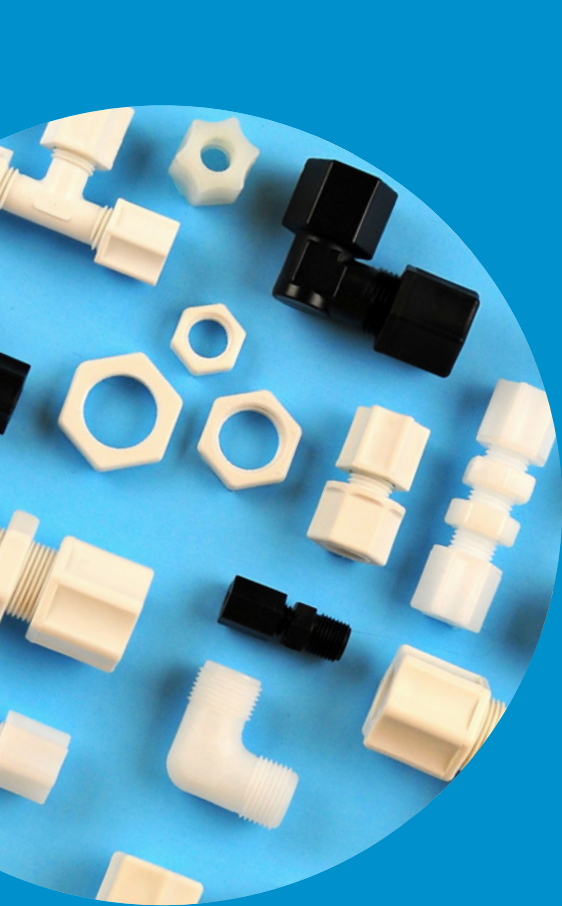




JACO

COMPRESSION TUBE

Fittings

PRODUCT CATALOG

Unique fittings molded from four
corrosion-resistant thermoresins



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 65 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. With the JACO Ferrule Nut (O-Nut), JACO has been able to mold the sleeve as an integral part of the nut, eliminating the need for a two-piece assembly. Although metal fittings were originally developed for copper tubing, other plastic fittings were then later engineered with plastic grippers for plastic tubing. This then led to stainless steel grippers for metal tubing and hard smooth plastic tubing.

Today, JACO fittings are widely used with all types of tubing including copper, plastic, aluminum, stainless steel and glass. JACO compression fittings are typically less expensive 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:

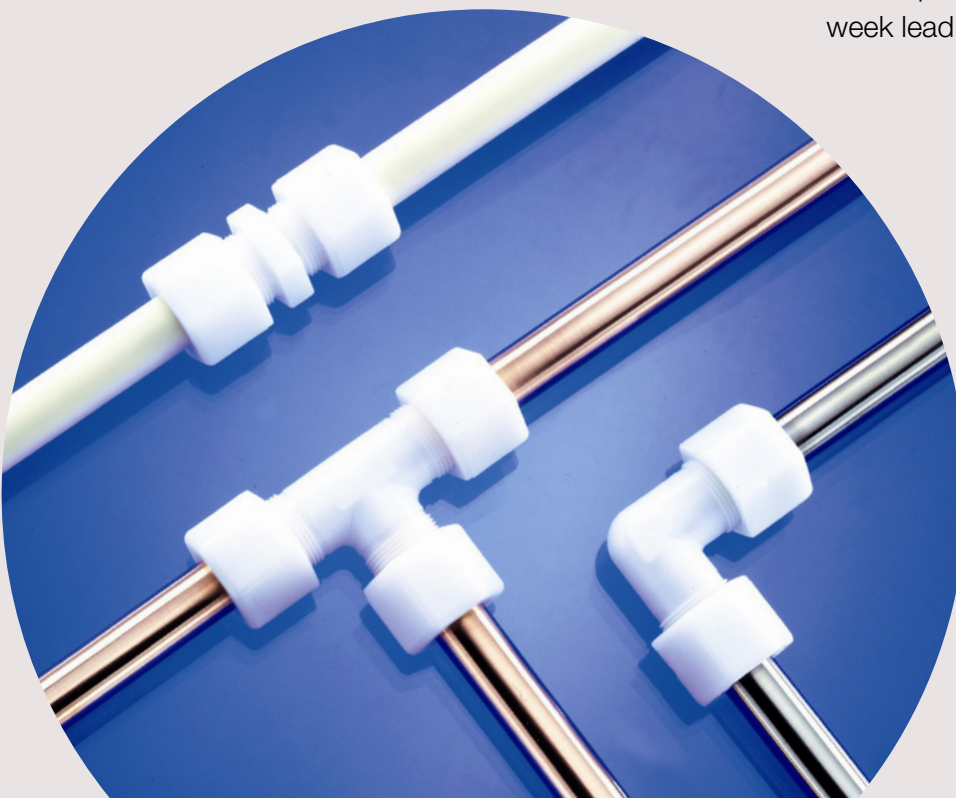
- Good electrical insulating qualities which eliminate electrolytic action that usually corrodes tubing when dissimilar metal meets a fitting.
- The ability to absorb mechanical and acoustical vibrations because of the low density and elasticity of plastic.
- An inherently low resistance to flow, due to smooth internal surfaces.
- A resistance to scale buildup.

Fittings are available in size ranges from 1/8" through 7/8" tube O.D. in most common configurations, such as union, male connectors, male branch tees, male run tees, tee unions and PG and SG nuts. Metric sizes are also available on a special order basis. (Contact JACO for available metric sizes.)

Various resins are used, depending on the application.

JACO plastic fittings are made of either nylon, acetal copolymer, polypropylene, or polyvinylidene fluoride (PVDF). The fittings can be manufactured in the resins natural color or in black pigment.

Note: Fittings ordered in black are considered a "special" and require a 1000-piece minimum and 4 to 6 week lead time.



JACO

JACO MANUFACTURING COMPANY

Custom Mold Capabilities

Injection Molding

Insert Molding

20 Ounce Shots

Tight Tolerances

ISO/TS 16949: 2009

ISO 9001: 2008

Engineering Support

In House Tooling Design

In House Tool Construction

SPC/Testing in House

Part Design Support

Laser Welding

Phone

440.234.4000

Toll-Free

800.229.JACO

Fittings FAX

440.234.7007

sales@jacomfg.com

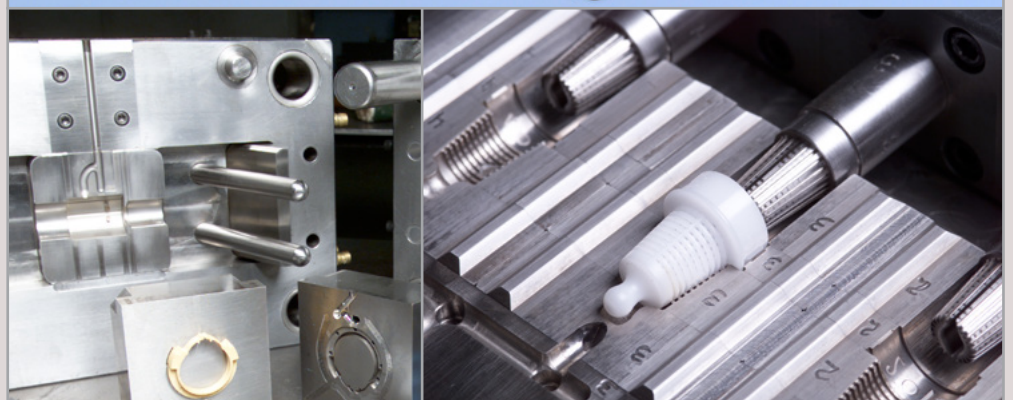
www.jacomfg.com

JACO Manufacturing Company has been built on a reputation of customer service, practical applications experience and imaginative engineering. We manufacture high quality JACO compression tube fittings for potable water systems.

JACO is also a specialist in the design and manufacture of close tolerance plastic parts. We consistently provide custom molded plastics for a variety of applications and industries. We are committed to meet and exceed our customer requirements for high quality, competitive parts and tooling.

To ensure top performance from all our products, we utilize scientific molding techniques in our molding processes as well as provide a number of testing procedures and quality control inspections. JACO's unique in-house capabilities are your assurance of quality parts, timely service and competitive pricing.

Contact JACO for more information on our wide range of products and services for the plastics industry.



HOW TO SELECT MATERIALS

(P) Polypropylene: (20% glass filled for improved strength.) Opaque flat white color, (most white of JACO Fittings). Material temperature rating is -30°F to 225°F. Polypropylene (PP) is a workhorse in the plastics industry. The general physical properties of polypropylene are similar to those of high-density polyethylene, (PE), but PP has a harder durometer and is more rigid. It is also more resistant to environmental stress cracking than PE. Polypropylene (PP) is light weight and high in chemical resistance. It is unaffected by alkalis (bases), salts and most weak acids, (particularly hydrochloric and phosphoric acids). Below 175°F it has good resistance to organic solvents. It is not suitable for oxidants, strong acids, chlorinated hydrocarbons, high concentrations of free chlorine, and aromatic compounds (such as benzene and toluene). PP is very inert, thus popular for high purity applications such as deionized water, etc. Avoid use in continuous sunlight. N.S.F. 14 certified, N.S.F. 61 compliant. Tensile Strength of 4,500 psi increases to 6,400 psi with glass fill. Durometer = 70D to 80D, (Autoclavable – yes).

(N) Nylon 6: Nylon 6 is an off-white, very light gray colored material (a little whiter than PVDF material, but not as white as Acetal). Because of Nylon's versatility it is one of the most widely used thermoplastics. Nylon 6 is a tough, strong, abrasion-resistant material with excellent impact resistance, both single and repeated. The material temperature rating is between -40°F to 250°F, and it has good strength at high temperatures. Since Nylon naturally absorbs water it is typically not preferred for wet applications. Moisture acts as a plasticizer, reducing tensile strength and stiffness, and increasing elongation. However, as moisture content rises, significant increases occur in impact strength and energy absorbing characteristics. Dry state properties will return as the material dries out. Nylon has good chemical resistance to organic solvents, oils, hydrocarbons, and fuels. Nylon 6 has poor chemical resistance to strong acids and bases. It is not recommended for use with ammonium, boric acid, calcium, sulfuric acid, or hydrochloric acid. N.S.F. Listed. F.D.A. Listed. Tensile Strength = 8,800 psi, Durometer = 75D to 90D. (Autoclavable – No).

(K) PVDF (Polyvinylidene fluoride): PVDF has a semi-translucent cloudy off-white appearance. It is superior to other fitting thermoplastics in abrasion resistance and chemical resistance for handling highly corrosive fluids. It has remarkable strength over the largest working chemical range. The material is rated at -80°F to 275°F and has a working temperature range for fittings of -40°F to 250°F. PVDF's impact strength is over twice that of PVC, and is extremely durable and abrasion resistant under mechanical abuse. It also has outstanding aging resistance, with its properties remaining constant after many years. PVDF also has remarkable fire resistant properties. In the Underwriter's test PVDF was given the highest classification (V-O), indicating that it was non-flammable and self-extinguishing. PVDF has excellent chemical resistance against strong inorganic and organic acids, aliphatic and aromatic hydrocarbons, and halogenated solvents such as chlorine and bromine. PVDF is not suitable with fuming sulfuric acid, concentrated alkalis, hot bases or bases having a PH >12. PVDF is FDA compliant, absolutely non-toxic and can be used in repeated contact with food products. N.S.F. Listed. Tensile Strength = 5,900 psi. Durometer = 75D. (Autoclavable – yes).

(C) Acetal Copolymer: Acetal has a glossy slippery white appearance that may yellow over time. It has high tensile strength and good wear resistance over a broad range of temperatures. The material is rated at -40°F to 200°F in open air, and rated for 180°F in hot water applications. Not affected by continuous hot water service and works smoothly with metal and hard surface tubing.

Note: Acetal copolymer cannot be recommended for continuous exposure to solutions with a chlorine concentration greater than 1 ppm. (Many water treatment facilities use up to 4 ppm of chlorine concentration.) Acetal is unaffected by formaldehyde, oil, alcohols, and most inorganics. However, it is not recommended for use with acids. Good resistance to methylethylketones and has low moisture absorption rate. Listed by U.S.D.A and F.D.A. for use with coffee, milk, and antibiotics. Also N.S.F. Listed. Should not be continuously exposed to sunlight (UV). Tensile Strength = 8,800 psi, Durometer = 90D to 95D. (Autoclavable – No).

Web Links for Chemical Resistance of Thermoplastics:

- https://www.gvc.net/docs/gvc_doc_00002.pdf
- <http://www.hipco.com/chemGuide.cfm>
- <http://www.chemline.com/librarychemguide.html>
- <http://www.quickcutgasket.com/pdf/Chemical-Resistance-Chart.pdf>
- http://www.graco.com/content/dam/graco/ipd/literature/misc/chemical-compatibility-guide/Graco_ChemCompGuideEN-B.pdf

Chemical & Environmental Resistance of Thermoplastics

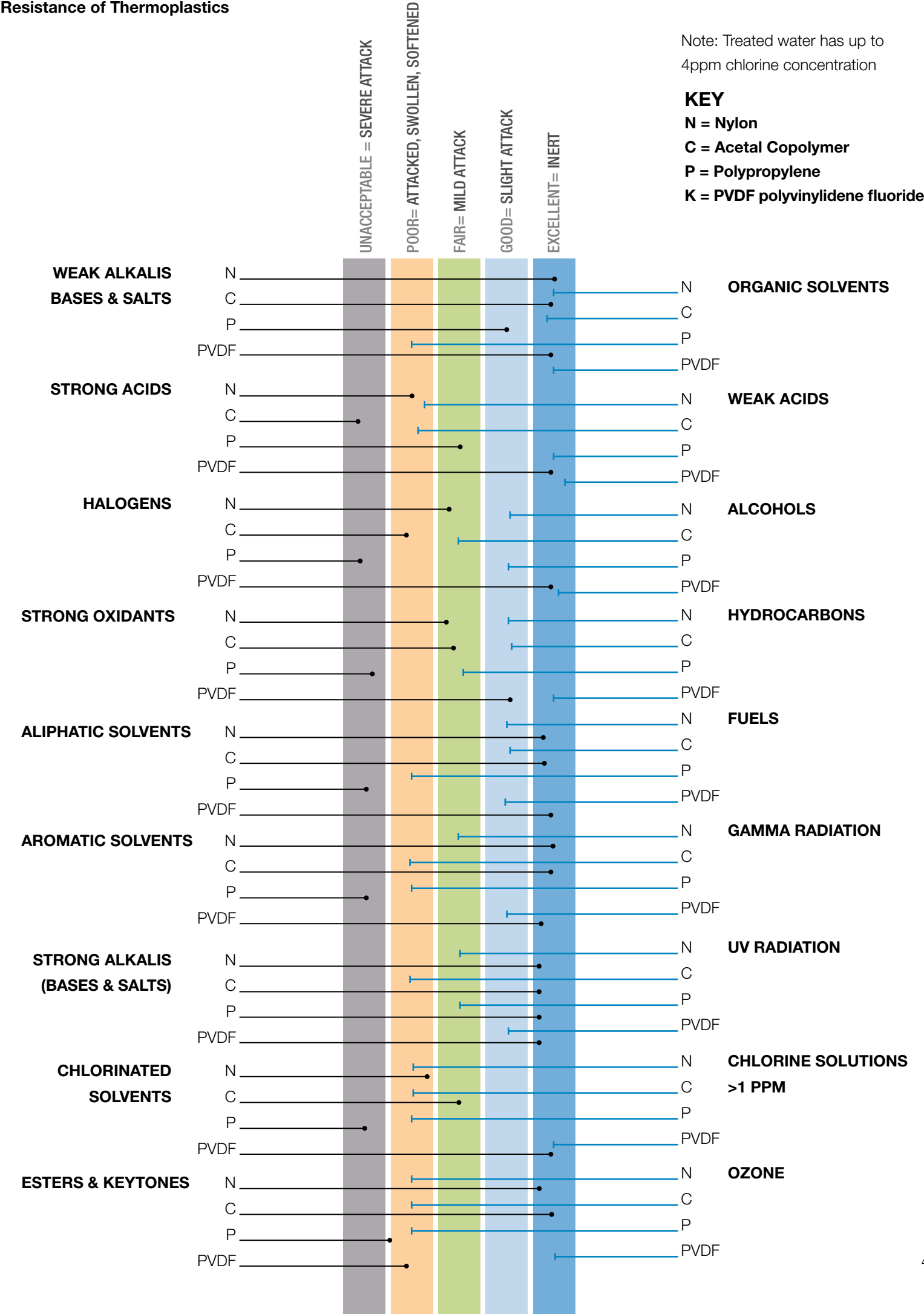
Note: These chemicals and environmental resistance ratings for thermoplastics are provided for comparison purposes only. No assurance can be implied that any compound will meet the ratings listed. End users should conduct their own evaluation of compounds to ensure satisfactory compatibility with any environmental or physical conditions to which they may be exposed.

No information supplied by JACO Manufacturing Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as suggestion for investigation of use, based upon JACO or other customer experience. JACO makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use.

Chemical & Environmental
Resistance of Thermoplastics

Note: Treated water has up to 4ppm chlorine concentration

KEY
N = Nylon
C = Acetal Copolymer
P = Polypropylene
K = PVDF polyvinylidene fluoride



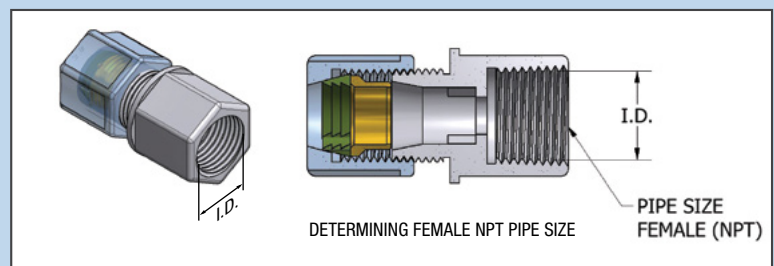
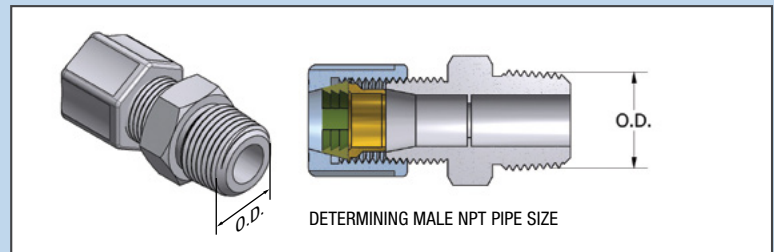
How to? ORDER JACO COMPRESSION TUBE FITTINGS

Please read before ordering: Pipe size is the accepted industry designation, not the actual measured size. To determine pipe size, first use a measuring device to measure the outside diameter (OD) or inside diameter (ID), as shown in diagram at right. Then round to the nearest dimension listed in the chart and select the corresponding pipe size.

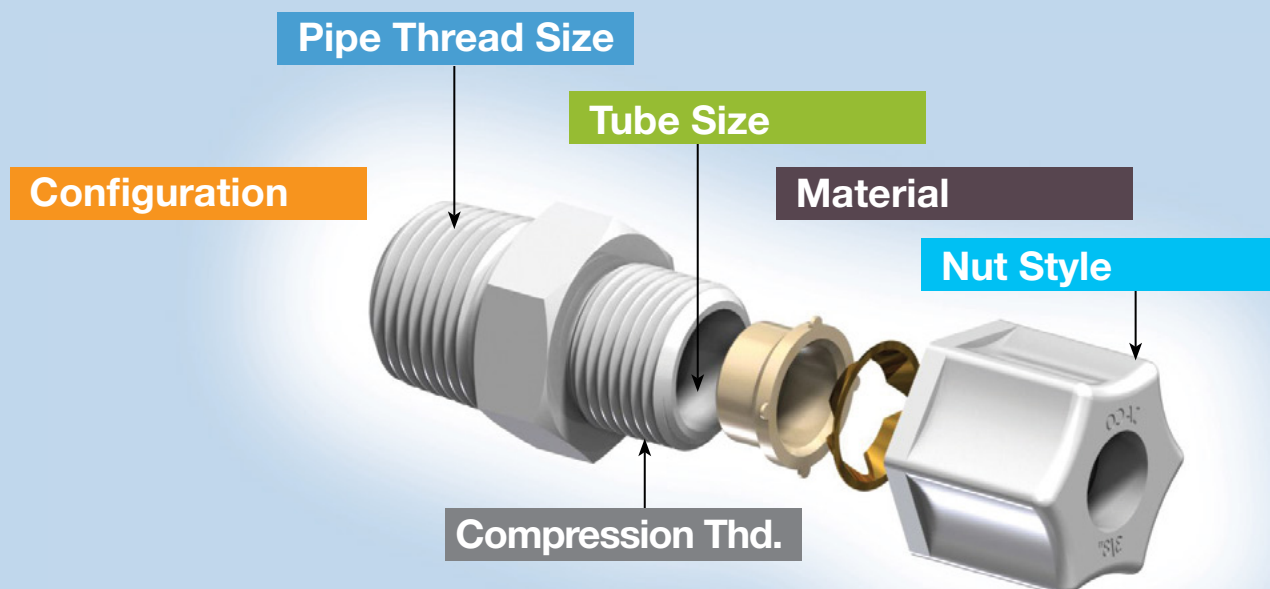
Note: Fitting dimensions as described in this brochure may not reflect running changes made to improve part performance. Check with JACO Manufacturing Company in critical applications. Dimensions are in inches. Select metric sizes are available.

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

Threaded Fitting OD or ID	3/8"	1/2"	5/8"	3/4"	1"
Pipe Size	1/8"	1/4"	3/8"	1/2"	3/4"



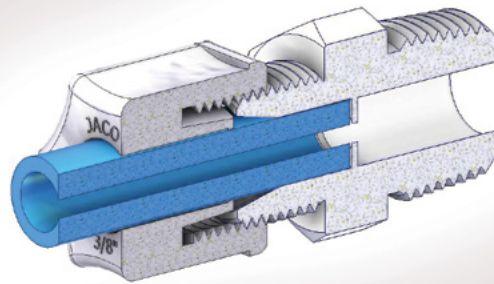
Note: It is not necessary to designate the nut size when ordering complete units as this will be determined by the tube size indicated in the part number.



Your order should contain the following specifications.
Example of a "Part Number" below:

10 - **6** - **6** - **P, C, N, K** - **0, PG, SG**

Configuration Tube Size Pipe Size Material Nut Style



O

Ferrule Nut with integral sleeve
low pressure applications soft
plastic tubing *50 p.s.i.

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

For example:

The 1st number identifies
the shape/configuration, i.e.

10... Male Connector

25... Female Connector

50... Union Elbow, etc.

The 2nd number designates the
tube size, in 1/16" increments,
i.e.

4.....1/4" O.D. Tubing

8.....1/2" O.D. Tubing.

The 3rd 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:

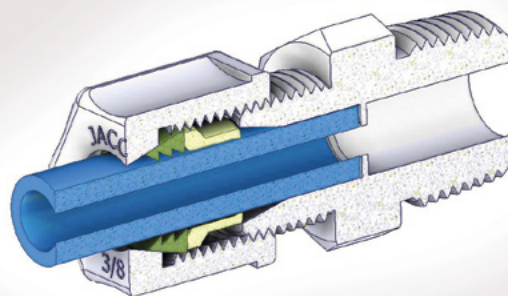
P, C, N, or K

The last letter(s) denote the
nut style:

O.....Standard: *50 p.s.i.

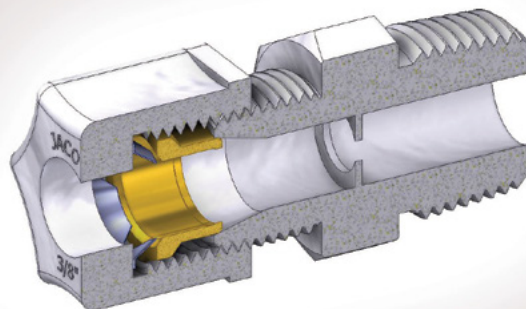
P.G....Plastic Gripper for plastic
tubing: *220 p.s.i.

S.G....Stainless Steel Gripper for
use with hard surfaced tubing:
*220 p.s.i.



PG

Nut with Plastic Gripper for use
with plastic tubing for sure grip
*220 p.s.i.



SG

Nut with Stainless Steel Gripper
for use with hard and smooth
surfaced tubing *220 p.s.i.

Configuration

(Fitting or Part Type)

10.....Male Connector

15.....Union & Reducing Union

20.....Bulkhead Unions

25.....Female Connectors

40.....Male Elbows

45.....Female Elbows

50.....Union & Reducing Elbows

60.....Male Branch Tees

70.....Union Tees

75.....Male Run Tees

P.....Inserts

PN....Pipe Nipple

BLD..Blind Nut

CV.....Check Valve

B.....Bulkhead Nut

Tube Size

(Tube O.D.)

FRACTIONAL, (IN.)

2 = 1/8

4 = 1/4

5 = 5/16

6 = 3/8

8 = 1/2

10 = 5/8

12 = 3/4

14 = 7/8

METRIC, (MM)

4MM = 4

6MM = 6

8MM = 8

10MM = 10

12MM = 12

Pipe Thread Size

NPT (IN.)

2 = 1/8 - 27 NPT

4 = 1/4 - 18 NPT

6 = 3/8 - 18 NPT

8 = 1/2 - 14 NPT

12 = 3/4 - 14 NPT

BSPT (IN.)

2 BSPT = 1/8 - 28 BSPT

4 BSPT = 1/4 - 19 BSPT

6 BSPT = 3/8 - 19 BSPT

Material

N = Nylon 6

C = Acetal Copolymer

P = Polypropylene

K = PVDF, Polyvinylidene Fluoride

Nut Style

O=Standard (Ferrule Nut):

*50 psi rating

PG-220 p.s.i.

SG-220 p.s.i.

INSTALLATION INSTRUCTIONS FOR JACO TUBE FITTINGS

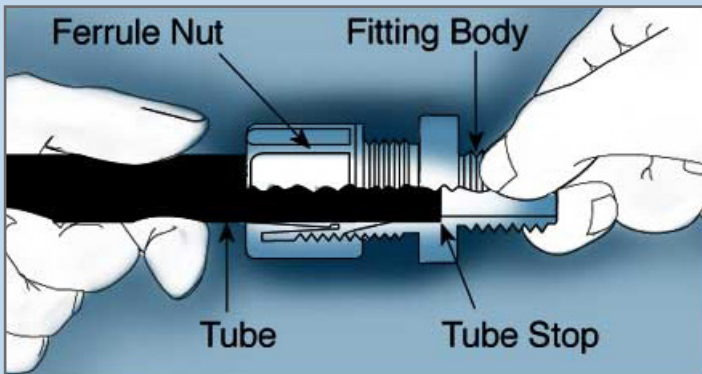
1. Cut the tubing end squarely and remove the internal and external burrs.

2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration).

3. While holding the tubing firmly against the tube stop, hand tighten the nut.

4. Wrench tighten the nut 1½ to 2 additional turns.

5. All nuts must be retightened when the system reaches projected operating temperature.



Caution: To ensure proper assembly, tubing **MUST** be fully inserted into the fitting body to the tube stop.

Notes on Installation

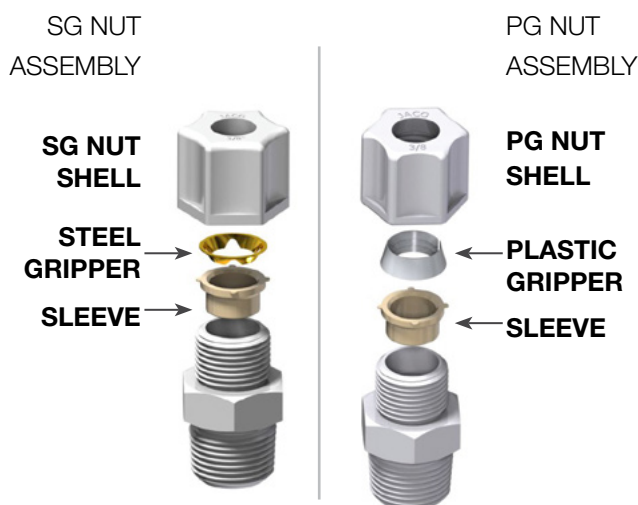
- If the tubing does not enter the nut easily, loosen the nut one turn and then insert the tubing all the way to the tube stop in the fitting body.
- It is not necessary to disassemble this fitting for application. Merely insert tubing to stop and tighten nut.
- Squeaking sound when tightening nut is normal. For NPT pipe threaded connections, PTFE Pipe Thread Sealant or PTFE Pipe Seal Tape must be used.
- With metal tubing deburr and clean outside of metal surface engaged by the fitting with steel wool. Finish cleaning prepared surface with denatured alcohol.

ASSEMBLY INSTRUCTIONS FOR JACO NUTS

Please follow these diagrams in assembling **NUTS**.

As shown below, insert **GRIPPER** into **NUT**.

Push **SLEEVE** into **NUT** assembly.



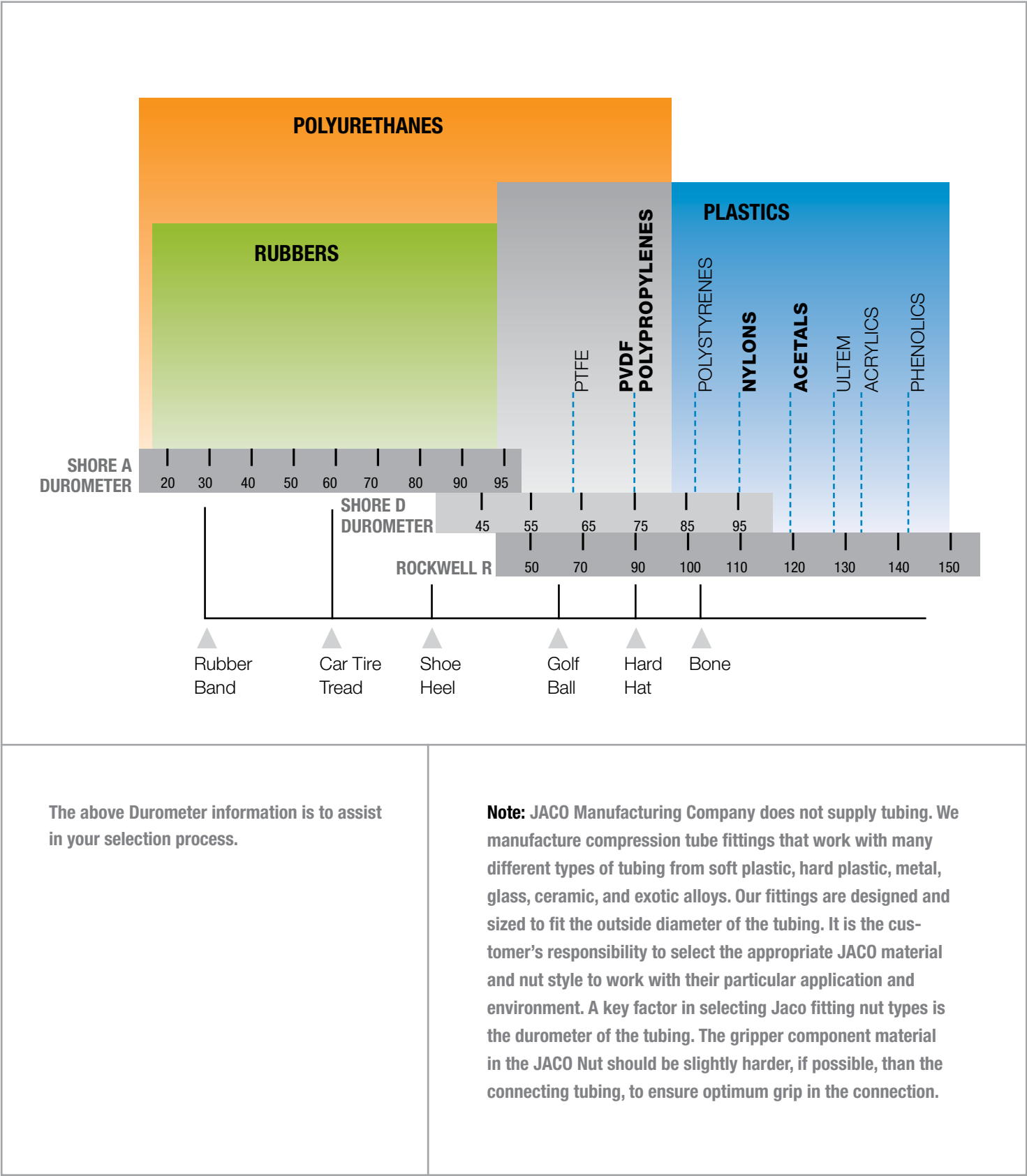
Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, temperature, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution

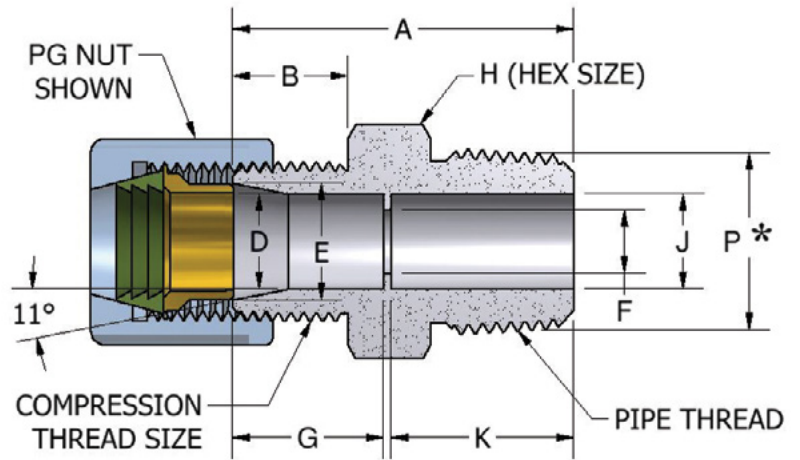
Do not mix or interchange parts with those of other manufacturers.

HARDNESS COMPARISON CHART



MALE CONNECTORS

10



Section shown
with Nut Style, PG,
Plastic Gripper Nut

*Note: (P-1/4 in.) = Pipe Thread Size (See Table)

MALE CONNECTORS

Jaco Part No. Prefix					Tube O.D.	Pipe Thd. NPT	Comp. Thd.	A	B	D	E	F	G	H	J	K	P*	P*-1/4 = PIPE THD
Conf.	Tube	Pipe	Mtl.	Nut				±1/64	±1/64	+0.005 +0.010		±.010	±1/64	±1/64	±1/64	±1/64		
10	2	2		PG	1/8	1/8	5/16-24	7/8	5/16	.125	.175-.180	.109	7/16	7/16	15/64	25/64	3/8	1/8
10	4	2		PG	1/4	1/8	7/16-20	63/64	3/8	.250	.330-.335	.170	15/32	5/8	3/16	15/32	3/8	1/8
10	4	4		SG	1/4	1/4	7/16-20	1-3/16	11/32	.250	.330-.335	.170	15/32	5/8	5/16	11/16	1/2	1/4
10	4	6		SG	1/4	3/8	7/16-20	1-13/64	3/8	.250	.330-.335	.170	15/32	13/16	3/8	43/64	5/8	3/8
10	5	2			5/16	1/8	1/2-20	1	3/8	.312	.380-.385	.250	31/64	11/16	1/4	Thru	3/8	1/8
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	1/2	1/4
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	3/8	1/8
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	1/2	1/4
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	5/8	3/8
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	3/4	1/2
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	3/8	1/8
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	1/2	1/4
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	5/8	3/8
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	3/4	1/2
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	5/8	3/8
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	3/4	1/2
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	3/4	1/2
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	1	3/4
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	1	3/4

***Note:** Dimensional sizes indicated throughout catalog tables are based on Acetal Copolymer and PVDF material shrink rates except where noted.

UNION CONNECTORS

15

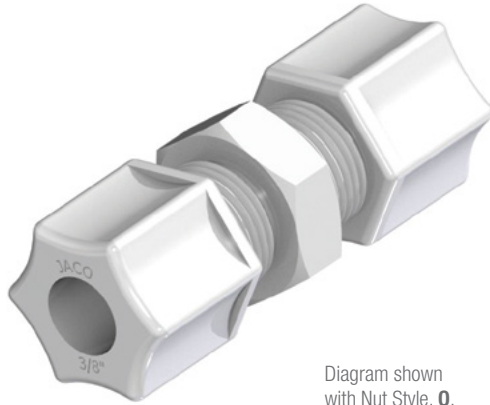
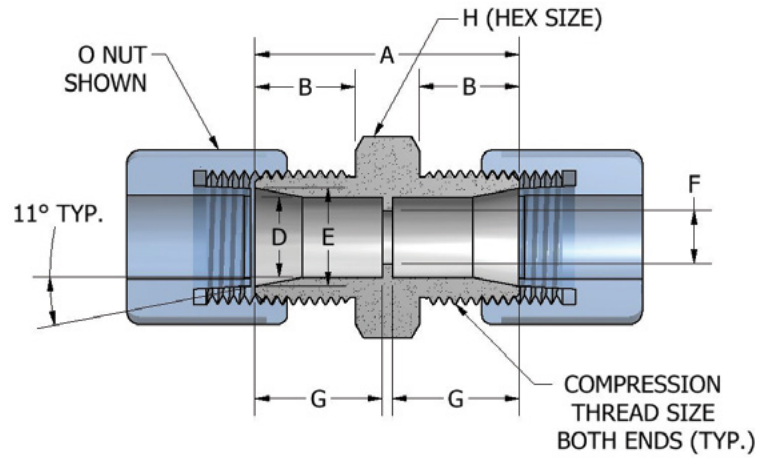


Diagram shown with Nut Style, O, Standard Ferrule Nut



UNION CONNECTORS

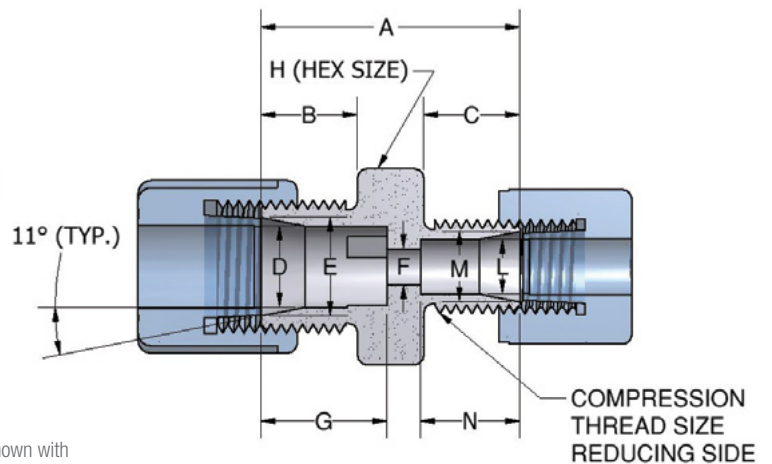
JACO Part No.	Tube O.D.	Comp. Thd.	A	B	D	E	F	G	H
Conf.	Tube	Mtl.	Nut						
15 - 4 - P - O PG SG	1/4	7/16-20	63/64	3/8	.250	.330-.335	.170	15/32	5/8
15 - 5 - K - O PG SG	5/16	1/2-20	1-1/32	25/64	.312	.380-.385	.232	31/64	11/16
15 - 6 - K - O PG SG	3/8	5/8-20	1-15/64	15/32	.375	.460-.465	.250	19/32	13/16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

REDUCING UNION CONNECTORS

15



Diagram shown with Nut Style, O, Standard Ferrule Nut

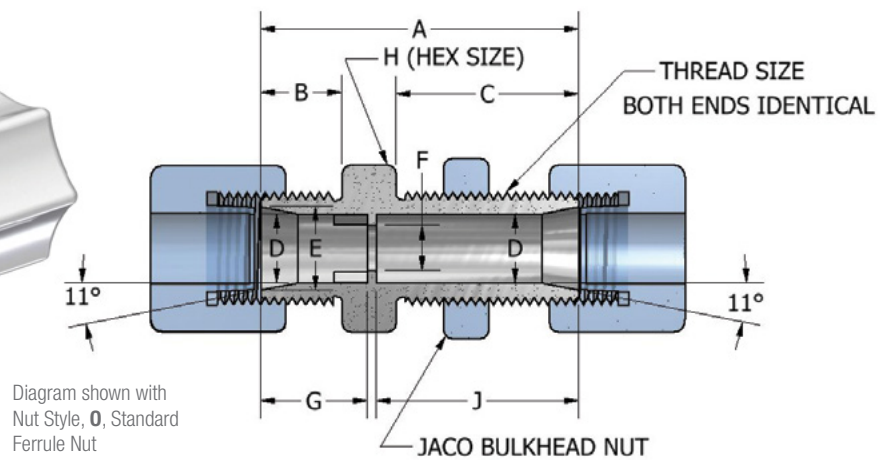
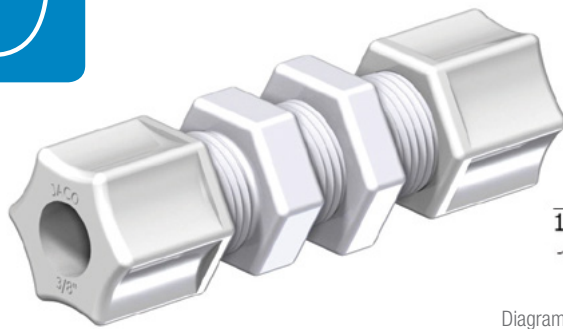


REDUCING UNIONS

JACO Part No.	Tube O.D.	Comp. Thd.	Comp. Thd.	A	B	C	D	E	F	G	H	L	M	N
Conf.	Tube	Tube	Mtl.	Nut										
15 - 4 - 2 - P - O PG SG	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 - K - O PG SG	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 - K - O PG SG	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	.300-.335	15/32
15 - 8 - 6 - K - O PG SG	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 - K - O PG SG	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 - K - O PG SG	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 - K - O PG SG	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

BULKHEAD UNIONS

20

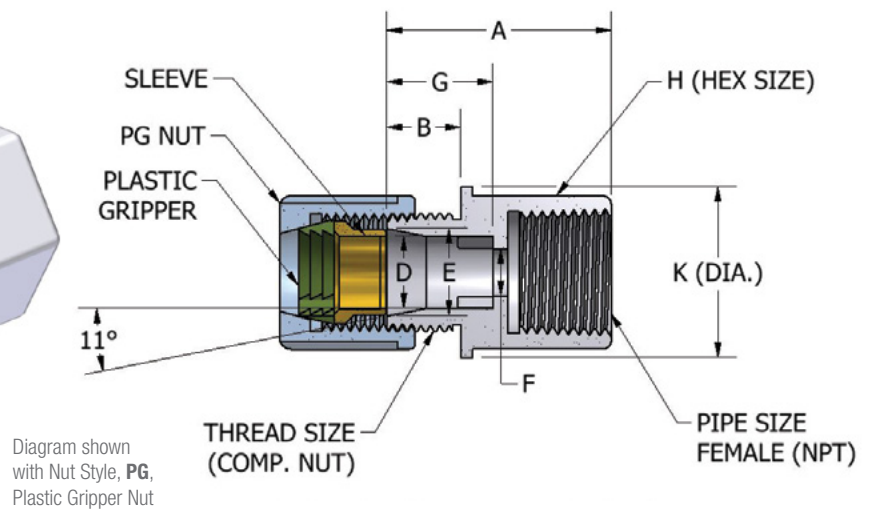
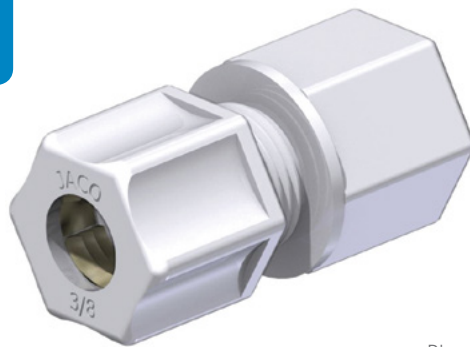


Bulkhead Union

JACO Part No.	Tube O.D.	Comp. Thd.	A	B	C	D	E	F	G	H	J	Bulkhead Thru Hole Clearance Recommendation
Conf.	Tube	Mtl.	Nut									
20 - 4 - P - 0	1/4	7/16-20	1-31/64	23/64	7/8	.250	.330-.335	.170	15/32	5/8	31/32	15/32
20 - 5 - P - SG	5/16	1/2-20	1-5/8	23/64	63/64	.312	.380-.385	.232	31/64	11/16	1-3/32	17/32
20 - 6 - K - SG	3/8	5/8-20	1-49/64	29/64	1-1/4	.375	.460-.465	.250	19/32	13/16	1-1/8	21/32
20 - 8 - MATL - NUT	1/2	3/4-20	1-7/8	35/64	1-3/4	.500	.590-.595	.375	11/16	15/16	1-9/64	25/32
20 - 12 - MATL - NUT	3/4	1-1/6-20	2-13/64	43/64	1-11/32	.750	.860-.865	.625	13/16	1-5/16	1-15/32	1-3/32

FEMALE CONNECTORS

25

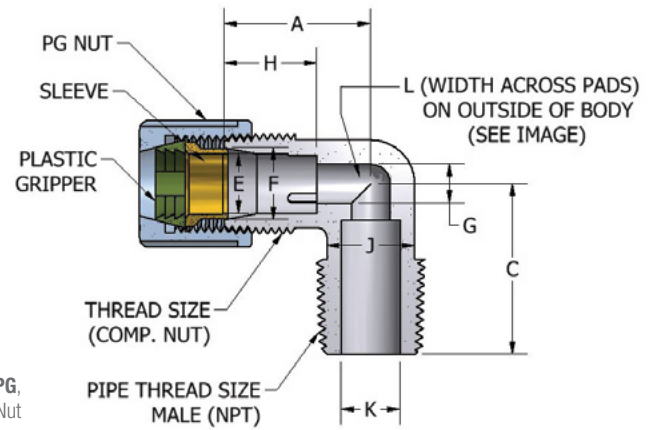


Female Connector

JACO Part No.	Tube O.D.	Pipe Thd. FNPT	Comp. Thd.	A	B	D	E	F	G	H	K
Conf.	Tube	Pipe	Mtl.	Nut							
25 - 4 - 2 - P - 0	1/4	1/8	7/16-20	59/64	23/64	.250	.330-.335	.170	15/32	43/64	25/64
25 - 4 - 4 - P - SG	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 - P - SG	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 - K - SG	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 - K - SG	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 - MATL - NUT	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 - MATL - NUT	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 - MATL - NUT	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 - MATL - NUT	5/8	1/2	7/8-20	1-1/2	11/16	.625	.715-.720	.500	45/64	1-1/16	N/A

MALE ELBOWS

40

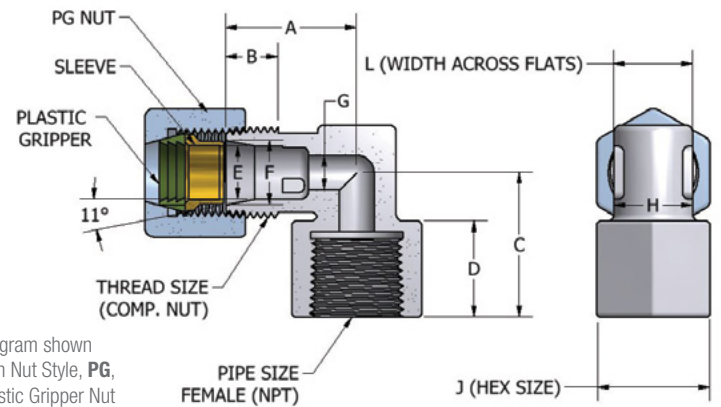


Male Elbows

JACO Part No.	Conf.	Tube	Pipe	Mtl.	Nut	Tube O.D.	Pipe Thd. NPT	Comp. Thd.	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	.180-.185	.109	7/16	1/4	13/64	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

45



Female Elbows

JACO Part No.	Conf.	Tube	Pipe	Mtl.	Nut	Tube O.D.	Pipe Thd. FNPT	Comp. Thd.	A	B	C	D	E	F	G	H	J	L
									±1/64	±1/64	+ .005 + .010	±1/64	.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	54/64	1-1/16	1-1/16	.625	.715-.720	.500	13/16	1-1/16	13/16

UNION & REDUCING UNION ELBOWS

50

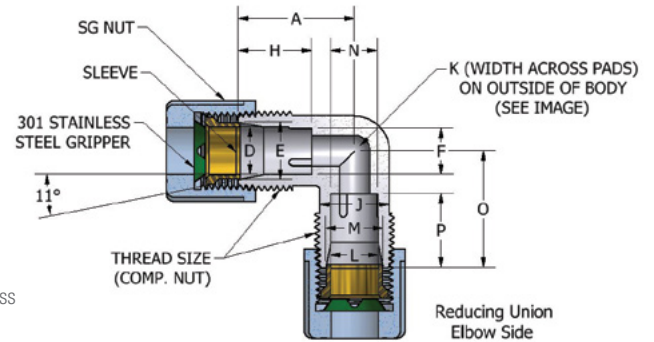


Diagram shown with Nut Style, SG, Stainless Steel Gripper Nut

Union Elbows

JACO Part No.	Tube O.D.	Comp. Thd.	A	D	E	F	H	J	K
Conf. Tube Mtl. Nut			±1/64	+0.005 +.010		±1/64	+/-1/64	±1/64	±1/64
50 - 4 - P - O PG SG	1/4	7/16-20	13/16	.250	.330-.335	.170	15/32	3/8	3/8
50 - 5 - C - O PG SG	5/16	1/2-20	29/32	.312	.380-.385	.232	31/64	7/16	7/16
50 - 6 - K - O PG SG	3/8	5/8-20	15/16	.375	.460-.465	.250	19/32	9/16	9/16
50 - 8 - - - O PG SG	1/2	3/4-20	1-1/16	.500	.590-.595	.375	11/16	11/16	45/64
50 - 10 - - - O PG SG	5/8	7/8-20	1-1/4	.625	.715-.720	.500	45/64	13/16	55/64
50 - 12 - MATERIAL - NUT	3/4	1-1/16	1-35/64	.750	.860-.865	.625	13/16	1	1
50 - 14 - MATERIAL - NUT	7/8	1-3/16-16	1-9/16	.875	.995-1.000	.750	7/8	1-1/8	1-3/16

Reducing Union Elbow

JACO Part No.	Tube O.D.	Comp. Thd.	A	D	E	F	H	J	K	L	M	N	O	P
Conf. Tube Tube Mtl. Nut			±1/64	+0.005 +.010		±1/64	±1/64	±1/64	±1/64	+0.005 +.010		±0.010	±1/64	±1/64
50 - 14 - 10 - - -	7/8-5/8	1-13/16-20-7/8-20	1-9/16	.875	.995-1000	.750	7/8	1-1/8	1-3/16	.625	.715-.720	.500	1-29/64	45/64

MALE BRANCH TEES

60

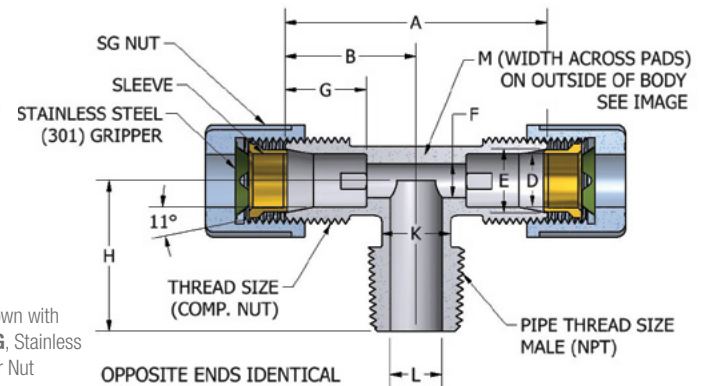


Diagram shown with Nut Style, SG, Stainless Steel Gripper Nut

Male Branch Tees

JACO Part No.	Tube O.D.	Pipe Thd. NPT	Comp. Thd.	A	B	D	E	F	G	H	K	L	M
Conf. Tube Pipe Mtl. Nut				±1/64	±1/64	+0.005 +.010		±1/64	±1/64	±1/64	±1/64	±1/64	±1/64
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 - P - O PG SG	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 - C - O PG SG	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 - K - O PG SG	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	.325	.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 - MATERIAL - NUT	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 - MATERIAL - NUT	7/8	3/4	1-3/16-16	3-3/32	1-35/64	.875	.955-1.000	.750	7/8	1-5/8	1-3/16	11/16	1-3/16

UNION TEES

70

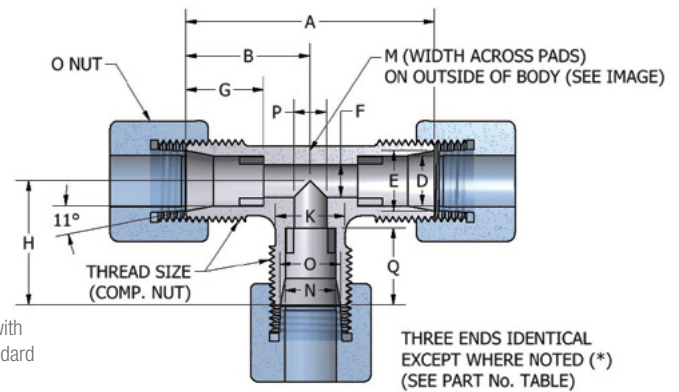
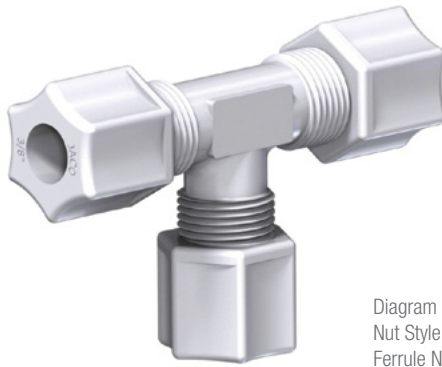


Diagram shown with
Nut Style, O, Standard
Ferrule Nut

Union Tees

JACO Part No.	Tube O.D.	Comp. Thd.	A	B	D	E	F	G	H	K	M	N	O	P	Q
Conf.	Tube	Mtl.													
70 - 2 -	1/8	5/16-24	±1/64	±1/64	+.005 +.010	+.005 -.000	±1/64	±1/64	±1/64	±1/64	±1/64	+.005 +.010	+.005 -.000	±.010	±1/64
70 - 4 -	1/4	7/16-20	1-7/16	47/64	.250	.330	.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	.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	.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	.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	.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	.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	.750	7/8	1-35/64	1-1/8	1-3/16	N/A	N/A	N/A	N/A
*70-10-6-M-N	5/8-3/8	7/8-20-5/8-20	2-17/32	1-17/64	.625	.715	.500	45/64	1-9/64	13/16	13/16	.375	.460	.250	19/32
*70-14-10-M-N	7/8-5/8	1-3/16-16-7/8-20	3-3/32	1-35/64	.875	.995	.750	7/8	1-7/16	1-9/64	1-5/32	.625	.715	.500	45/64
*70-14-10-10-M-N	7/8-5/8	1-3/16-16-7/8-20	3-1/64	1-29/64	.875	.995	.500	7/8	1-7/16	1-9/64	1-5/32	.625	.715	.715	45/64

*Note: M= Material Selection, N=Nut Selection

MALE RUN TEES

75

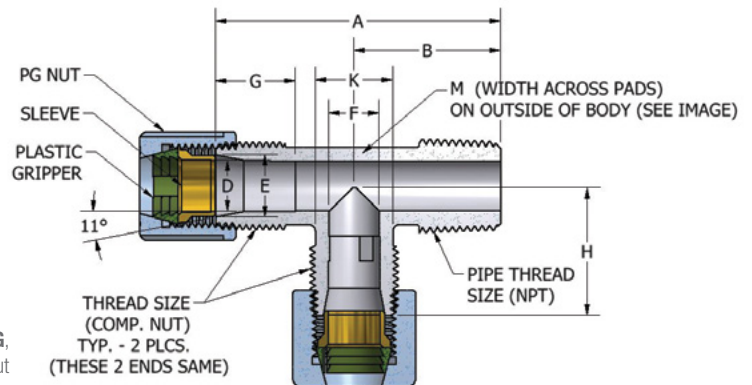


Diagram shown
with Nut Style, PG,
Plastic Gripper Nut

Male Run Tees

JACO Part No.	Tube O.D.	Pipe Thd. NPT	Comp. Thd.	A	B	D	E	F	G	H	K	M
Conf.	Tube	Pipe										
75 - 4 - 2 -	1/4	1/8	7/16-20	1-15/32	3/4	+.005 +.010		±.010	±1/64	±1/64	±1/64	±1/64
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	23/64
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

COMPRESSION NUTS

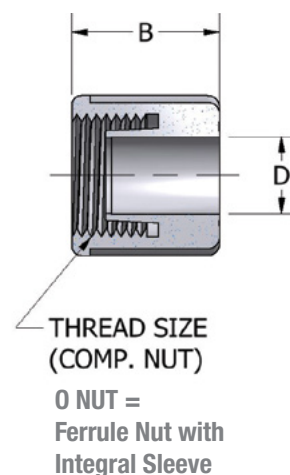
Parts available in Nylon, Acetal Copolymer, Polypropylene, PVDF.

Sizes indicated are based on Acetal Copolymer and PVDF material shrink rates.

Ferrule Nuts with Integral Sleeve

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

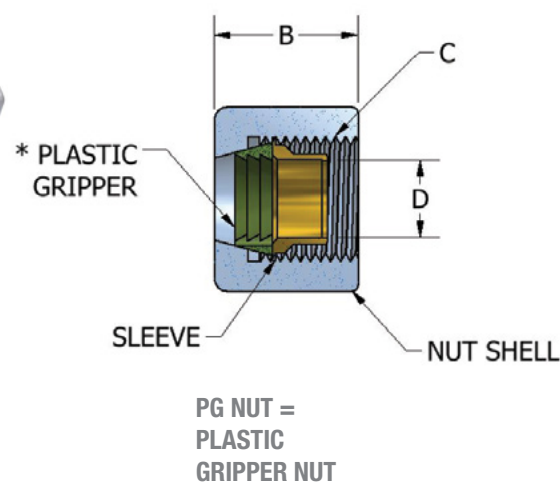
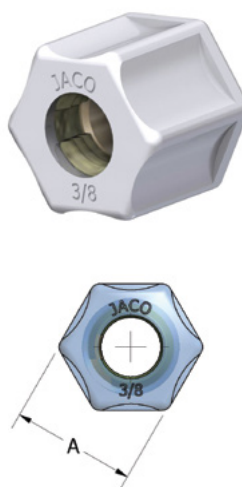
Note: Pressure rating = 50 psi



Plastic Gripper Nuts

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

Note: Pressure rating = 220 psi

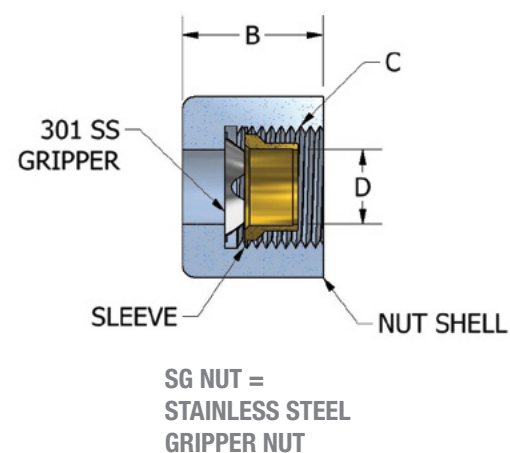
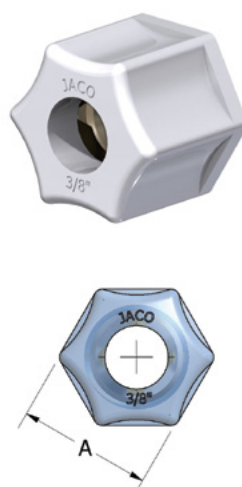


*Note: P/K Material Nut: Use PVDF Material Gripper, N/C Material Nut: Use Acetal Copolymer Gripper

Stainless Steel Gripper Nuts

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

Note: Pressure rating = 220 psi

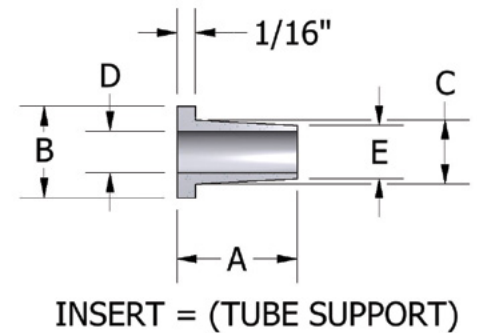


INSERTS & PIPE NIPPLES

Bulkhead Nuts, Blind Nuts, and Inserts available in Nylon, Acetal Copolymer, Polypropylene, PVDF.
 Sizes indicated are based on Acetal Copolymer and PVDF material shrink rates.

Inserts*

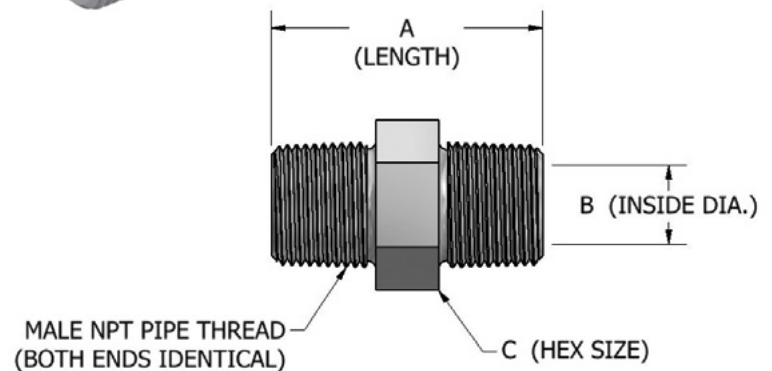
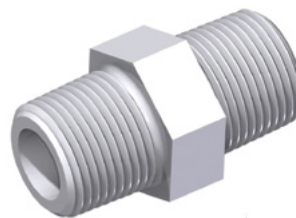
JACO Part No.	Tube O.D.	A	B	C	D	E
		±1/64		±.005	±.005	±.005
MATL. Config. Tube						
- P - 4	1/4	3/8	.240-.250	.199	1/8	.167
- P - 5	5/16	13/32	.300-.312	.217	9/64	.180
- P - 6	3/8	1/2	.360-.370	.245-.250	.200	.235
- P - 8	1/2	9/16	.475-.490	.370-.375	.300	.350



PIPE NIPPLES

Acetal Copolymer and PVDF Pipe Nipples* (non-stock)

JACO Part No.	MALE PIPE NPT	A	B	C
		±1/64	±1/64	±1/64
Config. Pipe Matl.				
PN - 2 - C	1/8	1	7/32	7/16
PN - 4 - K	1/4	1-13/32	21/64	5/8
PN - 6 - MATL.	3/8	1-31/64	25/64	13/16
PN - 8 -	1/2	1-51/64	33/64	15/16



*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.

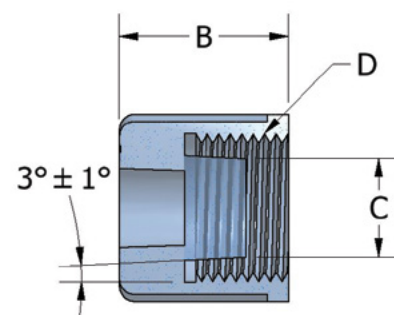
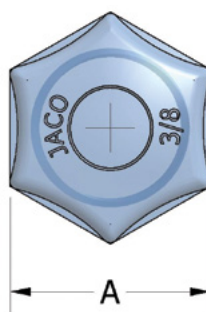
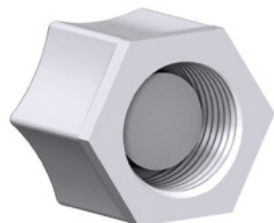
PN = PIPE NIPPLE
 (C or K Material Only)

JACO

BLIND & BULKHEAD NUTS

Bulkhead Nuts, Blind Nuts, and Inserts available in Nylon, Acetal Copolymer, Polypropylene, PVDF.

Sizes indicated are based on Acetal Copolymer and PVDF material shrink rates.

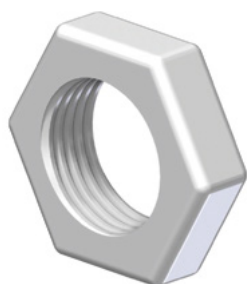


BLD NUT = BLIND NUT

Blind Nuts

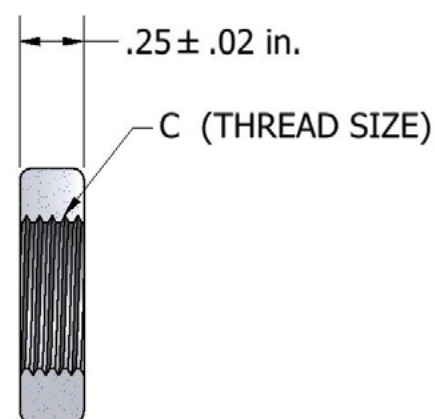
JACO				Tube	A	B	C	D
Part No.				O.D.				
Matl.	Nut	Tube	Conf.		±1/64	±1/64	±0.005	THD
- 0 -	2	BLD		1/8	7/16	33/64	.170	5/16-24
- 0 -	4	BLD		1/4	5/8	5/8	.300	7/16-20
- 0 -	5	BLD		5/16	11/16	11/16	.375	1/2-20
- 0 -	6	BLD		3/8	13/16	47/64	.455	5/8-20
- 0 -	8	BLD		1/2	15/16	7/8	.575	3/4-20

BULKHEAD NUTS



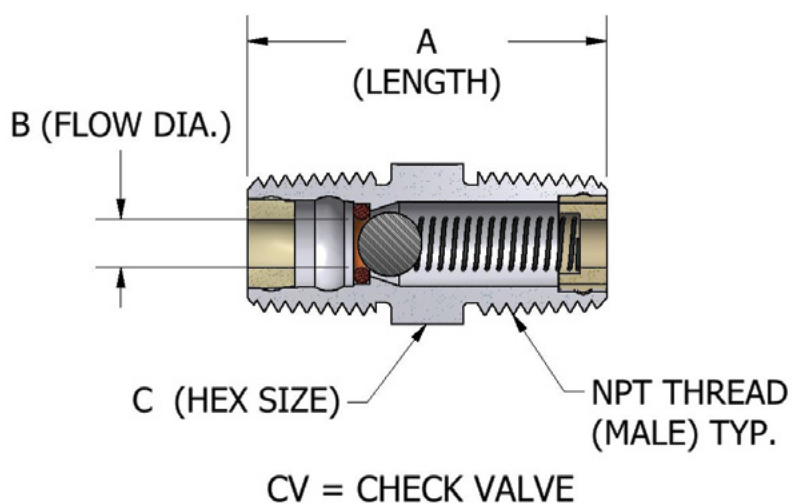
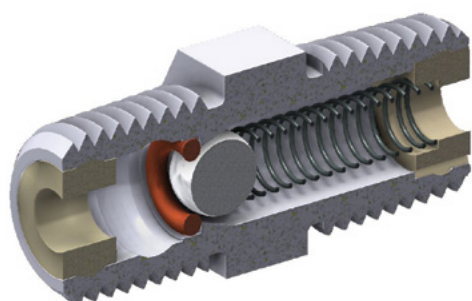
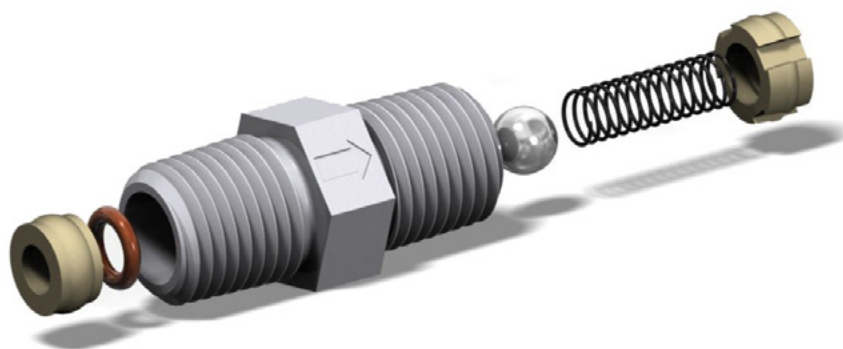
Bulkhead Nuts*

JACO				Tube	A (HEX)	C
Part No.				O.D.		
Matl.	Nut	Tube	Conf.		±1/64	Thd.
- 0 -	4	B		1/4	5/8	7/16-20
- 0 -	5	B		5/16	11/16	1/2-20
- 0 -	6	B		3/8	7/8	5/8-20
- 0 -	8	B		1/2	1-1/32	3/4-20
- 0 -	12	B		3/4	1-15/16	1-1/16-20



B NUT = BULKHEAD NUT

JACO CHECK VALVES



- Viton "O" Ring
- Stainless Ball & Spring (Grade 316)
- Maximum Operating Temp. 180°F @ 220 p.s.i.
- Cracking Pressure 1-2.5 p.s.i.
- Zero Leakage
- Male Pipe NPT Style
- All valves 100% tested prior to shipment

Check Valves

JACO			MATERIAL	MALE PIPE NPT	A ± 1/64	B ± 1/64	C ± 1/64
PART NO.							
Conf.	Pipe	Matl.					
CV - 2	- 2	- K	PVDF	1/8	1	3/32	7/16
CV - 4	- 4	- K	PVDF	1/4	1-13/32	3/16	5/8
CV - 6	- 6	- K	PVDF	3/8	1-1/2	1/4	13/16
CV - 8	- 8	- K	PVDF	1/2	1-51/64	11/32	15/16

JACO Check Valve Flow Rate in GPM at Various Water Pressure

Check Valve			Water Pressure			
Jaco Part No.			30 PSI	50 PSI	70 PSI	90 PSI
Conf.	Pipe	Matl.				
CV - 2	- 2	- K	0.45 gpm	0.55 gpm	0.70 gpm	0.75 gpm
CV - 4	- 4	- K	2.7 gpm	3.1 gpm	3.4 gpm	3.8 gpm
CV - 6	- 6	- K	3.0 gpm	3.5 gpm	4.0 gpm	4.5 gpm
CV - 8	- 8	- K	3.9 gpm	4.7 gpm	5.0 gpm	5.5 gpm

Contact us
for alternative
configurations
and applications.
800.229.JACO

IN-HOUSE TOOLING AND MANUFACTURING ENSURE

Quality

JACO is the most unique fittings company in the industry because it engineers and designs its own fittings, constructs the tooling, and then molds the fittings—all in-house.

JACO's many years as a custom injection molder, designing and producing a wide range of precision, close tolerance parts, has provided the company with the expertise to develop high quality fittings and check valves. By having total control of all manufacturing aspects from design through production, JACO can also control the quality.

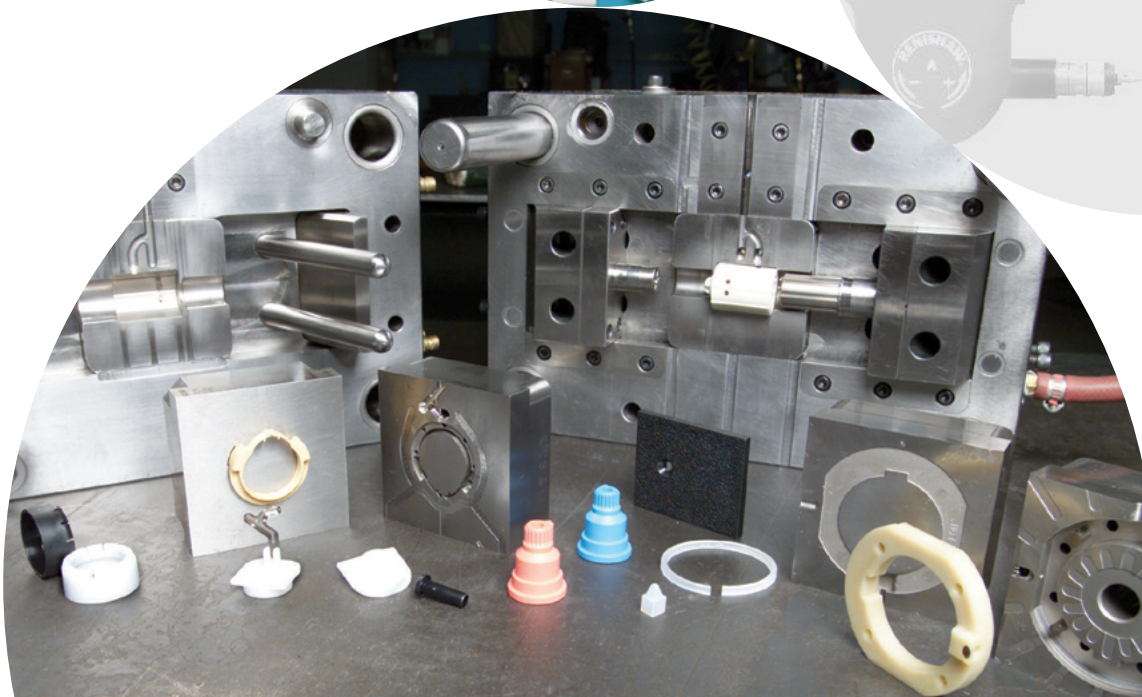
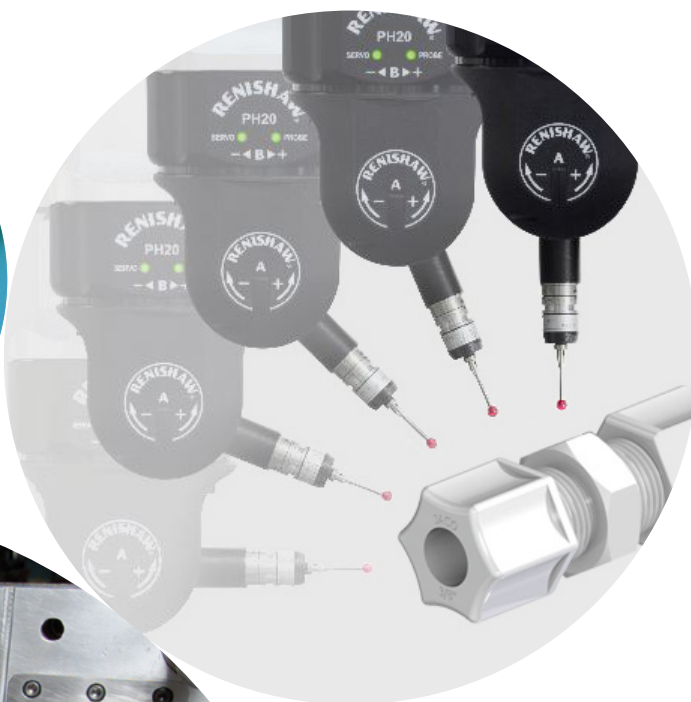
JACO's Engineering Group prepares fittings concepts into detailed engineering drawings. In JACO's Tooling Group, tooling experts use sophisticated equipment to design and craft the most complex of molds. JACO has built many varieties of fitting molds and has gained expertise in the development of threaded parts. A full complement of CNC and EDM machines, staffed by a team of professionals, JACO delivers superior quality molds. After tooling,

the work transfers to JACO's Molding Group, which utilizes more than 55 injection molding machines. Each day, thousands of fittings are molded to close tolerances with unfailing repeatability, using scientific molding processes.

In order to consistently meet all customer requirements and continually increase customer satisfaction, JACO is committed to the continuous improvement of our products, our services, and our Quality Management System. This total commitment to quality has enabled JACO to build and maintain a reputation of absolute trustworthiness. We are committed to providing the personnel and resources necessary to ensure the highest quality parts. This goal is achievable with the assistance of JACO's highly trained Quality Assurance Team which accurately measures parts using precision gauges and CMM instrumentation. With the company's various capabilities, it can continuously ensure the quality and capability of JACO fittings.

Quality Policy

At JACO, we are all personally committed to meet, and driven to exceed, our customers' expectations.





JACO designs, builds and manufactures its own line of injection molding machines with integrated process controllers.

ABOUT JACO

For inquiries and quotes on JACO custom molded products, please contact us:

Phone..... **440.234.4000**

Toll-Free **800.229.JACO**

Custom Mold Fax..... **440.234.0610**

email..... **sales@jacomfg.com**

www.jacomfg.com



EST. 1949

"We build thousands of Reverse Osmosis Systems annually and we are a large distribution house of water treatment equipment.

We are starting to do a catalog page and a web video of the reasons to use USA-made Jaco fittings whenever possible over "push-to-connect" fittings.

My 25 years of experience has shown me that "push-to-connect" fittings will leak over time due to worn o-rings. Jaco fittings may take a few seconds longer to assemble, but basically do not leak if they are assembled correctly."

Thanks,
E. Allan Horner CWS-VI, CI
(Certified Water Specialist)
Impact Water Products

TERMS

Price subject to change without notice.

Fittings are priced as complete units. Ordering nuts and bodies separately will not raise quantity to higher discount schedule.

Pricing is based on per order per release.

Discounts apply only to pack quantities.

Terms: NET 30 Days

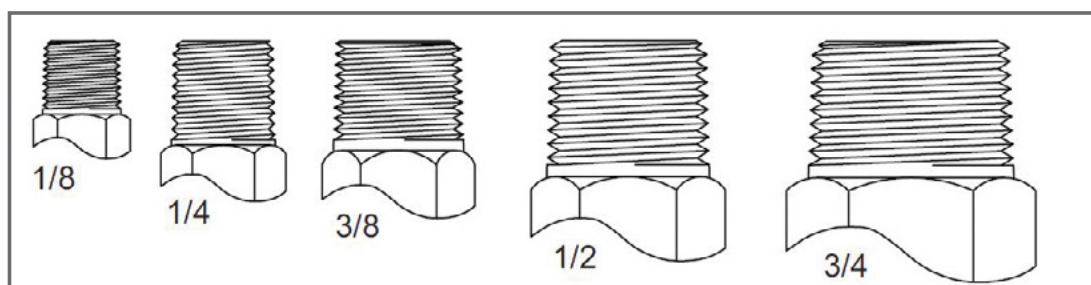
FREIGHT: EXW Berea, Ohio U.S.A.

MINIMUM ORDER U.S.A. \$100.⁰⁰ NET; FOREIGN \$150.⁰⁰ NET;

DISCOUNTS APPLY ONLY IF INVOICE TERMS ARE MET.

JACO

National Standard Taper Pipe Thread Size NPT Chart



Images to scale. (position part over image to determine size.)

Pipe Thread Sealants

A thread sealant should always be used when assembling tapered threads. PTFE Pipe Thread Sealant or PTFE Pipe Seal Tape must be used. These lubricants allow for a deeper seating of the threads, and help prevent the threads from seizing when being unscrewed. These products work as a deformable filler, helping to seal the joint without hardening and make the fitting easier to tighten. Thus, caution should be observed to avoid over-tightening plastic pipe threads.

Pressure Ratings

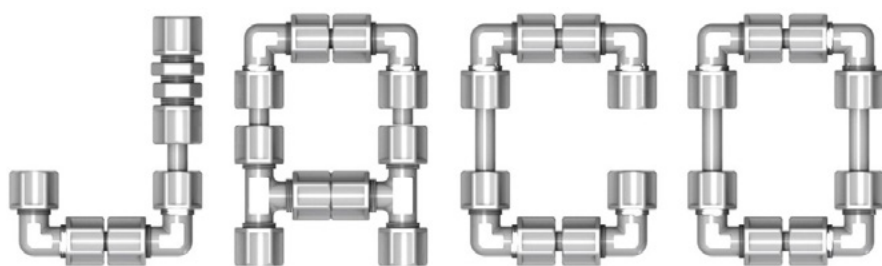
JACO Tube Fitting Pressure Ratings

JACO tube fittings are rated to the working pressures stated in this catalog. Careful selection of high-quality tubing is important when installing safe, leak-tight systems.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, temperature, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution: Do not mix or interchange JACO parts with those of other manufacturers.



Phone..... **440.234.4000**
Toll-Free**800.229.JACO**
Fittings FAX..... **440.234.7007**
email..... **sales@jacomfg.com**

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JACO

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