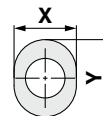


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2VS01-34□S1	6.35	7.1	6.7	9.5	13.4	19.3	13.7	25.8	22.6	13.3	2.2	1.9	2.5	13.1
ø5/32	1/8	KQ2VS03-34□S1	6.35	8.2	7.7	10	13.4	19.3	13.7	25.8	22.6	13.3	2.9	2.9	3	13.2
ø3/16	1/8	KQ2VS05-34□S1	6.35	9.1	8.4	11	13.4	19.6	13.7	25.8	22.6	13.3	4.5	3.7	3.5	13.3

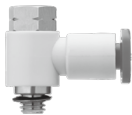
□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread

Release button dimensions



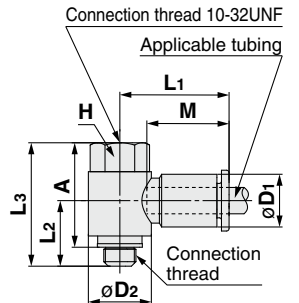
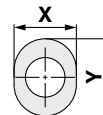
Universal Female Elbow: KQ2VF (Gasket seal)



Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	10-32UNF	KQ2VF01-32□1	8	7.1	6.7	9.5	9.8	17.5	10.4	19.4	15.9	13.3	2.2	1.9	2.5	5.4
ø5/32	10-32UNF	KQ2VF03-32□1	8	8.2	7.7	10	9.8	17.5	10.4	19.4	15.9	13.3	2.9	2.9	2.5	5.5

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



Universal Female Elbow: KQ2VF (Sealant)

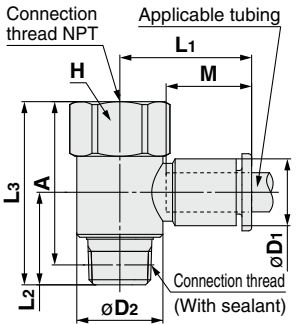
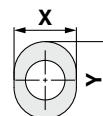


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2VF01-34□S1	14.29	7.1	6.7	9.5	13.4	19.3	14.4	28.5	25.3	13.3	2.2	1.9	2.5	18
ø5/32	1/8	KQ2VF03-34□S1	14.29	8.2	7.7	10	13.4	19.3	14.4	28.5	25.3	13.3	2.9	2.9	3	18.1
ø3/16	1/8	KQ2VF05-34□S1	14.29	9.1	8.4	11	13.4	19.6	14.4	28.5	25.3	13.3	4.5	3.7	3.5	18.2

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread

Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

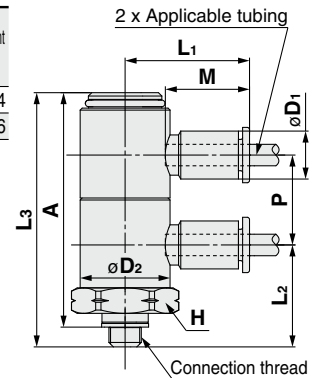
Dimensions

Double Universal Male Elbow: KQ2VD (Gasket seal)

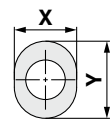


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	P	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	10-32UNF	KQ2VD01-32□1	14.29	7.1	6.7	9.5	13.4	19.3	15.2	37.9	34.4	13.3	13.4	2.2	1.9	2.3	24.4
ø5/32	10-32UNF	KQ2VD03-32□1	14.29	8.2	7.7	10	13.4	19.3	15.2	37.9	34.4	13.3	13.4	2.5	2.5	2.3	24.6

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



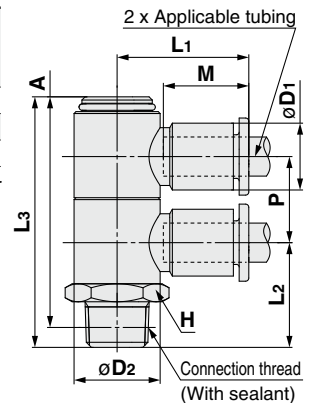
Double Universal Male Elbow: KQ2VD (Sealant)



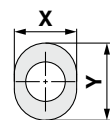
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	P	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	1/8	KQ2VD01-34□S1	14.29	7.1	6.7	9.5	13.4	19.3	16.3	39	35.8	13.3	13.4	2.2	1.9	2.5	20
ø5/32	1/8	KQ2VD03-34□S1	14.29	8.2	7.7	10	13.4	19.3	16.3	39	35.8	13.3	13.4	2.9	2.9	3	20.2
ø3/16	1/8	KQ2VD05-34□S1	14.29	9.1	8.4	11	13.4	19.6	16.3	39	35.8	13.3	13.4	4.5	3.7	3.5	20.5

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



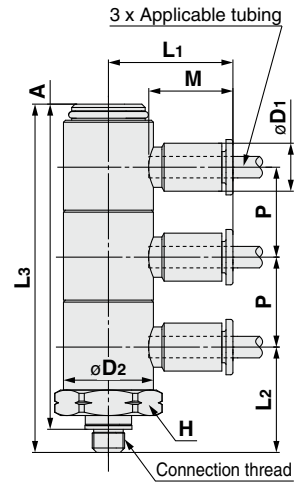
Dimensions

Triple Universal Male Elbow: KQ2VT (Gasket seal)

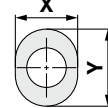


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	P	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	10-32UNF	KQ2VT01-32□1	14.29	7.1	6.7	9.5	13.4	19.3	15.7	51.9	48.4	13.3	13.4	2.2	1.9	2.5	32.4
ø5/32	10-32UNF	KQ2VT03-32□1	14.29	8.2	7.7	10	13.4	19.3	15.7	51.9	48.4	13.3	13.4	2.9	2.9	2.5	32.7

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



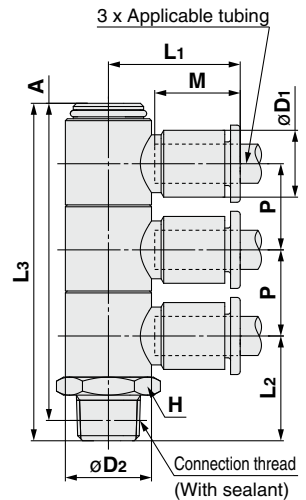
Triple Universal Male Elbow: KQ2VT (Sealant)



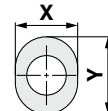
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	P	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	1/8	KQ2VT01-34□S1	14.29	7.1	6.7	9.5	13.4	19.3	16.3	52.5	49.3	13.3	13.4	2.2	1.9	2.5	25.5
ø5/32	1/8	KQ2VT03-34□S1	14.29	8.2	7.7	10	13.4	19.3	16.3	52.5	49.3	13.3	13.4	2.9	2.9	3	25.8
ø3/16	1/8	KQ2VT05-34□S1	14.29	9.1	8.4	11	13.4	19.6	16.3	52.5	49.3	13.3	13.4	4.5	3.7	3.5	26.2

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

Face Seal

Sealant/Gasket Seal

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

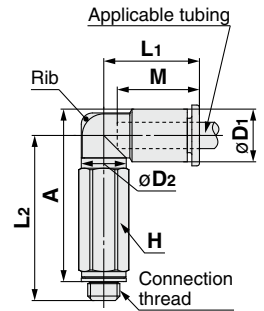
Dimensions

Extended Male Elbow: KQ2W (Gasket seal)

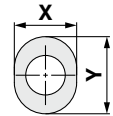


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	10-32UNF	KQ2W01-32□1	7	7.1	6.7	9.5	7	15.3	25.8	26.4	13.3	2.8	2.4	2.5	5.9	●
ø5/32	10-32UNF	KQ2W03-32□1	7	8.2	7.7	10	7	15.4	26.3	27.5	13.3	3	3	2.5	6	●

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



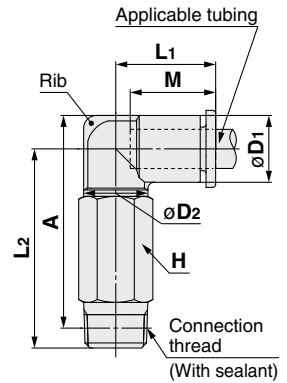
Extended Male Elbow: KQ2W (Sealant)



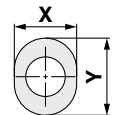
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	1/16	KQ2W01-33□S1	11.11	7.1	6.7	9.5	10	14.5	35.9	35.4	13.3	2.8	2.4	2.5	16.6	—
	1/8	KQ2W01-34□S1	11.11	7.1	6.7	9.5	10	14.5	30.3	30.7	13.3	2.8	2.4	2.5	13.9	—
	1/4	KQ2W01-35□S1	14.29	7.1	6.7	9.5	10	14.5	32.7	31.9	13.3	2.8	2.4	2.5	27.3	—
ø5/32	1/16	KQ2W03-33□S1	11.11	8.2	7.7	10	10	14.8	35.4	35.4	13.3	4	4	3	16.7	●
	1/8	KQ2W03-34□S1	11.11	8.2	7.7	10	10	14.8	29.9	30.8	13.3	4	4	3	14.1	●
	1/4	KQ2W03-35□S1	14.29	8.2	7.7	10	10	14.8	33.2	32.9	13.3	4	4	3	27.5	●
ø3/16	1/8	KQ2W05-34□S1	11.11	9.1	8.4	11	10	15	30.4	31.7	13.3	6.8	5.6	3.5	14.3	—
	1/4	KQ2W05-35□S1	14.29	9.1	8.4	11	10	15	33.7	33.9	13.3	6.8	5.6	3.5	27.7	—

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



Inch Size One-touch Fittings **KQ2 Series**

Oval Type

Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

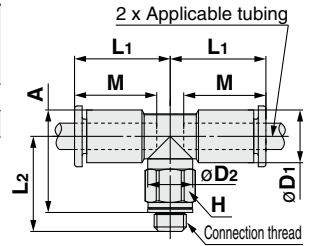
Dimensions

Male Branch Tee: KQ2T (Gasket seal)

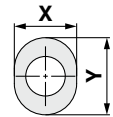


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	10-32UNF	KQ2T01-32□1	7	7.1	6.7	9.5	7	15.3	14.2	14.8	13.3	3.2	2.7	2.5	3.5
ø5/32	10-32UNF	KQ2T03-32□1	7	8.2	7.7	10	7	15.4	14.7	15.8	13.3	4.5	4.5	2.5	3.8

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



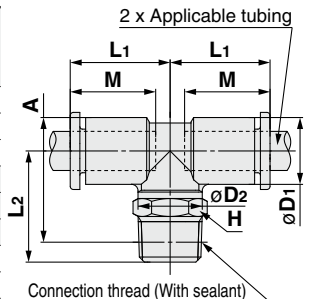
Male Branch Tee: KQ2T (Sealant)



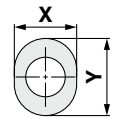
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	1/16	KQ2T01-33□S1	11.11	7.1	6.7	9.5	10	14.5	24.2	23.7	13.3	3.4	2.9	2.5	9.7
	1/8	KQ2T01-34□S1	11.11	7.1	6.7	9.5	10	14.5	16.6	17	13.3	3.4	2.9	2.5	6
	1/4	KQ2T01-35□S1	14.29	7.1	6.7	9.5	10	14.5	21	20.2	13.3	3.4	2.9	2.5	15.6
ø5/32	1/16	KQ2T03-33□S1	11.11	8.2	7.7	10	10	14.8	23.8	23.8	13.3	6	4.1	3	10
	1/8	KQ2T03-34□S1	11.11	8.2	7.7	10	10	14.8	16.2	17.1	13.3	6	4.1	3	6.3
	1/4	KQ2T03-35□S1	14.29	8.2	7.7	10	10	14.8	21.6	21.3	13.3	6	4.1	3	15.9
ø3/16	1/8	KQ2T05-34□S1	11.11	9.1	8.4	11	10	15	16.7	18	13.3	8.4	7	3.5	6.6
	1/4	KQ2T05-35□S1	14.29	9.1	8.4	11	10	15	22.1	22.2	13.3	8.4	7	3.5	16.2

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Face Seal

Gasket Seal

KQ2 Series

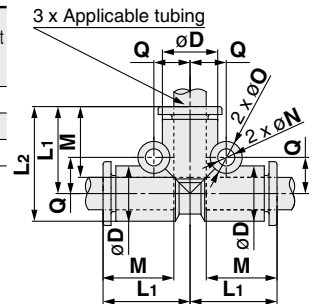
Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

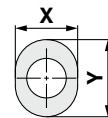
Union Tee: KQ2T



Applicable tubing O.D. [inch]	Model	øD	Release button dimensions		L1	L2	M	Q	øO	øN	Effective area [mm ²]		Min. port size	Weight [g]
			X	Y							Nylon	Urethane		
ø1/8	KQ2T01-00A1	7.1	6.7	9.5	14.9	18.5	13.3	5.4	6	3.2	3.4	2.9	2.5	2.3
ø5/32	KQ2T03-00A1	8.2	7.7	10	15.3	19.4	13.3	5.7	6	3.2	6.4	4.4	3	2.8
ø3/16	KQ2T05-00A1	9.1	8.4	11	15.7	20.3	13.3	6.2	6	3.2	8.4	7	3.5	3.2



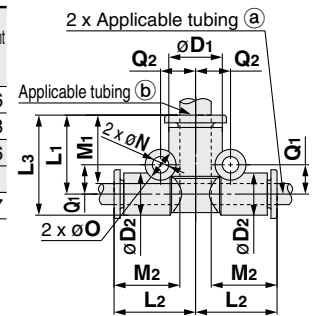
Release button dimensions



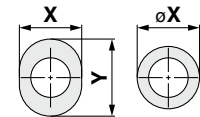
Different Diameter Tee: KQ2T



Applicable tubing O.D. [inch]	Model	øD1	Release button dimensions (a)		Release button dimensions (b)		L1	L2	L3	M1	M2	Q1	Q2	øO	øN	Effective area [mm ²]		Min. port size	Weight [g]	
			X	Y	øX (X)	Y										Nylon	Urethane			
ø1/8	KQ2T01-03A1	8.2	6.7	9.5	7.1	7.7	10	14.9	15.3	18.5	13.3	13.3	5.4	5.8	6	3.2	3.8	3.5	3	2.6
	KQ2T01-07A1	11.1	6.7	9.5	7.1	10.9	—	14.9	16.5	18.5	13.3	13.3	5.3	7.2	6	3.2	3.8	3.5	3.2	2.8
ø5/32	KQ2T03-05A1	9.1	7.7	10	8.2	8.4	11	15.3	15.7	19.4	13.3	13.3	5.7	6.2	6	3.2	7.1	6.6	3.5	2.6
	KQ2T03-07A1	11.1	7.7	10	8.2	10.9	—	15.3	16.5	19.4	13.3	13.3	5.7	7.2	6	3.2	7.1	6.6	4.1	3
ø3/16	KQ2T05-07A1	11.1	8.4	11	9.1	10.9	—	15.7	16.5	20.3	13.3	13.3	6.2	7.2	6	3.2	8.4	7	4.6	3.7

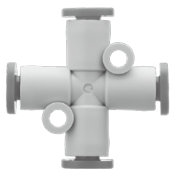


Release button dimensions

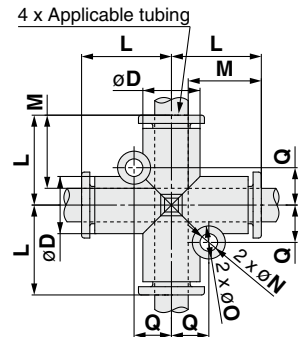


Applicable tubing O.D.:
ø1/8",
ø5/32",
ø3/16"

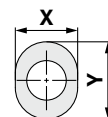
Cross: KQ2TW



Applicable tubing O.D. [inch]	Model	øD	Release button dimensions		L	Q	M	øO	øN	Effective area [mm ²]		Min. port size	Weight [g]
			X	Y						Nylon	Urethane		
ø5/32	KQ2TW03-00A1	8.2	7.7	10	15.3	5.7	13.3	6	3.2	6.4	4.4	3	3.5



Release button dimensions



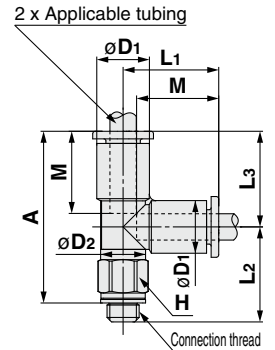
Dimensions

Male Run Tee: KQ2Y (Gasket seal)

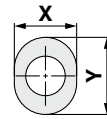


Applicable tubing O.D. [inch]	Connection thread UNF	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	10-32UNF	KQ2Y01-32□1	7	7.1	6.7	9.5	7	15.3	14.2	15.3	26.5	13.3	3.2	2.7	2.5	3.5
ø5/32	10-32UNF	KQ2Y03-32□1	7	8.2	7.7	10	7	15.4	14.7	15.4	27.1	13.3	4.5	4.5	2.5	3.8

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



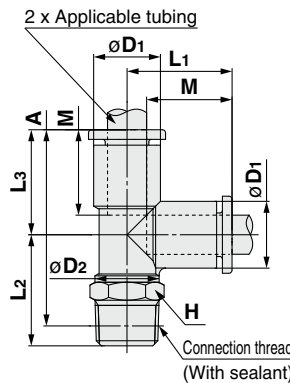
Male Run Tee: KQ2Y (Sealant)



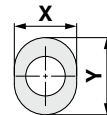
Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/16	KQ2Y01-33□S1	11.11	7.1	6.7	9.5	10	14.9	24.2	14.9	35.1	13.3	3.4	2.9	2.5	9.8
	1/8	KQ2Y01-34□S1	11.11	7.1	6.7	9.5	10	14.9	16.6	14.9	28.4	13.3	3.4	2.9	2.5	6.1
	1/4	KQ2Y01-35□S1	14.29	7.1	6.7	9.5	10	14.9	21	14.9	31.6	13.3	3.4	2.9	2.5	15.6
ø5/32	1/16	KQ2Y03-33□S1	11.11	8.2	7.7	10	10	15.3	23.8	15.3	35	13.3	6.4	4.4	3	10.1
	1/8	KQ2Y03-34□S1	11.11	8.2	7.7	10	10	15.3	16.2	15.3	28.3	13.3	6.4	4.4	3	6.4
	1/4	KQ2Y03-35□S1	14.29	8.2	7.7	10	10	15.3	21.6	15.3	32.5	13.3	6.4	4.4	3	15.9
ø3/16	1/8	KQ2Y05-34□S1	11.11	9.1	8.4	11	10	15.7	16.7	15.7	29.2	13.3	8.4	7	3.5	6.7
	1/4	KQ2Y05-35□S1	14.29	9.1	8.4	11	10	15.7	22.1	15.7	33.4	13.3	8.4	7	3.5	16.3

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of NPT thread



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

Face Seal

Sealant/Gasket Seal

KQ2 Series

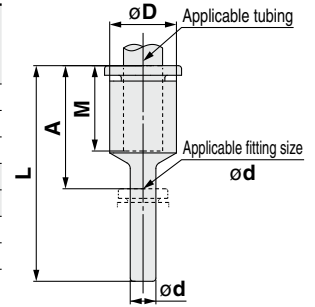
Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

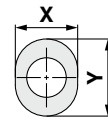
Plug-in Reducer: KQ2R



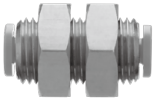
Applicable tubing O.D. [inch]	Applicable fitting size ϕd [inch]	Model	ϕD	Release button dimensions		L	A	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y				Nylon	Urethane		
$\phi 1/8$	$\phi 5/32$	KQ2R01-03A1	7.1	6.7	9.5	28.6	15.3	13.3	3.4	2.9	2.5	0.8
	$\phi 3/16$	KQ2R01-05A1	7.1	6.7	9.5	28.7	15.4	13.3	3.4	2.9	2.5	0.8
	$\phi 1/4$	KQ2R01-07A1	7.1	6.7	9.5	28.4	15.1	13.3	3.4	2.9	2.5	1
$\phi 5/32$	$\phi 3/16$	KQ2R03-05A1	8.2	7.7	10	28.7	15.4	13.3	5.6	4	3	1
	$\phi 1/4$	KQ2R03-07A1	8.2	7.7	10	31.8	18.5	13.3	5.6	4	3	1.2
$\phi 3/16$	$\phi 1/4$	KQ2R05-07A1	9.1	8.4	11	31.4	18.1	13.3	7.8	6.5	3.5	1.3
	$\phi 5/16$	KQ2R05-09A1	9.1	8.4	11	33.4	19.2	13.3	7.8	6.5	3.5	1.5



Release button dimensions

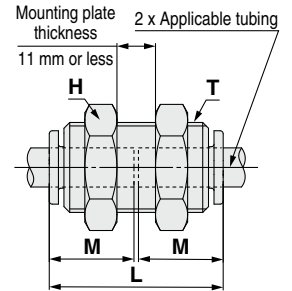


Bulkhead Union: KQ2E (Interchangeable with KQ)

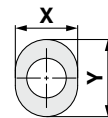


Applicable tubing O.D. [inch]	Model	T (UNF)	H (Width across flats)	Release button dimensions		L	Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y				Nylon	Urethane		
$\phi 1/8$	KQ2E01-00□1	1/2-20UNF	17.46	6.7	9.5	27.8	13.5	13.3	3.4	2.9	2.5	26.9
$\phi 5/32$	KQ2E03-00□1	1/2-20UNF	17.46	7.7	10	27.8	13.5	13.3	5.6	4	3	25.7
$\phi 3/16$	KQ2E05-00□1	9/16-18UNF	17.46	8.4	11	29.8	15	13.3	7.8	6.5	3.5	40.3

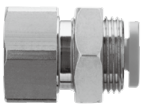
□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

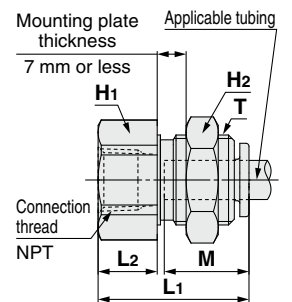


Bulkhead Connector: KQ2E

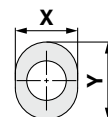


Applicable tubing O.D. [inch]	Connection thread NPT	Model	T (UNF)	H1 (Width across flats)	H2 (Width across flats)	L1	L2	Release button dimensions		Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]
								X	Y			Nylon	Urethane		
$\phi 1/8$	1/4	KQ2E01-35□1	1/2-20UNF	17.46	17.46	28.7	13.3	6.7	9.5	13.5	13.3	3.4	2.9	2.5	33.3
$\phi 5/32$	1/4	KQ2E03-35□1	1/2-20UNF	17.46	17.46	29	13.6	7.7	10	13.5	13.3	5.6	4	3	33.3
$\phi 3/16$	1/8	KQ2E05-34□1	9/16-18UNF	17.46	17.46	25.6	9.2	8.4	11	15	13.3	7.8	6.5	3.5	36.6

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



Inch Size One-touch Fittings **KQ2 Series**

Oval Type

Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

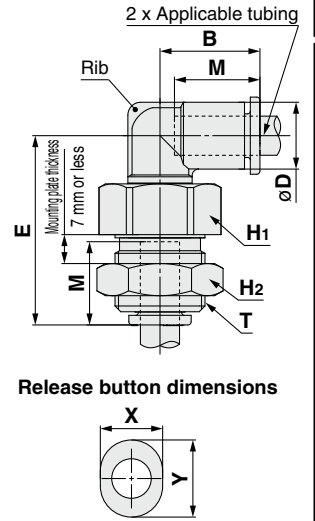
Dimensions

Bulkhead Male Elbow: KQ2LE



Applicable tubing O.D. [inch]	Model	T (UNF)	H1 (Width across flats)	H2 (Width across flats)	B	E	øD	Release button dimensions		Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
								X	Y			Nylon	Urethane			
ø1/8	KQ2LE01-00□1	1/2-20UNF	17.46	17.46	14.5	28.9	7.1	6.7	9.5	13.5	13.3	3	2.5	2.5	27.5	—
ø5/32	KQ2LE03-00□1	1/2-20UNF	17.46	17.46	14.8	28.5	8.2	7.7	10	13.5	13.3	4.2	4.2	3	27.1	●
ø3/16	KQ2LE05-00□1	9/16-18UNF	17.46	17.46	15	29.7	9.1	8.4	11	15	13.3	6.8	5.6	3.5	34.1	—

□: A (Brass), N (Brass + Electroless nickel plating)

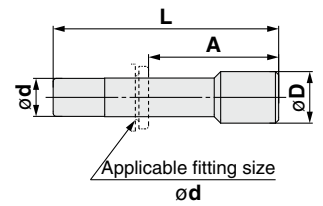


Plug: KQ2P



Applicable fitting size ød [inch]	Model	øD*1	L	A	Weight [g]
ø1/8	KQ2P-01	5	31.5	18.2	1
ø5/32	KQ2P-03	6	32	18.7	1
ø3/16	KQ2P-05	6.8	34	20.7	1
ø1/4	KQ2P-07	8.5	35	21.7	1
ø5/16	KQ2P-09	10	39	24.8	2
ø3/8	KQ2P-11	11.5	43	27.4	3.5
ø1/2	KQ2P-13	15	45.5	28.5	5

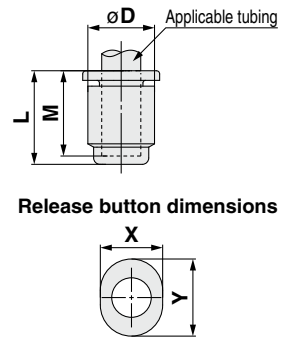
*1 øD is maximum diameter.



Tube Cap: KQ2C



Applicable tubing O.D. [inch]	Model	øD	Release button dimensions		L	M	Weight [g]
			X	Y			
ø5/32	KQ2C03-00A1	8.2	7.7	10	14.5	13.3	0.8



Oval Type

Metric Size M, R, Rc

Sealant/Gasket Seal

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Face Seal

Inch Size NPT

Inch Size R

Gasket Seal

Metric Size Uni

Inch Size Uni

KQ2 Series

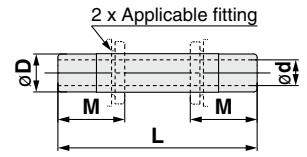
Oval Type Applicable Tubing: Inch Size, Connection Thread: UNF, NPT

Dimensions

Nipple: KQ2N



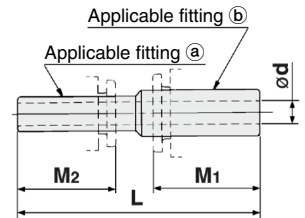
Applicable fitting ϕD	Model	L	M	ϕd Min. port size	Weight [g]
$\phi 1/8$	KQ2N01-99	36	13.3	2.1	0.2
$\phi 3/16$	KQ2N05-99	38	13.3	3.4	0.4
$\phi 1/4$	KQ2N07-99	39	13.3	4.6	1
$\phi 3/8$	KQ2N11-99	49	15.6	7	2
$\phi 1/2$	KQ2N13-99	51	17	9.5	3.5



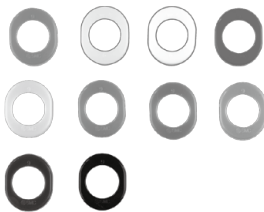
Reducer Nipple: KQ2N



Applicable fitting		Model	L	M ₁	M ₂	ϕd Min. port size	Weight [g]
(a)	(b)						
$\phi 1/8$	$\phi 5/32$	KQ2N01-03	36.5	13.3	13.3	2.1	0.2
	$\phi 3/16$	KQ2N01-05	37	13.3	13.3	2.1	0.4
$\phi 5/32$	$\phi 3/16$	KQ2N03-05	37.5	13.3	13.3	2.5	0.4
	$\phi 1/4$	KQ2N03-07	38	13.3	13.3	2.5	0.6
$\phi 3/16$	$\phi 1/4$	KQ2N05-07	38.5	13.3	13.3	3.4	0.6
	$\phi 5/16$	KQ2N05-09	41	13.3	13.3	3.4	1
$\phi 1/4$	$\phi 5/16$	KQ2N07-09	41.5	13.3	13.3	4.6	1
	$\phi 3/8$	KQ2N07-11	45	15.6	13.3	4.6	1
$\phi 5/16$	$\phi 3/8$	KQ2N09-11	46.5	15.6	14.2	6	1.8
	$\phi 1/2$	KQ2N09-13	47.5	17	14.2	6	2.6
$\phi 3/8$	$\phi 1/2$	KQ2N11-13	50	17	15.6	7	3.2

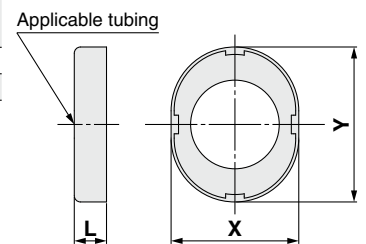


Color Cap: KQ2C



Applicable tubing O.D. [inch]	Model	X	Y	L	Weight [g]
$\phi 1/8$	KQ2C-01□B	7.3	10	2.6	0.1
$\phi 3/16$	KQ2C-05□B	8.95	11.5	2.6	0.1

□: B (Black), R (Red), YR (Orange), BR (Brown), Y (Yellow), G (Green), CB (Sky blue), GR (Gray), W (White), BU (Blue)



KQ2 Series

Made to Order/Clean Series/Spare Parts

Please contact SMC for detailed dimensions, specifications, and lead times.

1 Made to Order

Symbol	Specifications
X12	Lubricant: White vaseline Release button color: White
X35 *1	Body color: Black Release button color: Orange
X41	With fixed orifice*2

*1 The following models are not available as made-to-order: Hexagon socket head male connector/KQ2S, Bulkhead union/KQ2E, Bulkhead connector/KQ2E, Nipple/KQ2N, Reducer nipple/KQ2N, Male connector/KQ2H, Female connector/KQ2F, Color cap/KQ2C, Plug/KQ2P

*2 Please contact SMC for availability.

The following made-to-order products will be provided based on previous models (KQ2 series). Please contact SMC separately.

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plating)
X34	Rubber material: FKM
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double packaging, resin body: white)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

3 Spare Parts

Description	Part no.	Applicable thread
Gasket	M-5G2	10-32UNF

Brass

Description	Part no.	Applicable model
Pipe nut	KQ01-P01A	KQ2E01-00A1, KQ2E03-00A1, KQ2E01-35A1
		KQ2E03-35A1, KQ2LE01-00A1, KQ2LE03-00A1
	KQ05-P01A	KQ2E05-00A1, KQ2E05-34A1
		KQ2LE05-00A1

Brass + Electroless nickel plating

Description	Part no.	Applicable model
Pipe nut	KQ01-P01N	KQ2E01-00N1, KQ2E03-00N1, KQ2E01-35N1
		KQ2E03-35N1, KQ2LE01-00N1, KQ2LE03-00N1
	KQ05-P01N	KQ2E05-00N1, KQ2E05-34N1
		KQ2LE05-00N1

2 Clean Series

Please consult with SMC separately for applicable models.

Symbol	Specifications
10-	Brass parts: With electroless nickel plating Lubricant: Fluorine grease Air blow in a clean room Double packaging Resin body, Release button color: White

Example) **10-KQ2H05-35NS1** (With thread)
10-KQ2H05-00A1 (Without thread)

Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Face Seal

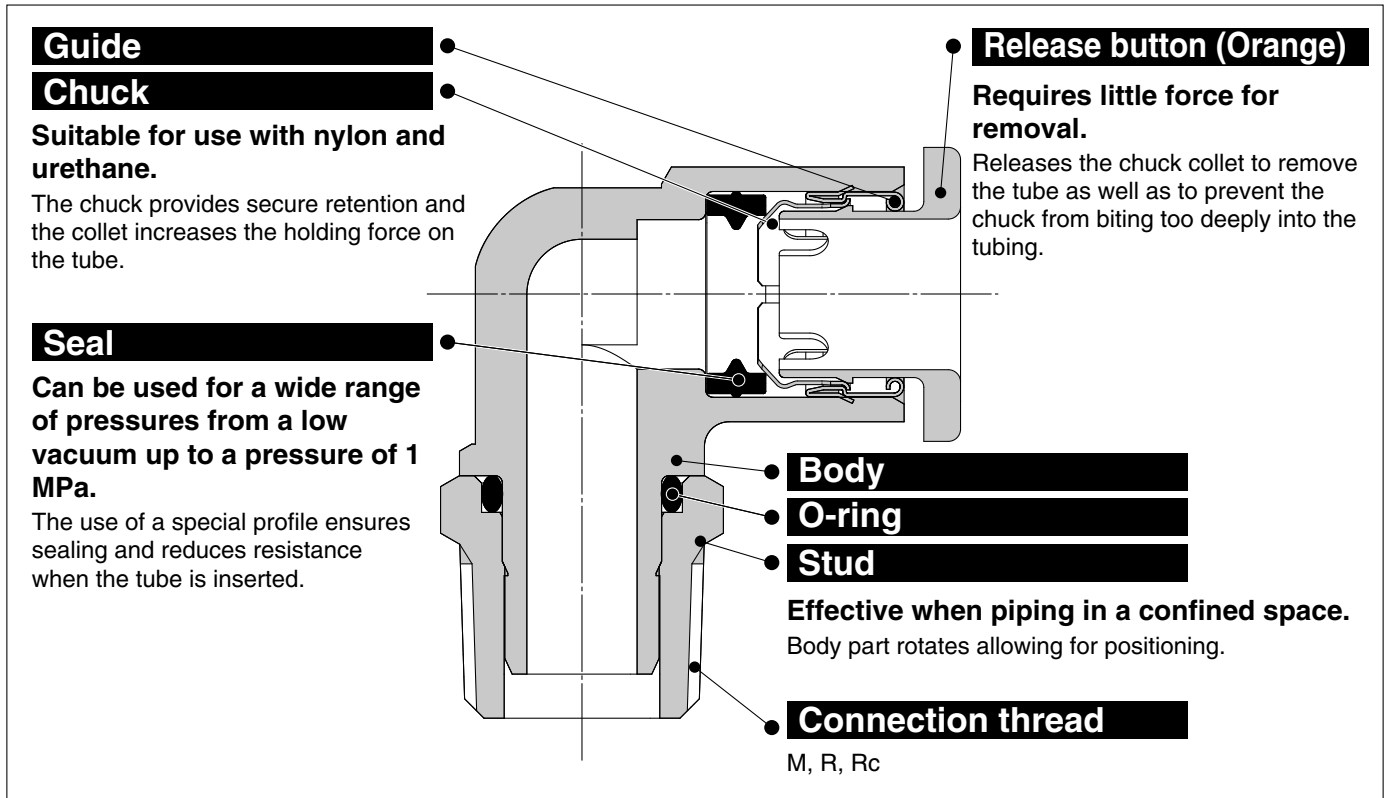
Sealant/Gasket Seal

Gasket Seal

Oval Type Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: M, R, Rc

KQ2 Series



One-touch IN/OUT connection.
Possible to use in vacuum to -100 kPa.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø3/16"

Specifications

Fluid		Air, Water*1
Operating pressure range*2		-100 kPa to 1 MPa
Proof pressure (at 23°C)		3 MPa
Ambient and fluid temperature		-5 to 60°C, Water: 0 to 40°C (No freezing)
Thread	Mounting section	JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread)
	Nut section	JIS B0205 (Metric fine thread)
Seal on the threads		With sealant

*1 The surge pressure must be under the maximum operating pressure.

*2 Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

Body	C3604, PBT
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring	NBR
Gasket	Stainless steel 304, NBR



Made to Order
(Refer to page 55 for details.)

How to Order

Threaded Type

KQ2 H 05 - 01 A S 1

One-touch Fittings •

Model •

Symbol	Model
H	Male connector
L	Male elbow
T	Male branch tee
W	Extended male elbow
Y	Male run tee
E	Bulkhead union
	Bulkhead connector

Applicable tubing O.D. •

Symbol	Size
01	ø1/8"
05	ø3/16"

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Oval type release button

• Male thread seal method

Symbol	Seal method
Nil	None
S	With thread sealant

• Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating
Bulkhead union	M <input type="checkbox"/> Only for "Bulkhead union"

* : A, N

• Port size

Symbol	Size
M5	M5 x 0.8
01	1/8
02	1/4
00 *1	Same diameter tubing

*1 Only for "Bulkhead union".

Spare Parts

Use the part number below to order the gasket for M5 thread.
Gasket for M5 thread: M-5G2

Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

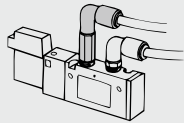
Inch Size One-touch Fittings

Oval Type Variations

Extended male elbow KQ2W P.53



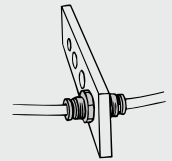
Basically, it is used together with a male elbow. Its extended height allows for multi-leveled piping and prevents interference among fittings.



Bulkhead union KQ2E P.54



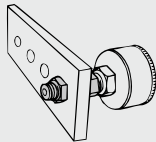
Use to connect tubing through a panel, etc.



Bulkhead connector KQ2E P.54



Use to connect a male thread and tubing through a panel, etc.



Male connector KQ2H P.52



Use to pipe a female thread in the same direction. Most general model.

Male branch tee KQ2T P.53



Use to branch a female thread at both 90° angles.

Male elbow KQ2L P.52



Use to pipe a female thread at right angles. Most general model.

Male run tee KQ2Y P.53



Use to branch a female thread in the same direction and at a 90° angle.

Tubing One-touch fittings
Plug-in reducer/Plug-in elbow etc.

Tubing Tubing
Union elbow/Union tee/Straight union etc.

Accessory
Nipple/Plug etc.

Refer to page 31 and after for details.

This model does not support oval type release buttons. Refer to the round type (from page 157).

Branch "Y" KQ2U P.162



Box wrenches and socket wrenches may interfere with oval type release buttons. Refer to page 217 for details.

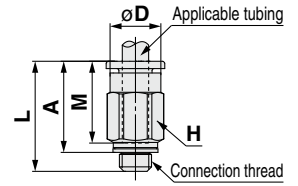
Dimensions

Male Connector: KQ2H (Gasket seal)

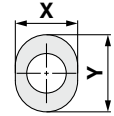


Applicable tubing O.D. [inch]	Connection thread M	Model	H (Width across flats)	øD	Release button dimensions		L	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	M5 x 0.8	KQ2H01-M5□1	7	6.9	6.7	9.5	17.3	14.3	13.3	3.0	2.5	2.5	2.7
ø3/16	M5 x 0.8	KQ2H05-M5□1	10	8.6	8.4	11	17.6	14.6	13.3	4.0	4.0	2.5	4.6

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



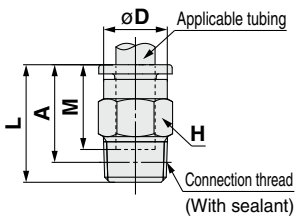
Male Connector: KQ2H (Sealant)



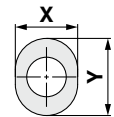
Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD	Release button dimensions		L	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	1/8	KQ2H01-01□S1	10	—	6.7	9.5	14	10.9	13.3	3.4	2.9	2.5	6
	1/4	KQ2H01-02□S1	14	—	6.7	9.5	16.7	12	13.3	3.4	2.9	2.5	15.3
ø3/16	1/8	KQ2H05-01□S1	10	8.6	8.4	11	17.9	14.8	13.3	7.8	6.5	3.5	6.4
	1/4	KQ2H05-02□S1	14	—	8.4	11	16.7	12	13.3	7.8	6.5	3.5	13.9

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread



Release button dimensions

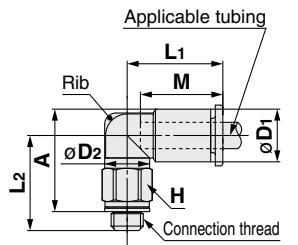


Male Elbow: KQ2L (Gasket seal)

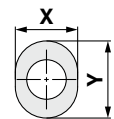


Applicable tubing O.D. [inch]	Connection thread M	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	M5 x 0.8	KQ2L01-M5□1	7	7.1	6.7	9.5	7	15.3	14.3	14.9	13.3	2.6	2.2	2.5	3.1	●

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



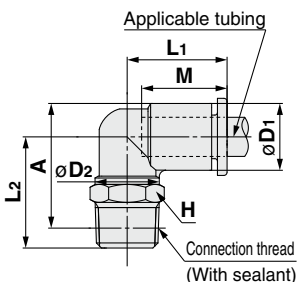
Male Elbow: KQ2L (Sealant)



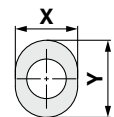
Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2L05-01□S1	10	9.1	8.4	11	10	15	16.7	18.2	13.3	6.8	5.6	3.5	5
	1/4	KQ2L05-02□S1	14	9.1	8.4	11	10	15	22.2	22.1	13.3	6.8	5.6	3.5	14.5

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread



Release button dimensions



KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: M, R, Rc

Dimensions

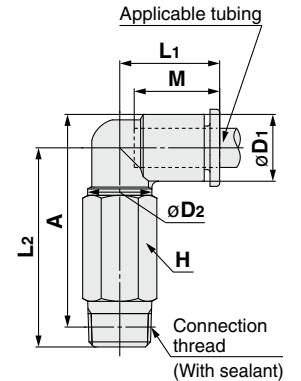
Extended Male Elbow: KQ2W (Sealant)



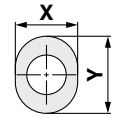
Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2W05-01□S1	10	9.1	8.4	11	10	15	30.4	31.8	13.3	6.8	5.6	3.5	11.2
	1/4	KQ2W05-02□S1	14	9.1	8.4	11	10	15	33.8	33.7	13.3	6.8	5.6	3.5	27.7

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread



Release button dimensions



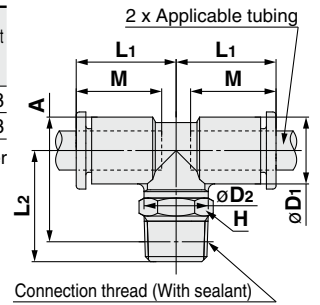
Male Branch Tee: KQ2T (Sealant)



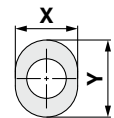
Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A*1	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2T05-01□S1	10	9.1	8.4	11	10	15	16.7	18.1	13.3	8.4	7	3.5	5.8
	1/4	KQ2T05-02□S1	14	9.1	8.4	11	10	15	22.2	22	13.3	8.4	7	3.5	15.3

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread



Release button dimensions



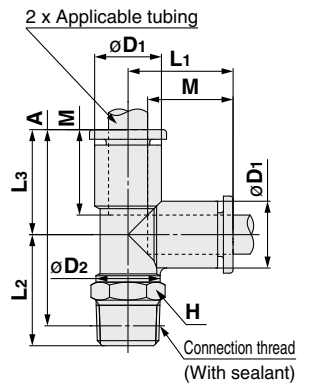
Male Run Tee: KQ2Y (Sealant)



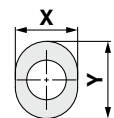
Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A*1	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø3/16	1/8	KQ2Y05-01□S1	10	9.1	8.4	11	10	15.7	16.7	15.7	29.3	13.3	8.4	7	3.5	5.9
	1/4	KQ2Y05-02□S1	14	9.1	8.4	11	10	15.7	22.2	15.7	33.2	13.3	8.4	7	3.5	15.4

□: A (Brass), N (Brass + Electroless nickel plating)

*1 Reference dimensions after installation of R thread

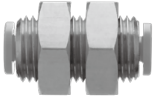


Release button dimensions



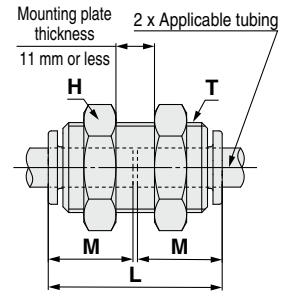
Dimensions

Bulkhead Union: KQ2E

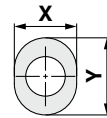


Applicable tubing O.D. [inch]	Model	T (M)	H (Width across flats)	Release button dimensions		L	Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y				Nylon	Urethane		
ø3/16	KQ2E05-00M□1	M14 x 1	17	8.4	11	27.3	15	13.3	7.8	6.5	3.5	30.5

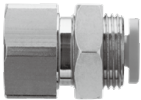
□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

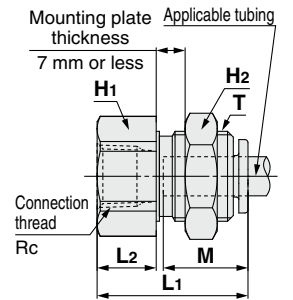


Bulkhead Connector: KQ2E

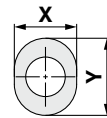


Applicable tubing O.D. [inch]	Connection thread Rc	Model	T (M)	Release button dimensions		H ₁	H ₂	L ₁	L ₂	Mounting hole	M	Effective area [mm ²]		Min. port size	Weight [g]
				X	Y	(Width across flats)	(Width across flats)					Nylon	Urethane		
ø3/16	1/8	KQ2E05-01□1	M14 x 1	8.4	11	17	17	23.9	9.5	15	13.3	7.8	6.5	3.5	30.8

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



Oval Type

Metric Size M, R, Rc

Sealant/Gasket Seal

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Face Seal

Metric Size R, Rc

Inch Size R

Gasket Seal

Metric Size Uni
Inch Size Uni

KQ2 Series

Made to Order/Clean Series/Spare Parts

Please contact SMC for detailed dimensions, specifications, and lead times.

1 Made to Order

Symbol	Specifications
X12	Lubricant: White vaseline Release button color: White
X35 *1	Body color: Black Release button color: Orange
X41	With fixed orifice*2

*1 The following models are not available as made-to-order: Bulkhead union/KQ2E, Bulkhead connector/KQ2E, Male connector/KQ2H

*2 Please contact SMC for availability.

The following made-to-order products will be provided based on previous models (KQ2 series). Please contact SMC separately.

Symbol	Specifications
X17	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue
X29	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Copper-free (With electroless nickel plating)
X34	Rubber material: FKM
X39	Grease-free Rubber material: NBR (With fluorine coating) Release button color: Light blue Clean (Copper-free, air blow, double packaging, resin body: white)
X94	Grease-free Rubber material: FKM (With fluorine coating) Release button color: Light blue

3 Spare Parts

Description	Part no.	Applicable thread
Gasket	M-5G2	M5

Brass

Description	Part no.	Applicable model
Pipe nut	KQ06-P01A	KQ2E05-00MA1
		KQ2E05-01A1

Brass + Electroless nickel plating

Description	Part no.	Applicable model
Pipe nut	KQ06-P01N	KQ2E05-00MN1
		KQ2E05-01N1

2 Clean Series

Please consult with SMC separately for applicable models.

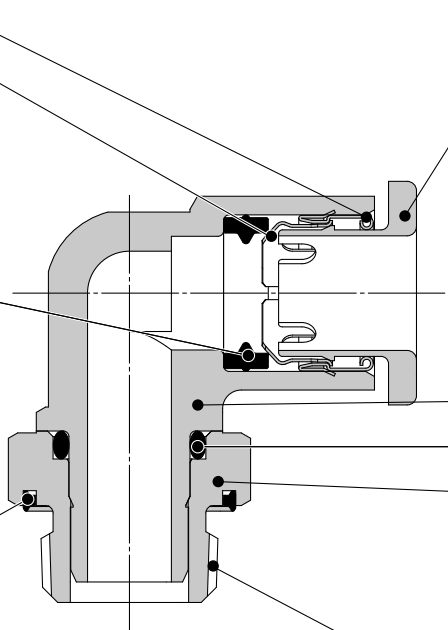
Symbol	Specifications
10-	Brass parts: With electroless nickel plating Lubricant: Fluorine grease Air blow in a clean room Double packaging Resin body, Release button color: White

Example) **10-KQ2H05-02NS1**

Oval Type Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: NPT

KQ2 Series



Guide

Chuck

Suitable for use with nylon and urethane. Large retaining force. The chuck provides secure retention and the collet increases the holding force on the tube.

Seal

Can be used for a wide range of pressures from a low vacuum up to a pressure of 1 MPa. The use of a special profile ensures sealing and reduces resistance when the tube is inserted.

Face seal method

Seal ring

Piping installability is improved by changing to the face seal structure.

Release button

Requires little force for removal. Releases the chuck collet to remove the tube as well as to prevent the chuck from biting too deeply into the tubing.

Body

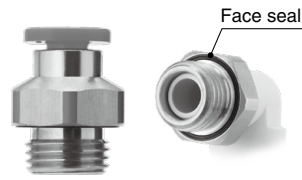
O-ring

Stud

Effective when piping in a confined space. Body part rotates allowing for positioning.

Connection thread

NPT



One-touch IN/OUT connection.
Possible to use in vacuum to -100 kPa.

Drastically reduces screw-in time with the face seal method.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø5/32", ø3/16"

Specifications

Fluid	Air, Water*1	
Operating pressure range*2	-100 kPa to 1 MPa	
Proof pressure (at 23°C)	3 MPa	
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)	
Thread	Mounting section	ANSI/ASME1.20.1 (NPT thread) JIS B0208 (UNF thread)
	Nut section	JIS B0208 (UNF thread)
Sealant on the threads	Seal ring	

*1 The surge pressure must be under the maximum operating pressure.

*2 Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

Body	C3604, PBT
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring, Seal ring	NBR

How to Order

Threaded Type

KQ2 H 05 - 34 A P 1

One-touch fittings

Model

Symbol	Model
H	Male connector
S	Hexagon socket head male connector
L	Male elbow
K	45° male elbow
V	Universal male elbow
VS	Hexagon socket head universal male elbow
VF	Universal female elbow
VD	Double universal male elbow
VT	Triple universal male elbow
W	Extended male elbow
T	Male branch tee
Y	Male run tee

Oval type release button

Face seal

Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating

Port size/Applicable tubing O.D.

Symbol	Size	
Thread connection	33	NPT1/16
	34	NPT1/8
	35	NPT1/4

Applicable tubing O.D.

Symbol	Size
01	ø 1/8"
03	ø 5/32"
05	ø 3/16"

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Inch Size One-touch Fittings

Oval Type Variations

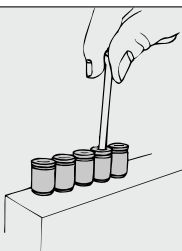
Hexagon socket head male connector

KQ2S

P.76



Internal hexagon socket allows tightening with a hexagon wrench in confined spaces.



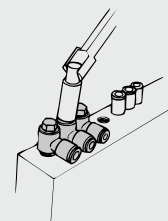
Universal male elbow

KQ2V

P.77



Hexagon head of the body allows tightening with a box wrench in confined spaces.



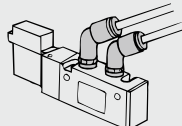
45° male elbow

KQ2K

P.77



Use to pipe a female thread at a 45° angle. Its direction is in-between that of the male connector and male elbow.



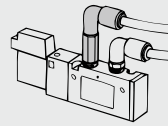
Extended male elbow

KQ2W

P.79



Basically, it is used together with a male elbow. Its extended height allows for multi-leveled piping and prevents interference among fittings.



Male connector

KQ2H

P.76



Use to pipe a female thread in the same direction. Most general model.

Universal female elbow

KQ2VF

P.78



Use to branch a male or female thread in the same direction and at a 90° angle. Multiple connections possible.

Male branch tee

KQ2T

P.79



Use to branch a female thread at both 90° angles.

Male elbow

KQ2L

P.76



Use to pipe a female thread at right angles. Most general model.

Double universal male elbow

KQ2VD

P.78



Use to two-branch a female thread at right angles. Two individual parts rotate 360°.

Male run tee

KQ2Y

P.79



Use to branch a female thread in the same direction and at a 90° angle.

Hexagon socket head universal male elbow

KQ2VS

P.77



Hexagon socket on the top allows tightening with a hexagon wrench in confined spaces.

Triple universal male elbow

KQ2VT

P.78



Use to three-branch a female thread at right angles. Three individual parts rotate 360°.

One-touch fittings

Plug-in reducer/Plug-in elbow etc.

Union elbow/Union tee/Straight union etc.

Accessory

Nipple/Plug etc.

Refer to page 31 and after for details.

The following models do not support oval type release buttons. Refer to the round type (from page 185).

Branch universal male elbow

KQ2Z

P.191



Double branch universal male elbow

KQ2ZD

P.192



Triple branch universal male elbow

KQ2ZT

P.192



Branch "Y"

KQ2U

P.194



⚠ Box wrenches and socket wrenches may interfere with oval type release buttons. Refer to page 217 for details.

Inch Size One-touch Fittings **KQ2 Series**

Oval Type Applicable Tubing: Inch Size, Connection Thread: NPT

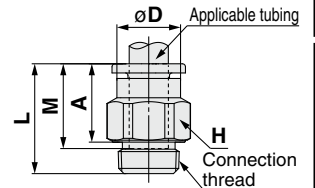
Dimensions

Male Connector: KQ2H (Face seal)

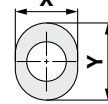


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD	Release button dimensions		L	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	1/16	KQ2H01-33□P1	11.11	6.7	6.7	9.5	16.8	11.4	13.3	3	2.5	2.5	14.9
	1/8	KQ2H01-34□P1	12.7	6.7	6.7	9.5	14.3	8.9	13.3	3	2.5	2.5	8.7
	1/4	KQ2H01-35□P1	17.46	6.7	6.7	9.5	15.6	7.5	13.3	3.4	2.9	2.5	16.6
ø5/32	1/16	KQ2H03-33□P1	11.11	7.7	7.7	10	19	13.6	13.3	4.8	3.4	3	13.9
	1/8	KQ2H03-34□P1	12.7	7.7	7.7	10	16.4	11	13.3	4.8	3.4	3	7.6
	1/4	KQ2H03-35□P1	17.46	7.7	7.7	10	15.6	7.5	13.3	4.8	3.4	3	16
ø3/16	1/8	KQ2H05-34□P1	12.7	8.3	8.4	11	16.9	11.5	13.3	7.8	6.5	3.6	7.8
	1/4	KQ2H05-35□P1	17.46	8.3	8.4	11	15.6	7.5	13.3	7.8	6.5	3.5	15.3

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

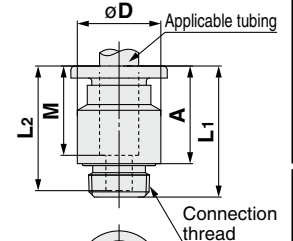


Hexagon Socket Head Male Connector: KQ2S (Face seal)

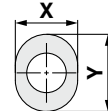


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD	Release button dimensions		L ₁	L ₂	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y					Nylon	Urethane		
ø5/32	1/16	KQ2S03-33□P1	2.78	12	7.7	10	19	16.3	13.6	13.3	4.1	3.6	2.8	7.5
	1/8	KQ2S03-34□P1	2.78	14	7.7	10	17.3	16.3	11.9	13.3	4.1	3.6	2.8	9.2
ø3/16	1/8	KQ2S05-34□P1	3.57	14	8.4	11	19.8	18.8	14.4	13.3	7.8	6.5	3.6	11.7

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

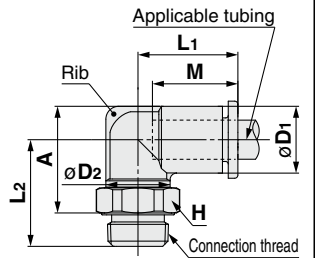


Male Elbow: KQ2L (Face seal)

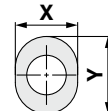


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD ₁	Release button dimensions		øD ₂	L ₁	L ₂	A	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	1/16	KQ2L01-33□P1	11.11	7.1	6.7	9.5	10	14.5	21.6	19.8	13.3	3	2.5	2.5	14.6	—
	1/8	KQ2L01-34□P1	12.7	7.1	6.7	9.5	10	14.5	16.7	14.9	13.3	3	2.5	2.5	6.1	—
	1/4	KQ2L01-35□P1	17.46	7.1	6.7	9.5	10	14.5	21.4	16.9	13.3	3	2.5	2.5	18.3	—
ø5/32	1/16	KQ2L03-33□P1	11.11	8.2	7.7	10	10	14.8	21.1	19.8	13.3	4.6	3.3	3	14.9	●
	1/8	KQ2L03-34□P1	12.7	8.2	7.7	10	10	14.8	16.2	14.9	13.3	4.6	3.3	3	6.3	●
	1/4	KQ2L03-35□P1	17.46	8.2	7.7	10	10	14.8	21.9	17.9	13.3	4.6	3.3	3	18.5	●
ø3/16	1/8	KQ2L05-34□P1	12.7	9.1	8.4	11	10	15	16.7	15.8	13.3	6.8	5.6	3.5	6.5	—
	1/4	KQ2L05-35□P1	17.46	9.1	8.4	11	10	15	22.4	18.8	13.3	6.8	5.6	3.5	18.7	—

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

Face Seal

Sealant/Gasket Seal

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: NPT

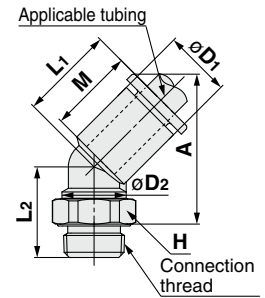
Dimensions

45° Male Elbow: KQ2K (Face seal)

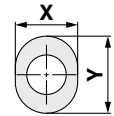


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	1/8	KQ2K01-34□P1	12.7	7.1	6.7	9.5	10	14.3	12.7	19.6	13.3	3	2.5	2.5	5.9
ø5/32	1/8	KQ2K03-34□P1	12.7	8.2	7.7	10	10	14.4	12.7	20	13.3	4.8	3.4	3	6.1
ø3/16	1/8	KQ2K05-34□P1	12.7	9.1	8.4	11	10	14.5	13.2	20.9	13.3	6.8	5.6	3.5	6.3

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

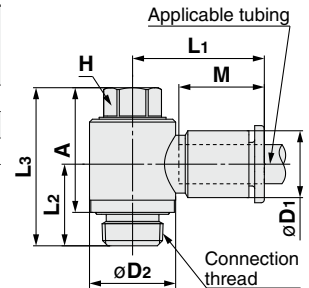


Universal Male Elbow: KQ2V (Face seal)

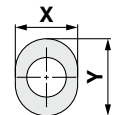


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2V01-34□P1	8	7.1	6.7	9.5	14	19.3	12.9	24.8	19.4	13.3	2.2	1.9	2.5	13.1
ø5/32	1/8	KQ2V03-34□P1	8	8.2	7.7	10	14	19.3	12.9	24.8	19.4	13.3	2.9	2.9	3	13.2
ø3/16	1/8	KQ2V05-34□P1	8	9.1	8.4	11	14	19.6	12.9	24.8	19.4	13.3	4.5	3.7	3.5	13.4

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

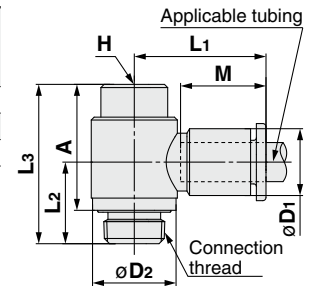


Hexagon Socket Head Universal Male Elbow: KQ2VS (Face seal)

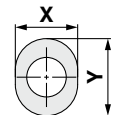


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2VS01-34□P1	6.35	7.1	6.7	9.5	14	19.3	12.9	25	19.6	13.3	2.2	1.9	2.5	12.7
ø5/32	1/8	KQ2VS03-34□P1	6.35	8.2	7.7	10	14	19.3	12.9	25	19.6	13.3	2.9	2.9	3	12.8
ø3/16	1/8	KQ2VS05-34□P1	6.35	9.1	8.4	11	14	19.6	12.9	25	19.6	13.3	4.5	3.7	3.5	13.1

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



Inch Size One-touch Fittings **KQ2 Series**

Oval Type Applicable Tubing: Inch Size, Connection Thread: NPT

Dimensions

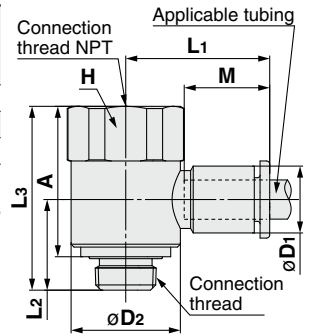
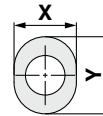
Universal Female Elbow: KQ2VF (Face seal)



Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/8	KQ2VF01-34□P1	17.46	7.1	6.7	9.5	17	21.2	14.3	28.8	23.4	13.3	2.2	1.9	2.5	28.4
ø5/32	1/8	KQ2VF03-34□P1	17.46	8.2	7.7	10	17	21.2	14.3	28.8	23.4	13.3	2.9	2.9	3	28.5
ø3/16	1/8	KQ2VF05-34□P1	17.46	9.1	8.4	11	17	21.5	14.3	28.8	23.4	13.3	4.5	3.7	3.5	28.7

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



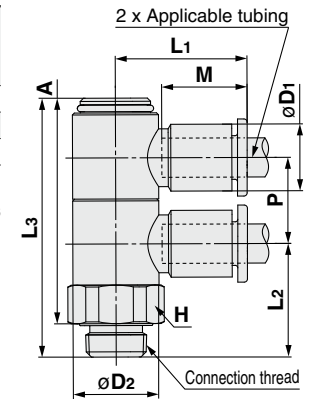
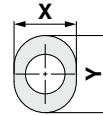
Double Universal Male Elbow: KQ2VD (Face seal)



Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	P	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	1/8	KQ2VD01-34□P1	14.29	7.1	6.7	9.5	13.4	19.3	18.2	40.9	35.5	13.3	13.4	2.2	1.9	2.5	22.8
ø5/32	1/8	KQ2VD03-34□P1	14.29	8.2	7.7	10	13.4	19.3	18.2	40.9	35.5	13.3	13.4	2.9	2.9	3	23.1
ø3/16	1/8	KQ2VD05-34□P1	14.29	9.1	8.4	11	13.4	19.6	18.2	40.9	35.5	13.3	13.4	4.5	3.7	3.5	23.3

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



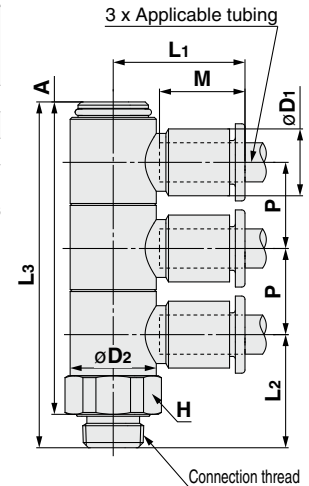
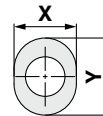
Triple Universal Male Elbow: KQ2VT (Face seal)



Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	P	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y								Nylon	Urethane		
ø1/8	1/8	KQ2VT01-34□P1	14.29	7.1	6.7	9.5	13.4	19.3	18.2	54.4	49	13.3	13.4	2.2	1.9	2.5	28.3
ø5/32	1/8	KQ2VT03-34□P1	14.29	8.2	7.7	10	13.4	19.3	18.2	54.4	49	13.3	13.4	2.9	2.9	3	28.7
ø3/16	1/8	KQ2VT05-34□P1	14.29	9.1	8.4	11	13.4	19.6	18.2	54.4	49	13.3	13.4	4.5	3.7	3.5	29

□: A (Brass), N (Brass + Electroless nickel plating)

Release button dimensions



Oval Type
 Metric Size M, R, Rc
 Inch Size UNF, NPT
Sealant/Gasket Seal
 Inch Size M, R, Rc
 Metric Size G
Face Seal
 Metric Size R, Rc
 Inch Size NPT
 Inch Size R
Gasket Seal
 Metric Size Uni
 Inch Size Uni

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: NPT

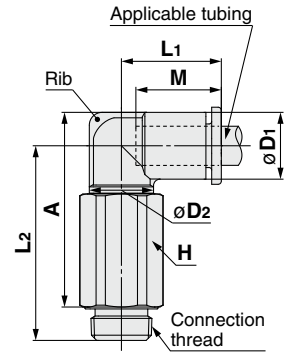
Dimensions

Extended Male Elbow: KQ2W (Face seal)

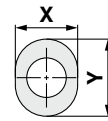


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]	With a rib
					X	Y						Nylon	Urethane			
ø1/8	1/16	KQ2W01-33□P1	11.11	7.1	6.7	9.5	10	14.5	33.2	31.4	13.3	2.8	2.4	2.5	14.3	—
	1/8	KQ2W01-34□P1	12.7	7.1	6.7	9.5	10	14.5	30.3	28.5	13.3	2.8	2.4	2.5	18	—
	1/4	KQ2W01-35□P1	17.46	7.1	6.7	9.5	10	14.5	33	28.5	13.3	2.8	2.4	2.5	39.9	—
ø5/32	1/16	KQ2W03-33□P1	11.11	8.2	7.7	10	10	14.8	32.7	31.4	13.3	4	4	3	14.4	●
	1/8	KQ2W03-34□P1	12.7	8.2	7.7	10	10	14.8	29.9	28.6	13.3	4	4	3	18.2	●
	1/4	KQ2W03-35□P1	17.46	8.2	7.7	10	10	14.8	33.5	29.5	13.3	4	4	3	40.1	●
ø3/16	1/8	KQ2W05-34□P1	12.7	9.1	8.4	11	10	15	30.4	29.5	13.3	6.8	5.6	3.5	18.4	—
	1/4	KQ2W05-35□P1	17.46	9.1	8.4	11	10	15	34	30.5	13.3	6.8	5.6	3.5	40.3	—

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

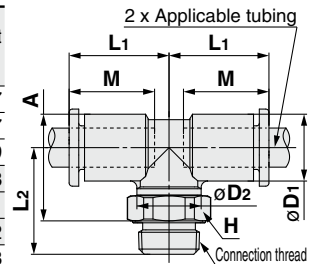


Male Branch Tee: KQ2T (Face seal)

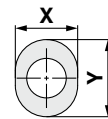


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø1/8	1/16	KQ2T01-33□P1	11.11	7.1	6.7	9.5	10	14.5	21.5	19.7	13.3	3.4	2.9	2.5	7.7
	1/8	KQ2T01-34□P1	12.7	7.1	6.7	9.5	10	14.5	16.6	14.8	13.3	3.4	2.9	2.5	6.7
	1/4	KQ2T01-35□P1	17.46	7.1	6.7	9.5	10	14.5	21.3	16.8	13.3	3.4	2.9	2.5	18.9
ø5/32	1/16	KQ2T03-33□P1	11.11	8.2	7.7	10	10	14.8	21.1	19.8	13.3	6	4.1	3	16.3
	1/8	KQ2T03-34□P1	12.7	8.2	7.7	10	10	14.8	16.2	14.9	13.3	6	4.1	3	7
	1/4	KQ2T03-35□P1	17.46	8.2	7.7	10	10	14.8	21.9	17.9	13.3	6	4.1	3	19.2
ø3/16	1/8	KQ2T05-34□P1	12.7	9.1	8.4	11	10	15	16.7	15.8	13.3	8.4	7	3.5	7.3
	1/4	KQ2T05-35□P1	17.46	9.1	8.4	11	10	15	22.4	18.8	13.3	8.4	7	3.5	19.5

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

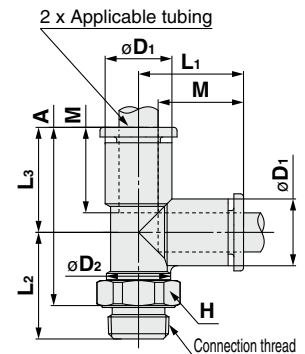


Male Run Tee: KQ2Y (Face seal)

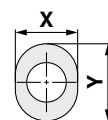


Applicable tubing O.D. [inch]	Connection thread NPT	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø1/8	1/16	KQ2Y01-33□P1	11.11	7.1	6.7	9.5	10	14.9	21.5	14.9	31.1	13.3	3.4	2.9	2.5	15.8
	1/8	KQ2Y01-34□P1	12.7	7.1	6.7	9.5	10	14.9	16.6	14.9	26.2	13.3	3.4	2.9	2.5	6.7
	1/4	KQ2Y01-35□P1	17.46	7.1	6.7	9.5	10	14.9	21.3	14.9	28.2	13.3	3.4	2.9	2.5	18.9
ø5/32	1/16	KQ2Y03-33□P1	11.11	8.2	7.7	10	10	15.3	21.1	15.3	31	13.3	6.4	4.4	3	16.4
	1/8	KQ2Y03-34□P1	12.7	8.2	7.7	10	10	15.3	16.2	15.3	26.1	13.3	6.4	4.4	3	7
	1/4	KQ2Y03-35□P1	17.46	8.2	7.7	10	10	15.3	21.9	15.3	29.1	13.3	6.4	4.4	3	19.2
ø3/16	1/8	KQ2Y05-34□P1	12.7	9.1	8.4	11	10	15.7	16.7	15.7	27	13.3	8.4	7	3.5	7.3
	1/4	KQ2Y05-35□P1	17.46	9.1	8.4	11	10	15.7	22.4	15.7	30	13.3	8.4	7	3.5	19.6

□: A (Brass), N (Brass + Electroless nickel plating)



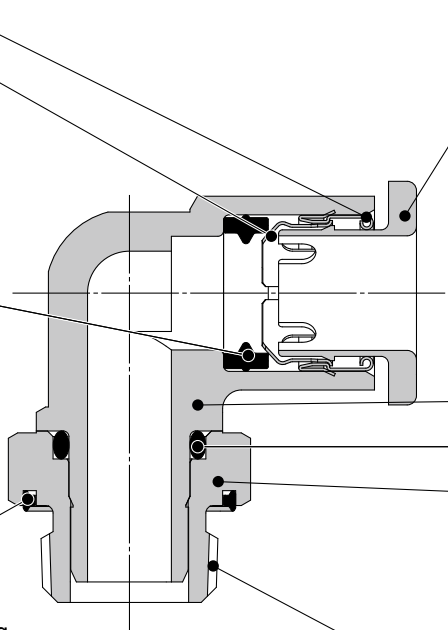
Release button dimensions



Oval Type Inch Size One-touch Fittings

Applicable Tubing: Inch Size, Connection Thread: R

KQ2 Series



Guide
Chuck
Suitable for use with nylon and urethane. Large retaining force.
The chuck provides secure retention and the collet increases the holding force on the tube.

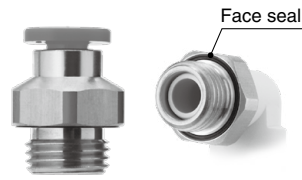
Seal
Can be used for a wide range of pressures from a low vacuum up to a pressure of 1 MPa.
The use of a special profile ensures sealing and reduces resistance when the tube is inserted.

Face seal method
Seal ring
Piping installability is improved by changing to the face seal structure.

Release button
Requires little force for removal.
Releases the chuck collet to remove the tube as well as to prevent the chuck from biting too deeply into the tubing.

Body
O-ring
Stud
Effective when piping in a confined space.
Body part rotates allowing for positioning.

Connection thread
R



One-touch IN/OUT connection.
Possible to use in vacuum to -100 kPa.

Drastically reduces screw-in time with the face seal method.



Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø1/8", ø3/16"

Specifications

Fluid	Air, Water*1	
Operating pressure range*2	-100 kPa to 1 MPa	
Proof pressure (at 23°C)	3 MPa	
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)	
Thread	Mounting section	JIS B0203 (Taper thread for piping) JIS B0205 (Metric coarse thread)
	Nut section	JIS B0205 (Metric fine thread)
Sealant on the threads	Seal ring	

*1 The surge pressure must be under the maximum operating pressure.

*2 Do not use the fittings with a leak tester or for vacuum retention because they are not guaranteed for zero leakage.

Principal Parts Material

Body	C3604, PBT
Stud	C3604 (Thread portion)
Chuck	Stainless steel 304
Guide	Stainless steel 304
Release button	POM
Seal, O-ring, Seal ring	NBR

How to Order

Threaded Type

KQ2 H 05 - 01 A P 1

One-touch fittings

Model

Symbol	Model
H	Male connector
L	Male elbow
T	Male branch tee
W	Extended male elbow
Y	Male run tee

Oval type release button

Face seal

Thread material/Surface treatment

Symbol	Thread material/Surface treatment
A	Brass
N	Brass + Electroless nickel plating

Port size

Symbol	Size
01	R1/8
02	R1/4

Applicable tubing O.D.

Symbol	Size
01	ø1/8"
05	ø3/16"

For details on applicable tubing O.D. and port size combinations for each model, refer to the charts on the Dimensions page.

Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Gasket Seal

Inch Size One-touch Fittings

Oval Type Variations

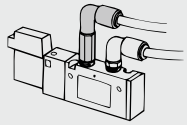
Extended male elbow

KQ2W

P.84



Basically, it is used together with a male elbow. Its extended height allows for multi-level piping and prevents interference among fittings.



Male connector

KQ2H

P.84



Use to pipe a female thread in the same direction. Most general model.

Male branch tee

KQ2T

P.85



Use to branch a female thread at both 90° angles.

Male elbow

KQ2L

P.84



Use to pipe a female thread at right angles. Most general model.

Male run tee

KQ2Y

P.85



Use to branch a female thread in the same direction and at a 90° angle.

<p>Tubing One-touch fittings Plug-in reducer/Plug-in elbow etc.</p>	<p>Tubing Tubing Union elbow/Union tee/Straight union etc.</p>	<p>Accessory Nipple/Plug etc.</p>	<p>Refer to page 31 and after for details.</p>
<p>Refer to page 31 and after for details.</p>			

This model does not support oval type release buttons. Refer to the round type (from page 195).

Branch "Y"

KQ2U

P.199



⚠ Box wrenches and socket wrenches may interfere with oval type release buttons. Refer to page 217 for details.

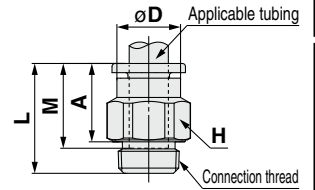
Dimensions

Male Connector: KQ2H (Face seal)

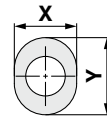


Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD	Release button dimensions		L	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y				Nylon	Urethane		
ø1/8	1/8	KQ2H01-01□P1	12	6.7	6.7	9.5	14.1	8.9	13.3	3.4	2.9	2.5	6.3
	1/4	KQ2H01-02□P1	17	6.7	6.7	9.5	15	7.4	13.3	3.4	2.9	2.5	15.1
ø3/16	1/8	KQ2H05-01□P1	12	8.3	8.4	11	16.7	11.5	13.3	7.8	6.5	3.5	6.8
	1/4	KQ2H05-02□P1	17	8.3	8.4	11	15	7.4	13.3	7.8	6.5	3.5	13.9

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

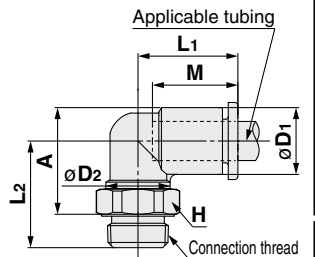


Male Elbow: KQ2L (Face seal)

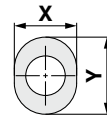


Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2L05-01□P1	12	9.1	8.4	11	10	15	16	15.3	13.3	6.8	5.6	3.5	5.4
	1/4	KQ2L05-02□P1	17	9.1	8.4	11	10	15	20.4	17.3	13.3	6.8	5.6	3.5	14.7

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

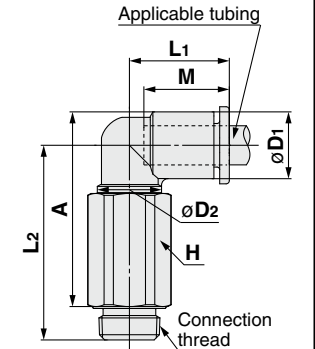


Extended Male Elbow: KQ2W (Face seal)

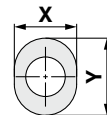


Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area [mm ²]		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2W05-01□P1	12	9.1	8.4	11	10	15	29.7	29	13.3	6.8	5.6	3.5	15.7
	1/4	KQ2W05-02□P1	17	9.1	8.4	11	10	15	32	29	13.3	6.8	5.6	3.5	35.1

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions



Oval Type

Metric Size M, R, Rc

Inch Size UNF, NPT

Inch Size M, R, Rc

Metric Size G

Metric Size R, Rc

Inch Size NPT

Inch Size R

Metric Size Uni

Inch Size Uni

Sealant/Gasket Seal Face Seal Gasket Seal

KQ2 Series

Oval Type Applicable Tubing: Inch Size, Connection Thread: R

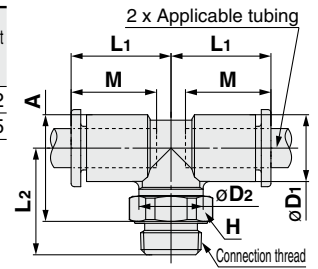
Dimensions

Male Branch Tee: KQ2T (Face seal)

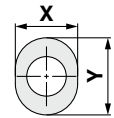


Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	A	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y						Nylon	Urethane		
ø3/16	1/8	KQ2T05-01□P1	12	9.1	8.4	11	10	15	16	15.3	13.3	8.4	7	3.5	6.2
	1/4	KQ2T05-02□P1	17	9.1	8.4	11	10	15	20.4	17.3	13.3	8.4	7	3.5	15.5

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

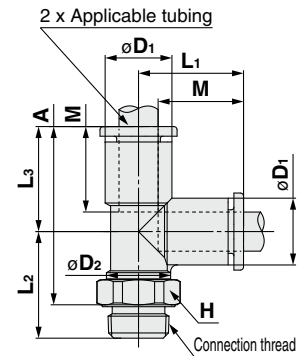


Male Run Tee: KQ2Y (Face seal)



Applicable tubing O.D. [inch]	Connection thread R	Model	H (Width across flats)	øD1	Release button dimensions		øD2	L1	L2	L3	A	M	Effective area (mm ²)		Min. port size	Weight [g]
					X	Y							Nylon	Urethane		
ø3/16	1/8	KQ2Y05-01□P1	12	9.1	8.4	11	10	15.7	16	15.7	26.5	13.3	8.4	7	3.5	6.3
	1/4	KQ2Y05-02□P1	17	9.1	8.4	11	10	15.7	20.4	15.7	28.5	13.3	8.4	7	3.5	15.6

□: A (Brass), N (Brass + Electroless nickel plating)



Release button dimensions

