

quick couplings



CRANE Instrumentation & Sampling, HOKE® PO Box 4866 • Spartanburg, SC 29305-4866 (864) 574-7966 • www.hoke.com

### For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized HOKE® sales and service representative for information about additional sizes and special alloys.

### **SAFETY WARNING:**

HOKE<sup>®</sup> products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.





#### **Typical Applications**

- Laboratories
- University labs
- Gas distribution
- Biopharmaceutical

#### **Technical Data**

CONSTRUCTION	316 Stainless steel*
NOMINAL FLOW SIZES	1/4", 3/8", 1/2"
MAXIMUM Operating Temperature	3600 psi
Cv FACTORS	.31 - 1.86

\* Other Alloys available - consult factory.

#### Features & Benefits

- Leak tight sealing is achieved through multiple o-ring seals located in the couplers. Viton® is standard.
- Poppet valves with dependable, integral o-ring • seals are standard in coupler and plug in doubleend-shutoff applications. In single-end-shutoff applications the poppet valve is installed in the body half.
- Valve guides align valves exactly to the coupler's valve seat preventing chance of leakage when in a disconnected mode.
- Locking mechanisms in bodies provide smooth positive sleeve engagement. A firm grip of the plug portion of the coupling assembly is assured with HOKE<sup>®</sup>'s Xylan<sup>®</sup>-coated stainless locking tabs.
- 316 stainless steel springs
  GYROLOK<sup>®</sup> nut and ferrule system provides leaktight end connection.
- Keyed sleeves for all sizes
- HOKE<sup>®</sup> HQC Series quick couplers are interchangeable with Swagelok® and Parker®.
- Special High Tolerance NPT Thread

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### Rated Working Pressure (psi)

	STAINLES	S STEEL P	RODUCTS
BODY SIZE	1/4″	36‴	1/2″
CONNECTED POSITION	3600	1500	750
DISCONNECTED POSITION	3600	1500	750
CONNECT UNDER PRESSURE	250	250	250

### **Spillage/Air Inclusion**

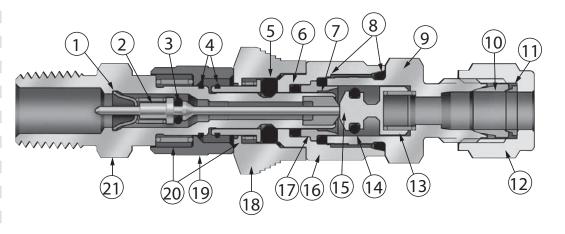
	AIR INCLUSION	SPILLAGE					
HQC4	0.3 cm <sup>3</sup>	0.3 cm <sup>3</sup>					
HQC6	1.0 cm <sup>3</sup>	1.0 cm <sup>3</sup>					
HQC8	3.0 cm <sup>3</sup>	3.0 cm <sup>3</sup>					

### **Materials of Construction**

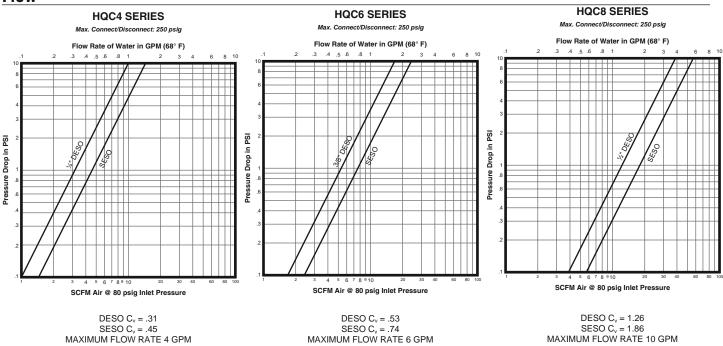
	STAINLESS STEEL PRODUCTS
MACHINED PARTS	Stainless Steel AISI type 316
SPRING AND RETAINING RINGS	Stainless Steel AISI type 316
SEALS	O-rings: Viton® is standard +20° F to +400° F

Standard seal lubrication is Krytox®.

1	Spider
2	Poppet
3	O-ring
4	Retaining ring
5	Locking tabs
6	Plug seal
7	Poppet guide
8	0-rings
9	Body
10	GYROLOK <sup>®</sup> front ferrule
11	GYROLOK <sup>®</sup> rear ferrule
12	GYROLOK <sup>®</sup> nut
13	Spring
14	O-ring
15	Poppet
16	Body housing
17	Body seat
18	Body sleeve
19	Plug sleeve
20	Spring
21	Plug



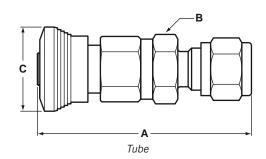
Flow



2 (HOKE

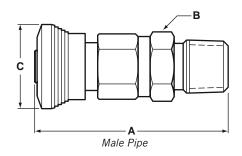
### Dimensions: Body Assemblies with Valves Tube

Tube						
SERIES	BODY SIZE	TUBE SIZE	PART NO.	Α	B HEX	C
HQC4	1/4	1⁄8	HQC4-B-2-316	2.18	0.63	0.88
HQC4	1/4	1/4	HQC4-B-4-316	2.22	0.63	0.88
HQC4	1/4	6mm	HQC4-B-6M0-316	56.4mm	16.0mm	22.4mm
HQC6	3%	3%	HQC6-B-6-316	2.70	0.75	1.00
HQC6	3%	10mm	HQC6-B-10M0-316	68.6mm	19.1mm	25.4mm
HQC8	1/2	1/2	HQC8-B-8-316	3.24	0.94	1.13
HQC8	1/2	12mm	HQC8-B-12M0-316	82.3mm	23.9mm	28.7mm



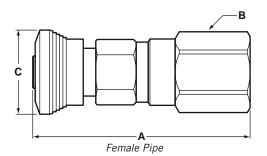
#### **Male Pipe**

		PIPE				
SERIES	BODY SIZE	THREAD	PART NO.	Α	B HEX	C
HQC4	1/4	⅓ NPT	HQC4-B-2M-316	1.83	0.63	0.88
HQC4	1/4	1/4 NPT	HQC4-B-4M-316	2.01	0.63	0.88
HQC4	1/4	1/4 BSPT	HQC4-B-4MT-316	2.01	0.63	0.88
HQC6	3%	1/4 NPT	HQC6-B-4M-316	2.43	0.75	1.00
HQC6	36	3% NPT	HQC6-B-6M-316	2.43	0.75	1.00
HQC6	3%	% BSPT	HQC6-B-6MT-316	2.43	0.75	1.00
HQC8	1/2	1/2 NPT	HQC8-B-8M-316	2.83	0.94	1.13
HQC8	1/2	1/2 BSPT	HQC8-B-8MT-316	2.83	0.94	1.13



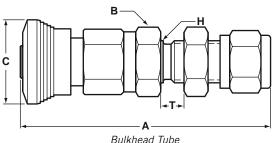
#### **Female Pipe**

		PIPE				
SERIES	BODY SIZE	THREAD	PART NO.	Α	B HEX	С
HQC4	1/4	⅓ NPT	HQC4-B-2F-316	2.10	0.63	0.88
HQC4	1/4	1/4 NPT	HQC4-B-4F-316	2.26	0.75	0.88
HQC4	1/4	1/4 BSPT	HQC4-B-4FT-316	2.26	0.75	0.88
HQC6	3%	1/4 NPT	HQC6-B-4F-316	2.60	0.75	1.00
HQC6	36	% NPT	HQC6-B-6F-316	2.63	0.88	1.00
HQC6	3%	36 BSPT	HQC6-B-6FT-316	2.63	0.88	1.00
HQC8	1/2	1/2 NPT	HQC8-B-8F-316	3.25	1.06	1.13
HQC8	1/2	1/2 BSPT	HQC8-B-8FT-316	3.25	1.06	1.13



#### **Bulkhead Tube**

SERIES	BODY SIZE	TUBE SIZE	PART NO.	Α	<b>B</b> HEX	C
HQC4	1/4	1/4	HQC4-B1-4-316	2.59	0.63	0.88
HQC4	1/4	6mm	HQC4-B1-6M0-316	65.8mm	16.0mm	22.4mm
HQC6	3%	3%	HQC6-B1-6-316	3.02	0.75	1.00
HQC6	3%	10mm	HQC6-B1-10M0-316	76.7mm	19.1mm	25.4mm



Bulkhead Tube For 'H' and 'T' dimensions, see page 5

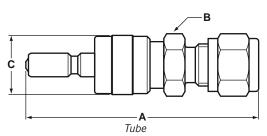
Note: All dimensions in inches unless specified as 'mm' (millimeters).

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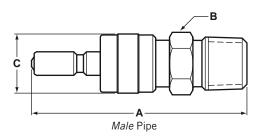
# Dimensions: Plugs, Non-valved, Single End Shutoff (SESO)

Tube						
SERIES	BODY SIZE	TUBE SIZE	PART NO.	Α	B HEX	C
HQC4	1/4	1/8	HQC4-S-2-316	2.95	0.56	0.62
HQC4	1/4	1/4	HQC4-S-4-316	2.42	0.56	0.62
HQC4	1/4	6mm	HQC4-S-6MO-316	79.2mm	14.2mm	15.7mm
HQC6	3%	3%	HQC6-S-6-316	2.60	0.69	0.74
HQC6	3%	10mm	HQC6-S-10M0-316	67.1mm	19.1mm	18.8mm
HQC8	1/2	1/2	HQC8-S-8-316	3.15	0.88	0.88
HQC8	1/2	12mm	HQC8-S-12M0-316	100.1mm	22.4mm	22.4mm



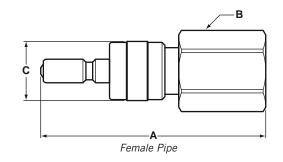
#### Male Pipe

		PIPE				
SERIES	BODY SIZE	THREAD	PART NO.	Α	B HEX	C
HQC4	1/4	⅓ NPT	HQC4-S-2M-316	2.06	0.56	0.62
HQC4	1/4	1/4 NPT	HQC4-S-4M-316	2.24	0.56	0.62
HQC4	1/4	1/4 BSPT	HQC4-S-4MT-316	2.24	0.56	0.62
HQC6	3%	1/4 NPT	HQC6-S-4M-316	2.33	0.75	0.74
HQC6	3%	% NPT	HQC6-S-6M-316	2.33	0.75	0.74
HQC6	3%	% BSPT	HQC6-S-6MT-316	2.33	0.75	0.74
HQC8	1/2	1/2 NPT	HQC8-S-8M-316	2.87	0.88	0.88
HQC8	1/2	1/2 BSPT	HQC8-S-8MT-316	2.87	0.88	0.88



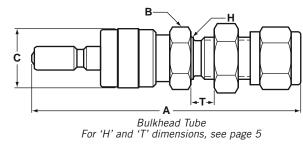
#### **Female Pipe**

		PIPE				
SERIES	BODY SIZE	THREAD	PART NO.	Α	B HEX	C
HQC4	1/4	⅓ NPT	HQC4-S-2F-316	2.21	0.56	0.62
HQC4	1/4	1/4 NPT	HQC4-S-4F-316	2.34	0.75	0.62
HQC4	1/4	1/4 BSPT	HQC4-S-4FT-316	2.34	0.75	0.62
HQC6	3/8	1/4 NPT	HQC6-S-4F-316	2.51	0.75	0.74
HQC6	3%	% NPT	HQC6-S-6F-316	2.53	0.88	0.74
HQC6	3/8	36 BSPT	HQC6-S-6FT-316	2.53	0.88	0.74
HQC8	1/2	1/2 NPT	HQC8-S-8F-316	3.12	1.06	0.88
HQC8	1/2	1/2 BSPT	HQC8-S-8FT-316	3.12	1.06	0.88

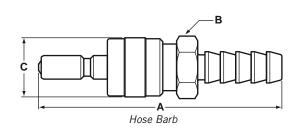


#### **Bulkhead Tube**

SERIES	<b>BODY SIZE</b>	TUBE SIZE	PART NO.	Α	<b>B</b> HEX	C
HQC4	1/4	1/4	HQC4-S1-4-316	2.80	0.56	0.62
HQC4	1/4	6mm	HQC4-S1-6M0-316	88.8mm	14.2mm	15.7mm
HQC6	3%	3%	HQC6-S1-6-316	3.24	0.69	0.74
HQC6	3/8	10mm	HQC6-S1-10M0-316	82.3mm	19.1mm	18.8mm





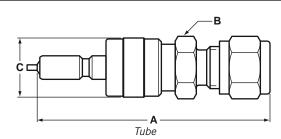


Note: All dimensions in inches unless specified as 'mm' (millimeters).



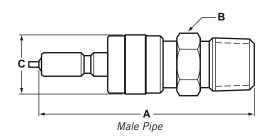
# Dimensions: Plugs, Valved, Double End Shutoff (DESO)

Tube						
SERIES	BODY SIZE	TUBE SIZE	PART NO.	Α	B HEX	C
HQC4	1/4	1/8	HQC4-D-2-316	2.95	0.56	0.62
HQC4	1/4	1/4	HQC4-D-4-316	2.42	0.56	0.62
HQC4	1/4	6mm	HQC4-D-6MO-316	79.2mm	14.2mm	15.7mm
HQC6	3/8	3%	HQC6-D-6-316	2.60	0.69	0.74
HQC6	3/8	10mm	HQC6-D-10M0-316	67.1mm	19.1mm	18.8mm
HQC8	1/2	1/2	HQC8-D-8-316	3.15	0.88	0.88
HQC8	1/2	12mm	HQC8-D-12M0-316	100.1mm	22.4mm	22.4mm



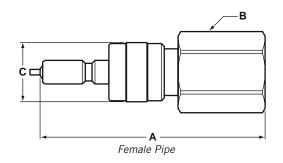
#### **Male Pipe**

		PIPE				
SERIES	BODY SIZE	THREAD	PART NO.	Α	B HEX	C
HQC4	1/4	⅓ NPT	HQC4-D-2M-316	2.06	0.56	0.62
HQC4	1/4	1/4 NPT	HQC4-D-4M-316	2.24	0.56	0.62
HQC4	1/4	1/4 BSPT	HQC4-D-4MT-316	2.24	0.56	0.62
HQC6	3%	1/4 NPT	HQC6-D-4M-316	2.34	0.75	0.74
HQC6	36	3% NPT	HQC6-D-6M-316	2.34	0.75	0.74
HQC6	3%	% BSPT	HQC6-D-6MT-316	2.34	0.75	0.74
HQC8	1/2	1/2 NPT	HQC8-D-8M-316	2.87	0.88	0.88
HQC8	1/2	1/2 BSPT	HQC8-D-8MT-316	2.87	0.88	0.88



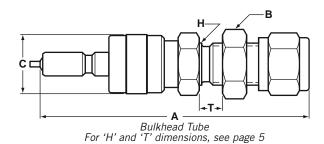
#### **Female Pipe**

SERIES	BODY Size	PIPE THREAD	PART NO.	А	B HEX	C
HQC4	1⁄4	⅓ NPT	HQC4-D-2F-316	2.21	0.56	0.62
HQC4	1⁄4	1/4 NPT	HQC4-D-4F-316	2.34	0.75	0.62
HQC4	1⁄4	1/4 BSPT	HQC4-D-4FT-316	2.34	0.75	0.62
HQC6	3/8	1/4 NPT	HQC6-D-4F-316	2.51	0.75	0.74
HQC6	3%	¾ NPT	HQC6-D-6F-316	2.53	0.88	0.74
HQC6	3/8	36 BSPT	HQC6-D-6FT-316	2.53	0.88	0.74
HQC8	1/2	1/2 NPT	HQC8-D-8F-316	3.12	1.06	0.88
HQC8	1/2	1/2 BSPT	HQC8-D-8FT-316	3.12	1.06	0.88



#### **Bulkhead Tube**

SERIES	<b>BODY SIZE</b>	TUBE SIZE	PART NO.	Α	B HEX	C
HQC4	1/4	1/4	HQC4-D1-4-316	2.80	0.56	0.62
HQC4	1/4	6mm	HQC4-D1-6M0-316	88.8mm	14.2mm	15.7mm
HQC6	3/8	3%	HQC6-D1-6-316	3.24	0.69	0.74
HQC6	3/8	10mm	HQC6-D1-10M0-316	82.3mm	19.1mm	18.8mm



Note: All dimensions in inches unless specified as 'mm' (millimeters).

## HOKE Color-Coded Keyed Quick Couplers

HOKE<sup>®</sup> keyed quick couplers will fit only mating keyed components, preventing accidental mixing of fluid or pressure lines.

Body and plug assemblies are numbered and color-coded for positive identification.

HOKE<sup>®</sup> keyed HQC Series quick couplers are interchangeable with Swagelok<sup>®</sup> and Parker<sup>®</sup> components of the same style. For example, the HOKE<sup>®</sup> K1 body sleeve will fit a Swagelok<sup>®</sup> K1 plug sleeve of the same size.



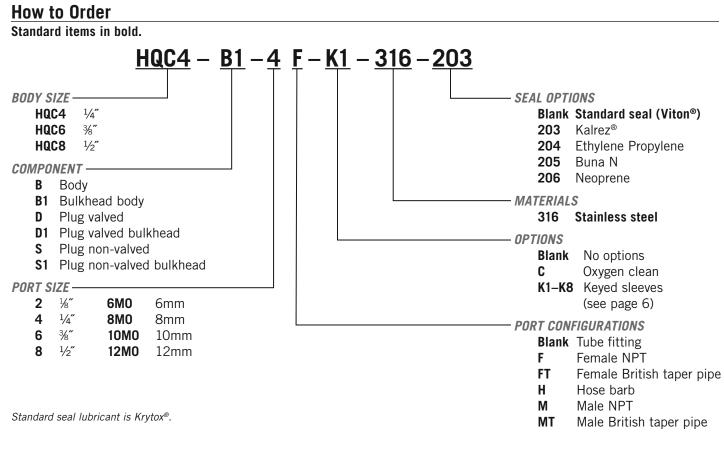
KEY		HQC4		HQC4 HQC6		106	HQC8	
NUMBER	COLOR	BODY SLEEVE O.D.	PLUG SLEEVE O.D.	BODY SLEEVE O.D.	PLUG SLEEVE O.D.	BODY SLEEVE O.D.	PLUG SLEEVE O.D.	
K1	Black	0.96	0.82	1.13	0.99	1.26	1.10	
K2	Orange	0.99	0.85	1.16	1.02	1.29	1.14	
K3	Green	1.02	0.88	1.19	1.05	1.32	1.17	
K4	Yellow	1.05	0.91	1.22	1.08	1.35	1.20	
K5	Blue	1.08	0.94	1.24	1.11	1.38	1.23	
K6	White	1.11	0.97	1.28	1.14	1.41	1.26	
K7	Purple	1.14	1.00	1.31	1.17	1.44	1.29	
K8	Brown	1.17	1.03	1.34	1.20	1.47	1.32	

Keys K1–K5 are standard stock items. For keys K6–K8, consult the factory.

### Panel Mount Dimensions

from Bulkhead drawings on pages 2, 3, and 4

	BULKHEAD SIZE	H Panel Hole	T PANEL THICKNESS
	₩″ GYROLOK®	0.328″	0.250" max.
HQC4	1/4" GYROLOK®	0.469″	0.250" max.
	6mm GYROLOK®	11.9mm	6.3mm max
	1/4" GYROLOK®	0.469″	0.250" max.
HQC6	3/ GYROLOK®	0.594″	2.70" max.
	10mm GYROLOK®	15.1mm	6.9mm max.
HQC8	1/2" GYROLOK®	0.781″	0.260" max.



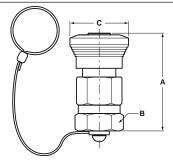
#### Accessories

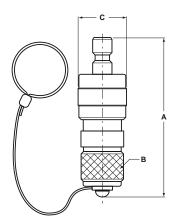
Dust Cap	IS				
SERIES	BODY SIZE	PART NO.	А	B HEX	C
HQC4	1/4	HQC4-C-316	1.45	0.63	0.88
HQC6	3/8	HQC6-C-316	1.45	0.75	1.00
HQC8	1/2	HQC8-C-316	1.65	0.94	1.13

#### **Dust Plugs**

SERIES	BODY SIZE	PART NO.	Α	B HEX	С
HQC4	1/4	HQC4-P-316	1.88	0.57	0.62
HQC6	3/8	HQC6-P-316	1.98	0.63	0.74
HQC8	1/2	HQC8-P-316	2.25	0.75	0.88

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Notes	



## **The Small Bore Instrumentation Specialists**



We specialize in small bore instrumentation products up to 2" that deliver benchmark performance quality & safety; provide the broadest array of superior alloy offerings in the market; decades of proven success in a wide range of industries; a roster of "who's who" customers & projects globally; original "Best Solution" engineering & designs; and are focused on continuous improvement in all aspects of our business.

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