

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 spring: 316 stainless steel External spring: 302 stainless steel

O-rings: Buna-N

Color:

Natural white with light gray latch

Tubing Sizes:

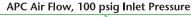
1/4" to 3/8" ID, 6.4mm to 9.5mm ID

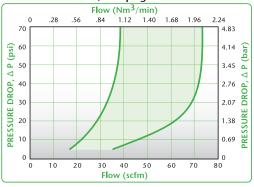
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions.

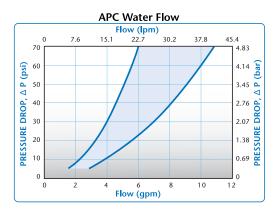
The 1/4" flow APC Series couplings feature a plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow in a compact size. The patented APC Series has been expanded to include couplings with valves and thumb latch shrouds. A more rugged design on some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

FeaturesBenefitsPlastic thumb latchNo exposed metal partsShrouded thumb latchProtects against accidental disconnectsIntegral terminationsFewer leak points, shorter assemblies, faster installationsCompatibilityMates with most EFC couplings

Also available in NSF listed versions,







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.

Liquid Flow Rates

Liquid Flow Rate Information for Couplings

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

$$Q = C_V \sqrt{\frac{\Delta P}{S}}$$

Q=Flow rate in gallons per minute C,=Average coefficient across various flow rates (see chart) ΔP =Pressure drop across coupling (psi)

S=Specific gravity of liquid

C, Values for APC Couplings

BODIES	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	0.4	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	0.4	0.4	1.3	0.8	0.6	0.5	1.1	0.7	1.3	0.7	1.0	0.7
APC13004SH	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4
APCD13004SH	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
APC13006SH	0.4	0.4	1.0	0.7	0.9	0.6	1.1	0.7	1.1	0.7	1.0	0.7
APCD13006SH	0.4	0.4	0.8	0.6	0.7	0.5	0.8	0.6	0.9	0.6	0.8	0.6
APC17004SH	0.4	0.4	0.8	0.6	1.0	0.7	0.9	0.7	0.8	0.6	0.7	0.6
APCD17004SH	0.4	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	4.0	0.9	2.4	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



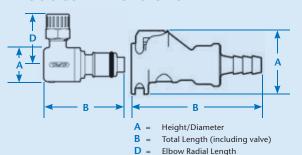
DID YOU KNOW...

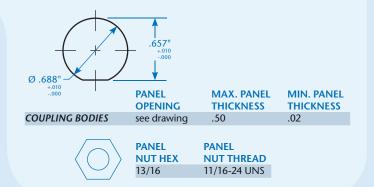
The shelf life of a connector is dependent upon the connector materials and the storage conditions. Colder manufactures quick disconnect couplings and connections made from a variety of metal, plastic and elastomeric raw materials. In general, it is best to store any Colder product in an environment shielded from light at a temperature between 50 °F and 90 °F.

The shelf life of Colder 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 re-lubricate external o-rings. For product containing silicone o-rings, if lube is allowable, use of a synthetic lube is recommended.

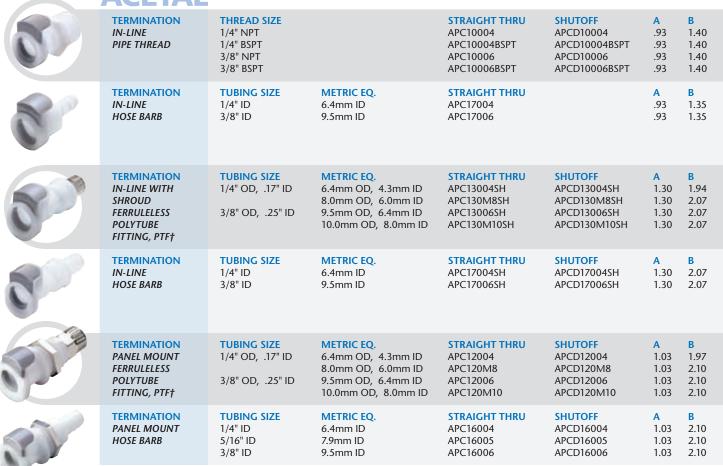
Product Dimensions





Coupling Bodies

ACETAL



Accessories



PANEL MOUNT GASKET REPLACEMENT

For sealing panel mount bodies listed above

MATERIAL Buna-N

PART NO. 1830300

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

ACETAI

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



DID YOU KNOW ...

One of the most versatile coupling series, the APC can be found in such diverse applications as hospital beds and support surfaces, sports hydration equipment, cold and compression therapy and many more! This product platform is also frequently used to develop custom designs. Contact Customer Service at 1-800-444-2474 or 651-645-0091 to learn how we can adapt the APC coupling to your specific requirements.

Quick Tip: These cost-effective, high-value connectors are also available in NSF listed versions for food and beverage dispensing. Visit www.colder.com for equivalent NSF part numbers.

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: Colder'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.

