

EVERIS™ PLQ4 SERIES CONNECTOR

Everis™ PLQ4 Series quick disconnect couplings are purpose-built for liquid cooling of electronics applications and offer a high-flow capacity to optimize thermal management system performance. Made of PPSU, a high-performance, engineered thermoplastic, Everis PLQ4 connectors are lightweight, and not susceptible to galvanic corrosion. With an ergonomic thumb latch, Everis PLQ4 are easy to use. The couplings' patented design offers reliable long-term connections and the non-spill valves provide drip-free connections and disconnections to protect sensitive equipment.



SPECIFICATIONS

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

Operating: 0°F to 240°F (-17°C to 115°C)

Storage/Shipping:

-40°F to 240°F (-40°C to 115°C)

MATERIALS:

Main Components: Polyphenylsulfone PPSU

Valves and Thumb latch: PPSU

Valve Springs (wetted): Stainless steel

External spring: Stainless steel

Seals: EPDM

Seal Spacer: PTFE

Compliance: RoHS, REACH

COLOR:

Matte Black with Cool Blue or Warm Red

TUBING SIZES:

1/4" to 3/8" ID (6.4mm to 9.5mm ID)

LUBRICANTS:

Krytox® PFPE

SPILLAGE:

<0.025 cc per disconnect at 0 psi

<0.055 cc per disconnect rated at 120 psi

AIR INCLUSION:

0.20 cc per connect

FLOW COEFFICIENT:

$C_v \sim 1.4$ (1.2Kv)

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

FEATURES

Made of high-performance PPSU material

Non-spill valve

High flow to size ratio with low pressure drop

Ergonomic body and latch design

Audible click upon connection

Robust product testing

Color coding

Shrouded latch protection

BENEFITS

Lightweight, durable and chemically compatible with widely used liquid cooling fluids; UL94 V0 flame retardant

Disconnect under pressure with no spills

Increased cooling efficiency in small spaces

Simple, intuitive one-handed operation

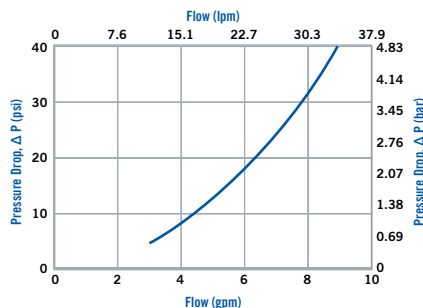
Provides connection assurance

High durability and reliability in long-use applications

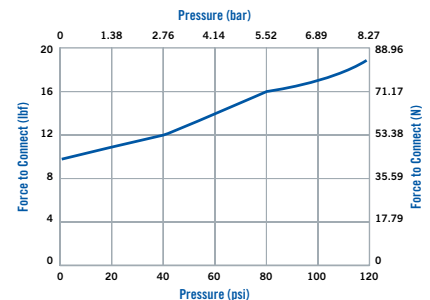
Instant visual identification of cooling lines

Prevention from accidental disconnect

PLQ4 WATER FLOW (0-20 GPM)




PLQ4 FORCE TO CONNECT



These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.


EVERIS™ PLQ4 SERIES DIMENSIONS

COUPLING BODIES - Polyphenylsulfone PPSU



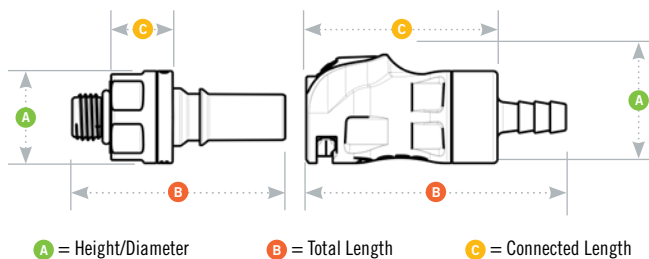
TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	PART NO.	A	B	C	TORQUE ³
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	PLQ4D17004RED	1.03 (26.1)	2.47 (62.6)	1.82 (46.1)	N/A
	1/4" ID	6.4mm ID	PLQ4D17004BLU	1.03 (26.1)	2.47 (62.6)	1.82 (46.1)	N/A
	3/8" ID	9.5mm ID	PLQ4D17006RED	1.03 (26.1)	2.47 (62.6)	1.82 (46.1)	N/A
	3/8" ID	9.5mm ID	PLQ4D17006BLU	1.03 (26.1)	2.47 (62.6)	1.82 (46.1)	N/A
IN-LINE LOCKING HOSE BARB	3/8" ID	9.5mm ID	PLQ4D17006LRED	1.03 (26.1)	2.69 (68.3)	1.82 (46.1)	N/A
	3/8" ID	9.5mm ID	PLQ4D17006LBLU	1.03 (26.1)	2.69 (68.3)	1.82 (46.1)	N/A
IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ^{1,3}	N/A	PLQ4D30004RED	1.03 (26.1)	2.19 (55.5)	1.83 (46.4)	12 lb-in
	1/4 SAE-4: 7/16-20 ^{1,3}	N/A	PLQ4D30004BLU	1.03 (26.1)	2.19 (55.5)	1.83 (46.4)	12 lb-in
	3/8 SAE-6: 9/16-18 ^{1,3}	N/A	PLQ4D30006RED	1.03 (26.1)	2.22 (56.3)	1.83 (46.4)	12 lb-in
	3/8 SAE-6: 9/16-18 ^{1,3}	N/A	PLQ4D30006BLU	1.03 (26.1)	2.22 (56.3)	1.83 (46.4)	12 lb-in
IN-LINE STRAIGHT THREAD G / BSPP	G 1/4 ^{2,3}	N/A	PLQ4D31004RED	1.03 (26.2)	2.28 (57.9)	1.90 (48.3)	12 lb-in
	G 1/4 ^{2,3}	N/A	PLQ4D31004BLU	1.03 (26.2)	2.28 (57.9)	1.90 (48.3)	12 lb-in

COUPLING INSERTS - Polyphenylsulfone PPSU



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	PART NO.	A	B	C	TORQUE ³
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	PLQD4D22004RED	0.87 (22.1)	2.30 (58.4)	0.58 (14.8)	N/A
	1/4" ID	6.4mm ID	PLQD4D22004BLU	0.87 (22.1)	2.30 (58.4)	0.58 (14.8)	N/A
	3/8" ID	9.5mm ID	PLQD4D22006RED	0.87 (22.1)	2.30 (58.4)	0.58 (14.8)	N/A
	3/8" ID	9.5mm ID	PLQD4D22006BLU	0.87 (22.1)	2.30 (58.4)	0.58 (14.8)	N/A
IN-LINE LOCKING HOSE BARB	3/8" ID	9.5mm ID	PLQD4D22006LRED	0.87 (22.1)	2.53 (64.2)	0.58 (14.8)	N/A
	3/8" ID	9.5mm ID	PLQD4D22006LBLU	0.87 (22.1)	2.53 (64.2)	0.58 (14.8)	N/A
IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ^{1,3}	N/A	PLQD4D46004RED	0.87 (22.1)	2.02 (51.3)	0.59 (15.1)	12 lb-in
	1/4 SAE-4: 7/16-20 ^{1,3}	N/A	PLQD4D46004BLU	0.87 (22.1)	2.02 (51.3)	0.59 (15.1)	12 lb-in
	3/8 SAE-6: 9/16-18 ^{1,3}	N/A	PLQD4D46006RED	0.87 (22.1)	2.02 (51.3)	0.59 (15.1)	12 lb-in
	3/8 SAE-6: 9/16-18 ^{1,3}	N/A	PLQD4D46006BLU	0.87 (22.1)	2.02 (51.3)	0.59 (15.1)	12 lb-in
IN-LINE STRAIGHT THREAD G / BSPP	G 1/4 ^{2,3}	N/A	PLQD4D47004RED	0.87 (22.1)	2.11 (53.6)	0.67 (17)	12 lb-in
	G 1/4 ^{2,3}	N/A	PLQD4D47004BLU	0.87 (22.1)	2.11 (53.6)	0.67 (17)	12 lb-in

PRODUCT DIMENSIONS



All measurements are in inches (millimeters) unless otherwise noted.

¹All SAE terminations are compatible with SAE J1926-1 ports.

²All G (BSPP) terminations are compatible with ISO 1179-1 ports.

³Do not exceed torque value due to potential damage to coupling. User should consider application factors such as mating material, media, temperature, etc. when implementing an installation torque specification for the product.



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