



QC-Lok Quick Release Couplings

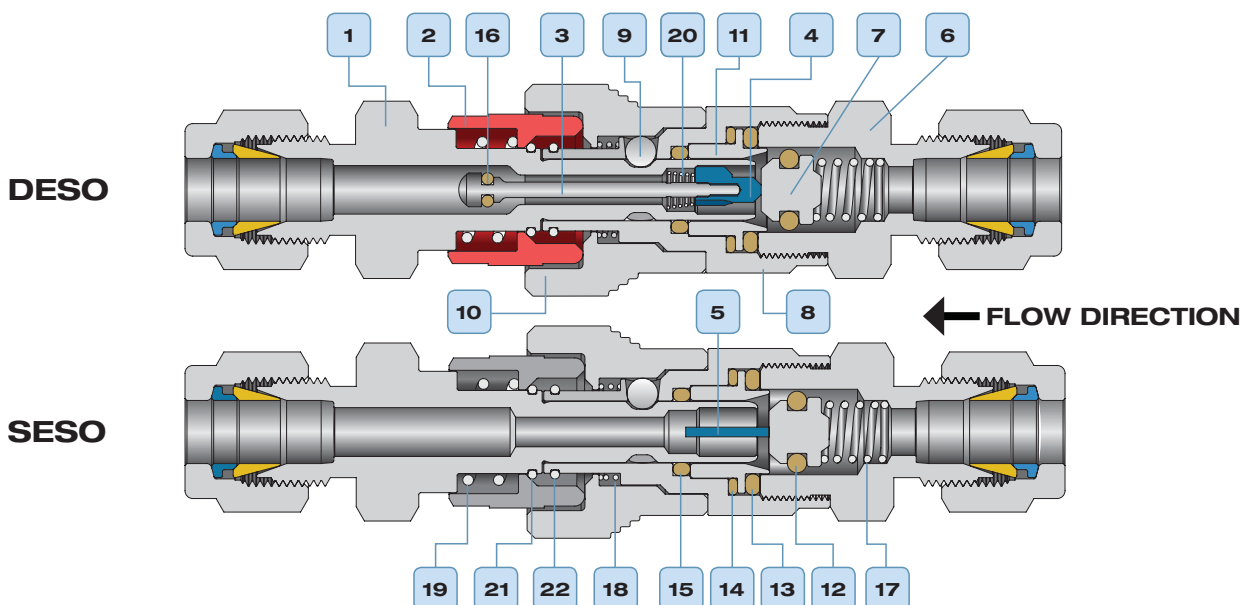
The Ham-Let QC-Lok instrumentation Quick Connectors are designed for service in a large variety of applications, with MAWP up to 3,000psig (206 bar).

MATERIALS		
	Component	Material
Valved and Non-Valved Stems	1 Body	316SS
	2 Sleeve	316SS
	3 Stem	316SS
	4 Stem nut	316SS
	5 Extender	316SS
Body	6 End connection	316SS
	7 Poppet	316SS
	8 Body	316SS
	9 Locking balls	304SS
	10 Sleeve	316SS
	11 Internal body	316SS
O-Rings	12 Poppet seal	Viton
	13 End connection seal	Viton
	14 Body seal	Viton
	15 Stem seal	Viton
Springs	16 Stem Internal seal	Viton
	17 Poppet spring	316SS
	18 Body sleeve spring	316SS
	19 Stem sleeve spring	316SS
	20 Stem spring	316SS
	21 Stem sleeve locking ring	316SS
	22 Body sleeve locking ring	316SS
23 Lubricants	Silicone and PTFE based	

- Ham-Let gaugeable high quality Let-Lok® ends.
- Valved and Non-Valved stems available.
- Working pressure rating: 3,000psig (206bar).
- Interchangeable and intermixable with major manufacturers' Instrumentation Quick Connectors.
- Viton® O-Rings as standard, other O-rings are available per request.
- Smooth and safe connection between the Quick-Lok Connector valves is reached by a simple pushing operation due to a smart, heavy duty locking mechanism.
- The QC-Lok Instrumentation Quick Connectors' validation tests are based on ANSI/B93.51M - 1980.

Single and Double End Shutoff Stems

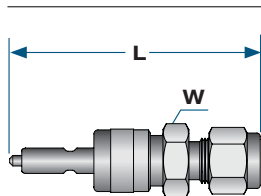
Single-end shutoff (SESO)
Stem have no valve and remain open when uncoupled.
Double-end shutoff (DESO)
Stem have valve and shut off when uncoupled.





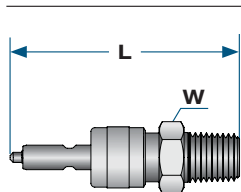
QC-Lok Quick Release Couplings Dimensions

* Let-Lok Stem



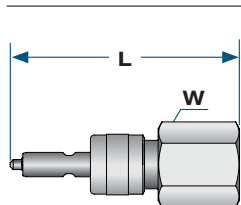
Fitting Size	Basic Ordering Numbers		Series	Flow Coefficient (Cv)		Dimensions		
	SESO	DESO		SESO	DESO	L		W
Dimensions, in. (mm)								
1/4	QC4-SS-S-L-1/4	QC4-SS-D-L-1/4	QC4	0.3	0.2	2.36 (59.9)	2.42 (61.5)	5/8
Dimensions, mm. (in.)								
6	QC4-SS-S-L-6MM	QC4-SS-D-L-6MM	QC4	0.3	0.2	59.9 (2.36)	61.5 (2.42)	16

Male Pipe Thread Stem



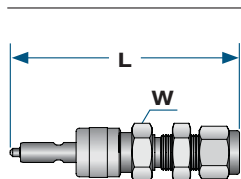
Fitting Size	Basic Ordering Numbers		Series	Flow Coefficient (Cv)		Dimensions		
	SESO	DESO		SESO	DESO	L		W inch
Dimensions, in. (mm)								
NPT								
1/8	QC4-SS-S-MN-1/8	QC4-SS-D-MN-1/8	QC4	0.3	0.2	2.07 (52.6)	2.13 (54.1)	5/8
1/4	QC4-SS-S-MN-1/4	QC4-SS-D-MN-1/4	QC4	0.3	0.2	2.22 (56.4)	2.28 (57.9)	5/8
ISO/BSP Tapered								
1/4	QC4-SS-S-MR-1/4	QC4-SS-D-MR-1/4	QC4	0.3	0.2	2.22 (56.4)	2.28 (57.9)	5/8

Female Pipe Thread Stem



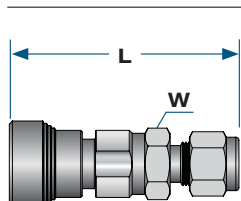
Fitting Size	Basic Ordering Numbers		Series	Flow Coefficient (Cv)		Dimensions		
	SESO	DESO		SESO	DESO	L		W inch
Dimensions, in. (mm)								
NPT								
1/8	QC4-SS-S-FN-1/8	QC4-SS-D-FN-1/8	QC4	0.3	0.2	2.01 (51.1)	2.07 (52.6)	5/8
1/4	QC4-SS-S-FN-1/4	QC4-SS-D-FN-1/4	QC4	0.3	0.2	2.26 (57.4)	2.32 (58.9)	3/4
ISO/BSP Tapered								
1/4	QC4-SS-S-FR-1/4	QC4-SS-D-FR-1/4	QC4	0.3	0.2	2.26 (57.4)	2.32 (58.9)	3/4

Let-Lok Bulkhead Stem



Fitting Size	Basic Ordering Numbers		Series	Dimensions				
	SESO	DESO		L		W	Max Panel Thickness	Min Panel Hole Dia
Dimensions, in. (mm)								
1/4	QC4-SS-S-LB-1/4	QC4-SS-D-LB-1/4	QC4	2.74 (69.6)	2.80 (71.1)	5/8	0.25 (6.4)	15/32 (11.9)
Dimensions, mm (in.)								
6	QC4-SS-S-LB-6MM	QC4-SS-D-LB-6MM	QC4	69.6 (2.74)	71.1 (2.80)	16	6.4 (0.25)	11.9 (15/32)

Let-Lok Body

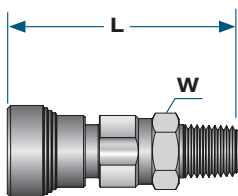


Fitting Size	Basic Ordering Number	Series	Dimensions	
			L	W
Dimensions, in. (mm)				
1/8	QC4-SS-B-L-1/8	QC4	2.26 (57.4)	5/8
1/4	QC4-SS-B-L-1/4	QC4	2.30 (58.4)	5/8
Dimensions, mm (in.)				
6	QC4-SS-B-L-6MM	QC4	58.4 (2.30)	16

*Let-Lok is double ferrule compression end

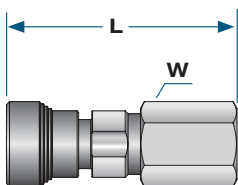
QC-Lok Quick Release Couplings Dimensions

Male Pipe Thread Body



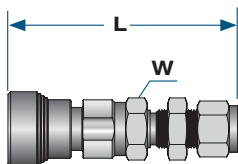
Fitting Size	Basic Ordering Number	Series	Dimensions	
			L	W
Dimensions, inch. (mm)				
NPT				
1/8	QC4-SS-B-MN-1/8	QC4	2.01 (51.1)	5/8
1/4	QC4-SS-B-MN-1/4	QC4	2.16 (54.9)	5/8
ISO/BSP Tapered				
1/8	QC4-SS-B-MR-1/8	QC4	2.01 (51.1)	5/8
1/4	QC4-SS-B-MR-1/4	QC4	2.16 (54.9)	5/8

Female Pipe Thread Body



Fitting Size	Basic Ordering Number	Series	Dimensions	
			L	W
Dimensions, inch. (mm)				
NPT				
1/8	QC4-SS-B-FN-1/8	QC4	2.16 (54.9)	5/8
1/4	QC4-SS-B-FN-1/4	QC4	2.42 (61.5)	3/4
ISO/BSP Tapered				
1/8	QC4-SS-B-FR-1/8	QC4	2.16 (54.9)	5/8
1/4	QC4-SS-B-FR-1/4	QC4	2.42 (61.5)	3/4

Let-Lok Bulkhead Body



Fitting Size	Basic Ordering Number	Series	Dimensions	
			L	W
Dimensions, inch. (mm)				
NPT				
1/4	QC-SS-B-LB-1/4	QC4	2.67 (67.8)	5/8
ISO/BSP Tapered				
6	QC-SS-B-LB-6MM	QC4	67.8 (2.67)	16

Overall Length Calculation:

To calculate overall length in the coupled position, subtract the insertion depth from any overall Stem and Body combination length

SESO 1/4" : 28.6 mm (0.89 inch)

DESO 1/4 : 30.2 mm (0.95 inch)

Recommendations

- It is recommended to install a filter ahead of the QC LOK.
- Hanging hoses or other accessories should be supported in order to prevent side loads.
- The QC LOK should be coupled or uncoupled at room temperature, and while the bodies and stems are aligned.
- Stem seal O-rings should be lubricated from time to time.

Warning

- Always take notice of pressure rating restrictions that apply for coupling or uncoupling.
- SESO should not be uncoupled under pressure.
- QC LOK should not be rotated while coupled.

Dimensions are for reference only, and are subjected to change without notice



QC-Lok Quick Release Couplings Pressure Temperature Ratings

Pressure-Temperature Ratings	
Coupled	*MAWP 3000 psig (206 bar) @ 70°F (21°C)
	*MAWT 400°F (204°C) @ 250 psig (17.2 bar)
Uncoupled and When Coupling and Uncoupling	*MAWP 250 psig (17.2 bar) @ 70°F (21°C)

*MAWP - Maximum Allowable Working Pressure

*MAWT - Maximum Allowable Working Temperature

Note:

Uncoupled QC LOK is rated up to 70°F (21°C)

Pressure & Temperature ratings are for stainless steel construction and Viton Seals

Spillage and Air Inclusion		
Size	Spillage CM ³	Air Inclusion CM ³
1/4	0.3	0.3

Definitions:

Spillage: Volume of flowing media that will be released from the system while disconnecting the DESO (only) Quick Connector.

Air Inclusion: Volume of air that will be entered to the system while connecting the DESO (only) Quick Connector.

Maximum Flow Rate	
Size	Water Flow U.S. gal/min (L/min) at 70 °F (20 °C)
QC4	4 (15)

O-RINGS

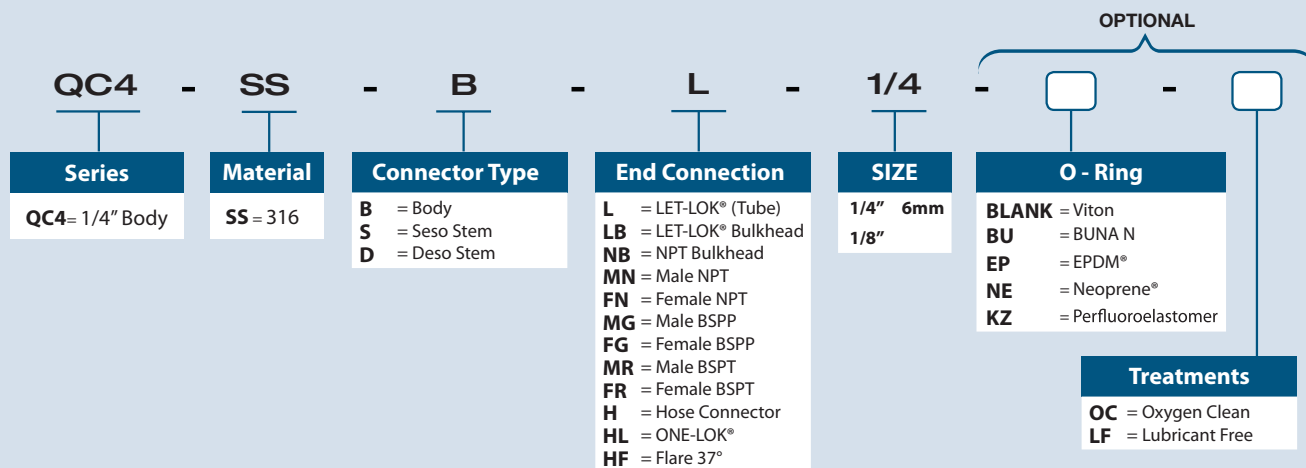
Different materials are available for special applications

O-Ring Material	Temperature Rating °F (°C)
Buna N	-35 to 250 (-34 to 121)
Ethylene Propylene	-70 to 250 (-57 to 121)
Viton (Fluorocarbon)	-15 to 400 (-26 to 204)
Neoprene	-35 to 225 (-37 to 107)
Perfluoroelastomer	-15 to 500 (-26 to 260)



QC-Lok Quick Release Couplings Ordering Information

ORDERING INFORMATION



Warning

Select the right component for safety's sake: The total design of the system must be taken into consideration when selecting components in order to ensure that your HAM-LET products provide safe, trouble-free operation. It is the responsibility of the system designer and the user to consider the compatibility of the materials, of the components and system, the function of the component, appropriate ratings and to ensure proper installation, operation and maintenance. Improper selection or use of products can cause property damage or personal injury, in respect of which the system designer and/or the user shall be solely liable and responsible.