



LC SERIES

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-ring: 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.

Note: High temperature versions 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 when higher temperature or pressure is present, 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.

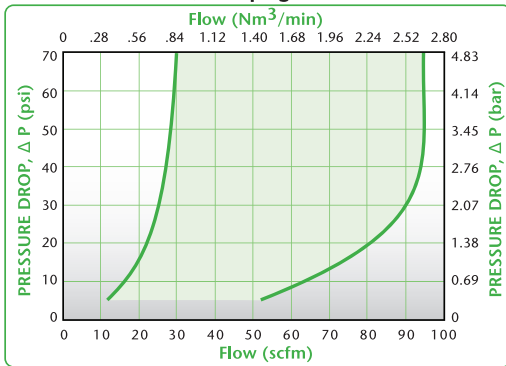
Features

- Brass material
- Chrome plating
- High temperature capability
- Colder thumb latch
- Compatible

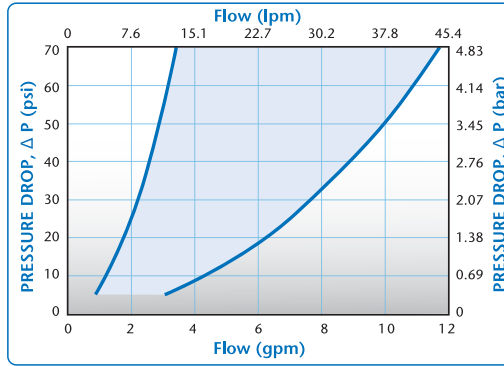
Benefits

- 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



LC Water Flow



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_v=Average coefficient across various flow rates (see chart)
 ΔP=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



DID YOU KNOW ...

O-ring selection is a key decision when determining which connector will perform best in your specific application. It's important that you understand 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:

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

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








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

Food-grade material is used when food is being transferred through the connector.

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

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

CHROME-PLATED BRASS

TERMINATION <i>IN-LINE</i> PIPE THREAD	THREAD SIZE		STRAIGHT THRU	SHUTOFF	A	B		
	1/4" NPT		LC24004	LCD24004	.72	1.25/1.68		
	1/4" NPT Female		LC26004	LCD26004	.72	1.25/1.90		
	1/4" BSPT		LC24004BSPT	LCD24004BSPT	.72	1.25/1.68		
	1/4" BSPP Female		LC26004BSPP	LCD26004BSPP	.72	1.25/1.75		
	3/8" NPT		LC24006	LCD24006	.87	1.25/1.55		
3/8" BSPT		LC24006BSPT	LCD24006BSPT	.87	1.25/1.55			
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC40004	LCD40004	.94	1.83/1.98		
	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC40006	LCD40006	.94	1.96/2.11		
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/4" ID	6.4mm ID	LC42004	LCD42004	.94	1.96/2.11		
	5/16" ID	7.9mm ID	LC42005	LCD42005	.94	1.96/2.11		
3/8" ID	9.5mm ID	LC42006	LCD42006	.94	1.96/2.11			
TERMINATION <i>IN-LINE</i> FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC20004	LCD20004	.72	1.25/1.87		
	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC20006	LCD20006	.72	1.38/1.83		
TERMINATION <i>IN-LINE</i> HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/4" ID	6.4mm ID	LC22004	LCD22004	.63	1.35/2.00		
	5/16" ID	7.9mm ID	LC22005	LCD22005	.63	1.35/1.85		
3/8" ID	9.5mm ID	LC22006	LCD22006	.63	1.35/1.83			
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D	
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC21004	LCD21004	.63	1.28/1.43	.96	
	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC21006	LCD21006	.63	1.28/1.43	.83	
TERMINATION ELBOW HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D	
	1/4" ID	6.4mm ID	LC23004	LCD23004	.63/.62	1.28/1.43	1.28	
3/8" ID	9.5mm ID	LC23006	LCD23006	.63/.62	1.28/1.43	1.28		



DID YOU KNOW ...

LC Series couplings can mate with PLC and PLC12 plastic couplings? See pages 30-37 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.



Call toll free 1-800-444-2474 or visit us at www.colder.com

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