

Plastic Fittings That Revolutionized The Techniques of Connecting Tubes.

JACO understands the needs of the plastics industry – from knowing how businesses operate to in-depth engineering design and applications.

For over 50 years, we have constantly looked for ways to make plastic parts better. And we've developed solutions in new technologies, equipment and products that have been solid contributors to industry.

JACO's innovative engineering, combined with our ability to produce precision plastic parts, led to the development of our compression fittings line.

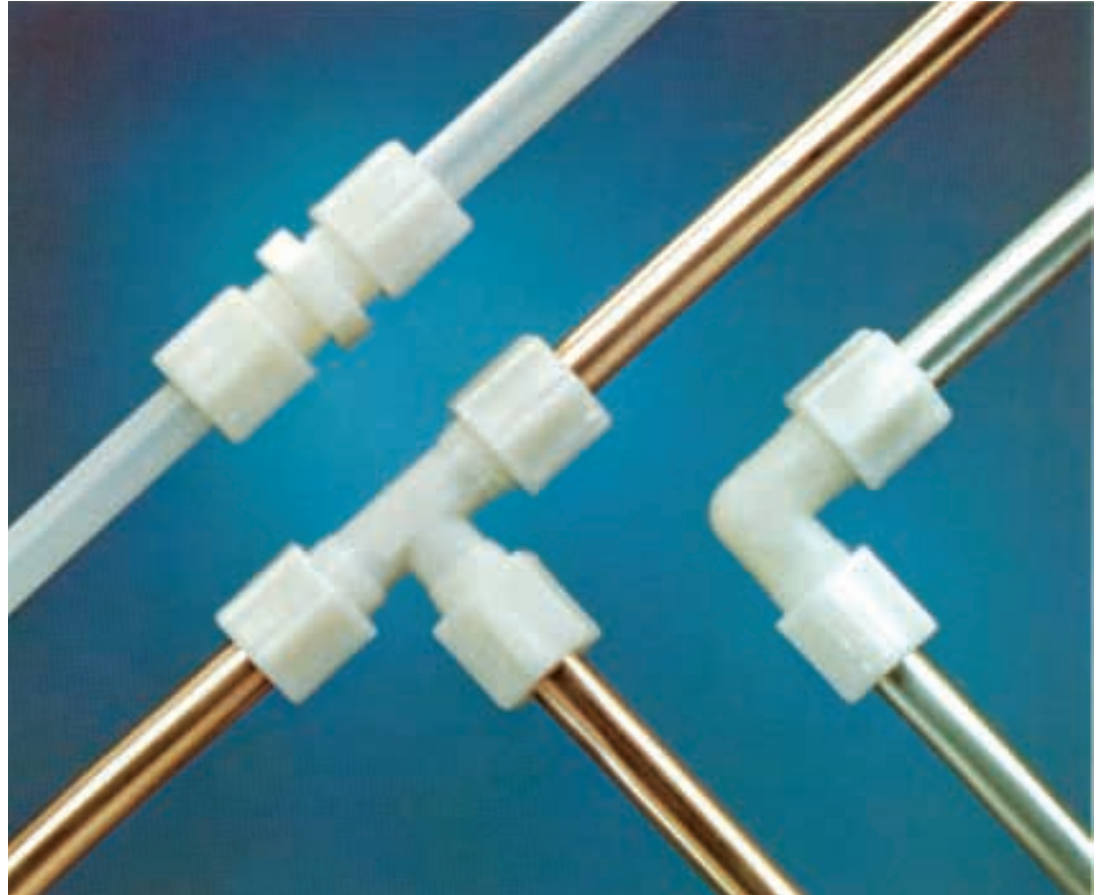
Compression type metallic fittings have a loose ferrule which requires extra assembly. JACO has been able to mold the sleeve as an integral part of the nut, eliminating the need for a two-piece assembly.

Although fittings were originally developed for copper tubing, other fittings were then later engineered with plastic grippers for plastic tubing.

Today, JACO fittings are widely used with all types of tubing including copper, plastic, aluminum and glass.

JACO compression fittings typically cost less than metal fittings and they offer better resistance to corrosion and chemicals. Additionally, we offer four different plastic resins for a range of applications dealing with temperatures, acids and chemicals. JACO plastic fittings offer these additional advantages:

- ◆ Good electrical insulating qualities which eliminate electrolytic action that usually corrodes tubing when dissimilar metal meets a fitting.



- ◆ The ability to absorb mechanical and acoustical vibrations because of the low density and softness of plastic.
- ◆ An inherently low resistance to flow, due to smooth internal surface.
- ◆ A resistance to scale buildup.

Fittings are available in size ranges from 1/8" through 7/8" tube O.D. in all common configurations, such as union, bulkhead, male and female connectors, male branch and male run tees, tee unions and ferrule nuts. Metric sizes are also available on a special order basis.

Various resins are used, depending on the application. JACO plastic fittings are made of either nylon, acetal copolymer, polypropylene, or polyvinylidene fluoride.

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HOW TO SELECT MATERIALS

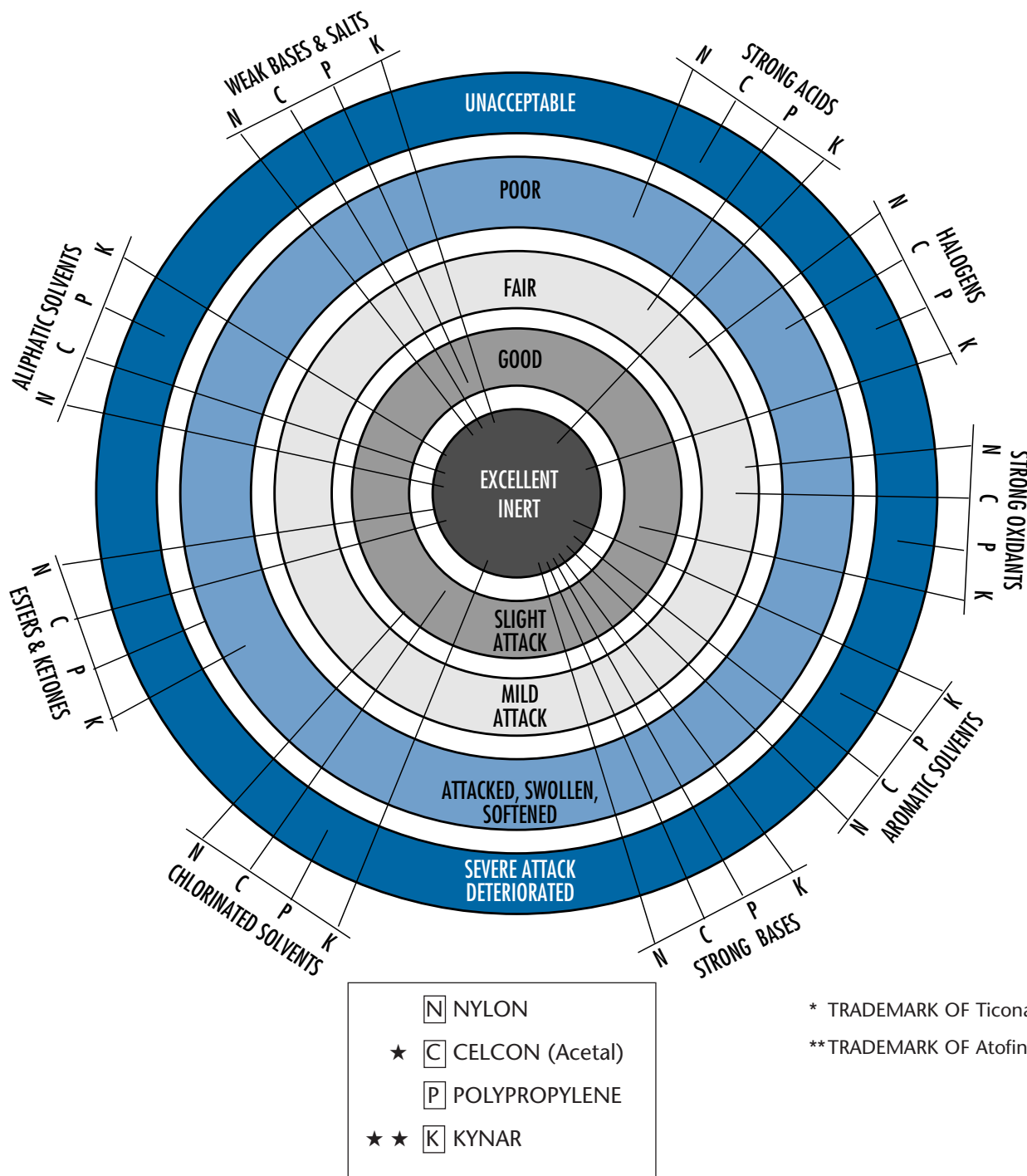
(N) Nylon has good resistance to organic solvents, oils and gasoline. Good strength at high temperatures. Material rating: -40° to 200°F. Cold and hot-water applications. Longtime weathering resistance. Good impact resistance, both single and repeated. Not recommended for use with ammonium, boric acid, calcium, sulfuric acid, or hydrochloric acid. F.D.A. listed. Also N.S.F. listed.

(C) Celcon, or acetal copolymer, has high tensile strength and good impact resistance over a broad temperature range. Translucent white color. Not affected by continuous hot-water service and works smoothly with metal tubing. Celcon cannot be recommended for continuous exposure to solutions with a chlorine

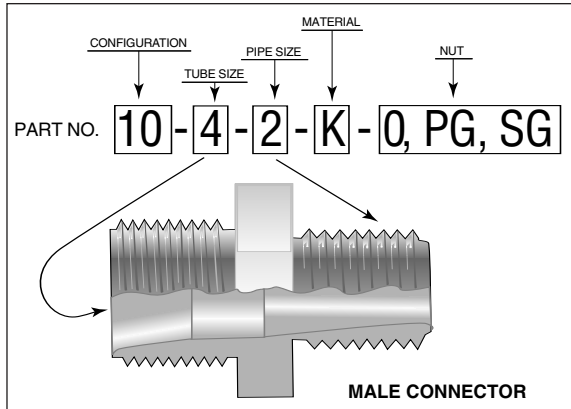
concentration greater than 1 ppm. Material is rated at -40° to 200°F in open air, and rated for 180°F in water applications. Unaffected by most inorganics, except sulfuric, nitric and hydrochloric acids. Listed by U.S.D.A. and F.D.A. for coffee, milk and antibiotics. Also N.S.F. listed. Should not be continuously exposed to sunlight.

(P) Polypropylene has good chemical resistance. Material is rated at -30 to 215°. Opaque, white color. Unaffected by most weak acids and alkalis. Below 175°F it has good resistance to organic solvents. Do not use with oxidants or strong acids or in continuous sunlight. N.S.F. listed. 20% glass filled for improved stiffness.

(K) Kynar, a polyvinylidene fluoride, has outstanding chemical resistance for handling highly corrosive fluids. Material rated at -80 to 275°, with a cloudy, white color. F.D.A. listed, N.S.F. Listed.



HOW TO ORDER JACO TUBE COMPRESSION FITTINGS



The part number for JACO compression fittings is designed so that each number and letter immediately identifies the shape, size and material.

For example: the first number identifies the shape, I.E.

- 10 = Male Connector,
- 25 = Female Connector,
- 50 = Union Elbow, etc.

The second number designates the tube size, in 1/16" increments, I.E.

- 4 = 1/4" O.D. Tubing,
- 8 = 1/2" O.D. Tubing.

The third number, also in 1/16" increments, (unless a Union type fitting is required), designates the pipe size.

The letter following the numbers indicates the material:

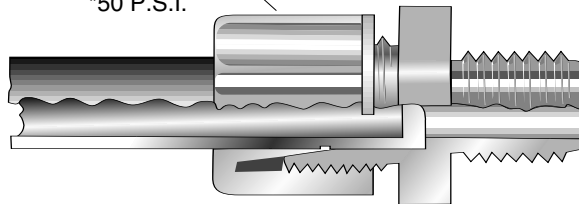
- K = Kynar
- N = Nylon
- P = Polypropylene
- C = Celcon

The last letter(s) denote the nut desired:

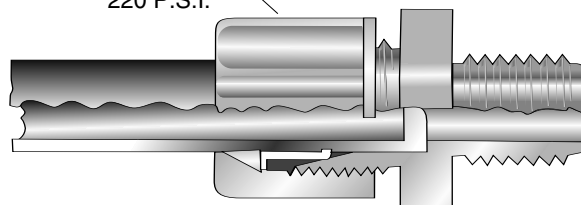
- O = Standard - *50 P.S.I.
- P.G. = Plastic Gripper for plastic tubing - *220 P.S.I.
- S.G. = Stainless Steel Gripper for use with hard surfaced tubing - *220 P.S.I.

It is not necessary to designate the nut size when ordering complete units as this will be determined by the tube size indication in the part number.

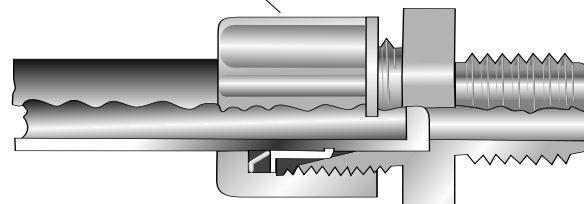
FERRULE NUT
WITH INTEGRAL SLEEVE
LOW PRESSURE APPLICATIONS
SOFT PLASTIC TUBING
*50 P.S.I.



WITH PLASTIC GRIPPER
FOR USE WITH PLASTIC TUBING
FOR SURE GRIP
*220 P.S.I.



WITH STAINLESS STEEL GRIPPER
FOR USE WITH HARD AND SMOOTH
SURFACED TUBING
*220 P.S.I.



Note: Fitting dimensions as described in this brochure may not reflect running changes made to improve part performance. Check with JACO Manufacturing Company in critical applications.

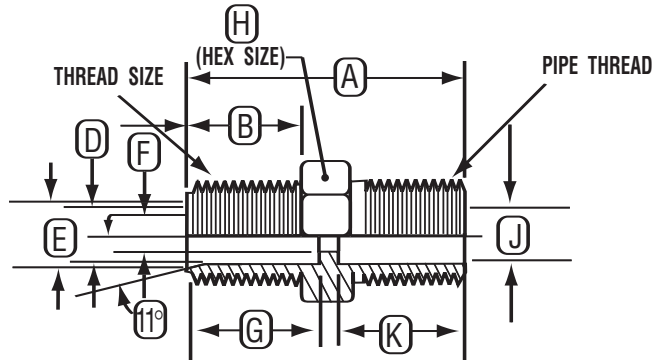
*Operating pressures of JACO Tube Fittings are regulated by ambient and fluid temperatures, type of fluid being carried, tubing type, and conditions of mechanical abuse. Pressures in excess of above specifications in all fitting sizes should be tested by the customer in their particular application.

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MALE CONNECTORS

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SPECIFICATIONS

| JACO Part No. Prefix | Tube O.D. | Pipe Thd. | Thread | A ± 1/64 | B ± 1/64 | D +.005 /.010 | E | F ± .010 | G ± 1/64 | H ± 1/64 | J ± 1/64 | K ± 1/64 |
|----------------------|-----------|-----------|-----------|-------------|-------------|---------------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 10-2-2 | 1/8 | 1/8 | 5/16-24 | 7/8 | 5/16 | .125 | .175 - .180 | .109 | 7/16 | 7/16 | 15/64 | 25/64 |
| 10-4-2 | 1/4 | 1/8 | 7/16-20 | 63/64 | 3/8 | .250 | .330 - .335 | .170 | 15/32 | 5/8 | 3/16 | 15/32 |
| 10-4-4 | 1/4 | 1/4 | 7/16-20 | 1-3/16 | 11/32 | .250 | .330 - .335 | .170 | 15/32 | 5/8 | 5/16 | 11/16 |
| 10-4-6 | 1/4 | 3/8 | 7/16-20 | 1-13/64 | 3/8 | .250 | .330 - .335 | .170 | 15/32 | 13/16 | 3/8 | 43/64 |
| 10-5-2 | 5/16 | 1/8 | 1/2-20 | 1 | 3/8 | .312 | .380 - .385 | .250 | 31/64 | 11/16 | 1/4 | Thru |
| 10-5-4 | 5/16 | 1/4 | 1/2-20 | 1-3/16 | 3/8 | .312 | .380 - .385 | .232 | 31/64 | 11/16 | 5/16 | 41/64 |
| 10-6-2 | 3/8 | 1/8 | 5/8-20 | 1-9/64 | 15/32 | .375 | .460 - .465 | .250 | 19/32 | 13/16 | 1/4 | Thru |
| 10-6-4 | 3/8 | 1/4 | 5/8-20 | 1-5/16 | 29/64 | .375 | .460 - .465 | .312 | 19/32 | 13/16 | 5/16 | Thru |
| 10-6-6 | 3/8 | 3/8 | 5/8-20 | 1-11/32 | 29/64 | .375 | .460 - .465 | .250 | 19/32 | 13/16 | 3/8 | 23/32 |
| 10-6-8 | 3/8 | 1/2 | 5/8-20 | 1-19/32 | 15/32 | .375 | .460 - .465 | .250 | 19/32 | 15/16 | 15/32 | 15/16 |
| 10-8-2 | 1/2 | 1/8 | 3/4-20 | 1-15/64 | 9/16 | .500 | .590 - .595 | .250 | 11/16 | 15/16 | 1/4 | Thru |
| 10-8-4 | 1/2 | 1/4 | 3/4-20 | 1-27/64 | 9/16 | .500 | .590 - .595 | .312 | 11/16 | 15/16 | 5/16 | Thru |
| 10-8-6 | 1/2 | 3/8 | 3/4-20 | 1-15/32 | 9/16 | .500 | .590 - .595 | .375 | 11/16 | 15/16 | 3/8 | Thru |
| 10-8-8 | 1/2 | 1/2 | 3/4-20 | 1-5/8 | 9/16 | .500 | .590 - .595 | .375 | 11/16 | 15/16 | 15/32 | 57/64 |
| 10-10-6 | 5/8 | 3/8 | 7/8-20 | 1-31/64 | 19/32 | .625 | .715 - .720 | .375 | 45/64 | 1-1/16 | 3/8 | Thru |
| 10-10-8 | 5/8 | 1/2 | 7/8-20 | 1-5/8 | 19/32 | .625 | .715 - .720 | .484 | 45/64 | 1-1/16 | 31/64 | Thru |
| 10-12-8 | 3/4 | 1/2 | 1-1/16-20 | 1-51/64 | 43/64 | .750 | .860 - .865 | .500 | 13/16 | 1-5/16 | 1/2 | Thru |
| 10-12-12 | 3/4 | 3/4 | 1-1/16-20 | 1-5/16 | 43/64 | .750 | .860 - .865 | .625 | 13/16 | 1-5/16 | 5/8 | Thru |
| 10-14-12 | 7/8 | 3/4 | 1-3/16-16 | 2 | 3/4 | .875 | .995 - 1.000 | .625 | 7/8 | 1-7/16 | 5/8 | Thru |

Parts available in: NYLON, CELCON (Acetal), POLYPROPYLENE, and KYNAR (Polyvinylidene Fluoride)

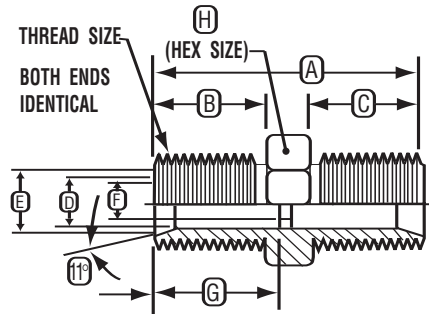
Sizes indicated are based on Celcon material (Acetal).

Authorized Distributor:

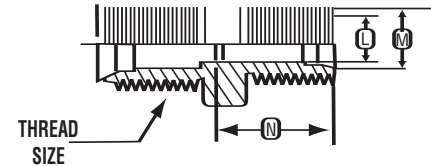
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UNION & REDUCING UNION CONNECTORS

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Union Connectors



Reducing Unions

UNION CONNECTORS

| JACO Part No. | SPECIFICATIONS | | | | | | | | | |
|---------------|----------------|-----------|---------|-------|------|--------------|------|-------|--------|--|
| | Tube O.D. | Thread | A | B | D | E | F | G | H | |
| 15-4 | 1/4 | 7/16-20 | 63/64 | 3/8 | .250 | .330 - .335 | .170 | 15/32 | 5/8 | |
| 15-5 | 5/16 | 1/2-20 | 1-1/32 | 25/64 | .312 | .380 - .385 | .232 | 31/64 | 11/16 | |
| 15-6 | 3/8 | 5/8-20 | 1-15/64 | 15/32 | .375 | .460 - .465 | .250 | 19/32 | 13/16 | |
| 15-8 | 1/2 | 3/4-20 | 1-7/16 | 9/16 | .500 | .590 - .595 | .375 | 11/16 | 15/16 | |
| 15-10 | 5/8 | 7/8-20 | 1-1/2 | 19/32 | .625 | .715 - .720 | .500 | 45/64 | 1-1/16 | |
| 15-12 | 3/4 | 1-1/16-20 | 1-3/4 | 43/64 | .750 | .860 - .865 | .625 | 13/16 | 1-5/16 | |
| 15-14 | 7/8 | 1-3/16-16 | 1-57/64 | 3/4 | .875 | .995 - 1.000 | .750 | 7/8 | 1-7/16 | |

REDUCING UNIONS

| JACO Part No. | SPECIFICATIONS | | | | | | | | | | | | | |
|---------------|----------------|-----------|---------|---------|-------|-------|------|--------------|------|-------|--------|------|-------------|-------|
| | Tube O.D. | Thd. | Thread | A | B | C | D | E | F | G | H | L | M | N |
| 15-4-2 | 1/4 - 1/8 | 7/16-20 | 5/16-24 | 59/64 | 3/8 | 5/16 | .250 | .330 - .335 | .109 | 15/32 | 5/8 | .125 | .175 - .180 | 7/16 |
| 15-5-4 | 5/16 - 1/4 | 1/2-20 | 7/16-20 | 1 | 3/8 | 3/8 | .312 | .380 - .385 | .170 | 31/64 | 11/16 | .250 | .330 - .335 | 15/32 |
| 15-6-4 | 3/8 - 1/4 | 5/8-20 | 7/16-20 | 1-3/16 | 29/64 | 29/64 | .375 | .460 - .465 | .170 | 19/32 | 13/16 | .250 | .330 - .335 | 15/32 |
| 15-8-6 | 1/2 - 3/8 | 3/4-20 | 5/8-20 | 1-5/16 | 9/16 | 29/64 | .500 | .590 - .595 | .250 | 11/16 | 15/16 | .375 | .460 - .465 | 19/32 |
| 15-10-6 | 5/8 - 3/8 | 7/8-20 | 5/8-20 | 1-23/64 | 19/32 | 15/32 | .625 | .715 - .720 | .250 | 45/64 | 1-1/16 | .375 | .460 - .465 | 19/32 |
| 15-10-8 | 5/8 - 1/2 | 7/8-20 | 3/4-20 | 1-15/32 | 19/32 | 9/16 | .625 | .715 - .720 | .375 | 45/64 | 1-1/16 | .500 | .590 - .595 | 11/16 |
| 15-14-10 | 7/8 - 5/8 | 1-3/16-16 | 7/8-20 | 1-21/32 | 3/4 | 17/32 | .875 | .995 - 1.000 | .500 | 7/8 | 1-7/16 | .625 | .715 - .720 | 45/64 |

Parts available in: NYLON, CELCON (Acetal), POLYPROPYLENE, and KYNAR (Polyvinylidene Fluoride)

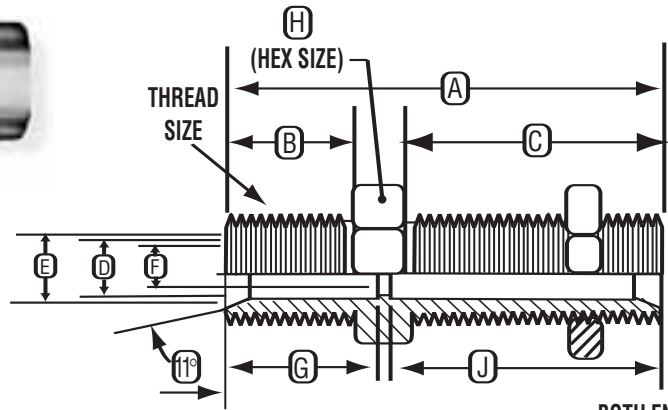
Sizes indicated are based on Celcon material (Acetal).

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BULKHEAD UNIONS

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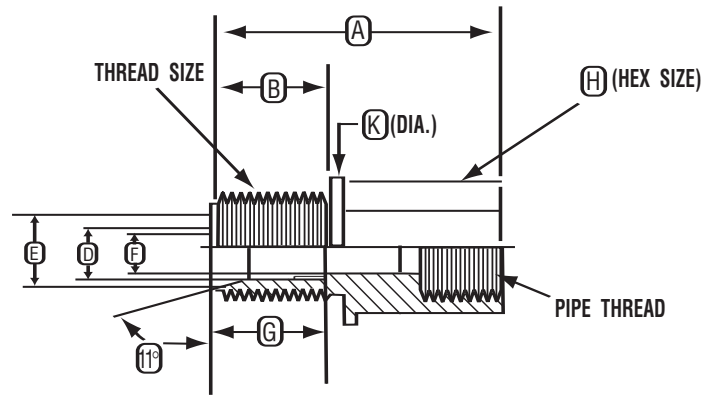
BOTH ENDS IDENTICAL

SPECIFICATIONS

| JACO Part No. | Tube O.D. | Thread | A | B | C | D | E | F | G | H | J |
|---------------|-----------|-----------|---------|--------|---------|--------|-------------|--------|--------|--------|---------|
| | | | ± 1/64 | ± 1/64 | ± 1/64 | .010 | | | | | |
| | | | | | | +.005/ | | | | | |
| | | | | | | | | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 |
| 20-4 | 1/4 | 7/16-20 | 1-31/64 | 23/64 | 7/8 | .250 | .330 - .335 | .170 | 15/32 | 5/8 | 31/32 |
| 20-5 | 5/16 | 1/2-20 | 1-5/8 | 23/64 | 63/64 | .312 | .380 - .385 | .232 | 31/64 | 11/16 | 1-3/32 |
| 20-6 | 3/8 | 5/8-20 | 1-49/64 | 29/64 | 1-1/64 | .375 | .460 - .465 | .250 | 19/32 | 13/16 | 1-1/8 |
| 20-8 | 1/2 | 3/4-20 | 1-7/8 | 35/64 | 1-3/64 | .500 | .590 - .595 | .375 | 11/16 | 15/16 | 1-9/64 |
| 20-12 | 3/4 | 1-1/16-20 | 2-13/64 | 43/64 | 1-11/32 | .750 | .860 - .865 | .625 | 13/16 | 1-5/16 | 1-15/32 |

FEMALE CONNECTORS

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SPECIFICATIONS

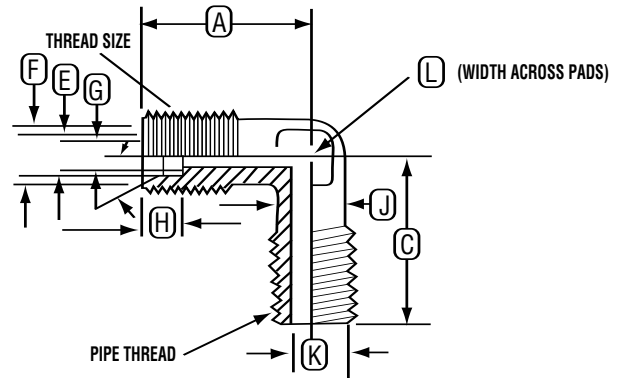
| JACO Part No. | Tube O.D. | Pipe Thd. | Thread | A | B | D | E | F | G | H | K |
|---------------|-----------|-----------|---------|---------|--------|--------|-------------|--------|--------|--------|--------|
| | | | | ± 1/64 | ± 1/64 | .010 | | | | | |
| | | | | | | +.005/ | | | | | |
| | | | | | | | | ± .010 | ± 1/64 | ± 1/64 | ± 1/64 |
| 25-4-2 | 1/4 | 1/8 | 7/16-20 | 59/64 | 23/64 | .250 | .330 - .335 | .170 | 15/32 | 43/64 | 25/64 |
| 25-4-4 | 1/4 | 1/4 | 7/16-20 | 1-3/32 | 3/8 | .250 | .330 - .335 | .170 | 15/32 | 51/64 | 29/32 |
| 25-5-4 | 5/16 | 1/4 | 1/2-20 | 1-7/32 | 15/32 | .312 | .380 - .385 | .232 | 31/64 | 3/4 | 13/16 |
| 25-6-4 | 3/8 | 1/4 | 5/8-20 | 1-13/64 | 29/64 | .375 | .460 - .465 | .250 | 9/16 | 3/4 | 13/16 |
| 25-6-6 | 3/8 | 3/8 | 5/8-20 | 1-7/32 | 15/32 | .375 | .460 - .465 | .250 | 19/32 | 15/16 | N/A |
| 25-6-8 | 3/8 | 1/2 | 5/8-20 | 1-17/64 | 15/32 | .375 | .460 - .465 | .250 | 19/32 | 1-1/16 | N/A |
| 25-8-6 | 1/2 | 3/8 | 3/4-20 | 1-9/32 | 39/64 | .500 | .590 - .595 | .375 | 11/16 | 15/16 | N/A |
| 25-8-8 | 1/2 | 1/2 | 3/4-20 | 1-9/32 | 9/16 | .500 | .590 - .595 | .375 | 11/16 | 1-1/16 | N/A |
| 25-10-8 | 5/8 | 1/2 | 7/8-20 | 1-1/2 | 11/16 | .625 | .715 - .720 | .500 | 45/64 | 1-1/16 | N/A |

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MALE ELBOWS

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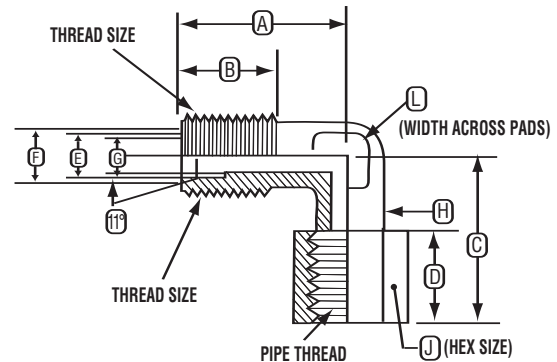


SPECIFICATIONS

| JACO Part No. | Tube O.D. | Pipe Thr. | Thread | A | C | E | F | G | H | J | K | L |
|---------------|-----------|-----------|---------|---------|---------|---------------|-------------|--------|--------|--------|--------|--------|
| | | | | ± 1/64 | ± 1/64 | + .005 / .010 | | ± .010 | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 |
| 40-2-2 | 1/8 | 1/8 | 5/16-24 | 9/16 | 5/8 | .125 | .175 - .180 | .109 | 7/16 | 1/4 | 13/16 | 1/4 |
| 40-4-2 | 1/4 | 1/8 | 7/16-20 | 13/16 | 13/16 | .250 | .330 - .335 | .170 | 15/32 | 3/8 | .250 | 3/8 |
| 40-4-4 | 1/4 | 1/4 | 7/16-20 | 13/16 | 1-1/64 | .250 | .330 - .335 | .218 | 15/32 | 3/8 | 9/32 | 3/8 |
| 40-4-6 | 1/4 | 3/8 | 7/16-20 | 55/64 | 1-1/32 | .250 | .330 - .335 | .218 | 15/32 | 35/64 | 3/8 | 35/64 |
| 40-5-2 | 5/16 | 1/8 | 1/2-20 | 29/32 | 29/32 | .312 | .380 - .385 | .232 | 31/64 | 7/16 | 1/4 | 7/16 |
| 40-5-4 | 5/16 | 1/4 | 1/2-20 | 29/32 | 1-5/64 | .312 | .380 - .385 | .232 | 31/64 | 7/16 | 1/4 | 7/16 |
| 40-6-4 | 3/8 | 1/4 | 5/8-20 | 15/16 | 1-1/32 | .375 | .460 - .465 | .250 | 19/32 | 37/64 | 5/16 | 37/64 |
| 40-6-6 | 3/8 | 3/8 | 5/8-20 | 15/16 | 1-1/32 | .375 | .460 - .465 | .250 | 19/32 | 9/16 | 3/8 | 9/16 |
| 40-8-4 | 1/2 | 1/4 | 3/4-20 | 1-3/32 | 1-1/8 | .500 | .590 - .595 | .375 | 11/16 | 11/16 | 5/16 | 11/16 |
| 40-8-6 | 1/2 | 3/8 | 3/4-20 | 1-5/64 | 1-1/8 | .500 | .590 - .595 | .375 | 11/16 | 11/16 | 3/8 | 11/16 |
| 40-8-8 | 1/2 | 1/2 | 3/4-20 | 1-1/16 | 1-1/4 | .500 | .590 - .595 | .375 | 11/16 | 11/16 | 3/8 | 11/16 |
| 40-10-6 | 5/8 | 3/8 | 7/8-20 | 1-17/64 | 1-17/64 | .625 | .715 - .720 | .500 | 45/64 | 13/16 | 3/8 | 55/64 |
| 40-10-8 | 5/8 | 1/2 | 7/8-20 | 1-9/32 | 1-29/64 | .625 | .715 - .720 | .500 | 45/64 | 13/16 | 1/2 | 55/64 |

FEMALE ELBOWS

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SPECIFICATIONS

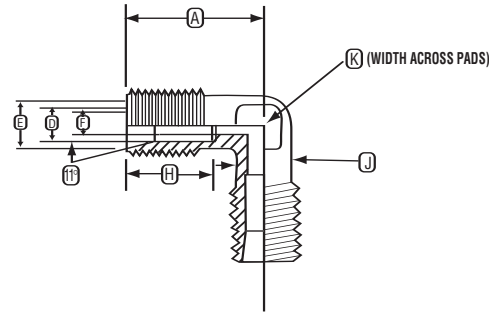
| JACO Part No. | Tube O.D. | Pipe Thd. | Thread | A | B | C | D | E | F | G | H | J | I |
|---------------|-----------|-----------|---------|---------|--------|---------|--------|---------------|-------------|--------|--------|--------|--------|
| | | | | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 | + .005 / .010 | | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 |
| 45-2-4 | 1/8 | 1/4 | 5/16-24 | 51/64 | 7/16 | 31/32 | 11/16 | .125 | .175 - .180 | .109 | 23/64 | 43/64 | 23/64 |
| 45-4-2 | 1/4 | 1/8 | 7/16-20 | 13/16 | 15/32 | 3/4 | 1/2 | .250 | .330 - .335 | .170 | 3/8 | 9/16 | 3/8 |
| 45-4-4 | 1/4 | 1/4 | 7/16-20 | 13/16 | 15/32 | 31/32 | 43/64 | .250 | .330 - .335 | .170 | 3/8 | 51/64 | 3/8 |
| 45-5-4 | 5/16 | 1/4 | 1/2-20 | 15/16 | 31/64 | 1 | 11/16 | .312 | .380 - .385 | .232 | 7/16 | 25/32 | 7/16 |
| 45-6-4 | 3/8 | 1/4 | 5/8-20 | 1 | 19/32 | 1-1/64 | 11/16 | .375 | .460 - .465 | .250 | 9/16 | 13/16 | 9/16 |
| 45-6-6 | 3/8 | 3/8 | 5/8-20 | 15/16 | 19/32 | 1-1/32 | 11/16 | .375 | .460 - .465 | .250 | 9/16 | 13/16 | 9/16 |
| 45-8-6 | 1/2 | 3/8 | 3/4-20 | 1-1/16 | 11/16 | 1-1/64 | 13/16 | .500 | .590 - .595 | .375 | 11/16 | 29/32 | 45/64 |
| 45-8-8 | 1/2 | 1/2 | 3/4-20 | 1-1/16 | 11/16 | 1-21/64 | 13/16 | .500 | .590 - .595 | .375 | 11/16 | 29/32 | 45/64 |
| 45-10-8 | 5/8 | 1/2 | 7/8-20 | 1-25/64 | 45/64 | 1-1/16 | 1-1/16 | .625 | .715 - .720 | .500 | 13/16 | 1-1/16 | 13/16 |

Authorized Distributor:

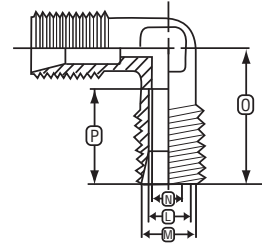
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UNION & REDUCING ELBOWS

50



Union Elbows



Reducing Union Elbows

UNION ELBOWS

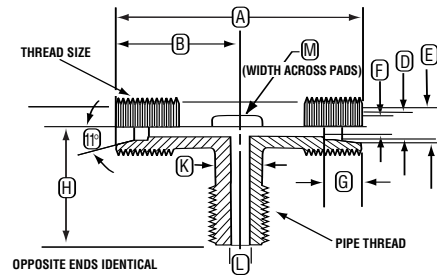
| JACO Part No. | SPECIFICATIONS | | | | | | | | | |
|---------------|----------------|-----------|---------|------|--------------|------|-------|-------|--------|--|
| | Tube O.D. | Thread | A | D | E | F | H | J | K | |
| 50-4 | 1/4 | 7/16-20 | 13/16 | .250 | .330 - .335 | .170 | 15/32 | 3/8 | 3/8 | |
| 50-5 | 5/16 | 1/2-20 | 29/32 | .312 | .380 - .385 | .232 | 31/64 | 7/16 | 7/16 | |
| 50-6 | 3/8 | 5/8-20 | 15/16 | .375 | .460 - .465 | .250 | 19/32 | 9/16 | 9/16 | |
| 50-8 | 1/2 | 3/4-20 | 1-1/16 | .500 | .590 - .595 | .375 | 11/16 | 11/16 | 45/64 | |
| 50-10 | 5/8 | 7/8-20 | 1-1/4 | .625 | .715 - .720 | .500 | 45/64 | 13/16 | 55/64 | |
| 50-12 | 3/4 | 1-1/16 | 1-35/64 | .750 | .860 - .865 | .625 | 13/16 | 1 | 1 | |
| 50-14 | 7/8 | 1-3/16-16 | 1-9/16 | .875 | .995 - 1.000 | .750 | 7/8 | 1-1/8 | 1-3/16 | |

REDUCING UNION ELBOWS

| JACO Part No. | SPECIFICATIONS | | | | | | | | | | | | | |
|---------------|----------------|--------------------|--------|------|--------------|------|-----|-------|--------|------|-------------|------|---------|-------|
| | Tube O.D. | Thread | A | D | E | F | H | J | K | L | M | N | O | P |
| 50-14-10 | 7/8 - 5/8 | 1-3/16-20 - 7/8-20 | 1-9/16 | .875 | .995 - 1.000 | .750 | 7/8 | 1 1/8 | 1-3/16 | .625 | .715 - .720 | .500 | 1-29/64 | 45/64 |

MALE BRANCH TEES

60



OPPOSITE ENDS IDENTICAL

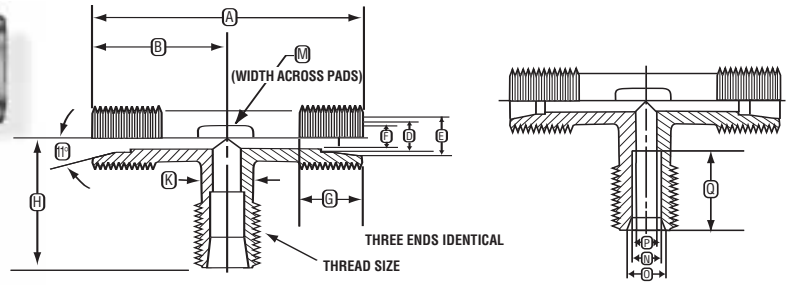
| JACO Part No. | SPECIFICATIONS | | | | | | | | | | | | |
|---------------|----------------|-----------|-----------|---------|---------|------|--------------|------|-------|---------|--------|-------|--------|
| | Tube O.D. | Pipe Thd. | Thread | A | B | D | E | F | G | H | K | L | M |
| 60-4-2 | 1/4 | 1/8 | 7/16-20 | 1-29/64 | 47/64 | .250 | .330 - .335 | .170 | 15/32 | 3/4 | 3/8 | 1/4 | 3/8 |
| 60-4-4 | 1/4 | 1/4 | 7/16-20 | 1-15/32 | 47/64 | .250 | .330 - .335 | .170 | 15/32 | 59/64 | 3/8 | 5/16 | 3/8 |
| 60-5-4 | 5/16 | 1/4 | 1/2-20 | 1-39/64 | 13/16 | .312 | .380 - .385 | .232 | 31/64 | 63/64 | 7/16 | 9/32 | 7/16 |
| 60-6-4 | 3/8 | 1/4 | 5/8-20 | 1-15/16 | 31/32 | .375 | .460 - .465 | .250 | 19/32 | 1-1/16 | 9/16 | 5/16 | 9/16 |
| 60-6-6 | 3/8 | 3/8 | 5/8-20 | 1-29/32 | 61/64 | .375 | .460 - .465 | .250 | 19/32 | 1-3/32 | 1/2 | 3/8 | 1/2 |
| 60-8-6 | 1/2 | 3/8 | 3/4-20 | 2-13/64 | 1-7/64 | .500 | .590 - .595 | .375 | 11/16 | 1-5/32 | 43/64 | 25/64 | 43/64 |
| 60-8-8 | 1/2 | 1/2 | 3/4-20 | 2-7/32 | 1-1/8 | .500 | .590 - .595 | .375 | 11/16 | 1-21/64 | 5/8 | 31/64 | 39/64 |
| 60-10-8 | 5/8 | 1/2 | 7/8-20 | 2-17/32 | 1-1/4 | .625 | .715 - .720 | .500 | 45/64 | 1-7/16 | 13/16 | 1/2 | 13/16 |
| 60-12-8 | 3/4 | 1/2 | 1-1/16-20 | 3-7/64 | 1-9/16 | .750 | .860 - .865 | .625 | 13/16 | 1-41/64 | 1-1/16 | 9/16 | 1-1/16 |
| 60-12-12 | 3/4 | 3/4 | 1-1/16-20 | 3-7/64 | 1-9/16 | .750 | .860 - .965 | .625 | 13/16 | 1-41/64 | 1-1/16 | 11/16 | 1-1/16 |
| 60-14-12 | 7/8 | 3/4 | 1-3/16-16 | 3-3/32 | 1-35/64 | .875 | .995 - 1.000 | .750 | 7/8 | 1-5/8 | 1-3/16 | 11/16 | 1-3/16 |

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UNION TEES

70

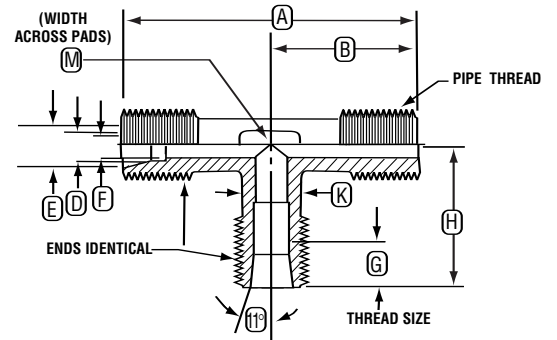


SPECIFICATIONS

| JACO Part No. | Tube O.D. | Thread | A | B | D | E | F | G | H | K | M | N | O | P | Q |
|---------------|-----------|--------------------|---------|---------|----------------|--------------|--------|--------|---------|--------|--------|----------------|-------------|--------|--------|
| | | | ± 1/64 | ± 1/64 | +.005/ .010 | | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 | +.005/ .010 | | ± .010 | ± 1/64 |
| 70-2 | 1/8 | 5/16-24 | 1-1/8 | 9/16 | .125 | .175 - .180 | .109 | 7/16 | 17/32 | 1/4 | 1/4 | N/A | N/A | N/A | N/A |
| 70-4 | 1/4 | 7/16-20 | 1-7/16 | 47/64 | .250 | .330 - .335 | .218 | 15/32 | 23/32 | 3/8 | 23/64 | N/A | N/A | N/A | N/A |
| 70-5 | 5/16 | 1/2-20 | 1-19/32 | 13/16 | .312 | .380 - .385 | .232 | 31/64 | 13/16 | 7/16 | 29/64 | N/A | N/A | N/A | N/A |
| 70-6 | 3/8 | 5/8-20 | 1-59/64 | 31/32 | .375 | .460 - .465 | .250 | 19/32 | 31/32 | 35/64 | 35/64 | N/A | N/A | N/A | N/A |
| 70-8 | 1/2 | 3/4-20 | 2-1/8 | 1-1/16 | .500 | .590 - .595 | .375 | 11/16 | 1-1/16 | 43/64 | 11/16 | N/A | N/A | N/A | N/A |
| 70-10 | 5/8 | 7/8-20 | 2-35/64 | 1-17/64 | .625 | .715 - .720 | .500 | 45/64 | 1-1/4 | 53/64 | 53/64 | N/A | N/A | N/A | N/A |
| 70-12 | 3/4 | 1-1/16-20 | 3-3/32 | 1-35/64 | .750 | .860 - .865 | .625 | 13/16 | 1-35/64 | 1 | 1-1/16 | N/A | N/A | N/A | N/A |
| 70-14 | 7/8 | 1-3/16-16 | 3-3/32 | 1-35/64 | .875 | .995 - 1.000 | .750 | 7/8 | 1-35/64 | 1-1/8 | 1-3/16 | N/A | N/A | N/A | N/A |
| 70-10-6 | 5/8 - 3/8 | 7/8-20 - 5/8-20 | 2-17/32 | 1-17/64 | .625 | .715 - .720 | .500 | 45/64 | 1-9/64 | 13/16 | 13/16 | .375 | .460 - .465 | .250 | 19/32 |
| 70-14-10 | 7/8 - 5/8 | 1-3/16-16 - 7/8-20 | 3-3/32 | 1-35/64 | .875 | .995 - 1.000 | .750 | 7/8 | 1-7/16 | 1-9/64 | 1-5/32 | .625 | .715 - .720 | .500 | 45/64 |
| 70-14-10-10 | 7/8 - 5/8 | 1-3/16-16 - 7/8-20 | 3-1/64 | 1-29/64 | .875 | .995 - 1.000 | .500 | 7/8 | 1-7/16 | 1-9/64 | 1-5/32 | .625 | .715 - .720 | .500 | 45/64 |

MALE RUN TEES

75



SPECIFICATIONS

| JACO Part No. | Tube O.D. | Pipe Thd. | Thread | A | B | D | E | F | G | H | K | M |
|---------------|-----------|-----------|-----------|---------|---------|----------------|--------------|--------|--------|---------|--------|--------|
| | | | | ± 1/64 | ± 1/64 | +.005/ .010 | | ± .010 | ± 1/64 | ± 1/64 | ± 1/64 | ± 1/64 |
| 75-4-2 | 1/4 | 1/8 | 7/16-20 | 1-15/32 | 3/4 | .250 | .330 - .335 | .170 | 15/32 | 47/64 | 3/8 | 23/64 |
| 75-4-4 | 1/4 | 1/4 | 7/16-20 | 1-21/32 | 15/16 | .250 | .330 - .335 | .170 | 15/32 | 47/64 | 3/8 | 3/8 |
| 75-5-4 | 5/16 | 1/4 | 1/2-20 | 1-3/16 | 1-1/64 | .312 | .380 - .385 | .232 | 31/64 | 13/16 | 7/16 | 7/16 |
| 75-6-4 | 3/8 | 1/4 | 5/8-20 | 2 | 1-3/64 | .375 | .460 - .465 | .250 | 19/32 | 31/32 | 35/64 | 35/64 |
| 75-6-6 | 3/8 | 3/8 | 5/8-20 | 2-1/8 | 1-3/32 | .375 | .460 - .465 | .250 | 19/32 | 31/32 | 37/64 | 37/64 |
| 75-8-6 | 1/2 | 3/8 | 3/4-20 | 2-1/4 | 1-9/64 | .500 | .590 - .595 | .375 | 11/16 | 1-7/64 | 11/16 | 11/16 |
| 75-8-8 | 1/2 | 1/2 | 3/4-20 | 2-3/8 | 1-9/32 | .500 | .590 - .595 | .375 | 11/16 | 1-3/32 | 21/32 | 43/64 |
| 75-10-8 | 5/8 | 1/2 | 7/8-20 | 2-47/64 | 1-15/32 | .625 | .715 - .720 | .500 | 45/64 | 1-1/4 | 13/16 | 13/16 |
| 75-12-8 | 3/4 | 1/2 | 1-1/16-20 | 3-3/16 | 1-39/64 | .750 | .860 - .865 | .625 | 13/16 | 1-37/64 | 1 | 1-3/64 |
| 75-12-12 | 3/4 | 3/4 | 1-1/16-20 | 3-3/16 | 1-5/8 | .750 | .860 - .865 | .625 | 13/16 | 1-9/16 | 1 | 1-3/64 |
| 75-14-12 | 7/8 | 3/4 | 1-3/16-16 | 3-3/16 | 1-5/8 | .875 | .995 - 1.000 | .750 | 7/8 | 1-9/16 | 1-1/8 | 1-3/16 |

Authorized Distributor:

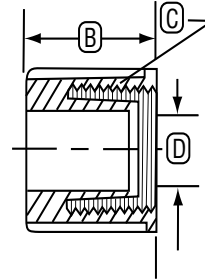
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216-781-4421 • Fax: 216-781-4474 • sales@aetnaplastics.com • www.aetnaplastics.com

COMPRESSION NUTS

Ferrule Nuts with Integral Sleeve

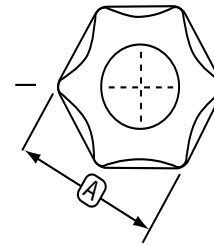


| JACO Part No. | SPECIFICATIONS | | | | |
|---------------|----------------|------------|------------|----------|---------------------|
| | Tube O.D. | A ±1/64 | B ±1/64 | C THD | D +.005/ .010 |
| 0-2 | 1/8 | 7/16 | 33/64 | 5/16-24 | .125 |
| 0-4 | 1/4 | 5/8 | 5/8 | 7/16-20 | .250 |
| 0-5 | 5/16 | 45/64 | 11/16 | 1/2-20 | .312 |
| 0-6 | 3/8 | 13/16 | 47/64 | 5/8-20 | .375 |
| 0-8 | 1/2 | 15/16 | 7/8 | 3/4-20 | .500 |



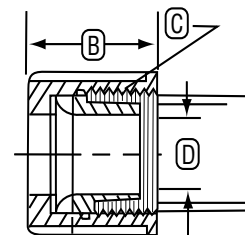
Plastic Gripper Nuts

| JACO Part No. | SPECIFICATIONS | | | | |
|---------------|----------------|------------|------------|-----------|---------------------|
| | Tube O.D. | A ±1/64 | B ±1/64 | C THD | D +.005/ .010 |
| PG-4 | 1/4 | 5/8 | 43/64 | 7/16-20 | .250 |
| PG-5 | 5/16 | 11/16 | 47/64 | 1/2-20 | .312 |
| PG-6 | 3/8 | 13/16 | 23/32 | 5/8-20 | .375 |
| PG-8 | 1/2 | 15/16 | 7/8 | 3/4-20 | .500 |
| PG-10 | 5/8 | 1-7/64 | 7/8 | 7/8-20 | .625 |
| PG-12 | 3/4 | 1-5/16 | 1 | 1-1/16-20 | .750 |
| PG-14 | 7/8 | 1-7/16 | 1-1/8 | 1-3/16-16 | .875 |



Stainless Steel Gripper Nuts

| JACO Part No. | SPECIFICATIONS | | | | |
|---------------|----------------|------------|------------|-----------|---------------------|
| | Tube O.D. | A ±1/64 | B ±1/64 | C THD | D +.005/ .010 |
| SG-4 | 1/4 | 5/8 | 43/64 | 7/16-20 | .250 |
| SG-5 | 5/16 | 11/16 | 47/64 | 1/2-20 | .312 |
| SG-6 | 3/8 | 13/16 | 23/32 | 5/8-20 | .375 |
| SG-8 | 1/2 | 15/16 | 55/64 | 3/4-20 | .500 |
| SG-10 | 5/8 | 1-1/8 | 7/8 | 7/8-20 | .625 |
| SG-12 | 3/4 | 1-5/16 | 1 | 1-1/16-20 | .750 |
| SG-14 | 7/8 | 1-7/16 | 1-1/8 | 1-3/16-16 | .875 |



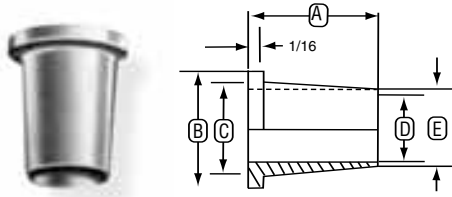
WITH PLASTIC OR STEEL GRIPPER

Parts available in: NYLON, CELCON (Acetal), POLYPROPYLENE, and KYNAR (Polyvinylidene Fluoride)

Sizes indicated are based on Celcon material (Acetal).

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Inserts*



| JACO Part No. | SPECIFICATIONS | | | | | |
|---------------|----------------|-------|-------------|-------------|------|------|
| | Tube O.D. | A | B | C | D | E |
| P-4 | 1/4 | 3/8 | .240 - .250 | .199 | 1/8 | .167 |
| P-5 | 5/16 | 13/32 | .300 - .312 | .217 | 9/64 | .180 |
| P-6 | 3/8 | 1/2 | .360 - .370 | .245 - .250 | .200 | .235 |
| P-8 | 1/2 | 9/16 | .475 - .490 | .370 - .375 | .300 | .350 |

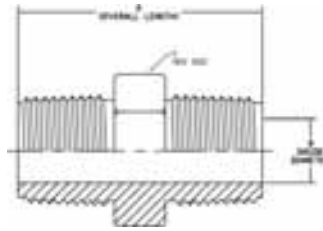
KYNAR Check Valves*

- Viton "O" Ring
- Stainless Ball & Spring
- Maximum Operating Temp. 220 P.S.I. @ 180° F
- Cracking Pressure 1-2.5 P.S.I.
- Zero Leakage
- Male Pipe NPT Style



| JACO Part No. | SPECIFICATIONS | | | |
|---------------|----------------|---------|---------|---------|
| | Male Pipe NPT | A ±1/64 | B ±1/64 | C ±1/64 |
| CV-2 K | 1/8 | 1 | 3/32 | 7/16 |
| CV-4 K | 1/4 | 1-13/32 | 3/16 | 5/8 |
| CV-6 K | 3/8 | 1-1/2 | 1/4 | 13/16 |
| CV-8 K | 1/2 | 1-51/64 | 11/32 | 15/16 |

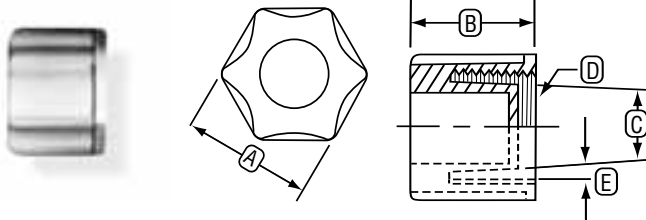
CELCON and KYNAR Pipe Nipples* (Non-Stock)



*These items are offered in addition to our standard fitting product line. Standard discount schedule applies based upon total number of items ordered and are not subject to combined pricing with our standard fitting line.

| JACO Part No. | SPECIFICATIONS | | | |
|---------------|----------------|---------|---------|---------|
| | Male Pipe NPT | A ±1/64 | B ±1/64 | C ±1/64 |
| PN-2 | 1/8 | 1 | 7/32 | 7/16 |
| PN-4 | 1/4 | 1-13/32 | 21/64 | 5/8 |
| PN-6 | 3/8 | 1-31/64 | 25/64 | 13/16 |
| PN-8 | 1/2 | 1-51/64 | 33/64 | 15/16 |

Blind Nuts



| JACO Part No. | SPECIFICATIONS | | | | |
|---------------|----------------|---------|---------|---------|-------|
| | A ±1/64 | B ±1/64 | C ±.005 | D THD | E ±1° |
| 0-2 BLD | 7/16 | 33/64 | .170 | 5/16-24 | 3° |
| 0-4 BLD | 5/8 | 5/8 | .300 | 7/16-20 | 3° |
| 0-5 BLD | 11/16 | 11/16 | .370 | 1/2-20 | 3° |
| 0-6 BLD | 13/16 | 47/64 | .455 | 5/8-20 | 3° |
| 0-8 BLD | 15/16 | 7/8 | .575 | 3/4-20 | 3° |

Bulkhead Nuts*



| JACO Part No. |
|---------------|
| 0-4B |
| 0-5B |
| 0-6B |
| 0-8B |
| 0-12B |