

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.



FEATURES

CPC thumb latch

Integral terminations

Clicks when connected

Compatible

BENEFITS

One-hand connection and disconnection

Fewer leak points, shorter assemblies, faster installations

Assurance of a reliable connection

Mates with LC Series couplings

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.

Coupling Bodies

Acetal

Pipe Thread

THREAD SIZE

1/4" NPT
1/4" BSPT
3/8" NPT
3/8" BSPT

STRAIGHT THRU

PLC10004
PLC10004BSPT
PLC10006
PLC10006BSPT

SHUTOFF

PLCD10004
PLCD10004BSPT
PLCD10006
PLCD10006BSPT

C

G

H

1.17 .50 5/8
1.15 .50 3/4
1.15 .50 3/4
1.15 .50 3/4

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
8mm OD 6mm ID
9.5mm OD 6.4mm ID
10mm OD 8mm ID

STRAIGHT THRU

PLC12004
PLC120M8
PLC12006
PLC120M10

SHUTOFF

PLCD12004
PLCD120M8
PLCD12006
PLCD120M10

C

D

F

G

H

I

J

Q

1.87 .52 11/16-24UNEF .70 3/4 13/16 .02 .50
1.95 .65 11/16-24UNEF .70 3/4 13/16 .02 .50
1.95 .65 11/16-24UNEF .70 3/4 13/16 .02 .50
1.95 .65 11/16-24UNEF .70 3/4 13/16 .02 .50

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

PLC16004
PLC16005
PLC16006

SHUTOFF

PLCD16004
PLCD16005
PLCD16006

C

D

F

G

H

I

Q

1.95 .65 11/16-24UNEF .70 3/4 .02 .50
1.95 .65 11/16-24UNEF .70 3/4 .02 .50
1.95 .65 11/16-24UNEF .70 3/4 .02 .50

JG® Push-To-Connect

TUBING SIZE

1/4" OD

METRIC EQ.

6.4mm OD

STRAIGHT THRU

PLC11004

SHUTOFF

PLCD11004

C

F

G

H

I

Q

1.95 11/16-24UNEF .70 3/4 .02 .50

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
8mm OD 6mm ID
9.5mm OD 6.4mm ID
10mm OD 8mm ID

STRAIGHT THRU

PLC13004
PLC130M8
PLC13006
PLC130M10

SHUTOFF

PLCD13004
PLCD130M8
PLCD13006
PLCD130M10

B

C

D

J

.93 1.82 .52 7/16
.93 1.95 .65 9/16
.93 1.95 .65 9/16
.93 1.95 .65 9/16

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

PLC17004
PLC17005
PLC17006

SHUTOFF

PLCD17004
PLCD17005
PLCD17006

B

C

D

.93 1.95 .65
.93 1.95 .65
.93 1.95 .65

JG® Push-To-Connect

TUBING SIZE

1/4" OD
3/8" OD

METRIC EQ.

6.4mm OD
9.5mm OD

STRAIGHT THRU

PLC14004
PLC14006

SHUTOFF

PLCD14004
PLCD14006

B

C

.93 1.95
.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	PLC40004	PLCD40004	1.78/1.91	.52/.62	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
		8mm OD 6mm ID	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	PLC40006	PLCD40006	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
		10mm OD 8mm ID	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	PLC42004	PLCD42004	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
	5/16" ID	7.9mm ID	PLC42005	PLCD42005	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
	3/8" ID	9.5mm ID	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	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	PLC20004	PLCD20004	1.25/1.88	.52	5/8	7/16
		8mm OD 6mm ID	PLC200M8	PLCD200M8	1.38/1.82	.65	5/8	9/16
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC20006	PLCD20006	1.38/1.82	.65	5/8	9/16
		10mm OD 8mm ID	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	PLC22004	PLCD22004	.62	1.35/1.99	.65	5/8
	5/16" ID	7.9mm ID	PLC22005	PLCD22005	.62	1.35/1.99	.65	5/8
	3/8" ID	9.5mm ID	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	PLC29004	PLCD29004	.63	1.35/1.95
	3/8" OD	9.5mm OD	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	PLC23004	PLCD23004	1.10/1.28	.65	.85/.96
	3/8" ID	9.5mm ID	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 connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.