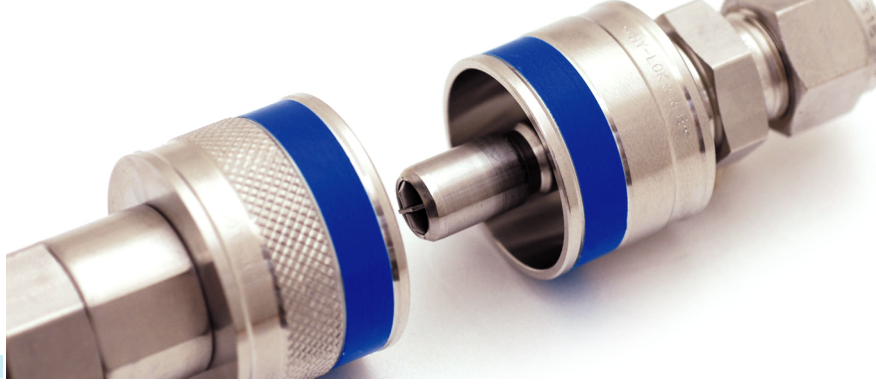




www.hy-lok.com

Catalog No. H-Q100
Jun. 2026



Quick Connectors

Q Series



Applications

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

Design and Engineering

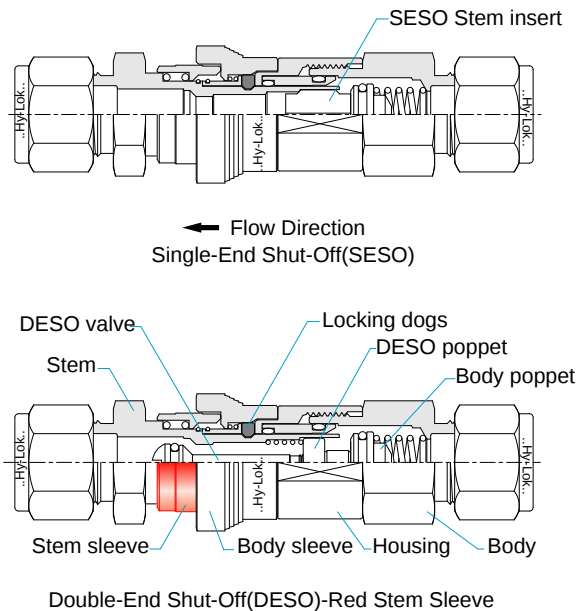
- End Connection Size from 1/4" ~ 1/2" - Q Series
- Working pressure up to 3,000psig (206bar) - Q Series
- Temperature rating -10 °F ~ 400 °F (-23 °C ~ 204 °C) with FKM O-Ring
- Long Life cycle

HY-LOK CORPORATION

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Q Series



Technical Data

Materials of Construction

Description	Material	
	316 SS	Brass
Locking dogs	PTFE -coated 316SS powdered metal	
SES stem sleeve	316 SS	Brass
DESO stem sleeve	Polyurethane enamel coated 316	Polyurethane enamel coated brass
Body sleeve	316 SS	Brass
Snap rings	Stainless Steel	
Springs*	Stainless Steel	
O-rings*	FKM	
SES stem insert*	316 SS	Brass
Body poppet, Body insert*	316 SS	Brass
DESO valve, DESO poppet*	316 SS	Q1:316 SS Q2,Q3: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 (SES) - 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 500°F (-23°C to 260°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 ³	Air Inclusion cm ³
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)

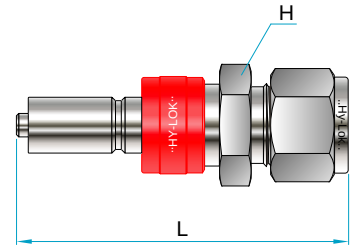
Maximum Flow Cv Rate at 70 °F(20 °C)

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

Stems

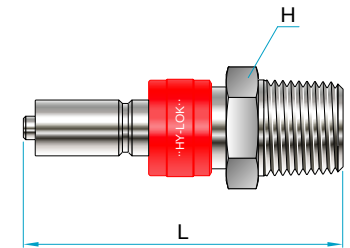
Hy-Lok Tube Fitting

Part No.		Tube O.D	Series	Flow Coefficient(Cv)		Dimensions					
						L				H Width across flat	
SESO	DESO			SESO	DESO	SESO		DESO			
		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



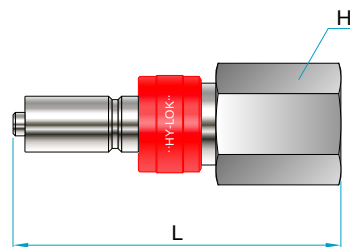
Male Pipe Threads

Part No.		Pipe Size	Series	Flow Coefficient(Cv)		Dimensions					
						L				H Width across flat	
SESO	DESO			SESO	DESO	SESO		DESO			
		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					
						L				H Width across flat	
SESO	DESO			SESO	DESO	SESO		DESO			
		mm	in.			mm	in.	mm	in.		
Q1SSF-2N	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

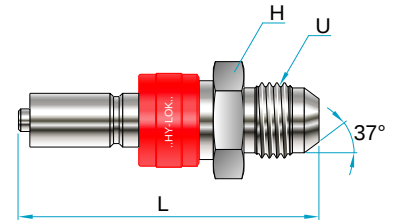
Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

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Instrumentation Quick Connectors

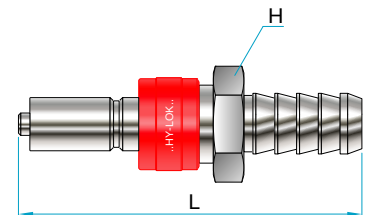
37° Flared Tube Fitting

Part No.		Tube O.D	Series	U (UNF)	Flow Coefficient (Cv)		Dimensions					
							L				H	
					SESO	DESO	SESO		DESO		Width across flat	
							mm	in.	mm	in.	mm	in.
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



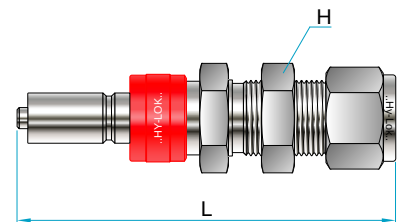
Hose Barb Fitting

Part No.		Hose I.D	Series	Flow Coefficient(Cv)		Dimensions					
						L				H	
				SESO	DESO	SESO		DESO		Width across flat	
						mm	in.	mm	in.	mm	in.
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									
				L				Min Panel Hole Dia		Max Panel Thickness		H	
				SESO		DESO		mm		in.		Width across flat	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Q1SSBH- 4T	Q1DSBH- 4T	1/4"	Q1	69.6	2.74	71.1	2.80	11.9	15/32	6.4	0.25	15.8	5/8
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	15.8	5/8
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	23.8	15/16



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

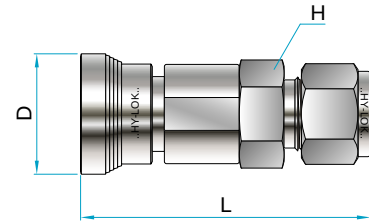
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Bodies

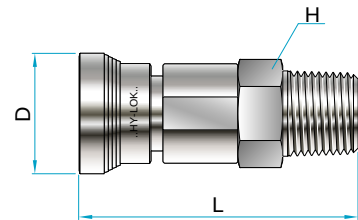
Hy-Lok Tube Fitting

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



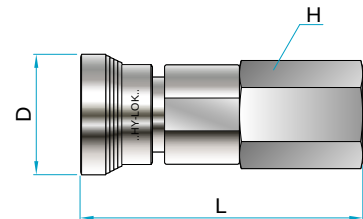
Male Pipe Threads

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



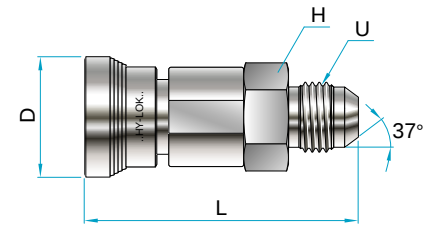
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Instrumentation Quick Connectors

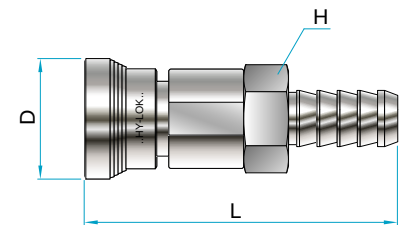
37° Flared Tube Fitting

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



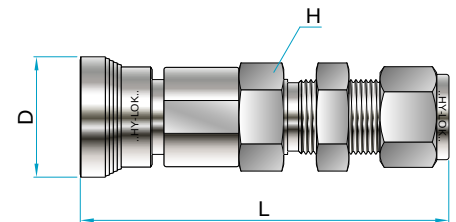
Hose Barb Fitting

Part No.	Hose I.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



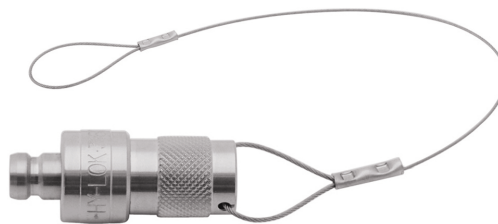
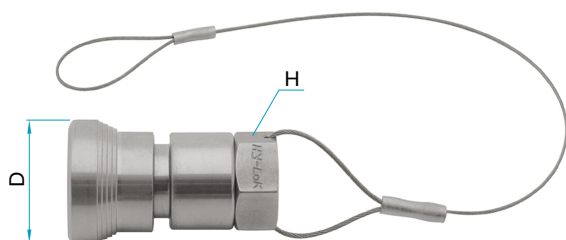
Hy-Lok Bulkhead Tube Fitting

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	15.8	5/8
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	23.8	15/16



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

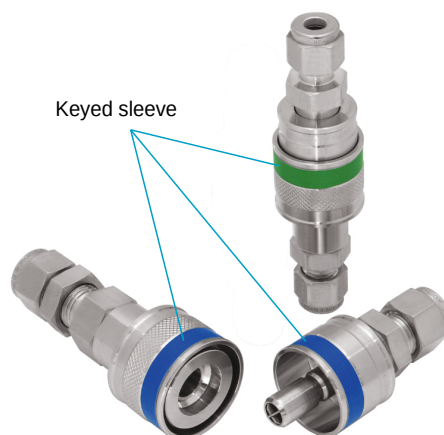
Body Protectors

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

Quick Connector Ordering Information

