APC SERIES CONNECTOR



Specifications • • •

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: -40°F to 180°F (-40°C to 82°C)

MATERIALS:

Main components and valves: Acetal Thumb latch: Acetal Valve springs: 316 stainless steel External springs and pin: Stainless steel

0-rings: Buna-N

COLOR: Natural white with light gray latch

TUBING SIZES:

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

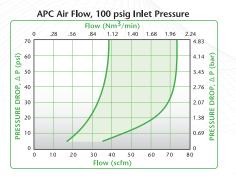
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

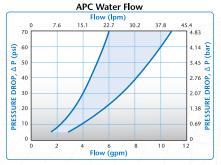
The 1/4" flow APC Series couplings feature a plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow in a compact size. The APC Series includes couplings with valves and thumb latch shrouds. A more rugged design on some models adds durability to increase the APC's application range.

FEATURES	BENEFITS
Plastic thumb latch	No exposed metal parts
Shrouded thumb latch	Protects against accidental disconnects
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Compatibility	Mates with most EFC couplings

Also available in NSF listed versions, please visit our website for part number information.

NSF





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.

DID YOU KNOW?

THE SHELF LIFE OF A CONNECTOR IS DEPENDENT UPON THE CONNECTOR MATERIALS AND THE STORAGE CONDITIONS. CPC manufactures quick disconnect couplings

and connections made from a variety of metal, plastic and elastomeric raw materials. In general, it is best to store any CPC product in an environment shielded from light at a temperature between 50°F and 90°F.

The shelf life of CPC couplings and connections is estimated to be 3 years minimum if the storage conditions comply with those shown above.

Note: For product containing lubricated o-rings, the lubricant will dry out over time. Prior to use, it may be advisable to relubricate external o-rings. For product containing silicone o-rings, if lube is allowable, use of a synthetic lube is recommended.

Liquid Flow Rate Information for Couplings

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



Q = Flow rate in gallons per minute

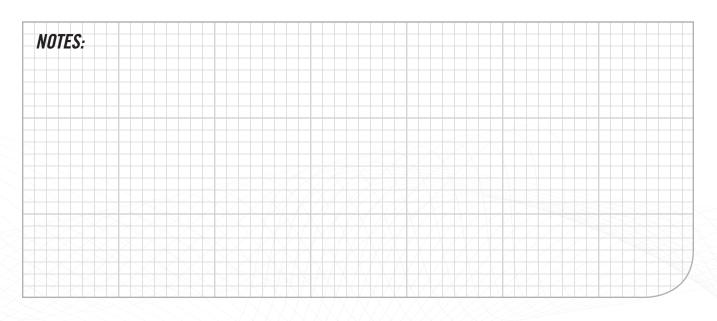
 $\mathbf{C}_{\mathbf{v}}~=~$ Average coefficient across various

flow rates (see chart)

 ΔP = Pressure drop across coupling (psi) S = Specific gravity of liquid

C_v values for APC couplings

BODIES INSERTS	APC 20004	APCD 20004	APC 20006	APCD 20006	APC 22004	APCD 22004	APC 22006	APCD 22006	APC 24004	APCD 24004	APC 24006	APCD 24006
APC10004	0.4	0.4	1.2	0.9	1.0	0.9	2.0	0.9	1.9	0.8	1.7	0.8
APCD10004	0.36	0.4	1.0	0.7	1.0	0.7	0.8	0.7	1.2	0.6	0.8	0.6
APC10006	0.4	0.4	1.2	0.9	1.2	0.7	1.8	0.9	2.0	0.9	1.7	0.8
APCD10006	0.37	0.4	1.3	0.8	0.6	0.5	1.1	0.7	1.3	0.7	1.0	0.7
APC13004SH	0.38	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4
APCD13004SH	0.38	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
APC13006SH	0.38	0.4	1.0	0.7	0.9	0.6	1.1	0.7	1.1	0.7	1.0	0.7
APCD13006SH	0.37	0.4	0.8	0.6	0.7	0.5	0.8	0.6	0.9	0.6	0.8	0.6
APC17004SH	0.38	0.4	0.8	0.6	1.0	0.7	0.9	0.7	0.8	0.6	0.7	0.6
APCD17004SH	0.38	0.4	0.7	0.5	0.8	0.6	0.7	0.6	0.7	0.5	0.6	0.5
APC17006SH	0.4	0.4	1.2	0.9	1.4	0.9	1.4	0.9	2.0	0.9	1.9	0.8
APCD17006SH	0.4	0.4	1.2	0.8	1.3	0.8	1.2	0.7	1.2	0.7	1.1	0.7

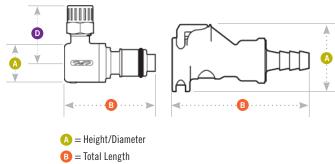


Smart fluid handling to take you forward, faster.

53

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APC DIMENSIONS



D = Elbow Radial Length

Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.05– .02	13/16	11/16-24UNF
Ø.688"	+	657" 000		

Coupling Bodies • ACETAL

8	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZ 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	'E METRIC EQ.	STRAIGHT THRU APC10004 APC10004BSPT APC10006 APC10006BSPT	SHUTOFF APCD10004 APCD10004BSPT APCD10006 APCD10006BSPT	 .93 .93 .93 .93 .93 	B 1.40 1.40 1.40 1.40 1.40
P	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC17004 APC17006		.93 .93	1.35 1.35
0	IN-LINE WITH SHROUD FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	APC13004SH APC130M8SH APC13006SH APC130M10SH	APCD13004SH APCD130M8SH APCD13006SH APCD130M10SH	1.30 1.30 1.30 1.30	1.94 2.07 2.07 2.07
0	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC17004SH APC17006SH	APCD17004SH APCD17006SH	1.30 1.30	2.07 2.07
EL.	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	APC12004 APC120M8 APC12006 APC120M10	APCD12004 APCD120M8 APCD12006 APCD120M10	1.03 1.03 1.03 1.03 1.03	1.97 2.10 2.10 2.10
FI	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	APC16004 APC16005 APC16006	APCD16004 APCD16005 APCD16006	1.03 1.03 1.03	2.10 2.10 2.10

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. tNOTE: CPC'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.

Accessories

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above

MATERIAL PART NO. Buna-N 1830300

Coupling Inserts • ACETAL

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZ 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	E METRIC EQ.	STRAIGHT THRU APC24004 APC24004BSPT APC24006 APC24006BSPT	SHUTOFF APCD24004 APCD24004BSPT APCD24006 APCD24006BSPT	A .72 .72 .72 .72 .72	B 1.43/1.77 1.63/1.77 1.50/1.64 1.51/1.65	D
1	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	APC20004 APC200M8 APC20006 APC200M10	APCD20004 APCD200M8 APCD20006 APCD200M10	.72 .72 .72 .72 .72	1.86/1.99 1.79/1.93 1.78/1.91 1.79/1.93	
	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC22004 APC22006	APCD22004 APCD22006	.60/.72 .63/.72	1.40/2.10 1.40/1.92	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	APC21004 APC21006	APCD21004 APCD21006	1.22 1.27	1.32/1.45 1.33/1.46	.91 .96
	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC23004 APC23006	APCD23004 APCD23006	.63 .63	1.20/1.45 1.20/1.50	.96 .96

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: CPC'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.

 Smart fluid handling to take you forward, faster.

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 55



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