

Specifications

Pressure: Vacuum to 250 psi, 17.3 bar

Temperature:

-40°F to 180°F (-40°C to 82°C)

(High temperature versions available with ratings

to 400°F)

Materials:

Main components: Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve springs: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Finish: Chrome

Tubing Sizes:

1/4" to 3/8" ID, 6.4mm to 9.5mm ID

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder's products in their own application conditions.

temperature versions mperature versions with available with ratings to 400°F Call Customer Service for more information.

Colder's LC Series chrome-plated brass couplings are built tough and made to last in the most demanding applications. Ideal for use with higher temperature or pressure, the LC Series features a one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations to mate with both the PLC acetal and PLC12 polypropylene couplings.

Features

Brass material

Chrome plating High temperature capability Colder thumb latch Compatible

Benefits

Durable construction withstands higher pressure and temperature

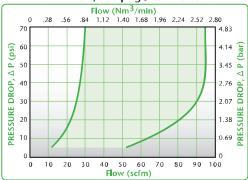
Attractive appearance

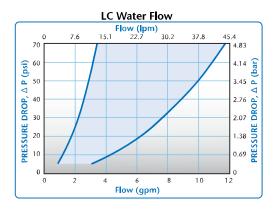
Versions rated to 400°F (204°C)

One-hand connection and disconnection

LC mates with PLC Series couplings

LC Air Flow, 100 psig Inlet Pressure





These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

Liquid Flow Rates

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for Colder couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula to the right.

$$Q = C_V \sqrt{\frac{\Delta P}{S}}$$

Q=Flow rate in gallons per minute C_{γ} =Average coefficient across various flow rates (see chart) Δ P=Pressure drop across coupling (psi) S=Specific gravity of liquid

C_v Values for 1/4" Flow LC Couplings

BODIES	LC 20004	LCD 20004	LC 20006	LCD 20006	LC 22004	LCD 22004	LC 22006	LCD 22006	LC 24004	LCD 24004	LC 24006	LCD 24006	LC 26004
LC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
LCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
LC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
LCD10006	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
LC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
LCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
LC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
LCD16004	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
LC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
LCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

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DID YOU KNOW ...

O-ring selection is a key decision in determining which connector will perform best in your specific application. Understanding the material characteristics and how they can be affected by both the media being transferred and the environment in which the connector is being used is important.

Buna-N is the most common o-ring seal due to its solvent, oil and water resistance. Temperature range is -30°F to 250°F.

FKM is best suited for applications where chemical resistance and/or high temperatures are a requirement. The temperature range is -15°F to 400°F.

EPDM has excellent resistance to polar solvents. This o-ring is not compatible with petroleum. The temperature range is -70°F to 300°F.

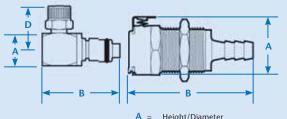
Silicone seals have good temperature resistance. The temperature range is -70°F to 400°F and with special compounds can reach 175°F to 450°F. Silicone can also be supplied with Class VI requirements for medical/bioprocessing applications.

For further information about which o-ring is best suited for your application, please contact Colder Customer Service at 1-800-444-2474 or 651-645-0091.

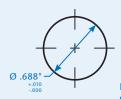


LEHENGOAK, S. A.

Product Dimensions



- Height/Diameter
- Total Length (including valve)
- Elbow Radial Length



COUPLING BODIES COUPLING INSERTS

PANEL MAX. PANEL **OPENING THICKNESS** see drawing .50

.090

MIN. PANEL **THICKNESS** .05

.300



PANEL PANEL NUT HEX NUT THREAD 11/16-24 UNF 13/16

see drawing

Coupling Bodies

CHROME-PLATED BRASS





TERMINATION IN-LINE **FERRULELESS** POLYTUBE FITTING,

TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID

6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID

STRAIGHT THRU LC13004 LC13006

SHUTOFF LCD13004 LCD13006

.88 1.87 .88 2.00



TERMINATION HOSE BARB

TUBING SIZE 1/4" ID 5/16" ID 3/8" ID

METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID

STRAIGHT THRU LC17004 LC17005

LC17006

SHUTOFF LCD17004 LCD17005 LCD17006 .88 2.00 .88 2.00 2.00 .88

Also available in NSF listed versions, please visit our web site for part number information

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.







Coupling Inserts

CHROME-PLATED BRASS

			CIVIL				
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT		STRAIGHT THRU LC24004 LC24004BSPT LC24006 LC24006BSPT	SHUTOFF LCD24004 LCD24004BSPT LCD24006 LCD24006BSPT	.87	B 1.25/1.68 1.25/1.68 1.25/1.55 1.25/1.55	O TOTAL STATE OF THE PARTY OF T
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 1/4" NPT Female 1/4" BSPP Female		STRAIGHT THRU LC26004 LC26004BSPP	SHUTOFF LCD26004 LCD26004BSPP	A .72 .72	B 1.25/1.90 1.25/1.75	
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC40004 LC40006	SHUTOFF LCD40004 LCD40006	A .94 .94	B 1.83/1.98 1.96/2.11	
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU LC42004 LC42005 LC42006	SHUTOFF LCD42004 LCD42005 LCD42006	A .94 .94 .94	B 1.96/2.11 1.96/2.11 1.96/2.11	
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC20004 LC20006	SHUTOFF LCD20004 LCD20006	A .72 .72	B 1.25/1.87 1.38/1.83	OFILE
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU LC22004 LC22005 LC22006	SHUTOFF LCD22004 LCD22005 LCD22006	A .63 .63 .63	B 1.35/2.00 1.35/1.85 1.35/1.83	
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC21004 LC21006	SHUTOFF LCD21004 LCD21006	A .63 .63	B D 1.28/1.43 .96 1.28/1.43 .83	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU LC23004 LC23006	SHUTOFF LCD23004 LCD23006		B D 1.28/1.43 1.28 1.28/1.43 1.28	



LC Series couplings can mate with PLC and PLC12 plastic couplings? See pages 38-45 for more information.



All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

