



Instrumentation **Quick Couplings**



QUALITY • VALUE • SELECTION

TOMCO IPC

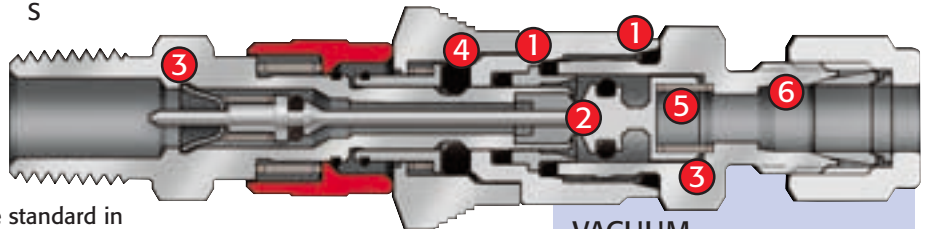
QUICK COUPLINGS

M A T E R I A L S

FEATURES

Easy push-to-connect action.

- 1 Redundant O-Ring Seals in couplers provide quick leak tight sealing in Vacuum or Pressurized systems. Nitrile standard in Brass couplings, Viton standard in 316SS couplings and valved plugs.
- 2 Poppet Valve Equipped; Dependable Poppet Valves with integral O-ring seals are standard in Coupler and Plug in double shutoff applications. In single end shutoff applications the poppet valve will be installed in the coupler half.
- 3 Positive Valve Stops and Guides; Built-in positive valve stops prevent flow checking in the coupling. Valve guides align valves exactly to the coupler's valve seat preventing chance of leakage when in a disconnected mode.
- 4 Locking Mechanisms in couplers; Smooth positive sleeve engagement and firm grip of the plug portion of the coupling assembly is assured with Tomco's Teflon Bonded stainless locking "dogs".
- 5 316SS Springs; All coupler and valving springs are constructed from 316 material.
- 6 Tomco tube fitting end; Permits leaktight assembly with most industry standard swage type nut and ferrule combinations.



VACUUM SPECIFICATIONS

Vacuum Rating: TOMCO Series QC will handle vacuums up to 50 millitorr or .05 mm of Hg absolute pressure. (.05 mm of Hg absolute pressure = -27.9 inches Hg gauge pressure).
 Sealing Integrity: TOMCO Series are 100% production leak tested.

Size availability. IP Control couplings and plugs are available in body sizes 1/4", 3/8" and 1/2".
Different connection ends, including male and female, tube fitting, bulkhead and other popular ends available.

RATED WORKING PRESSURE (PSI)						
BRASS PRODUCTS			STAINLESS STEEL PRODUCTS			
Body Size	1/4"	3/8"	1/2"	Body Size	1/4"	3/8" 1/2"
Connected Position	2000	1000	500	Connected Position	3000	1500 750
Disconnected Position	2000	1000	500	Disconnected Position	3000	1500 750
Connect Under Pressure	250	250	250	Connect Under Pressure	250	250 250

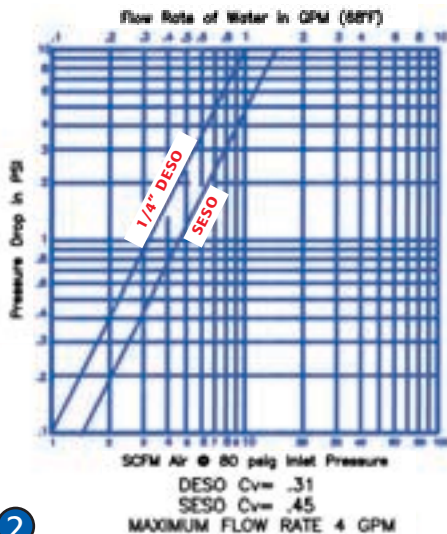
MATERIALS OF CONSTRUCTION	
BRASS PRODUCTS	STAINLESS STEEL PRODUCTS
Machined Parts: CA360 Brass with Bright-Dip surface enhancement.	Machined Parts: Stainless Steel AISI type 316.
Springs, and Retaining Rings: Stainless Steel AISI type 316	Springs and Retaining Rings: Stainless Steel AISI type 316
Seals: "O" Rings-Nitrile is standard Temperature Range: -40 to +250	Seals: "O" Rings-Viton is standard Temperature Range: +20 to +400

Standard seal lubrication is DuPont Krytox™

FLOW AND PRESSURE DROP

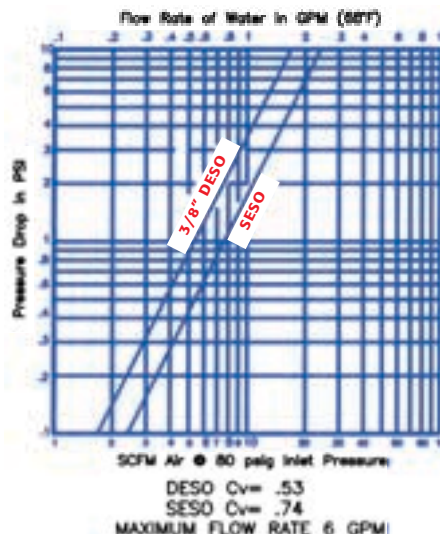
QC4 SERIES

Max. Connect/Disconnect: 250 psig



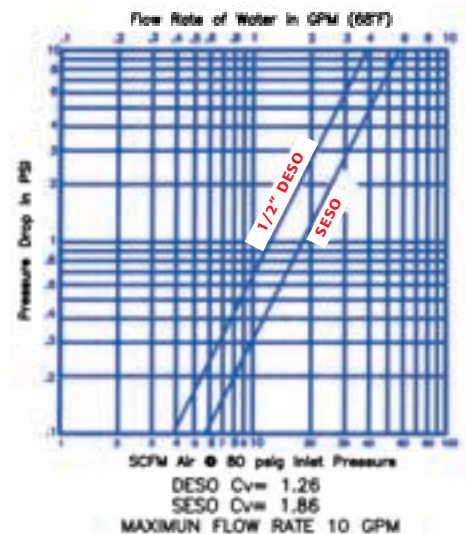
QC6 SERIES

Max. Connect/Disconnect: 250 psig



QC8 SERIES

Max. Connect/Disconnect: 250 psig



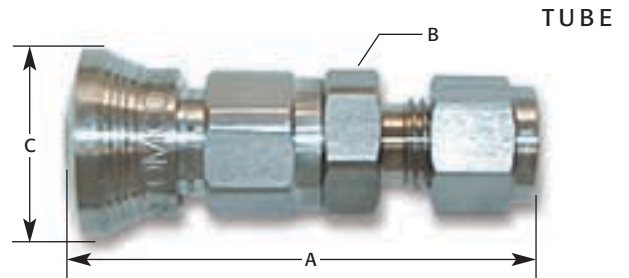
Instrumentation Quick Connects

SWAGELOK-PARKER INTERCHANGE

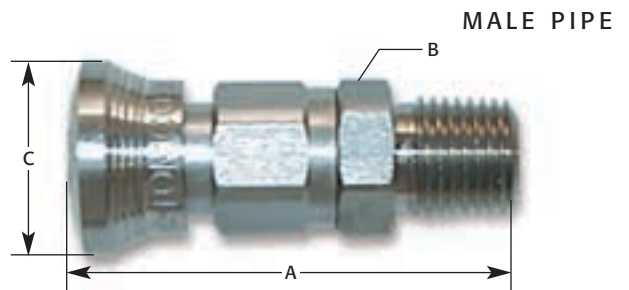
INSTRUMENTATION

**INSTRUMENTATION QUICK COUPLERS
 BODY ASSEMBLIES WITH VALVES**

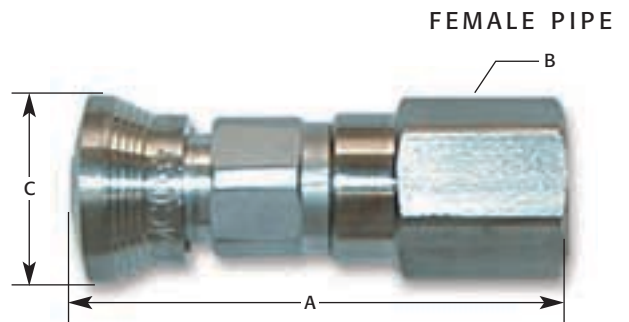
SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-B-2-316	2.18	0.63	0.88
QC4	1/4	1/4	QC4-B-4	2.22	0.63	0.88
QC4	1/4	1/4	QC4-B-4-316	2.22	0.63	0.88
QC6	3/8	3/8	QC6-B-6	2.70	0.75	1.00
QC6	3/8	3/8	QC6-B-6-316	2.70	0.75	1.00
QC8	1/2	1/2	QC8-B-8	3.24	0.94	1.13
QC8	1/2	1/2	QC8-B-8-316	3.24	0.94	1.13



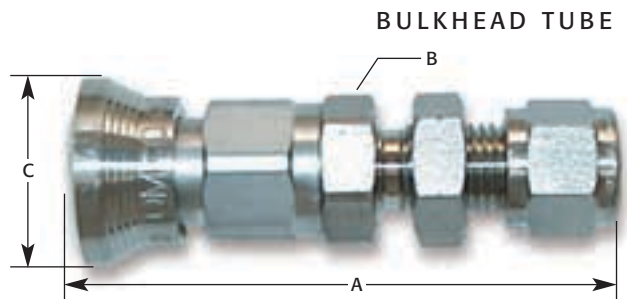
SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-B-2M	1.83	0.63	0.88
QC4	1/4	1/8	QC4-B-2M-316	1.83	0.63	0.88
QC4	1/4	1/4	QC4-B-4M	2.01	0.63	0.88
QC4	1/4	1/4	QC4-B-4M-316	2.01	0.63	0.88
QC6	3/8	1/4	QC6-B-4M	2.43	0.75	1.00
QC6	3/8	1/4	QC6-B-4M-316	2.43	0.75	1.00
QC6	3/8	3/8	QC6-B-6M	2.43	0.75	1.00
QC6	3/8	3/8	QC6-B-6M-316	2.43	0.75	1.00
QC8	1/2	1/2	QC8-B-8M	2.83	0.94	1.13
QC8	1/2	1/2	QC8-B-8M-316	2.83	0.94	1.13



SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-B-2F	2.10	0.63	0.88
QC4	1/4	1/8	QC4-B-2F-316	2.10	0.63	0.88
QC4	1/4	1/4	QC4-B-4F	2.26	0.75	0.88
QC4	1/4	1/4	QC4-B-4F-316	2.26	0.75	0.88
QC6	3/8	1/4	QC6-B-4F	2.60	0.75	1.00
QC6	3/8	1/4	QC6-B-4F-316	2.60	0.75	1.00
QC6	3/8	3/8	QC6-B-6F	2.63	0.88	1.00
QC6	3/8	3/8	QC6-B-6F-316	2.63	0.88	1.00
QC8	1/2	1/2	QC8-B-8F	3.25	1.06	1.13
QC8	1/2	1/2	QC8-B-8F-316	3.25	1.06	1.13



SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/4	QC4-B1-4	2.59	0.63	0.88
QC4	1/4	1/4	QC4-B1-4-316	2.59	0.63	0.88
QC6	3/8	3/8	QC6-B1-6	3.02	0.75	1.00
QC6	3/8	3/8	QC6-B1-6-316	3.02	0.75	1.00



SERIES QC

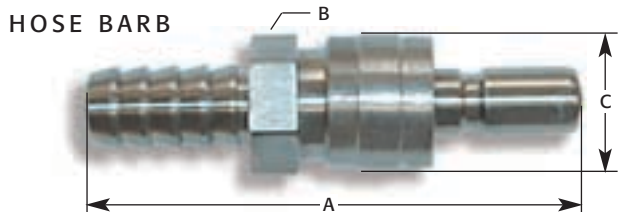
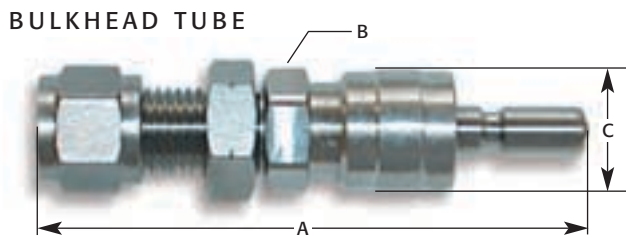
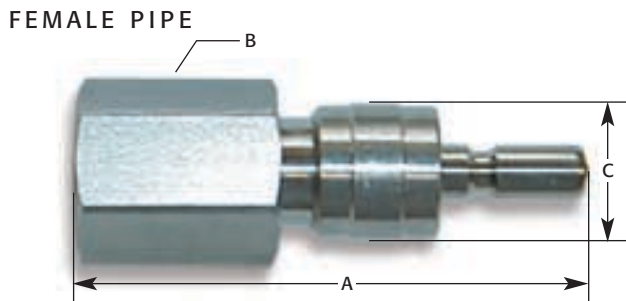
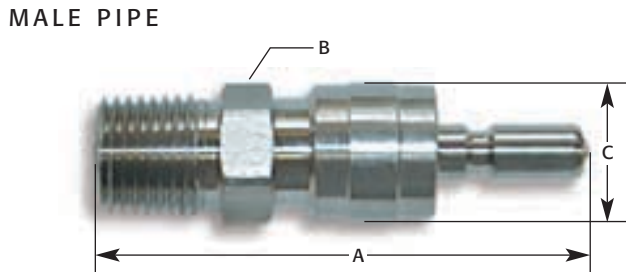
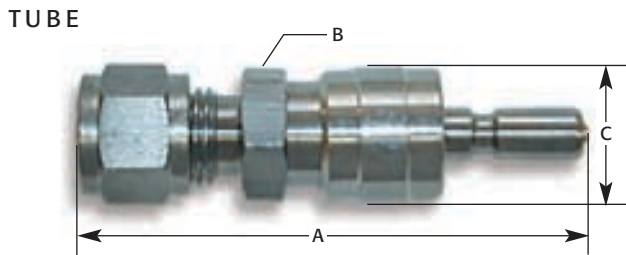
SWAGELOK-PARKER INTERCHANGE

INSTRUMENTATION



Instrumentation Quick Connects

INSTRUMENTATION PLUGS, NON VALVED SINGLE END SHUT OFF



SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-S-2-316	2.95	0.56	0.62
QC4	1/4	1/4	QC4-S-4	2.42	0.56	0.62
QC4	1/4	1/4	QC4-S-4-316	2.42	0.56	0.62
QC6	3/8	3/8	QC6-S-6	2.60	0.69	0.74
QC6	3/8	3/8	QC6-S-6-316	2.60	0.69	0.74
QC8	1/2	1/2	QC8-S-8	3.15	0.88	0.88
QC8	1/2	1/2	QC8-S-8-316	3.15	0.88	0.88

SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-S-2M	2.06	0.56	0.62
QC4	1/4	1/8	QC4-S-2M-316	2.06	0.56	0.62
QC4	1/4	1/4	QC4-S-4M	2.24	0.56	0.62
QC4	1/4	1/4	QC4-S-4M-316	2.24	0.56	0.62
QC6	3/8	1/4	QC6-S-4M	2.34	0.75	0.74
QC6	3/8	1/4	QC6-S-4M-316	2.34	0.75	0.74
QC6	3/8	3/8	QC6-S-6M	2.34	0.75	0.74
QC6	3/8	3/8	QC6-S-6M-316	2.34	0.75	0.74
QC8	1/2	1/2	QC8-S-8M	2.87	0.88	0.88
QC8	1/2	1/2	QC8-S-8M-316	2.87	0.88	0.88

SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-S-2F	2.21	0.56	0.62
QC4	1/4	1/8	QC4-S-2F-316	2.21	0.56	0.62
QC4	1/4	1/4	QC4-S-4F	2.34	0.75	0.62
QC4	1/4	1/4	QC4-S-4F-316	2.34	0.75	0.62
QC6	3/8	1/4	QC6-S-4F	2.51	0.75	0.74
QC6	3/8	1/4	QC6-S-4F-316	2.51	0.75	0.74
QC6	3/8	3/8	QC6-S-6F	2.53	0.88	0.74
QC6	3/8	3/8	QC6-S-6F-316	2.53	0.88	0.74
QC8	1/2	1/2	QC8-S-8F	3.12	1.06	0.88
QC8	1/2	1/2	QC8-S-8F-316	3.12	1.06	0.88

SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/4	QC4-S1-4	2.80	0.56	0.62
QC4	1/4	1/4	QC4-S1-4-316	2.80	0.56	0.62
QC6	3/8	3/8	QC6-S1-6-316	3.24	0.69	0.74

SERIES	BODY	HOSE	PART NO.	A	B HEX	C
QC6	3/8	3/8	QC6-S-6H-316	2.66	.69	.74

SERIES QC

SWAGELOK-PARKER INTERCHANGE

INSTRUMENTATION

Instrumentation Quick Connects

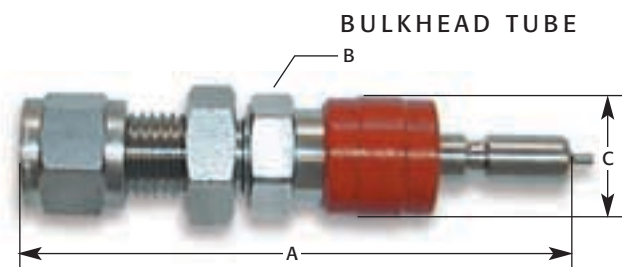
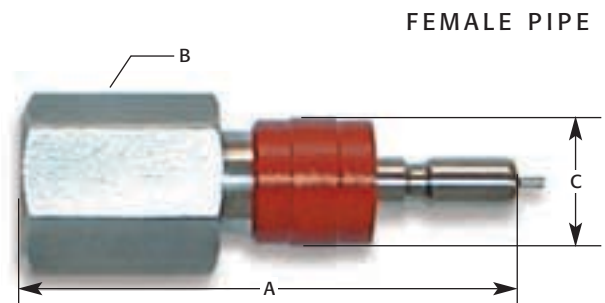
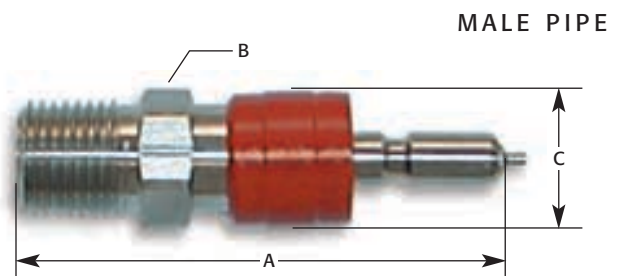
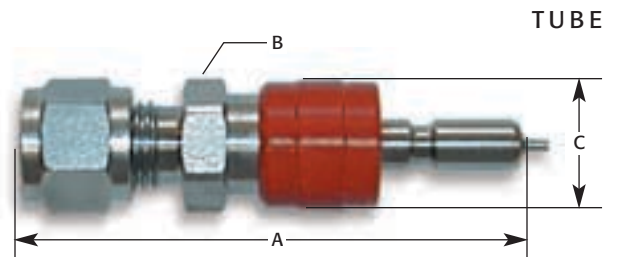
INSTRUMENTATION PLUGS, VALVED DOUBLE END SHUT OFF

SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-D-2-316	2.95	0.56	0.62
QC4	1/4	1/4	QC4-D-4	2.42	0.56	0.62
QC4	1/4	1/4	QC4-D-4-316	2.42	0.56	0.62
QC6	3/8	3/8	QC6-D-6	2.60	0.69	0.74
QC6	3/8	3/8	QC6-D-6-316	2.60	0.69	0.74
QC8	1/2	1/2	QC8-D-8	3.15	0.88	0.88
QC8	1/2	1/2	QC8-D-8-316	3.15	0.88	0.88

SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-D-2M	2.06	0.56	0.62
QC4	1/4	1/8	QC4-D-2M-316	2.06	0.56	0.62
QC4	1/4	1/4	QC4-D-4M	2.24	0.56	0.62
QC4	1/4	1/4	QC4-D-4M-316	2.24	0.56	0.62
QC6	3/8	1/4	QC6-D-4M	2.34	0.75	0.74
QC6	3/8	1/4	QC6-D-4M-316	2.34	0.75	0.74
QC6	3/8	3/8	QC6-D-6M	2.34	0.75	0.74
QC6	3/8	3/8	QC6-D-6M-316	2.34	0.75	0.74
QC8	1/2	1/2	QC8-D-8M	2.87	0.88	0.88
QC8	1/2	1/2	QC8-D-8M-316	2.87	0.88	0.88

SERIES	BODY SIZE	THREAD NPT	PART NO.	A	B HEX	C
QC4	1/4	1/8	QC4-D-2F	2.21	0.56	0.62
QC4	1/4	1/8	QC4-D-2F-316	2.21	0.56	0.62
QC4	1/4	1/4	QC4-D-4F	2.34	0.75	0.62
QC4	1/4	1/4	QC4-D-4F-316	2.34	0.75	0.62
QC6	3/8	1/4	QC6-D-4F	2.51	0.75	0.74
QC6	3/8	1/4	QC6-D-4F-316	2.51	0.75	0.74
QC6	3/8	3/8	QC6-D-6F	2.53	0.88	0.74
QC6	3/8	3/8	QC6-D-6F-316	2.53	0.88	0.74
QC8	1/2	1/2	QC6-D-8F	3.12	1.06	0.88
QC8	1/2	1/2	QC8-D-8F-316	3.12	1.06	0.88

SERIES	BODY SIZE	TUBE SIZE	PART NO.	A	B HEX	C
QC4	1/4	1/4	QC4-D1-4	2.80	0.56	0.62
QC4	1/4	1/4	QC4-D1-4-316	2.80	0.56	0.62
QC6	3/8	3/8	QC6-D1-6-316	3.24	0.69	0.74



QUICK CONNECT

COMPONENT CHART



Material Quick Connect Chart

Sample Part Number: **QC4-B1-4F-C-316-203**

QC4	B1	4	F	C	316	203
BODY SIZE	COMPONENT	PORT SIZE	PORT CONFIG.	OPTIONS	MATERIALS	SEAL OPTIONS
QC4 - 1/4	B - Body	2 - 1/8	F - Female	C - Oxygen Clean	None - Brass	201 - Viton
QC6 - 3/8	B1 - Bulkhead Body	4 - 1/4	M - Male	L - Less Nuts & Ferrules	316 - Stainless	203 - Kalrez
QC8 - 1/2	D - Plug Valved	6 - 3/8	H - Hose Barb	Kx - Keyed		204 - EP
	D1 - Plug Valved B.H.	8 - 1/2	None - Tube	1S - Low Profile Sleeve		205 - Nitrile
	S - Plug Non-valved			LV - Less Valve		206 - Neoprene
	S1 - Plug Non-valved B.H.					

Standard seal lubrication is DuPont Krytox™

Dust Quick Connects

DUST CAP DUST PLUG

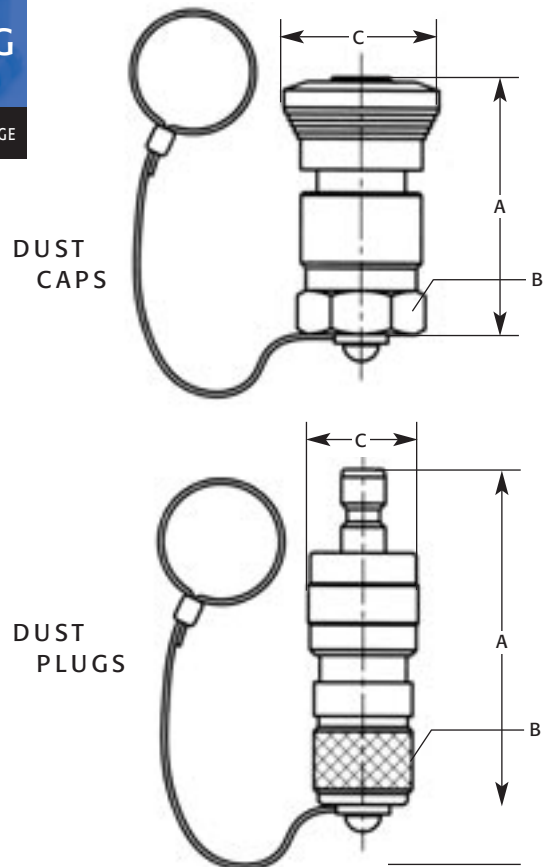
SWAGELOK-PARKER INTERCHANGE

DUST CAPS

SERIES	BODY SIZE	PART NO.	A	B HEX	C
QC4	1/4	QC4-C	1.45	0.63	0.88
QC4	1/4	QC4-C-316	1.45	0.63	0.88
QC6	3/8	QC6-C	1.45	0.75	1.00
QC6	3/8	QC6-C-316	1.45	0.75	1.00
QC8	1/2	QC8-C	1.65	0.94	1.13
QC8	1/2	QC8-C-316	1.65	0.94	1.13

DUST PLUGS

SERIES	BODY SIZE	PART NO.	A	B DIA.	C
QC4	1/4	QC4-P	1.88	0.57	0.62
QC4	1/4	QC4-P-316	1.88	0.57	0.62
QC6	3/8	QC6-P	1.98	0.63	0.74
QC6	3/8	QC6-P-316	1.98	0.63	0.74
QC8	1/2	QC8-P	2.25	0.75	0.88
QC8	1/2	QC8-P-316	2.25	0.75	0.88



“Keyed” QC Series

TOMCO “KEYED” Quick Couplers will only couple with its respective mating component. This coded system assures positive protection from accidental mixing of fluid or pressure lines. Keyed coupler and plug assemblies will only connect with its matching color and numeric coded counterpart for positive identification.

TOMCO “KEYED” Quick Coupler Series are interchangeable and intermixable with Swagelok and Parker components of the same QC style.



“KEYED” QC SERIES

KEYED QUICK COUPLERS



TOMCO COLOR CODED “KEYED” QUICK COUPLERS

KEY NUMBER AND COLOR	QC4		QC6		QC8	
	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 1 through 5 are standard stock items. For keys 6 through 8, consult factory.

Warnings

FAILURE, IMPROPER SELECTION, OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN, OR RELATED ITEMS, CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from TOMCO, its subsidiaries, and authorized distributors, provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products, or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability, and pricing, are subject to change by TOMCO and its subsidiaries at any time without notice.

Safety Guide

1. Quick couplers can fail without warning for a variety of reasons. All systems and equipment should be of a fail-safe design to avoid endangering persons and property.
2. Any person responsible for selecting or using quick couplers should read and understand this safety guide as well as specific information about product selection.
3. TOMCO and its distributors do not represent or warrant that any quick coupler is suitable for any specific end use system. The user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety, and warning requirements are met.

FLUID AND TEMPERATURE

Body and seal materials of the coupler must be compatible with the fluid media and ambient temperature both steady and transient. Do not exceed the limits of the coupler.

SIZE

Transmission of power by means of pressurized fluid varies with pressure and flow rate. The size of the coupler must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

ENVIRONMENT

Environmental conditions including, but not limited to, moisture, water, chemicals, ozone, ultraviolet radiation and air pollutants can cause degradation and premature failure.

LOCKING MECHANISM

Couplers can accidentally disconnect when dragged over obstructions on the end of a hose.

LOADS

Mechanical loads such as: excessive tensile, side loading, or vibration can reduce coupler life or cause failure.

VACUUM

When selecting a coupler for vacuum service, make sure it will withstand the vacuum and pressure of the system.

COUPLER INSTALLATION

Couplers should be located so as not to expose the operator to hot or moving parts, potential of falling, slipping, or other hazardous conditions.

HOSE WHIP

A short length of hose between the tool and the coupling half should be used instead of a rigid mount. This reduces the potential for coupler damage and provides some isolation from mechanical vibration, which could cause accidental uncoupling.

PRESSURE

Select a coupler in which the published pressure rating is equal to, or greater than, the maximum system pressure. High surge pressure can shorten the life of the coupler.

DO NOT GO NEAR FLUID LEAKS

- High pressure leaks of fluids such as oil easily puncture skin and can cause serious injury, gangrene or death.
- If injured, seek emergency medical help. Immediate surgery is required to remove oil.
- Do not use your fingers or skin to check for leaks.
- Lower load or relieve tool pressure before loosening fittings.



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Limited Warranty

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Terms and Conditions

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Design - TOMCO Products, Inc. reserves the right to alter specifications, prices, and/or dimensions without notice. Seller assumes no responsibility for revisions of models already supplied.

Returned Goods - No purchase shall be accepted for return for any reason unless our prior written authorization has been obtained. All returns are subject to handling charges. All returns must be shipped prepaid. TOMCO's sole remedy will be to credit buyers account less the restocking charge.

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Terms of Payments - 1% 10 days, net 30 days, F.O.B. Spartanburg, SC.



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