

Quick Coupling Products

Instrumentation Couplings

CPI Series



CPI Series Features

- Simple push-pull action to connect and disconnect lines—no tools required.
- Reliable, leak-tight O-ring seals for vacuum or pressure systems.
- Couplers and nipples are available valved or unvalved. Valves automatically open when connected and shut off when disconnected to minimize the loss of liquids or gases.
- Positive valve stops prevent flow checking.
- Valve guide positively aligns valve with seat to prevent leakage.
- Durable ball-locking mechanism assures reliable connection while distributing the load and providing alignment and swiveling action.
- CPI Series couplers and valved nipples are 100% factory leak tested to 1×10^{-3} cc/s.

Specifications

Vacuum Rating: Parker CPI Series will handle vacuums up to 50 millitorr or .05 mm of Hg absolute pressure.

Rated Working Pressure (PSI)			
Body Size	1/4"	3/8"	1/2"
Connected	3000	1500	750
Disconnected	3000	1500	750
Connect Under Pressure*	250	250	250

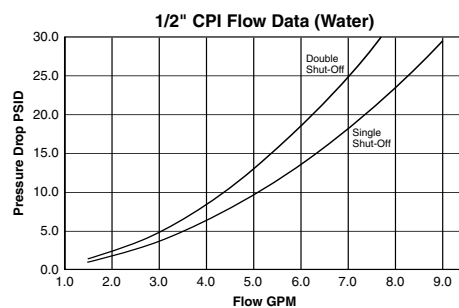
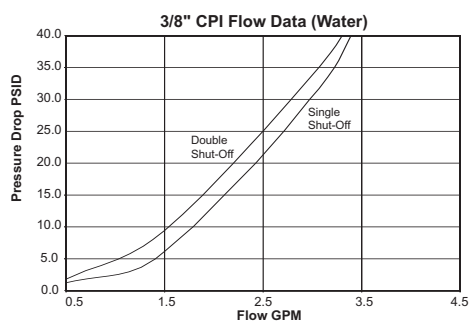
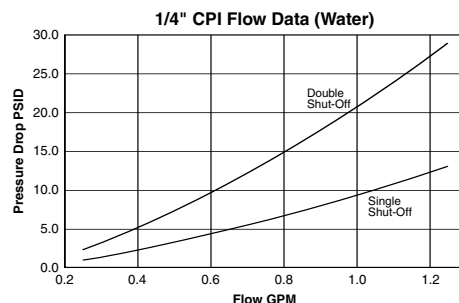
*See Glossary of Terms

Materials of Construction

Stainless Steel Products

Machined Parts:	Stainless Steel AISI type 316
Springs:	Stainless Steel AISI type 302
Locking Balls:	Stainless Steel AISI type 302
Retaining Rings:	Stainless Steel AISI type 302
Seals:	Fluorocarbon is standard Other materials available

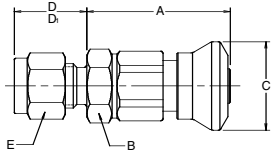
CPI Series Performance



Quick Coupling Products

Instrumentation Couplings CPI Series – Couplers

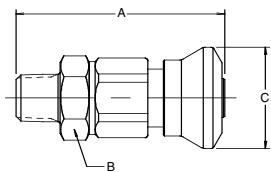
Tube Ends



Body Size	Part No. Stainless Steel	Tube Size	A	Hex B	Dia. C	D	D1	Hex E
1/4	2*-Q4CY-SSP	1/8	1.44	.62	.86	.61	.60	.44
1/4	4*-Q4CY-SSP	1/4	1.41	.62	.86	.70	.70	.56
3/8	6*-Q6CY-SSP	3/8	1.63	.75	.98	.78	.76	.69
1/2	8*-Q8CY-SSP	1/2	2.03	.94	1.17	.91	.87	.88

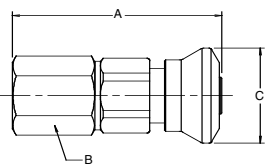
* Substitute "Z" for CPI or "A" for A-LOK®

Male Pipe



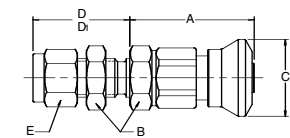
Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2M-Q4CY-SSP	1/8	1.78	.62	.86
1/4	4M-Q4CY-SSP	1/4	1.97	.62	.86
3/8	4M-Q6CY-SSP	1/4	2.19	.75	.98
3/8	6M-Q6CY-SSP	3/8	2.19	.75	.98
1/2	8M-Q8CY-SSP	1/2	2.78	.94	1.17

Female Pipe



Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2F-Q4CY-SSP	1/8	1.91	.62	.86
1/4	4F-Q4CY-SSP	1/4	2.22	.75	.86
3/8	4F-Q6CY-SSP	1/4	2.36	.75	.98
3/8	6F-Q6CY-SSP	3/8	2.38	.88	.98
1/2	8F-Q8CY-SSP	1/2	3.03	1.06	1.17

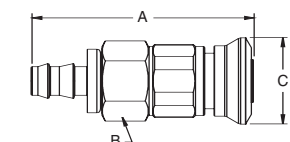
Bulkhead



Body Size	Part No. Stainless Steel	Tube Size	A	Hex B	Dia. C	D	D1	Hex E
1/4	4*H-Q4CY-SSP	1/4	1.41	.62	.86	1.09	1.09	.56
3/8	6*H-Q6CY-SSP	3/8	1.63	.75	.98	1.20	1.18	.69
1/2	8*H-Q8CY-SSP	1/2	2.03	.94	1.17	1.38	1.34	.88

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Push-Lok

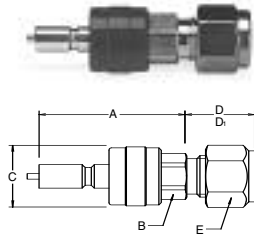


Body Size	Part No. Stainless Steel	Hose I.D.	A	Hex B	Dia. C
1/2	6PL-Q8CY-SSP	3/8	3.00	.94	1.17

Quick Coupling Products

Instrumentation Couplings CPI Series – Valved Nipples

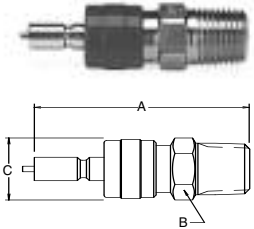
Tube Ends



Body Size	Part No. Stainless Steel	Tube Size	A	Hex B	Dia. C	D	D1	Hex E
1/4	2*-Q4VY-SS	1/8	2.45	.44	.62	.61	.60	.44
1/4	4*-Q4VY-SS	1/4	1.95	.44	.62	.70	.70	.56
3/8	6*-Q6VY-SS	3/8	2.00	.56	.74	.78	.76	.69
1/2	8*-Q8VY-SS	1/2	2.45	.75	.88	.91	.87	.88

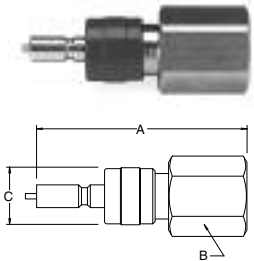
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Male Pipe



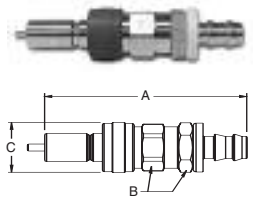
Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2M-Q4VY-SS	1/8	2.58	.44	.62
1/4	4M-Q4VY-SS	1/4	2.24	.56	.62
3/8	4M-Q6VY-SS	1/4	2.15	.56	.74
3/8	6M-Q6VY-SS	3/8	2.30	.75	.74
1/2	8M-Q8VY-SS	1/2	2.84	.88	.88

Female Pipe



Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2F-Q4VY-SS	1/8	2.04	.56	.62
1/4	4F-Q4VY-SS	1/4	2.25	.75	.62
3/8	4F-Q6VY-SS	1/4	2.28	.75	.74
1/2	8F-Q8VY-SS	1/2	2.87	1.06	.88

Push-Lok

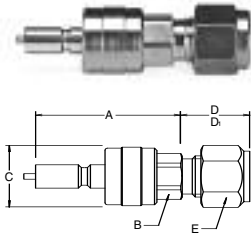


Body Size	Part No. Stainless Steel	Hose I.D.	A	Hex B	Dia. C
1/2	6PL-Q8VY-SS	3/8	3.56	.75	.88

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Instrumentation Couplings CPI Series – Non-Valved Nipples

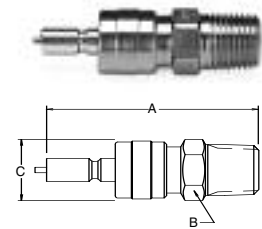
Tube Ends



Body Size	Part No. Stainless Steel	Tube Size	A	Hex B	Dia. C	D	D1	Hex E
1/4	2*-Q4P-SS	1/8	2.45	.44	.62	.61	.60	.44
1/4	4*-Q4P-SS	1/4	1.95	.44	.62	.70	.70	.56
3/8	6*-Q6P-SS	3/8	2.00	.56	.74	.78	.76	.69
1/2	8*-Q8P-SS	1/2	2.45	.75	.88	.91	.87	.88

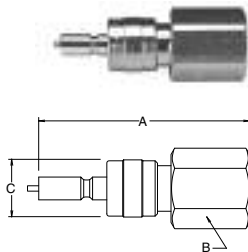
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Male Pipe



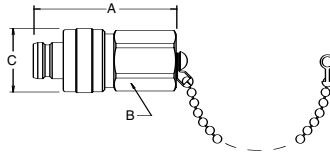
Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2M-Q4P-SS	1/8	2.58	.44	.62
1/4	4M-Q4P-SS	1/4	2.24	.56	.62
3/8	4M-Q6P-SS	1/4	2.15	.56	.74
3/8	6M-Q6P-SS	3/8	2.30	.75	.74
1/2	8M-Q8P-SS	1/2	2.84	.88	.88

Female Pipe



Body Size	Part No. Stainless Steel	Thread Size/NPT	A	Hex B	Dia. C
1/4	2F-Q4P-SS	1/8	2.04	.56	.62
1/4	4F-Q4P-SS	1/4	2.25	.75	.62
3/8	4F-Q6P-SS	1/4	2.28	.75	.74
1/2	8F-Q8P-SS	1/2	2.87	1.06	.88

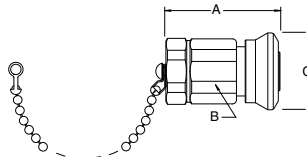
Coupler Protectors



Body Size	Part Number	A	Hex B	Dia. C
1/4	CP-Q4C-SS	1.75	.44	.62
3/8	CP-Q6C-SS	1.78	.56	.74
1/2	CP-Q8C-SS	1.94	.69	.88

Protectors are not pressure containing

Nipple Protectors

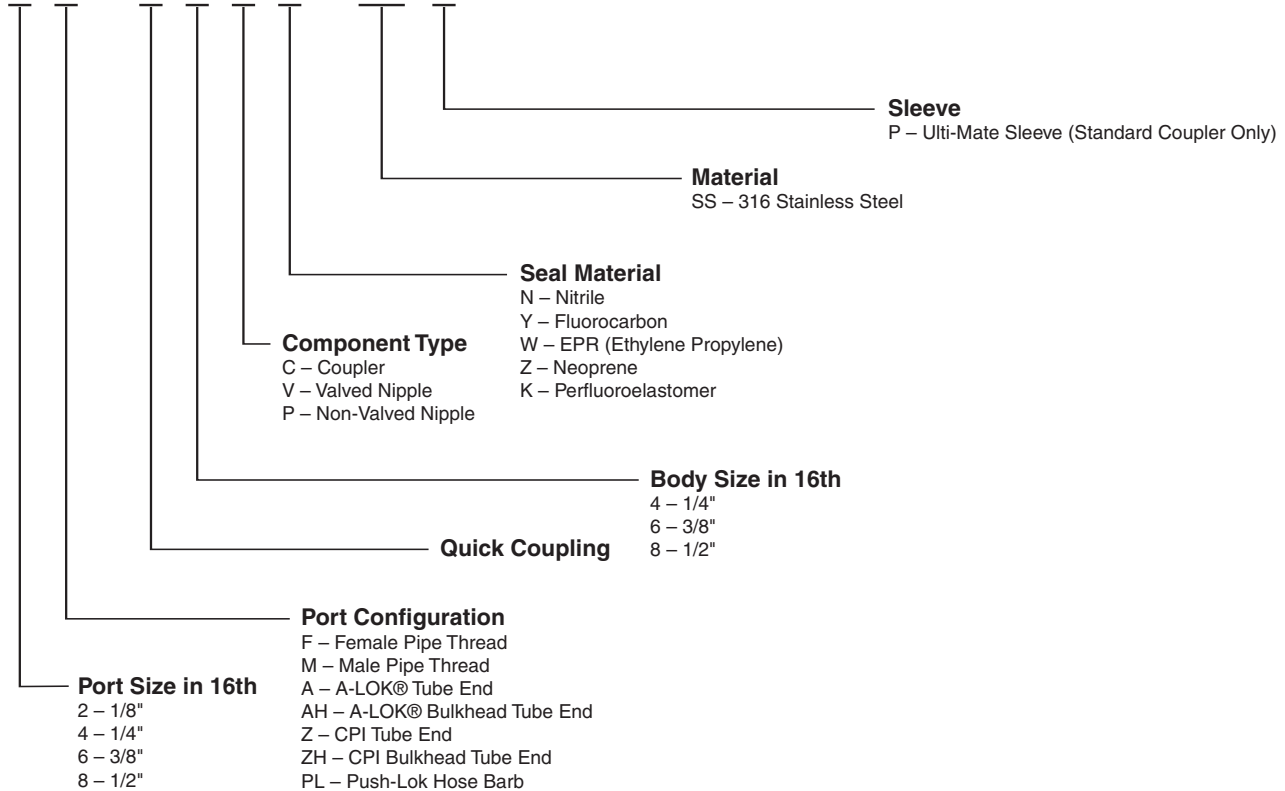


Body Size	Part Number	A	Hex B	Dia. C
1/4	VP-Q4V-SSP	1.37	.62	.86
3/8	VP-Q6V-SSP	1.44	.75	.98
1/2	VP-Q8V-SSP	1.72	.94	1.17

Protectors are not pressure containing

Ordering Information

4 M - Q 4 C N - SS P



Note: Some options are non-standards and will need to be quoted on special basis.