

PLC Series

Material: Acetal

The 1/4" flow PLC Series is the most popular group of couplings from CPC. Proven worldwide in thousands of applications, the PLC line offers the widest selection of sizes and configurations. PLC couplings are injection molded from acetal thermoplastic, are durable and resistant to most mild chemical solutions. One-handed connection/disconnection, plus integral terminations make the PLC Series the choice for ease of use and manufacture.



Applications may include:

- Floor cleaning equipment
- Deionized water filtration
- Beverage dispensing
- Automated machinery
- Compression therapy
- Leak detection

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

CPC thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Clicks when connected	Assurance of a reliable connection
Compatible	Mates with LC Series couplings

Coupling Bodies

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	PLC10004	PLCD10004	1.17	.50	5/8
1/4" BSPT	PLC10004BSPT	PLCD10004BSPT	1.15	.50	3/4
3/8" NPT	PLC10006	PLCD10006	1.15	.50	3/4
3/8" BSPT	PLC10006BSPT	PLCD10006BSPT	1.15	.50	3/4

Panel Mount

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLC12004	PLCD12004	1.87	.52	11/16-24UNEF	.70	3/4	13/16	.02	.50
	8mm OD 6mm ID	PLC120M8	PLCD120M8	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC12006	PLCD12006	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50
	10mm OD 8mm ID	PLC120M10	PLCD120M10	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" ID	6.4mm ID	PLC16004	PLCD16004	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50
5/16" ID	7.9mm ID	PLC16005	PLCD16005	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50
3/8" ID	9.5mm ID	PLC16006	PLCD16006	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50

JG® Push-To-Connect

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	F	G	H	I	Q
1/4" OD	6.4mm OD	PLC11004	PLCD11004	1.95	11/16-24UNEF	.70	3/4	.02	.50

In-Line

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLC13004	PLCD13004	.93	1.82	.52	7/16
	8mm OD 6mm ID	PLC130M8	PLCD130M8	.93	1.95	.65	9/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC13006	PLCD13006	.93	1.95	.65	9/16
	10mm OD 8mm ID	PLC130M10	PLCD130M10	.93	1.95	.65	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	PLC17004	PLCD17004	.93	1.95	.65
5/16" ID	7.9mm ID	PLC17005	PLCD17005	.93	1.95	.65
3/8" ID	9.5mm ID	PLC17006	PLCD17006	.93	1.95	.65

JG® Push-To-Connect

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C
1/4" OD	6.4mm OD	PLC14004	PLCD14004	.93	1.95
3/8" OD	9.5mm OD	PLC14006	PLCD14006	.93	2.09

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

NOTE: JG is a registered trademark of John Guest USA, Inc.

†NOTE: CPC's ferruleless PTF (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.



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PLC Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: -40° F to 180° F continuous
-40° C to 82° C continuous

Materials:

Main components and valves: Acetal

Thumb latch: Stainless steel

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Color: Natural white, others available

Tubing Range: 1/4" to 3/8"
6.4mm to 9.5mm

JG® Tubing Specifications:

Tube tolerances: 1/4" OD, +0.001/-0.004
3/8" OD, +0.001/-0.004

Tube Types:

Plastic tube: Polyethylene, nylon, polyurethane

For soft or thin wall tubing with JG® terminations, tube supports are recommended.

Metal tube: Brass, copper and mild steel

Coupling Inserts

Acetal

Pipe Thread	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	H
	1/4" NPT	PLC24004	PLCD24004	1.25/1.63	.50	5/8
	1/4" BSPT	PLC24004BSPT	PLCD24004BSPT	1.53/1.63	.50	5/8
	3/8" NPT	PLC24006	PLCD24006	1.25/1.59	.50	3/4
	3/8" BSPT	PLC24006BSPT	PLCD24006BSPT	1.25/1.64	.50	3/4

Panel Mount Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	8mm OD 6mm ID	PLC40004	PLCD40004	1.78/1.91	.52/.62	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
			PLC400M8	PLCD400M8	1.91/2.03	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
3/8" OD .25" ID	9.5mm OD 6.4mm ID	10mm OD 8mm ID	PLC40006	PLCD40006	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
			PLC400M10	PLCD400M10	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" ID	6.4mm ID	8mm ID	PLC42004	PLCD42004	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
			PLC42005	PLCD42005	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
			PLC42006	PLCD42006	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84

JG® Push-To-Connect	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" OD	6.4mm OD		PLC41004	PLCD41004	1.91/2.05		11/16-24UNEF	.46	3/4	13/16	.70/84

In-Line Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	8mm OD 6mm ID	PLC20004	PLCD20004	1.25/1.88	.52	5/8	7/16
			PLC200M8	PLCD200M8	1.38/1.82	.65	5/8	9/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	10mm OD 8mm ID	PLC20006	PLCD20006	1.38/1.82	.65	5/8	9/16
			PLC200M10	PLCD200M10	1.38/1.82	.65	5/8	9/16

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
1/4" ID	6.4mm ID	8mm ID	PLC22004	PLCD22004	.62	1.35/1.99	.65	5/8
			PLC22005	PLCD22005	.62	1.35/1.99	.65	5/8
			PLC22006	PLCD22006	.62	1.36/1.81	.65	5/8

JG® Push-To-Connect	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C
1/4" OD	6.4mm OD	8mm OD	PLC29004	PLCD29004	.63	1.35/1.95
			PLC29006	PLCD29006	.78	1.51/2.11

Elbow Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	J	R
3/8" OD .25" ID	9.5mm OD 6.4mm ID		PLC21006	PLCD21006	1.22/1.35	.65	9/16	.85/.96

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
1/4" ID	6.4mm ID	8mm ID	PLC23004	PLCD23004	1.10/1.28	.65	.85/.96
			PLC23006	PLCD23006	1.25/1.28	.65	.90/.96

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

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†NOTE: CPC's ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure fitting, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.



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