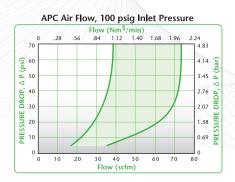
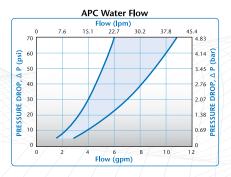


The 1/4" flow APC Series couplings feature a plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow in a compact size. The APC Series includes couplings with valves and thumb latch shrouds. A more rugged design on some models adds durability to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





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

O-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.

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

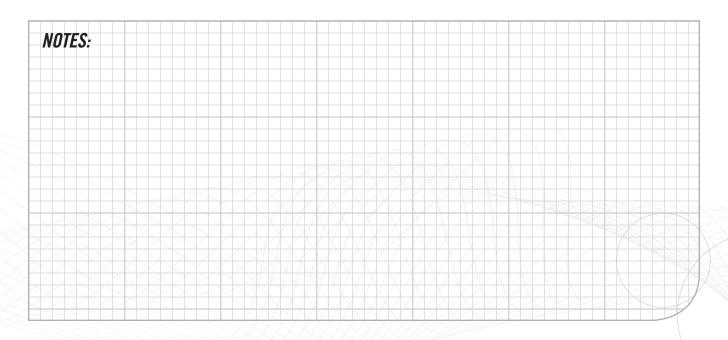
The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.



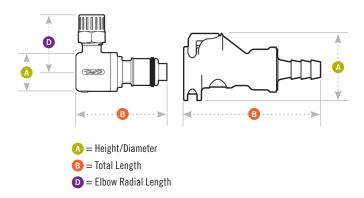
- Q = Flow rate in gallons per minute
- $\mathbf{C}_{\mathbf{v}} = \mathbf{A} \text{verage coefficient across various}$ flow rates (see chart)
- ΔP = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

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 |



APC DIMENSIONS

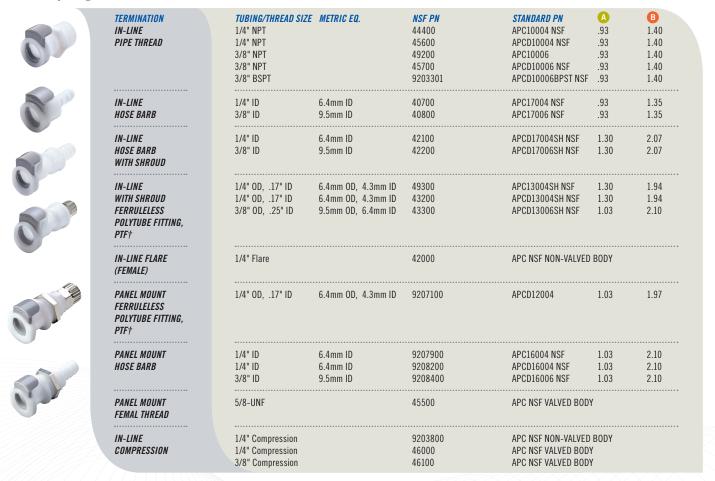


Panel Dimensions

| | PANEL | PANEL THICKNESS | PANEL | PANEL NUT |
|-----------------|-------------|-----------------|---------|-------------|
| | OPENING | MAXMIN. | NUT HEX | THREAD |
| COUPLING BODIES | see drawing | .05– .02 | 13/16 | 11/16-24UNF |



Coupling Bodies • ACETAL



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

Coupling Inserts • ACETAL











| TERMINATION IN-LINE PIPE THREAD | TUBING/THREAD SIZE 1/4" NPT 1/4" NPT 3/8" NPT 3/8" NPT | METRIC EQ. | NSF PN 42300 42400 42500 48600 | STANDARD PN APC24004 NSF APCD24004 NSF APC24006 NSF APCD24006 NSF | .72 .72 .72 .72 | B 1.43 1.77 1.50 1.64 | D |
|---|--|--|---------------------------------------|---|--------------------------|-----------------------------------|-------------------|
| IN-LINE 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 | 43400 43500 | APCD20004 NSF APCD20006 NSF | .72 .72 | 1.99 1.91 | |
| IN-LINE HOSE BARB | 1/4" D 1/4" D 3/8" D 3/8" D | 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID | 40900 42600 41000 42700 | APC22004 NSF APCD22004 NSF APC22006 NSF APCD22006 NSF | .60 .72 .63 .72 | 1.40 2.10 1.40 1.92 | |
| ELBOW FERRULELESS POLYTUBE FITTING, PTF† | 1/4" OD, .17" ID 1/4" OD, .17" ID 3/8" OD, .25" ID | 6.4mm OD, 4.3mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID | 49500 43000 43100 | APC21004 NSF APCD21004 NSF APCD21006 NSF | 1.22 1.22 1.27 | 1.32 1.45 1.46 | .91 .91 .96 |
| ELBOW HOSE BARB | 1/4" ID 1/4" ID 3/8" ID 3/8" ID | 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID | 46200 42800 44700 42900 | APC23004 NSF APCD23004 NSF APC23006 NSF APCD23006 NSF | .63 .63 .63 | 1.20 1.45 1.20 1.50 | .96 .96 .96 |
| IN-LINE COMPRESSION | 1/4" Compression 3/8" Compression | | 44900 45000 | APC NSF VALVED IN APC NSF VALVED IN | | | |
| | | | | | | | |

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