



## Quick Connectors

for Q, QF Series



### Applications

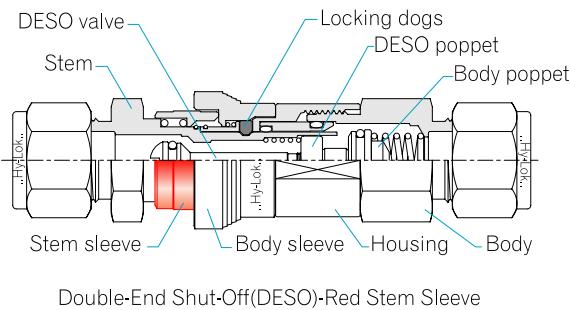
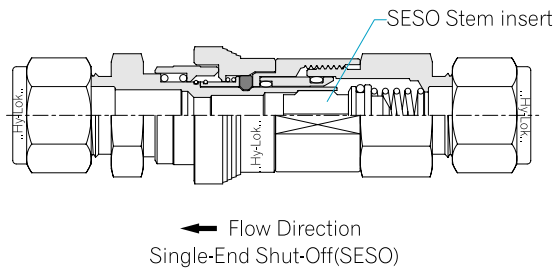
- Gauge Calibration
- Sampling System
- Portable Test Equipment
- Laboratory Equipment
- Gas Distribution
- Biopharmaceutical

### Design and Engineering

- End Connection Size from 1/4" ~ 1/2" - Q Series  
1/4" ~ 1" - QF Series
- Working pressure up to 3,000psig (206bar) - Q Series  
6,000psig (413bar) - QF Series
- Temperature rating -10 °F ~ 400 °F (-23 °C ~ 204 °C) with FKM O-Ring
- Long Life cycle

# Instrumentation Quick Connectors

## Q Series



## Technical Data

### Materials of Construction

Description	Material	
	316 SS	Brass
Locking dogs	PTFE -coated 316SS powdered metal	
SESO stem sleeve	316 SS	Brass
DESO stem sleeve	Polyurethane enamel coated 316	Polyurethane enamel coated brass
Body sleeve	316 SS powdered metal	Brass
Snap rings	Stainless Steel	
Springs*	Stainless Steel	
O-rings*	FKM	
SESO stem insert*	316 SS	Brass
Body poppet, Body insert, DESO valve, DESO poppet*	316 SS	Brass
Body, housing, stem*	316 SS	Brass

Note : "\*" marked are wetted parts, Lubricant is silicone based.

### ⚠ CAUTION

Single-end quick connectors MUST be depressurized prior to disconnection.

### Operational Recommendations of Hy-Lok Quick Connectors

- Use filters in front of quick connectors.
- Protect uncoupled body and stem with body and stem protectors or dust caps.
- Keep body and stem aligned when coupling and uncoupling.
- Couple and uncouple the quick connectors at room temperature.
- Couple and uncouple the quick connectors during system cleaning operation.
- Support hanging hoses or other equipments to prevent side load.
- Re-lubricate stem seal o-ring periodically.

## Features & Benefits

- Easy to use
- Minimum equipment shutdown.
- No tools required to make or break a connection.
- No probability of cross threading, galling, under or over-tightening.
- Interchangeable with same type of Swagelok, Parker, Hoke and TOMCO components.
- Single End Shut Off (SESO) - This Quick Connector style features Body Only Shut off. Stem is open to atmosphere when disconnected.
- Double End Shut Off (DESO) - This Quick Connector style features both body and stem shut off at disconnection with a minimal amount of spillage and air inclusion.

## Pressure-Temperature Ratings

Temperature °F (°C)	316 SS			Brass		
	Q1	Q2	Q3	Q1	Q2	Q3
Pressure Rating, psig(bar)						
Coupled						
70(20)	3000 (206)	1500 (103)	750 (52)	2000 (137)	1000 (69)	500 (34)
400 (204)	250 (17)					
Uncoupled and When Coupling and Uncoupling						
70 (20)	250 (17)					

## Option of O-Ring Materials

Various O-ring materials, available temperature ratings are shown below.

Material	Temperature Rating
NBR	-10°F to 250°F (-23°C to 121°C)
FFKM	-10°F to 600°F (-23°C to 315°C)
Neoprene	-40°F to 250°F (-40°C to 121°C)
Ethylene Propylene	-50°F to 300°F (-46°C to 149°C)

## Spillage and Air Inclusion

Series	Spillage cm <sup>3</sup>	Air Inclusion cm <sup>3</sup>
Q1	0.3	0.3
Q2	1.0	1.0
Q3	3.0	3.0

**Spillage** - Spillage is the amount of system fluid that is emitted when a quick connector is uncoupled(DESO only)

**Air Inclusion** - Air inclusion is the amount of air trapped between the body and stem that enters the system when a quick connector is coupled(DESO only)

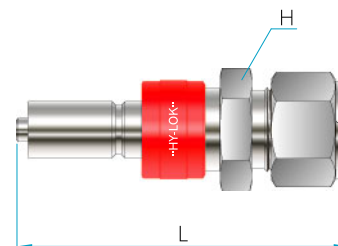
## Maximum Flow Cv Rate at 70 °F(20 °C)

Series	Water Flow u.s. gal/min (L/min)
Q1	4 (15.1)
Q2	6 (22.7)
Q3	10 (37.8)

## Stems

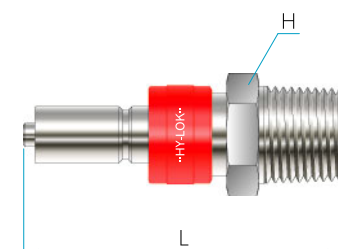
### Hy-Lok Tube Fitting

Part No.		Tube O.D	Series	Flow Coefficient(Cv)		Dimensions					
SESO	DESO			SESO	DESO	L				H	
						SESO		DESO		Width across flat	
					mm	in.	mm	in.	mm	in.	
Q1SSH- 2T	Q1DSH- 2T	1/8"	Q1	0.08	0.08	58.9	2.32	60.4	2.77	15.8	5/8
Q1SSH- 4T	Q1DSH- 4T	1/4"	Q1	0.30	0.20	59.9	2.36	61.5	2.42	15.8	5/8
Q2SSH- 6T	Q2DSH- 6T	3/8"	Q2	1.00	0.50	64.0	2.52	67.1	2.64	19.1	3/4
Q3SSH- 8T	Q3DSH- 8T	1/2"	Q3	2.40	1.50	75.2	2.96	80.3	3.16	23.8	15/16
Q1SSH- 6M	Q1DSH- 6M	6mm	Q1	0.30	0.20	59.9	2.36	61.5	2.42	15.8	5/8
Q2SSH-10M	Q2DSH-10M	10mm	Q2	1.00	0.50	67.3	2.65	70.4	2.79	19.1	3/4
Q3SSH-12M	Q3DSH-12M	12mm	Q3	2.40	1.50	75.2	2.96	80.3	3.16	23.8	15/16



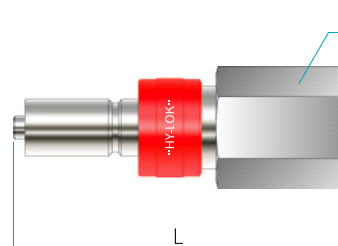
### Male Pipe Threads

Part No.		Pipe Size	Series	Flow Coefficient(Cv)		Dimensions					
SESO	DESO			SESO	DESO	L				H	
						SESO		DESO		Width across flat	
					mm	in.	mm	in.	mm	in.	
Q1SSM-2N	Q1DSM-2N	1/8-27 NPT	Q1	0.3	0.2	52.6	2.07	54.1	2.13	15.8	5/8
Q1SSM-4N	Q1DSM-4N	1/4-18 NPT	Q1	0.3	0.2	56.4	2.22	57.9	2.28	15.8	5/8
Q2SSM-4N	Q2DSM-4N	1/4-18 NPT	Q2	0.9	0.5	58.9	2.32	61.9	2.44	19.1	3/4
Q2SSM-6N	Q2DSM-6N	3/8-18 NPT	Q2	0.8	0.5	59.7	2.35	62.7	2.47	19.1	3/4
Q3SSM-8N	Q3DSM-8N	1/2-14 NPT	Q3	2.0	1.3	72.1	2.84	77.2	3.04	23.8	15/16
Q1SSM-4R	Q1DSM-4R	R 1/4	Q1	0.3	0.2	56.4	2.22	57.9	2.28	15.8	5/8
Q2SSM-6R	Q2DSM-6R	R 3/8	Q2	0.8	0.5	59.7	2.35	62.7	2.47	19.1	3/4
Q3SSM-8R	Q3DSM-8R	R 1/2	Q3	2.0	1.3	72.1	2.84	77.2	3.04	23.8	15/16



### Female Pipe Threads

Part No.		Pipe Size	Series	Flow Coefficient(Cv)		Dimensions					
SESO	DESO			SESO	DESO	L				H	
						SESO		DESO		Width across flat	
					mm	in.	mm	in.	mm	in.	
Q1SSF2N	Q1DSF-2N	1/8-27 NPT	Q1	0.3	0.2	51.1	2.01	52.6	2.07	15.8	5/8
Q1SSF-4N	Q1DSF-4N	1/4-18 NPT	Q1	0.3	0.2	57.4	2.26	58.9	2.32	19.1	3/4
Q2SSF-4N	Q2DSF-4N	1/4-18 NPT	Q2	0.9	0.5	59.7	2.35	62.7	2.47	19.1	3/4
Q2SSF-6N	Q2DSF-6N	3/8-18 NPT	Q2	0.8	0.5	59.7	2.35	62.7	2.47	22.2	7/8
Q3SSF-8N	Q3DSF-8N	1/2-14 NPT	Q3	2.0	1.3	71.6	2.82	76.7	3.02	26.9	1 1/16
Q1SSF-4R	Q1DSF-4R	Rc 1/4	Q1	0.3	0.2	57.4	2.26	58.9	2.32	19.1	3/4
Q2SSF-6R	Q2DSF-6R	Rc 3/8	Q2	0.8	0.5	59.7	2.35	62.7	2.47	22.2	7/8
Q3SSF-8R	Q3DSF-8R	Rc 1/2	Q3	2.0	1.3	71.6	2.82	76.7	3.02	26.9	1 1/16



Red colored stem sleeve : DESO type

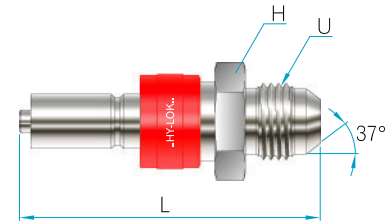
Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

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# Instrumentation Quick Connectors

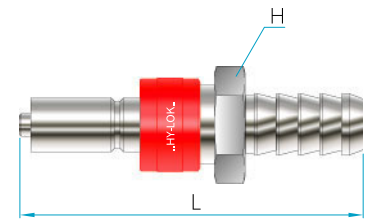
## 37° Flared Tube Fitting

Part No.		Tube O.D	Series	U (UNF)	Flow Coefficient (Cv)		Dimensions					
SESO	DESO				SESO	DESO	L				H	
							mm		in.		Width across flat	
Q1SS3F-4T	Q1DS3F-4T	1/4"	Q1	7/16-20	0.3	0.2	56.1	2.21	57.7	2.27	15.8	5/8
Q2SS3F-6T	Q2DS3F-6T	3/8"	Q2	9/16-18	1.0	0.5	58.8	2.31	61.9	2.44	19.1	3/4
Q3SS3F-8T	Q3DS3F-8T	1/2"	Q3	3/4 -16	2.4	1.5	70.1	2.76	75.2	2.96	23.8	15/16



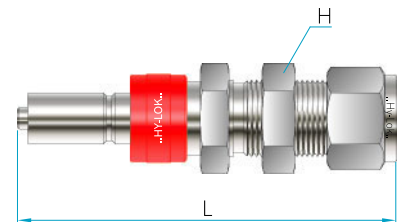
## Hose Barb Fitting

Part No.		Tube O.D	Series	Flow Coefficient (Cv)		Dimensions					
SESO	DESO			SESO	DESO	L				H	
						mm		in.		Width across flat	
Q1SSHB-4T	Q1DSHB-4T	1/4"	Q1	0.3	0.2	62.2	2.45	63.8	2.51	15.8	5/8
Q2SSHB-6T	Q2DSHB-6T	3/8"	Q2	1.0	0.5	66.8	2.63	69.9	2.75	19.1	3/4
Q3SSHB-8T	Q3DSHB-8T	1/2"	Q3	2.0	1.3	77.3	3.04	82.4	3.24	23.8	15/16



## Hy-Lok Bulkhead Tube Fitting

Part No.		Tube O.D	Series	Dimensions									
SESO	DESO			L				Min Panel Hole Dia		Max Panel Thickness		H	
				mm		in.		mm		in.		Width across flat	
		Q1SSBH- 4T	Q1DSBH- 4T	1/4"	Q1	69.6	2.74	71.1	2.80	11.9	15/32	6.4	0.25
Q2SSBH- 6T	Q2DSBH- 6T	3/8"	Q2	74.2	2.92	78.0	3.27	15.1	19/32	6.9	0.27	19.1	3/4
Q3SSBH- 8T	Q3DSBH- 8T	1/2"	Q3	87.1	3.43	92.2	3.63	19.8	25/32	6.6	0.26	23.8	15/16
Q1SSBH- 6M	Q1DSBH- 6M	6mm	Q1	69.6	2.74	71.1	2.80	11.9	29/64	6.4	0.25	16.0	-
Q2SSBH-10M	Q2DSBH-10M	10mm	Q2	77.7	3.06	78.7	3.10	16.7	21/32	6.9	0.27	22.0	-
Q3SSBH-12M	Q3DSBH-12M	12mm	Q3	87.1	3.43	92.2	3.63	19.6	49/64	6.6	0.26	24.0	-



## Insertion Depth

Series	Depth			
	SESO		DESO	
	mm	in.	mm	in.
Q1	27.7	1.09	29.2	1.15
Q2	30.0	1.18	33.0	1.30
Q3	37.6	1.48	42.7	1.68

To calculate overall length in the coupled position, subtract the insertion depth from any overall stem and body combination length.

Red colored stem sleeve : DESO type

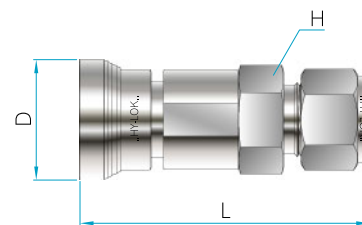
Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

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## Bodies

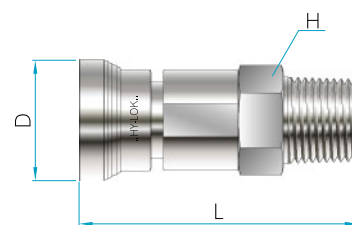
### Hy-Lok Tube Fitting

Part No.	Tube O.D	Series	L		D		H Width across flat	
			mm	in.	mm	in.	mm	in.
Q1BH - 2T	1/8"	Q1	57.4	2.26	23.1	0.91	15.8	5/8
Q1BH - 4T	1/4"	Q1	58.4	2.30	23.1	0.91	15.8	5/8
Q2BH - 6T	3/8"	Q2	65.5	2.58	26.2	1.03	19.1	3/4
Q3BH - 8T	1/2"	Q3	78.5	3.09	30.7	1.21	23.8	15/16
Q1BH - 6M	6mm	Q1	58.4	2.30	23.1	0.91	15.8	5/8
Q2BH - 10M	10mm	Q2	68.1	2.68	26.2	1.03	19.1	3/4
Q3BH - 12M	12mm	Q3	78.5	3.09	30.7	1.21	23.8	15/16



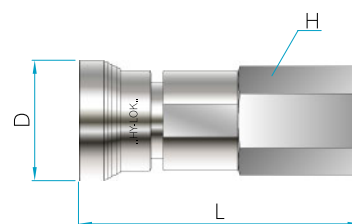
### Male Pipe Threads

Part No.	Pipe Size	Series	L		D		H Width across flat	
			mm	in.	mm	in.	mm	in.
Q1BM - 2N	1/8-27 NPT	Q1	51.1	2.01	23.1	0.91	15.8	5/8
Q1BM - 4N	1/4-18 NPT	Q1	54.9	2.16	23.1	0.91	15.8	5/8
Q2BM - 4N	1/4-18 NPT	Q2	60.5	2.38	26.2	1.03	19.1	3/4
Q2BM - 6N	3/8-18 NPT	Q2	60.5	2.38	26.2	1.03	19.1	3/4
Q3BM - 8N	1/2-14 NPT	Q3	75.4	2.97	30.7	1.21	23.8	15/16
Q1BM - 4R	R 1/4	Q1	54.9	2.16	23.1	0.91	15.8	5/8
Q2BM - 6R	R 3/8	Q2	60.5	2.38	26.2	1.03	19.1	3/4
Q3BM - 8R	R 1/2	Q3	75.4	2.97	30.7	1.21	23.8	15/16



### Female Pipe Threads

Part No.	Pipe Size	Series	L		D		H Width across flat	
			mm	in.	mm	in.	mm	in.
Q1BF - 2N	1/8-27 NPT	Q1	54.9	2.16	23.1	0.91	15.8	5/8
Q1BF - 4N	1/4-18 NPT	Q1	61.5	2.42	23.1	0.91	19.1	3/4
Q2BF - 4N	1/4-18 NPT	Q2	64.5	2.54	26.2	1.03	19.1	3/4
Q2BF - 6N	3/8-18 NPT	Q2	65.3	2.57	26.2	1.03	22.2	7/8
Q3BF - 8N	1/2-14 NPT	Q3	81.8	3.22	30.7	1.21	26.9	1 1/16
Q1BF - 4R	Rc 1/4	Q1	61.5	2.42	23.1	0.91	19.1	3/4
Q2BF - 6R	Rc 3/8	Q2	65.3	2.57	26.2	1.03	22.2	7/8
Q3BF - 8R	Rc 1/2	Q3	81.8	3.22	30.7	1.21	26.9	1 1/16

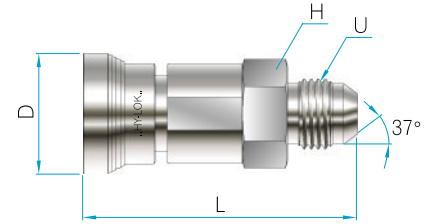


Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.  
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# Instrumentation Quick Connectors

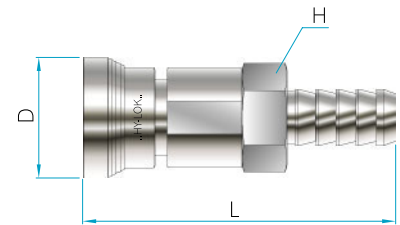
## 37° Flared Tube Fitting

Part No.	Tube O.D	Series	U (UNF)	L		D		H Width across flat	
				mm	in.	mm	in.	mm	in.
Q1B3F-4T	1/4"	Q1	7/16-20	56.6	2.15	23.1	0.91	15.8	5/8
Q2B3F-6T	3/8"	Q2	9/16-18	60.3	2.37	26.2	1.03	19.1	3/4
Q3B3F-8T	1/2"	Q3	3/4 -16	73.4	2.89	30.7	1.21	23.8	15/16



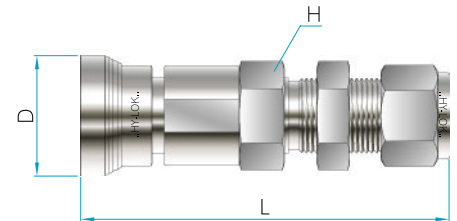
## Hose Barb Fitting

Part No.	Tube O.D	Series	L		D		H Width across flat	
			mm	in.	mm	in.	mm	in.
Q1BHB-4T	1/4"	Q1	60.7	2.39	23.1	0.91	15.8	5/8
Q2BHB-6T	3/8"	Q2	68.3	2.69	26.2	1.03	19.1	3/4
Q3BHB-8T	1/2"	Q3	80.6	3.17	30.7	1.21	23.8	15/16



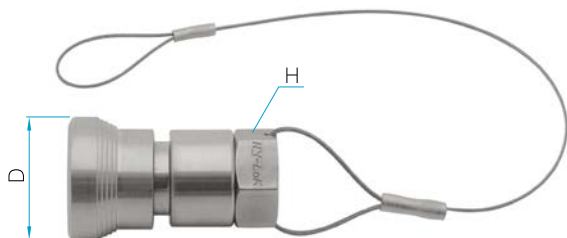
## Hy-Lok Bulkhead Tube Fitting

Part No.	Tube O.D	Series	L		D		Min Panel Hole Dia		Max Panel Thickness		H Width across flat	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Q1BBH - 4T	1/4"	Q1	67.8	2.67	23.1	0.91	11.9	15/32	6.4	0.25	15.8	5/8
Q2BBH - 6T	3/8"	Q2	75.7	2.98	26.2	1.03	15.1	19/32	6.9	0.27	19.1	3/4
Q3BBH - 8T	1/2"	Q3	90.4	3.56	30.7	1.21	19.8	25/32	6.6	0.26	23.8	15/16
Q1BBH - 6M	6mm	Q1	67.8	2.67	23.1	0.91	11.9	29/64	6.4	0.25	16.0	-
Q2BBH - 10M	10mm	Q2	75.9	2.99	26.2	1.03	16.7	21/32	6.9	0.27	22.0	-
Q3BBH - 12M	12mm	Q3	90.4	3.56	30.7	1.21	19.6	49/64	6.6	0.26	24.0	-



Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable. All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

## Accessory



### Stem Protectors

Part No.	Series	D		H Width across flat	
		mm	in.	mm	in.
Q1SP	Q1	23.1	0.91	15.8	5/8
Q2SP	Q2	26.2	1.03	19.1	3/4
Q3SP	Q3	30.7	1.21	23.8	15/16

### Body Protectors

Part No.	Series
Q1BP	Q1
Q2BP	Q2
Q3BP	Q3

## Keyed Q Series

### Features

- Keyed quick connectors can prevent accidents caused by intermixing non compatible fluids and gases.
- In addition to being color coded, keyed quick connectors feature a mechanical step making intermixing quick connectors and media virtually impossible.



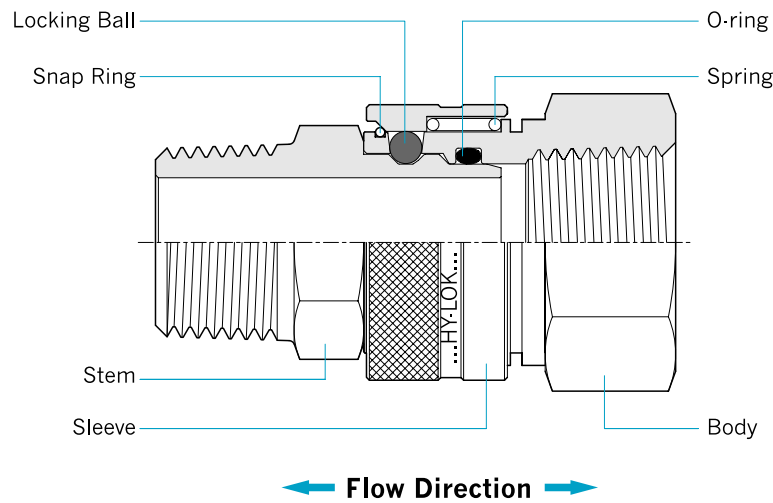
### Q Series Key Numbers and Sleeve Outside Diameter

Key Number	Key Color	Q1				Q2				Q3			
		Body		Stem		Body		Stem		Body		Stem	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
A	Black	24.4	0.96	20.8	0.82	28.7	1.13	25.2	0.99	32.0	1.26	27.9	1.10
B	Orange	25.1	0.99	21.6	0.85	29.5	1.16	25.9	1.02	32.8	1.29	29.0	1.14
C	Green	25.9	1.02	22.4	0.88	30.2	1.19	26.7	1.05	33.5	1.32	29.7	1.17
D	Yellow	26.7	1.05	23.1	0.91	31.0	1.22	27.4	1.08	34.3	1.35	30.5	1.20
E	Blue	27.4	1.08	23.9	0.94	31.5	1.24	28.2	1.11	35.1	1.38	31.2	1.23
F	White	28.2	1.11	24.6	0.97	32.5	1.28	29.0	1.14	35.8	1.41	32.0	1.26
G	Purple	29.0	1.14	25.4	1.00	33.3	1.31	29.7	1.17	36.6	1.44	32.8	1.29
H	Brown	29.7	1.17	26.2	1.03	34.0	1.34	30.5	1.20	37.3	1.47	33.5	1.32

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# Instrumentation Quick Connectors

## QF Series



### Features & Benefits

- Compact design and full flow without any orifice restriction.
- O-ring is easily replaceable.
- No possibility of cross threading, galling, under-tightening, or overtightening.

### Technical Data

#### Materials of Construction

Description	Material	
	316 SS	Brass
Body, Stem *	316 SS	Brass
Sleeve	316 SS	Brass
Snap Ring, Spring Locking Ball	316 SS	316 SS
O-rings *	FKM	NBR

Note : "\*" marked are wetted parts, Lubricant is silicone based.

#### ⚠ CAUTION

Quick connectors MUST be depressurized prior to disconnection

#### Operational Recommendations of Hy-Lok Quick Connectors

- Use filters in front of quick-connectors.
- Protect uncoupled body and stem with body and stem protectors or dust caps.
- Keep body and stem aligned when coupling and uncoupling.
- Couple and uncouple quick-connectors at room temperature.
- Couple and uncouple quick-connectors during system cleaning operations.
- Support hanging hoses or other equipment to prevent side load.
- Re-lubricate stem seal O-rings periodically.

#### Pressure-Temperature Ratings

Temperature °F(°C)	316 SS				Brass			
	QF1	QF2	QF3	QF4	QF1	QF2	QF3	QF4
	Pressure Rating, psig(bar)							
70 (20)	6000 (413)		4000 (275)	4000 (275)	3000 (206)		2000 (137)	
250 (121) <sup>①</sup> 400 (204) <sup>②</sup>	100(6.8)							

① For brass with NBR O-rings.

② For 316 with FKM O-rings.

#### Insertion Depth

QF Series	Depth mm(in)
QF1	19.8 (0,78)
QF2	20.6 (0,81)
QF3	22.9 (0,90)
QF4	23.8 (0,94)

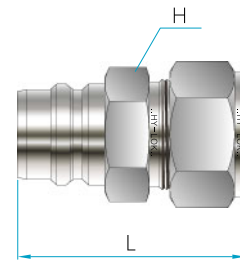
To calculate overall length in the coupled position, subtract the insertion depth from any overall stem and body combination length.



## Stems

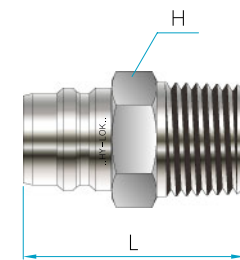
### Hy-Lok Tube Fitting

Part No.	Tube O.D.	Series	Cv	Min Orifice		L		H Width across flat	
				mm	in	mm	in	mm	in
QF1NH - 4T	1/4	QF1	2.2	4.8	0.19	45.0	1.77	14.2	9/16
QF1NH - 6T	3/8	QF1	2.8	6.1	0.24	45.0	1.77	17.4	11/16
QF2NH - 6T	3/8	QF2	2.9	7.1	0.28	47.8	1.88	22.2	7/8
QF2NH - 8T	1/2	QF2	13.0	10.4	0.41	50.5	1.99	22.2	7/8
QF3NH - 12T	3/4	QF3	26.0	15.7	0.62	54.6	2.15	26.9	1 1/16
QF4NH - 16T	1	QF4	45.0	22.4	0.88	62.2	2.45	34.9	1 3/8



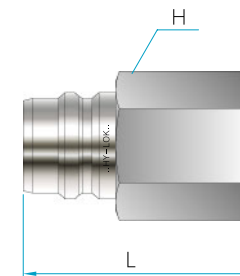
### Male Pipe Threads

Part No.	Pipe Size	Series	Cv	Min Orifice		L		H Width across flat	
				mm	in	mm	in	mm	in
QF1NM - 4N	1/4-18 NPT	QF1	1.7	6.1	0.24	40.4	1.59	14.2	9/16
QF1NM - 6N	3/8-18 NPT	QF1	1.7	6.1	0.24	40.4	1.59	17.4	11/16
QF2NM - 6N	3/8-18 NPT	QF2	7.1	10.4	0.41	41.9	1.65	22.2	7/8
QF2NM - 8N	1/2-14 NPT	QF2	11.5	12.7	0.50	46.7	1.84	22.2	7/8
QF3NM - 12N	3/4-14 NPT	QF3	23.6	18.3	0.72	51.2	2.02	26.9	1 1/16
QF4NM - 16N	1-11.5 NPT	QF4	39.0	22.4	0.88	59.6	2.35	34.9	1 3/8
QF1NM - 4R	R 1/4	QF1	1.7	6.1	0.24	40.4	1.59	14.2	9/16
QF2NM - 8R	R 1/2	QF2	11.5	12.7	0.50	46.7	1.84	22.2	7/8
QF4NM - 16R	R 1	QF4	39.0	22.4	0.88	59.6	2.35	34.9	1 3/8
QF1NM - 4G	G 1/4	QF1	1.7	6.1	0.24	40.6	1.60	19.0	3/4
QF2NM - 8G	G 1/2	QF2	11.5	12.7	0.50	46.2	1.82	26.9	1 1/16



### Female Pipe Threads

Part No.	Pipe Size	Series	Cv	Min Orifice		L		H Width across flat	
				mm	in	mm	in	mm	in
QF1NF - 4N	1/4-18 NPT	QF1	1.7	6.1	0.24	40.6	1.60	19.0	3/4
QF1NF - 6N	3/8-18 NPT	QF1	1.7	6.1	0.24	42.4	1.67	22.2	7/8
QF2NF - 6N	3/8-18 NPT	QF2	7.1	11.9	0.47	40.4	1.59	26.9	1 1/16
QF2NF - 8N	1/2-14 NPT	QF2	11.5	12.7	0.50	46.2	1.82	26.9	1 1/16
QF3NF - 12N	3/4-14 NPT	QF3	23.6	18.3	0.72	52.8	2.08	33.3	1 5/16
QF4NF - 16N	1-11.5 NPT	QF4	39.0	22.4	0.88	63.2	2.49	41.2	1 5/8
QF1NF - 4R	Rc 1/4	QF1	1.7	6.1	0.24	40.6	1.60	19.0	3/4
QF2NF - 8R	Rc 1/2	QF2	11.5	12.7	0.50	46.2	1.82	26.9	1 1/16
QF1NF - 4G	G 1/4	QF1	1.7	6.1	0.24	40.6	1.60	19.1	3/4
QF2NF - 8G	G 1/2	QF2	11.5	12.7	0.50	46.2	1.82	26.9	1 1/16



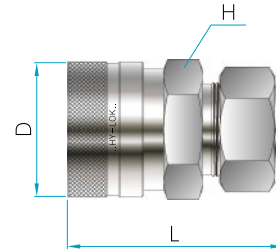
Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.  
 All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

# Instrumentation Quick Connectors

## Bodies

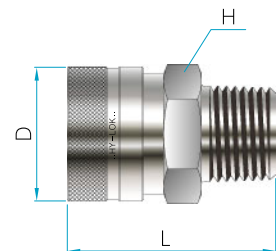
### Hy-Lok Tube Fitting

Part No.	Tube O.D.	Series	Min Orifice		D		L		H Width across flat	
			mm	in	mm	in	mm	in	mm	in
QF1CH - 4T	1/4	QF1	4.8	0.19	22.1	0.87	45.7	1.80	17.4	11/16
QF1CH - 6T	3/8	QF1	7.1	0.28	22.1	0.87	46.0	1.81	17.4	11/16
QF2CH - 6T	3/8	QF2	7.1	0.28	33.0	1.30	55.1	2.17	26.9	1 1/16
QF2CH - 8T	1/2	QF2	11.9	0.47	33.0	1.30	60.5	2.38	26.9	1 1/16
QF3CH - 12T	3/4	QF3	15.9	0.62	42.2	1.66	62.2	2.45	38.1	1 1/2
QF4CH - 16T	1	QF4	22.4	0.88	47.8	1.88	69.9	2.75	42.9	1 11/16



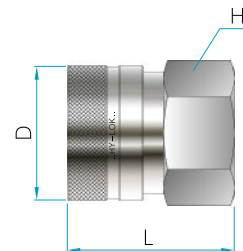
### Male Pipe Threads

Part No.	Pipe Size	Series	Min Orifice		D		L		H Width across flat	
			mm	in	mm	in	mm	in	mm	in
QF1CM - 4N	1/4-18 NPT	QF1	6.1	0.19	22.1	0.87	39.9	1.57	17.4	11/16
QF1CM - 6N	3/8-18 NPT	QF1	9.4	0.37	22.1	0.87	39.9	1.57	17.4	11/16
QF2CM - 6N	3/8-18 NPT	QF2	10.4	0.41	33.0	1.30	46.5	1.83	26.9	1 1/16
QF2CM - 8N	1/2-14 NPT	QF2	12.7	0.50	33.0	1.30	52.8	2.08	26.9	1 1/16
QF3CM - 12N	3/4-14 NPT	QF3	18.3	0.72	42.2	1.66	59.4	2.33	38.1	1 1/2
QF4CM - 16N	1-11.5 NPT	QF4	22.4	0.88	47.8	1.88	67.2	2.65	42.9	1 11/16
QF1CM - 4R	R 1/4	QF1	6.1	0.19	22.1	0.87	39.9	1.57	17.4	11/16
QF2CM - 8R	R 1/2	QF2	12.7	0.50	33.0	1.30	52.8	2.08	26.9	1 1/16
QF4CM - 16R	R 1	QF4	22.4	0.88	47.8	1.88	67.2	2.65	42.9	1 11/16
QF1CM - 4G	G 1/4	QF1	6.1	0.19	22.1	0.87	45.7	1.80	19.1	3/4
QF2CM - 8G	G 1/2	QF2	11.9	0.47	33.0	1.30	52.8	2.08	26.9	1 1/16



### Female Pipe Threads

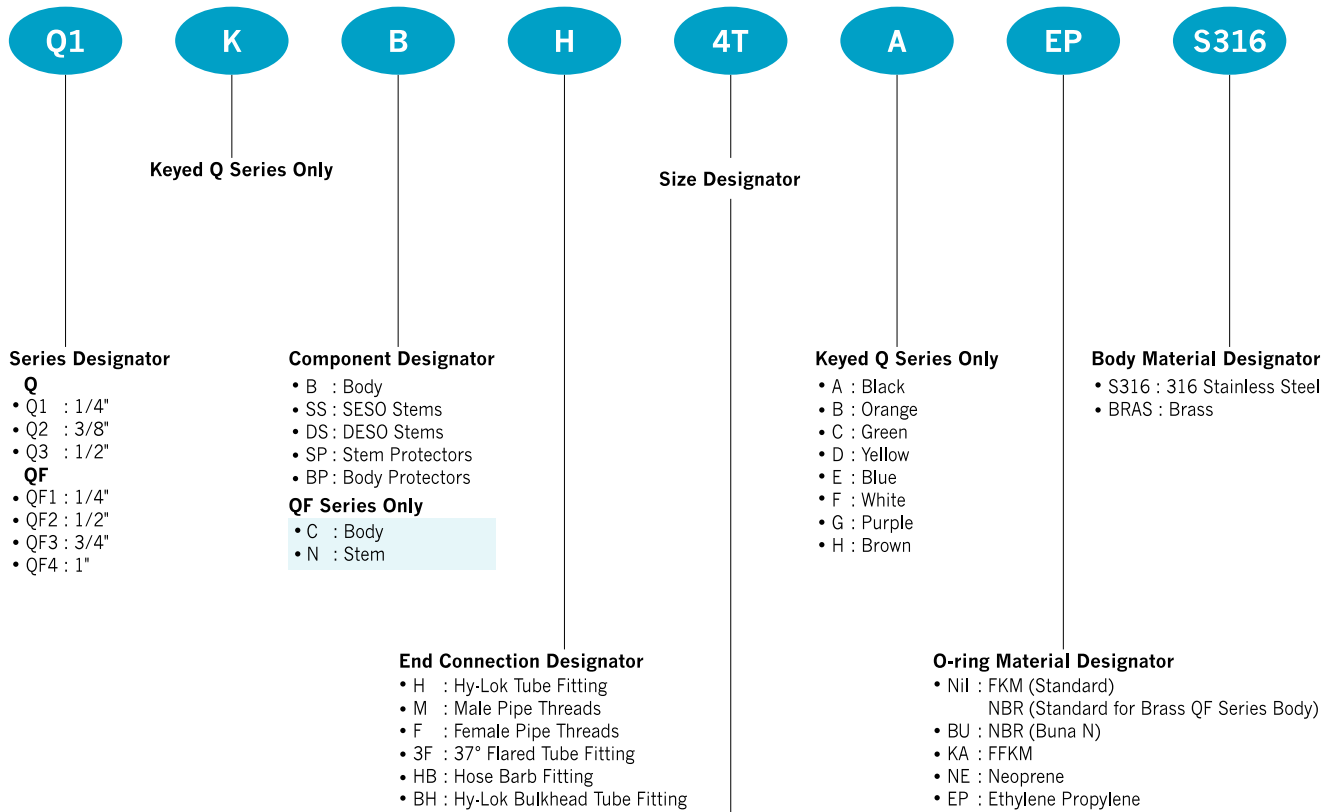
Part No.	Pipe Size	Series	Min Orifice		D		L		H Width across flat	
			mm	in	mm	in	mm	in	mm	in
QF1CF - 4N	1/4-18 NPT	QF1	9.7	0.19	22.1	0.87	38.1	1.50	19.1	3/4
QF1CF - 6N	3/8-18 NPT	QF1	9.7	0.37	22.1	0.87	41.4	1.63	22.2	7/8
QF2CF - 6N	3/8-18 NPT	QF2	15.0	0.41	33.0	1.30	43.9	1.73	26.9	1 1/16
QF2CF - 8N	1/2-14 NPT	QF2	16.0	0.50	33.0	1.30	43.9	1.73	26.9	1 1/16
QF3CF - 12N	3/4-14 NPT	QF3	22.4	0.72	42.2	1.66	48.1	1.89	38.1	1 1/2
QF4CF - 16N	1-11.5 NPT	QF4	27.1	0.88	47.8	1.88	53.8	2.12	42.9	1 11/16
QF1CF - 4R	Rc 1/4	QF1	9.7	0.19	22.1	0.87	38.1	1.50	19.1	3/4
QF2CF - 8R	Rc 1/2	QF2	16.0	0.50	33.0	1.30	43.9	1.73	26.9	1 1/16
QF1CF - 4G	G 1/4	QF1	9.7	0.88	22.1	0.87	38.1	1.50	19.1	3/4
QF2CF - 8G	G 1/2	QF2	16.0	0.19	33.0	1.30	43.9	1.73	26.9	1 1/16



Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

## Quick Connector Ordering Information



• Tube

Fractional Tube	O.D.	1/4	3/8	1/2	3/4	1
	Designator	4T	6T	8T	12T	16T
Metric Tube	O.D.	8mm	10mm	12mm	14mm	16mm
	Designator	8M	10M	12M	14M	16M

• Thread

Thread	1/4-18 NPT	3/8-18 NPT	1/2-14 NPT	3/4-14 NPT	1-11.5 NPT
Designator	4N	6N	8N	12N	16N
Thread	R 1/4	R 3/8	R 1/2	R 3/4	R 1
Designator	4R	6R	8R	12R	16R
Thread	G 1/4	G 3/8	G 1/2	G 3/4	G 1
Designator	4G	6G	8G	12G	16G



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