



15930 Common Road (P.O. Box 41) Roseville MI, 48066  
Phone: (586) 771-5100 / (800) 521-1002 Fax: (586) 771-9100  
Email: [sales@piperindustries.com](mailto:sales@piperindustries.com) / [www.piperindustries.com](http://www.piperindustries.com)

## MORE THAN 70 YEARS OF EXCELLENCE

Since 1946, Piper Industries, Inc. has dedicated itself to service, quality and performance in the design and manufacturing of precision Fittings and Hydraulic Adapters. Sizes of adapters range from 1/8 inch to 2-1/2 inches. Types of fittings include SAE/JIC 37 degree flared, O'Ring, pipe, swivel, bulkhead, hose barb, flange, metric, brazed tube and high-pressure flat faced O'Ring fittings. All fittings are available in a wide selection of shapes and sizes: elbows, tees, crosses, connectors, nipples, plugs and caps. All adapters are designed to the latest SAE specifications.

Piper Industries, Inc. also has a wide range of jump size fittings, compound fittings, special manifolds and valves. Our special manifolds and fittings greatly reduce the potential for leaks by eliminating numerous unnecessary joints, reducing production and field problems.

If you are currently "assembling" a fitting anywhere in your production process, we can reduce your inventory and purchase costs, as well as save you labor time and reduce field problems. We would be pleased to assist you in this process – call, fax, or email us today.

### -MAIN PLANT-

15930 Common Road  
PO Box 41  
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800-521-1002 \* 586-771-5100  
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All sizes are indicated in graduations of sixteenths of an inch according to the outside diameter of the tubing with which it will be mated. For example: 1/2 inch O.D. Tube is equal to 8/16 of an inch or a -8 size.

Pipe Thread is also indicated by sixteenths, both Male and Female.  
For example: 1/2 NPTF is equal to 8/16 NPTF or a -8 size.

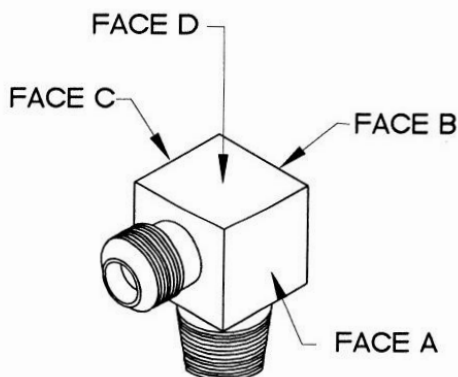
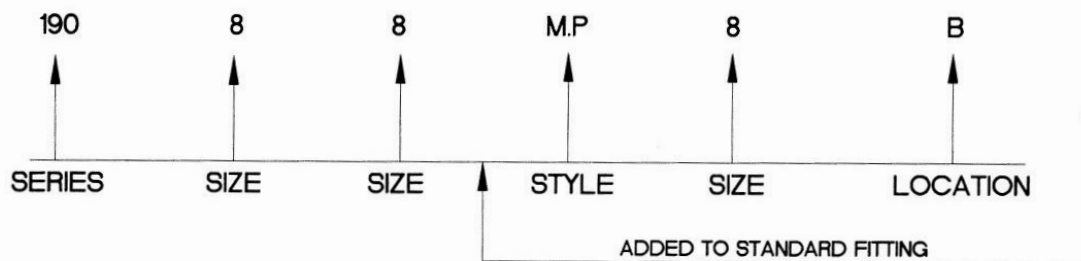
When ordering fittings, first use the series number, followed by Size A then Size B, etc.  
For example: 190-08-08

All Non-Standard Adapters may be engineered for your convenience by a qualified representative upon request.

We are always most willing to assist our many customers.

The following chart was designed to assist in the ordering of a standard adapter with an additional fitting incorporated for your need. The chart and examples below will provide you with the necessary information.

1. F.P. - Female Pipe
2. M.P. - Male Pipe
3. F.O.B. - Female O'Ring Boss
4. M.F. - 37 Degree J.I.C. Flare
5. H.B. - Hose Barb







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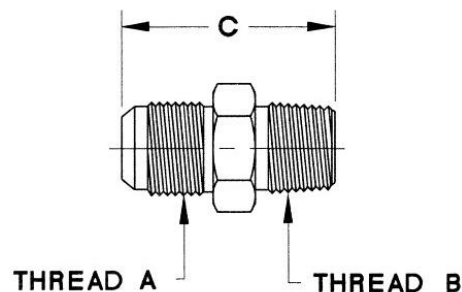
# **MALE CONNECTOR** **(070102)**

PART NO.	O.D.	THREAD A	THREAD B	DIM D
100-02-02	0.13	5/16-24	1/8-27	1.11
100-03-02	0.19	3/8-24	1/8-27	1.14
100-04-02	0.25	7/16-20	1/8-27	1.22
100-04-04	0.25	7/16-20	1/4-18	1.42
100-04-06	0.25	7/16-20	3/8-18	1.42
100-04-08	0.25	7/16-20	1/2-14	1.68
100-05-02	0.31	1/2-20	1/8-27	1.22
100-05-04	0.31	1/2-20	1/4-18	1.42
100-05-06	0.31	1/2-20	3/8-18	1.37
100-05-08	0.31	1/2-20	1/2-14	1.67
100-06-02	0.38	9/16-18	1/8-27	1.24
100-06-04	0.38	9/16-18	1/4-18	1.43
100-06-06	0.38	9/16-18	3/8-18	1.43
100-06-08	0.38	9/16-18	1/2-14	1.69
100-06-12	0.38	9/16-18	3/4-14	1.75
100-08-02	0.50	3/4-16	1/8-27	1.34
100-08-04	0.50	3/4-16	1/4-18	1.53
100-08-06	0.50	3/4-16	3/8-18	1.53
100-08-08	0.50	3/4-16	1/2-14	1.79
100-08-12	0.50	3/4-16	3/4-14	1.85
100-08-16	0.50	3/4-16	1-11 1/2	2.05
100-10-04	0.63	7/8-14	1/4-18	1.69
100-10-06	0.63	7/8-14	3/8-18	1.70
100-10-08	0.63	7/8-14	1/2-14	1.88
100-10-12	0.63	7/8-14	3/4-14	1.95
100-10-16	0.63	7/8-14	1-11 1/2	2.15
100-12-06	0.75	1 1/16-12	3/8-18	1.76
100-12-08	0.75	1 1/16-12	1/2-14	2.06
100-12-12	0.75	1 1/16-12	3/4-14	2.06
100-12-16	0.75	1 1/16-12	1-11 1/2	2.25
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DESIGN AND DIMENSION SUBJECT TO CHANGE WITHOUT NOTICE.

## **37 DEGREE TUBE FITTINGS**

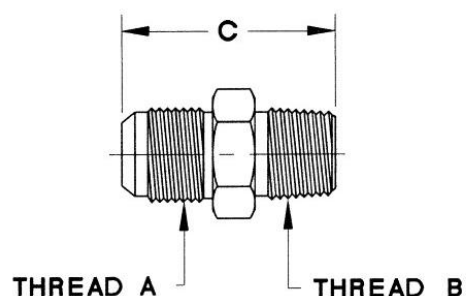
### **100 SERIES**





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## **100 SERIES**



## **MALE CONNECTOR (070102)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>
100-14-08	0.88	1 3/16-12	1/2-14	2.09
100-14-12	0.88	1 3/16-12	3/4-14	2.09
100-14-16	0.88	1 3/16-12	1-11 1/2	2.27
100-16-08	1.00	1 5/16-12	1/2-14	2.11
100-16-12	1.00	1 5/16-12	3/4-14	2.11
100-16-16	1.00	1 5/16-12	1-11 1/2	2.30
100-16-20	1.00	1 5/16-12	1 1/4-11 1/2	2.40
100-16-24	1.00	1 5/16-12	1 1/2-11 1/2	2.51
100-20-12	1.25	1 5/8-12	3/4-14	2.20
100-20-16	1.25	1 5/8-12	1-11 1/2	2.42
100-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.45
100-20-24	1.25	1 5/8-12	1 1/2-11 1/2	2.55
100-24-16	1.50	1 7/8-12	1-11 1/2	2.62
100-24-20	1.50	1 7/8-12	1 1/4-11 1/2	2.64
100-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.68
100-24-32	1.50	1 7/8-12	2-11 1/2	2.86
100-32-16	2.00	2 1/2-12	1-11 1/2	3.02
100-32-20	2.00	2 1/2-12	1 1/4-11 1/2	3.05
100-32-24	2.00	2 1/2-12	1 1/2-11 1/2	3.08
100-32-32	2.00	2 1/2-12	2-11 1/2	3.10
100-40-40	2.50	3-12	2 1/2-8	3.37

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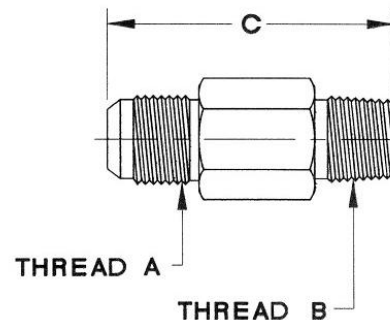
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## MALE CONNECTOR LONG (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
100L-04-02	0.25	7/16-20	1/8-27	1.81
100L-05-02	0.31	1/2-20	1/8-27	1.93
100L-06-04	0.38	9/16-18	1/4-18	2.25
100L-08-06	0.50	3/4-16	3/8-18	2.75
100L-10-08	0.63	7/8-14	1/2-14	3.12
100L-12-12	0.75	1 1/16-12	3/4-14	3.50
100L-14-12	0.88	1 3/16-12	3/4-14	3.75
100L-16-16	1.00	1 5/16-12	1-11 1/2	4.00
100L-20-20	1.25	1 5/8-12	1 1/4-11 1/2	4.50
100L-24-24	1.50	1 7/8-12	1 1/2-11 1/2	4.88
100L-32-32	2.00	2 1/2-12	2-11 1/2	5.62

DESIGN AND DIMENSION SUBJECT TO CHANGE WITHOUT NOTICE.

## 100L SERIES

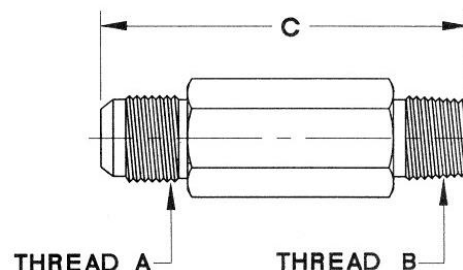


## MALE CONNECTOR EXTRA LONG (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
100XL-04-02	0.25	7/16-20	1/8-27	2.56
100XL-05-02	0.31	1/2-20	1/8-27	2.81
100XL-06-04	0.38	9/16-18	1/4-18	3.25
100XL-08-06	0.50	3/4-16	3/8-18	4.00
100XL-10-08	0.63	7/8-14	1/2-14	4.37
100XL-12-12	0.75	1 1/16-12	3/4-14	5.00
100XL-14-12	0.88	1 3/16-12	3/4-14	5.37
100XL-16-16	1.00	1 5/16-12	1-11 1/2	5.75

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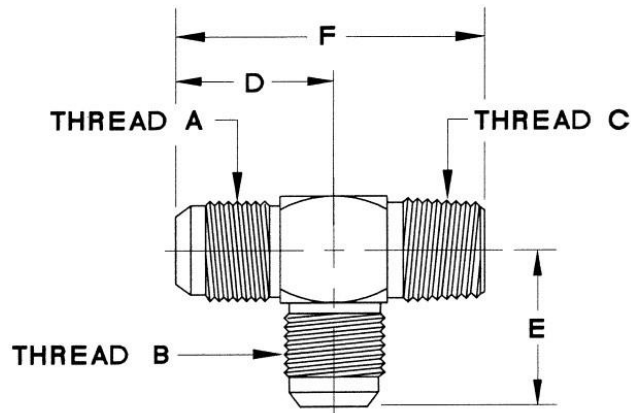
## 100XL SERIES





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## 120 SERIES



### MALE RUN TEE

(070424)

PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
120-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.89	1.67
120-04-04-04	0.25	7/16-20	7/16-20	1/4-18	0.95	0.95	2.04
120-05-05-02	0.31	1/2-20	1/2-20	1/8-27	0.95	0.95	1.73
120-05-05-04	0.31	1/2-20	1/2-20	1/4-18	1.05	1.05	2.14
120-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.06	1.06	2.15
120-06-06-06	0.38	9/16-18	9/16-18	3/8-18	1.14	1.14	2.36
120-06-06-08	0.38	9/16-18	9/16-18	1/2-14	1.22	1.22	2.70
120-08-06-06	0.50	3/4-16	9/16-18	3/8-18	1.25	1.14	2.47
120-08-06-08	0.50	3/4-16	9/16-18	1/2-14	1.25	1.22	2.72
120-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.25	1.25	2.47
120-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.31	1.31	2.78
120-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.45	1.45	2.92
120-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.66	1.66	3.25
120-14-14-12	0.88	1 3/16-12	1 3/16-12	3/4-14	1.73	1.73	3.42
120-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.81	1.81	3.78
120-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.06	2.06	4.44
120-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.33	2.33	4.97
120-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	3.06	3.06	6.06

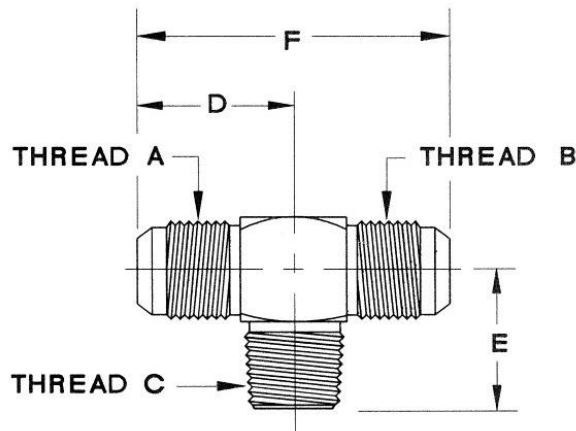
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## **130 SERIES**



### **MALE BRANCH TEE (070425)**

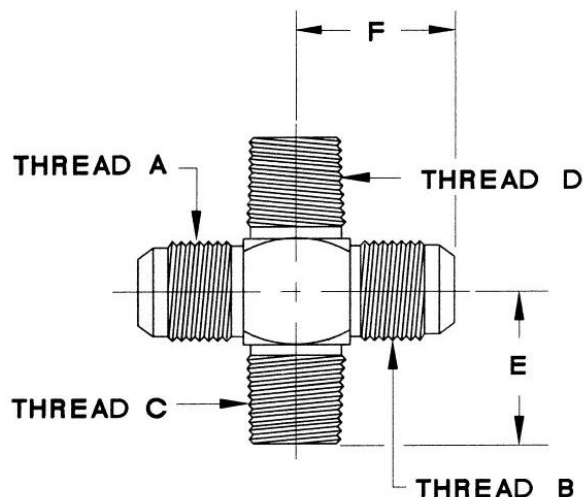
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
130-03-03-02	0.18	3/8-24	3/8-24	1/8-27	0.83	0.72	1.68
130-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.78	1.78
130-04-04-04	0.25	7/16-20	7/16-20	1/4-18	0.95	1.09	1.90
130-04-04-06	0.25	7/16-20	7/16-20	3/8-18	1.05	1.22	2.10
130-05-05-02	0.31	1/2-20	1/2-20	1/8-27	0.95	0.78	1.90
130-05-05-04	0.31	1/2-20	1/2-20	1/4-18	0.98	1.09	1.96
130-06-06-02	0.38	9/16-18	9/16-18	1/8-27	1.06	0.90	2.12
130-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.06	1.09	2.12
130-06-06-06	0.38	9/16-18	9/16-18	3/8-18	1.15	1.21	2.30
130-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.25	1.22	2.50
130-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.31	1.46	2.62
130-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.45	1.47	2.90
130-12-12-08	0.75	1 1/16-12	1 1/16-12	1/2-14	1.33	1.47	2.66
130-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.66	1.59	3.32
130-14-14-12	0.88	1 3/16-12	1 3/16-12	3/4-14	1.73	1.68	3.46
130-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.81	1.97	3.62
130-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.06	2.38	4.12
130-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.33	2.64	4.66
130-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	3.06	3.00	6.12

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## **140 SERIES**



### **CROSS-BRANCH STYLE-FLARE TO PIPE (NON STANDARD)**

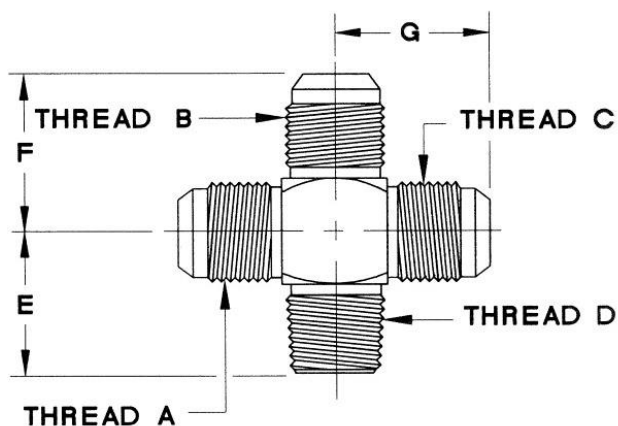
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>THREAD D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
140-04-04-02-02	0.25	7/16-20	7/16-20	1/8-27	1/8-27	0.89	0.78
140-06-06-04-04	0.38	9/16-18	9/16-18	1/4-18	1/4-18	1.06	1.09
140-08-08-06-06	0.50	3/4-16	3/4-16	3/8-18	3/8-18	1.25	1.22
140-10-10-08-08	0.63	7/8-14	7/8-14	1/2-14	1/2-14	1.45	1.47
140-12-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	3/4-14	1.66	1.59
140-16-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1-11 1/2	1.81	1.97
140-20-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.06	2.38

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## **141 SERIES**



### **CROSS-RUN STYLE-FLARE TO PIPE (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>THREAD D</u></b>	<b><u>DIME</u></b>	<b><u>DIM F</u></b>	<b><u>DIM G</u></b>
141-06-06-06-04	0.38	9/16-18	9/16-18	9/16-18	1/4-18	1.06	1.06	1.09
141-06-06-06-06	0.38	9/16-18	9/16-18	9/16-18	3/8-18	1.14	1.14	1.22
141-08-08-08-06	0.50	3/4-16	3/4-16	3/4-16	3/8-18	1.25	1.25	1.22
141-10-10-10-08	0.63	7/8-14	7/8-14	7/8-14	1/2-14	1.45	1.45	1.47
141-12-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	3/4-14	1.66	1.66	1.59
141-16-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1-11 1/2	1.81	1.81	1.97

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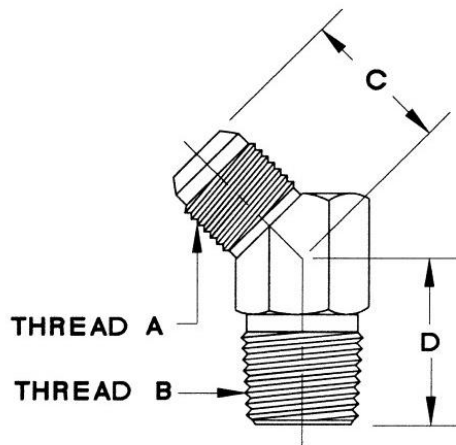


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## 145 SERIES

## 45 DEGREE MALE ELBOW

(070302)



PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
145-03-02	0.19	3/8-24	1/8-27	0.66	0.52
145-04-02	0.25	7/16-20	1/8-27	0.72	0.64
145-04-04	0.25	7/16-20	1/4-18	0.82	0.86
145-04-06	0.25	7/16-20	3/8-18	0.82	0.95
145-05-02	0.31	1/2-20	1/8-27	0.77	0.64
145-05-04	0.31	1/2-20	1/4-18	0.82	0.86
145-06-02	0.38	9/16-18	1/8-27	0.83	0.67
145-06-04	0.38	9/16-18	1/4-18	0.83	0.86
145-06-06	0.38	9/16-18	3/8-18	0.87	0.95
145-06-08	0.38	9/16-18	1/2-14	0.88	1.17
145-08-04	0.50	3/4-16	1/4-18	0.98	0.95
145-08-06	0.50	3/4-16	3/8-18	0.98	0.95
145-08-08	0.50	3/4-16	1/2-14	0.99	1.17
145-08-12	0.50	3/4-16	3/4-14	1.04	1.20
145-10-06	0.63	7/8-14	3/8-18	1.11	0.98
145-10-08	0.63	7/8-14	1/2-14	1.11	1.17
145-10-12	0.63	7/8-14	3/4-14	1.16	1.20
145-12-08	0.75	1 1/16-12	1/2-14	1.28	1.20
145-12-12	0.75	1 1/16-12	3/4-14	1.28	1.20
145-12-16	0.75	1 1/16-12	1-11 1/2	1.42	1.48
145-14-12	0.88	1 3/16-12	3/4-14	1.39	1.27
145-16-12	1.00	1 5/16-12	3/4-14	1.47	1.29
145-16-16	1.00	1 5/16-12	1-11 1/2	1.47	1.48
145-16-20	1.00	1 5/16-12	1 1/4-11 1/2	1.54	1.67
145-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1.59	1.67
145-24-24	1.50	1 7/8-12	1 1/2-11 1/2	1.78	1.77
145-32-32	2.00	2 1/2-12	2-11 1/2	2.22	2.11
145-40-40	2.50	3-12	2 1/2-8	1.89	2.78
145-48-48	3.00	3 1/2-12	3-8	2.05	2.94

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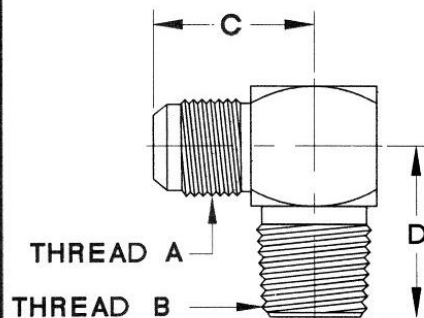
## 90 DEGREE MALE ELBOW

(070202)

## 190 SERIES

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
190-03-02	0.19	3/8-24	1/8-27	0.83	0.72
190-04-02	0.25	7/16-20	1/8-27	0.89	0.78
190-04-04	0.25	7/16-20	1/4-18	0.96	1.09
190-04-06	0.25	7/16-20	3/8-18	1.05	1.22
190-04-08	0.25	7/16-20	1/2-14	1.10	1.47
190-05-02	0.31	1/2-20	1/8-27	0.95	0.78
190-05-04	0.31	1/2-20	1/4-18	1.05	1.09
190-05-06	0.31	1/2-20	3/8-18	1.06	1.22
190-06-02	0.38	9/16-18	1/8-27	1.06	0.90
190-06-04	0.38	9/16-18	1/4-18	1.06	1.09
190-06-06	0.38	9/16-18	3/8-18	1.14	1.22
190-06-08	0.38	9/16-18	1/2-14	1.22	1.47
190-06-12	0.38	9/16-18	3/4-14	1.33	1.59
190-08-04	0.50	3/4-16	1/4-18	1.25	1.22
190-08-06	0.50	3/4-16	3/8-18	1.25	1.22
190-08-08	0.50	3/4-16	1/2-14	1.33	1.47
190-08-12	0.50	3/4-16	3/4-14	1.42	1.59
190-10-06	0.63	7/8-14	3/8-18	1.45	1.28
190-10-08	0.63	7/8-14	1/2-14	1.45	1.47
190-10-12	0.63	7/8-14	3/4-14	1.54	1.59
190-12-08	0.75	1 1/16-12	1/2-14	1.66	1.59
190-12-12	0.75	1 1/16-12	3/4-14	1.66	1.59
190-12-16	0.75	1 1/16-12	1-11 1/2	1.76	1.97
190-14-12	0.88	1 3/16-12	3/4-14	1.80	1.69
190-16-08	1.00	1 5/16-12	1/2-14	1.81	1.68
190-16-12	1.00	1 5/16-12	3/4-14	1.81	1.78
190-16-16	1.00	1 5/16-12	1-11 1/2	1.81	1.97
190-16-20	1.00	1 5/16-12	1 1/4-11 1/2	2.01	2.38
190-20-16	1.25	1 5/8-12	1-11 1/2	2.06	2.35
190-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.06	2.38
190-20-24	1.25	1 5/8-12	1 1/2-11 1/2	2.18	2.64
190-24-20	1.50	1 7/8-12	1 1/4-11 1/2	2.32	2.50
190-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.33	2.64
190-32-24	2.00	2 1/2-12	1 1/2-11 1/2	3.06	3.00
190-32-32	2.00	2 1/2-12	2-11 1/2	3.06	3.00
190-40-40	2.50	3-12	2 1/2-8	306.00	3.39

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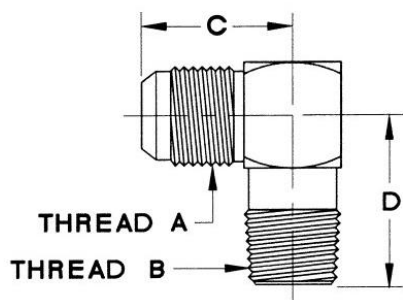


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## 190L SERIES

## 90 DEGREE LONG MALE ELBOW

(071502)



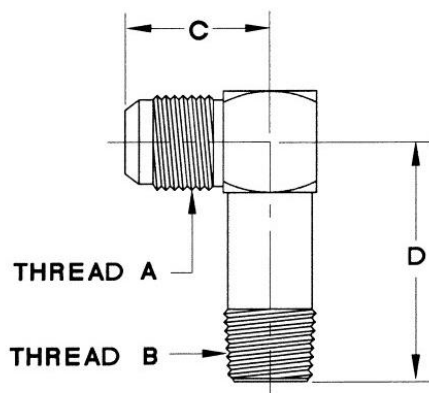
PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
190L-04-02	0.25	7/16-20	1/8-27	0.89	1.17
190L-04-04	0.25	7/16-20	1/4-18	0.95	1.57
190L-05-02	0.31	1/2-20	1/8-27	0.95	1.17
190L-05-04	0.31	1/2-20	1/4-18	0.95	1.54
190L-06-04	0.38	9/16-18	1/4-18	1.06	1.58
190L-06-06	0.38	9/16-18	3/8-18	1.15	1.82
190L-08-06	0.50	3/4-16	3/8-18	1.25	1.82
190L-08-08	0.50	3/4-16	1/2-14	1.31	2.17
190L-08-12	0.50	3/4-16	3/4-14	1.40	2.43
190L-10-08	0.63	7/8-14	1/2-14	1.45	2.17
190L-12-12	0.75	1 1/16-12	3/4-14	1.66	2.44
190L-14-12	0.88	1 3/16-12	3/4-14	1.80	2.59
190L-16-16	1.00	1 5/16-12	1-11 1/2	1.81	3.01
190L-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.06	3.69
190L-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.33	4.10

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## 190XL SERIES

## 90 DEGREE EXTRA LONG MALE ELBOW

(071602)



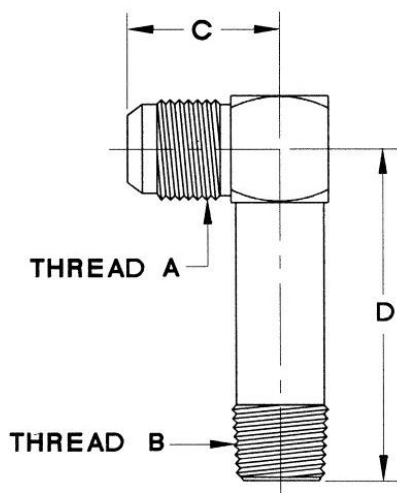
PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
190XL-04-02	0.25	7/16-20	1/8-27	0.89	1.56
190XL-04-04	0.25	7/16-20	1/4-18	0.96	2.07
190XL-05-02	0.31	1/2-20	1/8-27	0.95	1.63
190XL-05-04	0.31	1/2-20	1/4-18	0.95	2.03
190XL-06-04	0.38	9/16-18	1/4-18	1.06	2.07
190XL-06-06	0.38	9/16-18	3/8-18	1.14	2.39
190XL-08-06	0.50	3/4-16	3/8-18	1.25	2.42
190XL-08-08	0.50	3/4-16	1/2-14	1.31	2.87
190XL-10-08	0.63	7/8-14	1/2-14	1.45	2.87
190XL-12-08	0.75	1 1/16-12	1/2-14	1.66	2.93
190XL-12-12	0.75	1 1/16-12	3/4-14	1.66	3.28
190XL-14-12	0.88	1 3/16-12	3/4-14	1.73	3.62
190XL-16-16	1.00	1 5/16-12	1-11 1/2	1.81	4.05
190XL-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.06	5.00
190XL-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.33	5.55

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## **190XXL SERIES**



### **90 DEGREE EXTRA EXTRA LONG MALE ELBOW (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
190XXL-04-02	0.25	7/16-20	1/8-27	0.89	2.31
190XXL-06-04	0.38	9/16-18	1/4-18	1.06	3.06
190XXL-08-06	0.50	3/4-16	3/8-18	1.25	3.75
190XXL-10-08	0.63	7/8-14	1/2-14	1.45	4.50
190XXL-12-12	0.75	1 1/16-12	3/4-14	1.65	5.03
190XXL-16-16	1.00	1 5/16-12	1-11 1/2	1.81	6.34
190XXL-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.06	7.34

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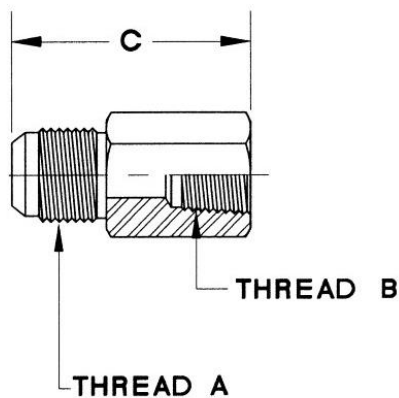


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## 200 SERIES

## FEMALE CONNECTOR

(070103)



PART NO.	O.D.	PORT SIZE	THREAD A	THREAD B	DIM C
200-04-02	0.25	0.13	7/16-20	1/8-27	1.19
200-04-04	0.25	0.25	7/16-20	1/4-18	1.39
200-05-02	0.31	0.13	1/2-20	1/8-27	1.17
200-05-04	0.31	0.25	1/2-20	1/4-18	1.39
200-06-04	0.38	0.25	9/16-18	1/4-18	1.40
200-06-06	0.38	0.38	9/16-18	3/8-18	1.47
200-08-06	0.50	0.38	3/4-16	3/8-18	1.56
200-08-08	0.50	0.50	3/4-16	1/2-14	1.78
200-10-06	0.63	0.38	7/8-14	3/8-18	1.67
200-10-08	0.63	0.50	7/8-14	1/2-14	1.89
200-12-08	0.75	0.50	1 1/16-12	1/2-14	2.06
200-12-12	0.75	0.75	1 1/16-12	3/4-14	2.06
200-12-16	0.75	1.00	1 1/16-12	1-11 1/2	2.30
200-14-12	0.88	0.75	1 3/16-12	3/4-14	2.06
200-16-16	1.00	1.00	1 5/16-12	1-11 1/2	2.35
200-20-20	1.25	1.25	1 5/8-12	1 1/4-11 1/2	2.49
200-24-24	1.50	1.50	1 7/8-12	1 1/2-11 1/2	2.62
200-32-32	2.00	2.00	2 1/2-12	2-11 1/2	2.96

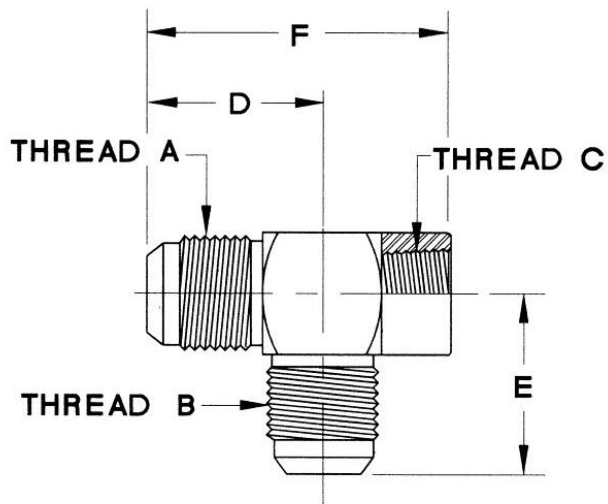
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## **220 SERIES**



### **FEMALE RUN TEE (070426)**

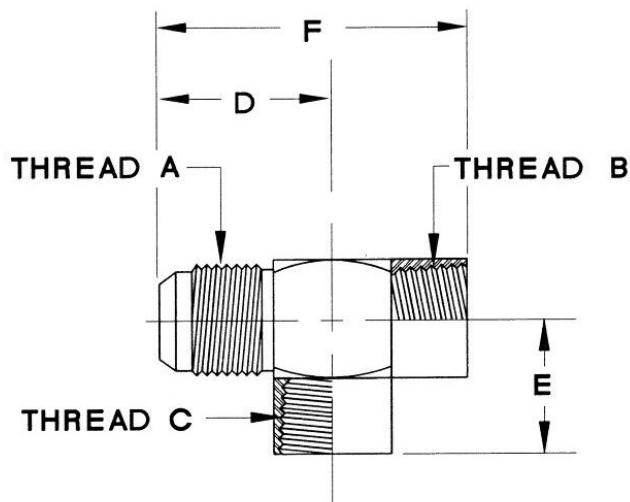
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
220-04-04-02	0.25	7/16-20	7/16-20	1/8-27	1.08	1.08	1.74
220-04-04-04	0.25	7/16-20	7/16-20	1/4-18	1.14	1.14	2.01
220-05-05-02	0.31	1/2-20	1/2-20	1/8-27	1.07	1.07	1.72
220-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.23	1.23	2.11
220-06-06-06	0.38	9/16-18	9/16-18	3/8-18	1.30	1.30	2.37
220-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.42	1.42	2.44
220-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.54	1.54	2.77
220-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.64	1.64	2.87
220-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.89	1.89	3.25
220-14-14-12	0.88	1 3/16-12	1 3/16-12	3/4-14	1.86	1.86	3.28
220-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	2.17	2.17	3.79
220-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.33	2.33	4.03
220-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.89	2.89	4.97
220-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	3.30	3.30	5.69

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## **221 SERIES**



**MALE FLARE-FEMALE PIPE-  
 FEMALE PIPE-RUN TEE  
 (NON STANDARD)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
221-04-02-02	0.25	7/16-20	1/8-27	1/8-27	1.08	0.66	1.74
221-06-04-04	0.38	9/16-18	1/4-18	1/4-18	1.23	0.88	2.11
221-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.42	1.02	2.44
221-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.64	1.23	2.87
221-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.89	1.36	3.25
221-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	2.17	1.62	3.79
221-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.33	1.70	4.03
221-24-24-24	1.50	1 7/8-12	1 1/2-11 1/2	1 1/2-11 1/2	2.89	2.08	4.97

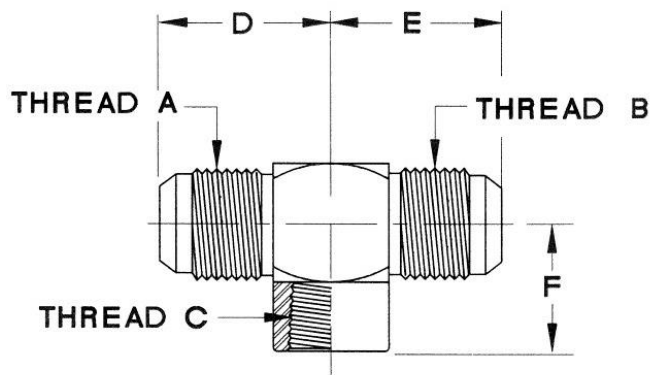
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## **230 SERIES**



### **FEMALE BRANCH TEE (070427)**

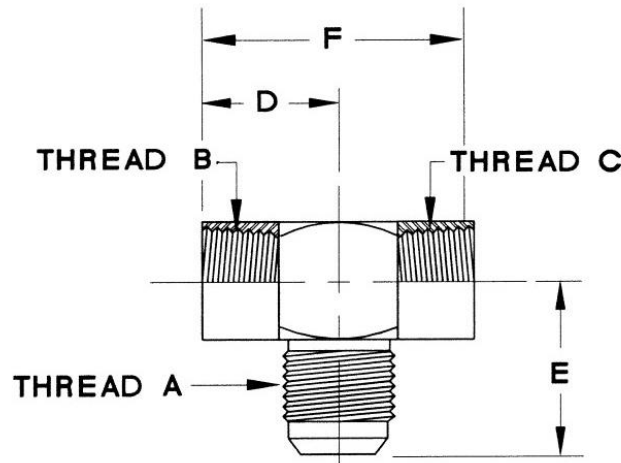
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
230-04-04-02	0.25	7/16-20	7/16-20	1/8-27	1.08	1.08	0.65
230-04-04-04	0.25	7/16-20	7/16-20	1/4-18	1.13	1.13	0.87
230-05-05-02	0.31	1/2-20	1/2-20	1/8-27	1.08	1.08	0.65
230-05-05-04	0.31	1/2-20	1/2-20	1/4-18	1.13	1.13	0.88
230-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.23	1.23	0.88
230-06-06-06	0.38	9/16-18	9/16-18	3/8-18	1.30	1.30	1.07
230-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.42	1.42	1.01
230-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.54	1.54	1.23
230-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.64	1.64	1.23
230-10-10-12	0.63	7/8-14	7/8-14	3/4-14	1.70	1.70	1.36
230-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.89	1.89	1.36
230-12-12-16	0.75	1 1/16-12	1 1/16-12	1-11 1/2	1.89	1.89	1.89
230-14-14-12	0.88	1 3/16-12	1 3/16-12	3/4-14	1.85	1.85	1.42
230-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	2.17	2.17	1.62
230-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.33	2.33	1.70
230-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.89	2.89	2.07
230-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	3.30	3.30	2.39

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## **231 SERIES**



### **MALE FLARE-FEMALE PIPE BRANCH TEE (NON STANDARD)**

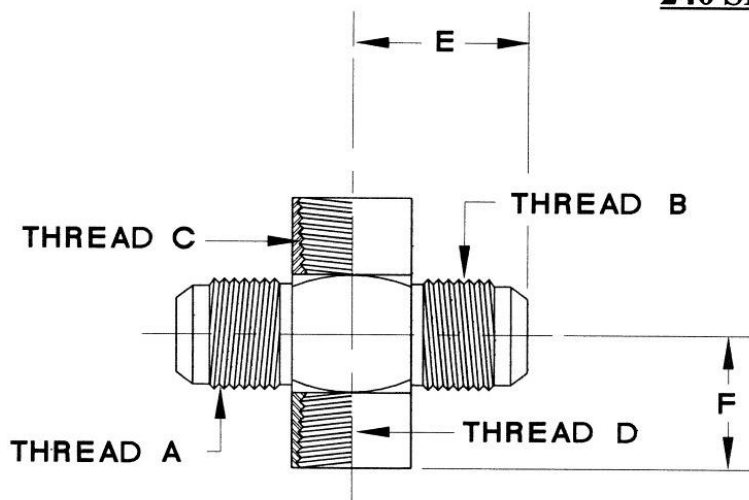
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
231-04-02-02	0.25	7/16-20	1/8-27	1/8-27	0.66	1.08	1.32
231-06-04-04	0.38	9/16-18	1/4-18	1/4-18	0.88	1.23	1.76
231-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.02	1.42	2.04
231-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.23	1.64	2.46
231-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.36	1.89	2.72
231-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	1.62	2.17	3.24
231-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.33	3.40
231-24-24-24	1.50	1 7/8-12	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.89	4.16

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## 240 SERIES



### FLARE-FEMALE PIPE CROSS (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	THREAD C	THREAD D	DIM E	DIM F
240-04-04-02-02	0.25	7/16-20	7/16-20	1/8-27	1/8-27	1.08	0.66
240-06-06-04-04	0.38	9/16-18	9/16-18	1/4-18	1/4-18	1.23	0.88
240-08-08-06-06	0.50	3/4-16	3/4-16	3/8-18	3/8-18	1.42	1.02
240-10-10-08-08	0.63	7/8-14	7/8-14	1/2-14	1/2-14	1.64	1.23
240-12-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	3/4-14	1.89	1.36
240-16-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1-11 1/2	2.17	1.62
240-20-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.33	1.70

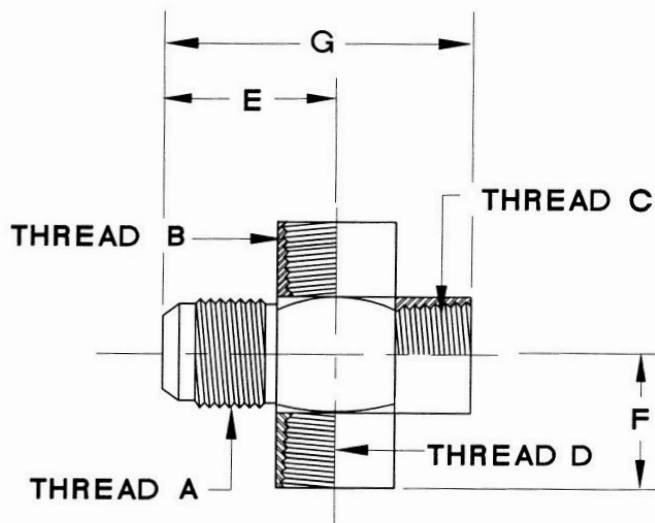
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## **241 SERIES**



### **FLARE-FEMALE PIPE CROSS (NON STANDARD)**

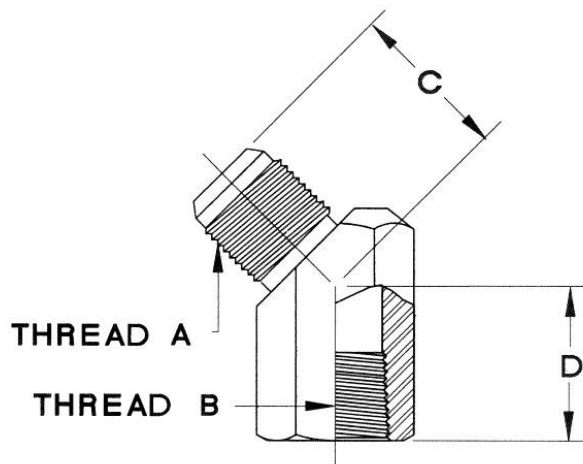
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>THREAD D</b>	<b>DIM E</b>	<b>DIM F</b>	<b>DIM G</b>
241-04-02-02-02	0.25	7/16-20	1/8-27	1/8-27	1/8-27	1.08	0.66	1.74
241-06-04-04-04	0.38	9/16-18	1/4-18	1/4-18	1/4-18	1.23	0.88	2.11
241-08-06-06-06	0.50	3/4-16	3/8-18	3/8-18	3/8-18	1.42	1.02	2.44
241-10-08-08-08	0.63	7/8-14	1/2-14	1/2-14	1/2-14	1.64	1.23	2.87
241-12-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	3/4-14	1.89	1.36	3.25
241-16-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	1-11 1/2	2.17	1.62	3.79
241-20-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.33	1.70	4.03
241-24-24-24-24	1.50	1 7/8-12	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.89	2.08	4.97

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## **245 SERIES**



### **45 DEGREE ELBOW MALE FLARE-FEMALE PIPE (NON STANDARD)**

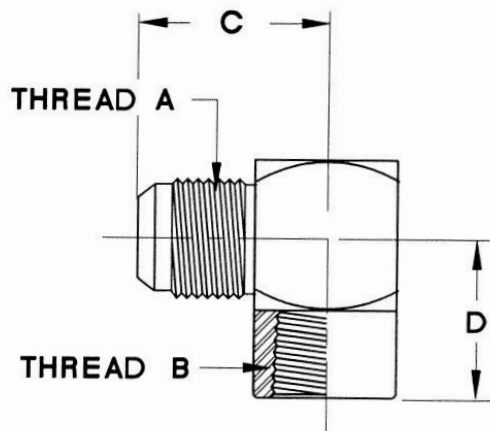
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>PORT SIZE</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
245-06-04	0.38	0.25	9/16-18	1/4-18	1.02	0.65
245-08-06	0.50	0.38	3/4-16	3/8-18	1.13	0.72
245-10-08	0.63	0.50	7/8-14	1/2-14	1.19	0.99
245-12-12	0.75	0.75	1 1/16-12	3/4-14	1.49	0.97
245-16-16	1.00	1.00	1 5/16-12	1-11 1/2	1.78	1.22
245-20-20	1.25	1.25	1 5/8-12	1 1/4-11 1/2	1.97	1.38

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## **290 SERIES**



### **90 DEGREE FEMALE ELBOW (070203)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
290-04-02	0.25	7/16-20	1/8-27	1.07	0.65
290-04-04	0.25	7/16-20	1/4-18	1.14	0.87
290-04-06	0.25	7/16-20	3/8-18	1.12	1.02
290-05-02	0.31	1/2-20	1/8-27	1.07	0.65
290-05-04	0.31	1/2-20	1/4-18	1.13	0.88
290-06-02	0.38	9/16-18	1/8-27	1.23	0.66
290-06-04	0.38	9/16-18	1/4-18	1.23	0.87
290-06-06	0.38	9/16-18	3/8-18	1.30	1.07
290-08-04	0.50	3/4-16	1/4-18	1.42	0.95
290-08-06	0.50	3/4-16	3/8-18	1.42	1.01
290-08-08	0.50	3/4-16	1/2-14	1.54	1.23
290-08-12	0.50	3/4-16	3/4-14	1.54	1.36
290-10-08	0.63	7/8-14	1/2-14	1.64	1.23
290-12-08	0.75	1 1/16-12	1/2-14	1.89	1.35
290-12-12	0.75	1 1/16-12	3/4-14	1.89	1.35
290-14-12	0.88	1 3/16-12	3/4-14	1.85	1.42
290-16-12	1.00	1 5/16-12	3/4-14	2.05	1.36
290-16-16	1.00	1 5/16-12	1-11 1/2	2.17	1.62
290-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.32	1.70
290-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.89	2.07
290-32-32	2.00	2 1/2-12	2-11 1/2	3.29	2.39

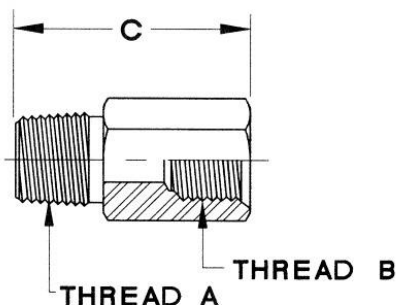
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## **300 SERIES**



### **MALE PIPE-FEMALE O'RING BOSS ADAPTER (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>PORT SIZE</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>
300-02-04	0.13	0.25	1/8-27	7/16-20	1.37
300-02-05	0.13	0.31	1/8-27	1/2-20	1.37
300-04-04	0.25	0.25	1/4-18	7/16-20	1.55
300-04-06	0.25	0.38	1/4-18	9/16-18	1.55
300-06-06	0.38	0.38	3/8-18	9/16-18	1.40
300-06-08	0.38	0.50	3/8-18	3/4-16	1.50
300-08-06	0.50	0.38	1/2-14	9/16-18	1.74
300-08-08	0.50	0.50	1/2-14	3/4-16	1.58
300-08-10	0.50	0.63	1/2-14	7/8-14	1.81
300-12-12	0.75	0.75	3/4-14	1 1/16-12	1.97
300-12-14	0.75	0.88	3/4-14	1 3/16-12	2.03
300-16-16	1.00	1.00	1-11 1/2	1 5/16-12	2.16
300-20-20	1.25	1.25	1 1/4-11 1/2	1 5/8-12	2.25
300-24-24	1.50	1.50	1 1/2-11 1/2	1 7/8-12	2.28
300-32-32	2.00	2.00	2-11 1/2	2 1/2-12	2.31

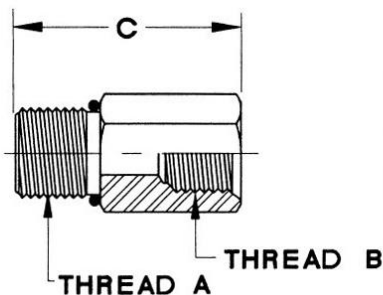
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### **340 SERIES**

### **MALE O'RING BOSS-FEMALE O'RING BOSS REDUCER (NON STANDARD)**



PART NO.	O.D.	PORT SIZE	THREAD A	THREAD B	DIM C
340-04-04	0.25	0.25	7/16-20	7/16-20	1.06
340-04-06	0.25	0.38	7/16-20	9/16-18	1.16
340-05-04	0.31	0.25	1/2-20	7/16-20	1.06
340-06-04	0.38	0.25	9/16-18	7/16-20	1.03
340-06-06	0.38	0.38	9/16-18	9/16-18	1.02
340-06-08	0.38	0.50	9/16-18	3/4-16	1.30
340-08-04	0.50	0.25	3/4-16	7/16-20	0.80
340-08-06	0.50	0.38	3/4-16	9/16-18	1.14
340-08-08	0.50	0.50	3/4-16	3/4-16	1.25
340-08-10	0.50	0.63	3/4-16	7/8-14	1.56
340-10-04	0.63	0.25	7/8-14	7/16-20	1.22
340-10-06	0.63	0.38	7/8-14	9/16-18	1.25
340-10-08	0.63	0.50	7/8-14	3/4-16	1.31
340-10-10	0.63	0.63	7/8-14	7/8-14	1.35
340-10-12	0.63	0.75	7/8-14	1 1/16-12	1.31
340-12-04	0.75	0.25	1 1/16-12	7/16-20	1.00
340-12-06	0.75	0.38	1 1/16-12	9/16-18	1.00
340-12-08	0.75	0.50	1 1/16-12	3/4-16	1.41
340-12-10	0.75	0.63	1 1/16-12	7/8-14	1.56
340-12-14	0.75	0.88	1 1/16-12	1 3/16-12	1.80
340-12-16	0.75	1.00	1 1/16-12	1 5/16-12	1.91
340-14-06	0.88	0.38	1 3/16-12	9/16-18	1.09
340-14-10	0.88	0.63	1 3/16-12	7/8-14	1.59
340-14-12	0.88	0.75	1 3/16-12	1 1/16-12	1.59
340-16-06	1.00	0.38	1 5/16-12	9/16-18	1.00
340-16-08	1.00	0.50	1 5/16-12	3/4-16	1.00
340-16-10	1.00	0.63	1 5/16-12	7/8-14	1.47
340-16-12	1.00	0.75	1 5/16-12	1 1/16-12	1.59
340-16-14	1.00	0.88	1 5/16-12	1 3/16-12	1.70
340-16-16	1.00	1.00	1 5/16-12	1 5/16-12	1.78
340-16-20	1.00	1.25	1 5/16-12	1 5/8-12	1.89
340-20-06	1.25	0.38	1 5/8-12	9/16-18	1.20
340-20-10	1.25	0.63	1 5/8-12	7/8-14	1.20
340-20-12	1.25	0.75	1 5/8-12	1 1/16-12	1.20
340-20-16	1.25	1.00	1 5/8-12	1 5/16-12	1.78
340-20-24	1.25	1.50	1 5/8-12	1 7/8-12	1.74
340-24-12	1.50	0.75	1 7/8-12	1 1/16-12	1.25
340-24-20	1.50	1.25	1 7/8-12	1 5/8-12	1.59
340-32-24	2.00	1.50	2 1/2-12	1 7/8-12	1.43

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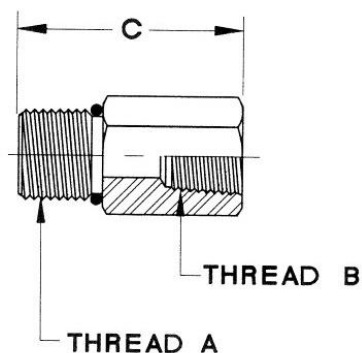
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**MALE O'RING BOSS-FEMALE  
 PIPE CONNECTOR  
 (NON STANDARD)**

**360 SERIES**

PART NO.	O.D.	PORT SIZE	THREAD A	THREAD B	DIM C
360-04-02	0.25	0.13	7/16-20	1/8-27	0.97
360-04-04	0.25	0.25	7/16-20	1/4-18	1.11
360-05-02	0.31	0.13	1/2-20	1/8-27	1.00
360-05-04	0.31	0.25	9/16-18	1/4-18	1.26
360-06-04	0.38	0.25	9/16-18	1/4-18	1.16
360-06-06	0.38	0.38	3/4-16	3/8-18	1.29
360-08-04	0.50	0.25	3/4-16	1/4-18	1.31
360-08-06	0.50	0.38	3/4-16	3/8-18	1.31
360-08-08	0.50	0.50	7/8-14	1/2-14	1.50
360-10-04	0.63	0.25	7/8-14	1/4-18	1.39
360-10-06	0.63	0.38	7/8-14	3/8-18	1.55
360-10-08	0.63	0.50	7/8-14	1/2-14	1.54
360-10-12	0.63	0.75	1 1/16-12	3/4-14	1.74
360-12-06	0.75	0.38	1 1/16-12	3/8-18	1.46
360-12-08	0.75	0.50	1 1/16-12	1/2-14	1.50
360-12-12	0.75	0.75	1 3/16-12	3/4-14	1.72
360-14-12	0.88	0.75	1 5/16-12	3/4-14	1.72
360-16-08	1.00	0.50	1 5/16-12	1/2-14	1.64
360-16-12	1.00	0.75	1 5/16-12	3/4-14	1.78
360-16-16	1.00	1.00	1 5/8-12	1-11 1/2	1.84
360-20-12	1.25	0.75	1 5/8-12	3/4-14	1.90
360-20-16	1.25	1.00	1 5/8-12	1-11 1/2	1.92
360-20-20	1.25	1.25	1 5/8-12	1 1/4-11 1/2	2.11
360-24-20	1.50	1.25	1 7/8-12	1 1/4-11 1/2	2.09
360-24-24	1.50	1.25	1 7/8-12	1 1/2-11 1/2	2.11
360-32-32	2.00	2.00	2 1/2-12	2-11 1/2	2.17

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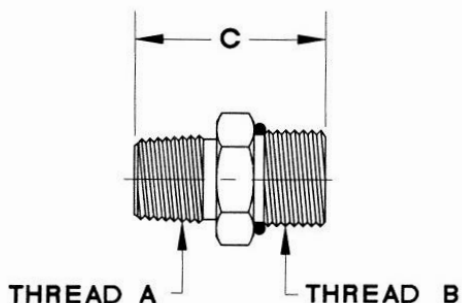






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### 380 SERIES

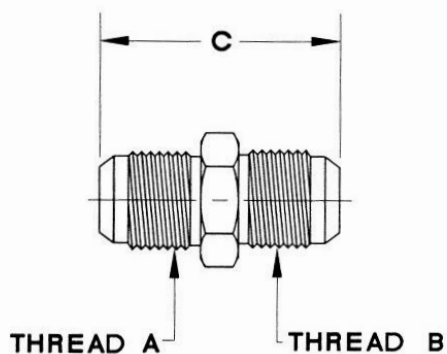


### (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C
380-02-04	1/8-27	7/16-20	1.04
380-02-05	1/8-27	1/2-20	1.04
380-04-04	1/4-18	7/16-20	1.28
380-04-06	1/4-18	9/16-18	1.28
380-04-08	1/4-18	3/4-16	1.36
380-06-04	3/8-18	7/16-20	1.25
380-06-06	3/8-18	9/16-18	1.22
380-06-08	3/8-18	3/4-16	1.35
380-08-06	1/2-14	9/16-18	1.55
380-08-08	1/2-14	3/4-16	1.61
380-08-10	1/2-14	7/8-14	1.67
380-12-12	3/4-14	1 1/16-12	1.84
380-12-14	3/4-14	1 3/16-12	1.84
380-16-12	1-11 1/2	1 1/16-12	2.06
380-16-16	1-11 1/2	1 5/16-12	2.06
380-20-20	1 1/4-11 1/2	1 5/8-12	2.17
380-24-24	1 1/2-11 1/2	1 7/8-12	2.26
380-32-32	2-11 1/2	2 1/2-12	2.46

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### 400SH SERIES



### UNION (070101)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
400SH-04-04	0.25	7/16-20	7/16-20	1.37
400SH-04-06	0.25	7/16-20	9/16-18	1.37
400SH-05-05	0.31	1/2-20	1/2-20	1.37
400SH-06-06	0.38	9/16-18	9/16-18	1.41
400SH-06-08	0.50	9/16-18	3/4-16	1.55
400SH-08-08	0.50	3/4-16	3/4-16	1.67
400SH-08-10	0.50	3/4-16	7/8-14	1.76
400SH-10-10	0.63	7/8-14	7/8-14	1.88
400SH-10-12	0.63	7/8-14	1 1/16-12	2.05
400SH-08-12	0.75	3/4-16	1 1/16-12	1.94
400SH-12-12	0.75	1 1/16-12	1 1/16-12	2.16
400SH-12-16	0.75	1 1/16-12	1 5/16-12	2.21
400SH-14-14	0.88	1 3/16-12	1 3/16-12	2.21
400SH-16-16	1.00	1 5/16-12	1 5/16-12	2.25
400SH-16-20	1.00	1 5/16-12	1 5/8-12	2.39
400SH-20-20	1.25	1 5/8-12	1 5/8-12	2.43
400SH-24-24	1.50	1 7/8-12	1 7/8-12	2.75
400SH-32-32	2.00	2 1/2-12	2 1/2-12	3.40

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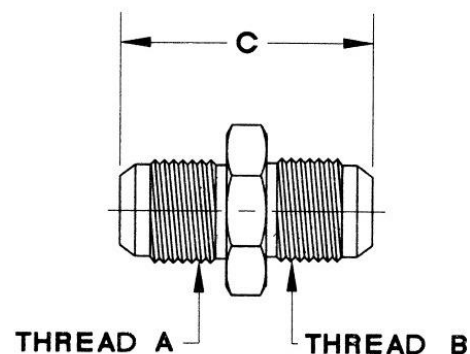
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## LARGE HEX UNION (070119)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
410LH-04-04	0.25	7/16-20	7/16-20	1.37
410LH-05-05	0.31	1/2-20	1/2-20	1.37
410LH-06-06	0.38	9/16-18	9/16-18	1.41
410LH-08-08	0.50	3/4-16	3/4-16	1.62
410LH-08-10	0.50	3/4-16	7/8-14	1.76
410LH-10-10	0.63	7/8-14	7/8-14	1.88
410LH-08-12	0.75	3/4-16	1 1/16-12	1.94
410LH-12-12	0.75	1 1/16-12	1 1/16-12	2.16
410LH-14-14	0.88	1 3/16-12	1 3/16-12	2.21
410LH-16-16	1.00	1 5/16-12	1 5/16-12	2.25
410LH-20-20	1.25	1 5/8-12	1 5/8-12	2.43
410LH-24-24	1.50	1 7/8-12	1 7/8-12	2.75
410LH-32-32	2.00	2 1/2-12	2 1/2-12	3.40

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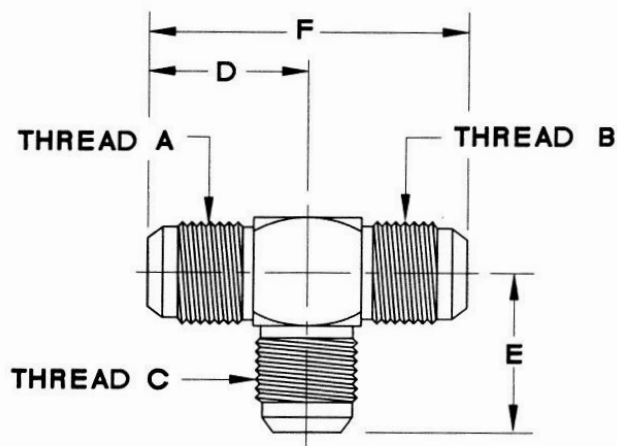
## 410LH SERIES





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## **430 SERIES**



### **UNION TEE (070401)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
430-03-03-03	0.18	3/8-24	3/8-24	3/8-24	0.83	0.83	1.66
430-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	0.89	1.78
430-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	0.95	1.90
430-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.06	1.06	2.12
430-06-06-08	0.38	9/16-18	9/16-18	3/4-16	1.14	1.25	2.28
430-06-06-10	0.38	9/16-18	9/16-18	7/8-14	1.22	1.22	2.44
430-08-08-06	0.50	3/4-16	3/4-16	9/16-18	1.25	1.14	2.50
430-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.25	2.50
430-08-08-10	0.50	3/4-16	3/4-16	7/8-14	1.33	1.33	2.66
430-10-08-08	0.63	7/8-14	3/4-16	3/4-16	1.45	1.31	2.76
430-10-10-08	0.63	7/8-14	7/8-14	3/4-16	1.64	1.33	2.66
430-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.45	1.45	2.90
430-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.66	1.66	3.32
430-12-12-16	0.75	1 1/16-12	1 1/16-12	1 5/16-12	1.76	1.81	3.52
430-12-16-12	0.75	1 1/16-12	1 5/16-12	1 1/16-12	1.76	1.76	3.57
430-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.80	1.80	3.60
430-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	1.81	3.62
430-16-16-20	1.00	1 5/16-12	1 5/16-12	1 5/8-12	2.01	2.01	4.02
430-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.06	2.06	4.12
430-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.33	2.33	4.66
430-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.06	3.06	6.12

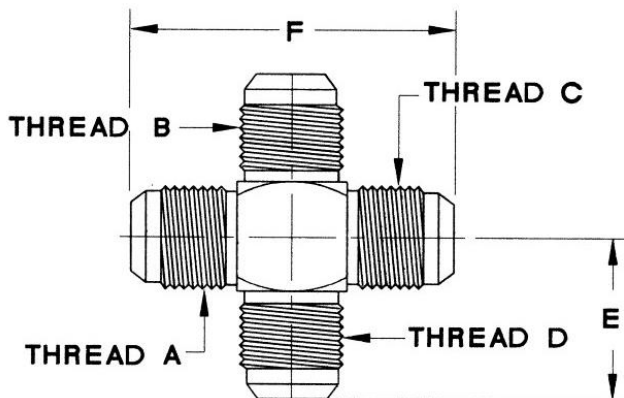
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## 440 SERIES



### FLARE-FLARE CROSS (070501)

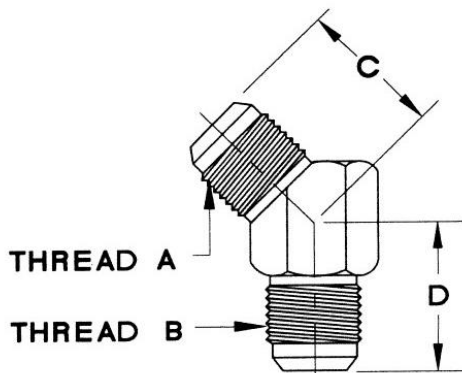
PART NO.	O.D.	THREAD A	THREAD B	THREAD C	THREAD D	DIM E	DIM F
440-04-04-04-04	0.25	7/16-20	7/16-20	7/16-20	7/16-20	0.89	1.78
440-05-05-05-05	0.31	1/2-20	1/2-20	1/2-20	1/2-20	0.95	1.90
440-06-06-06-06	0.38	9/16-18	9/16-18	9/16-18	9/16-18	1.06	2.12
440-08-08-08-08	0.50	3/4-16	3/4-16	3/4-16	3/4-16	1.25	2.50
440-10-10-10-10	0.63	7/8-14	7/8-14	7/8-14	7/8-14	1.45	2.90
440-12-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	1.66	3.32
440-14-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	1.80	3.60
440-16-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1 5/16-12	1.81	3.62
440-20-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1 5/8-12	2.06	4.12
440-24-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	1 7/8-12	2.33	4.66
440-32-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2 1/2-12	3.06	6.12

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### 445 SERIES

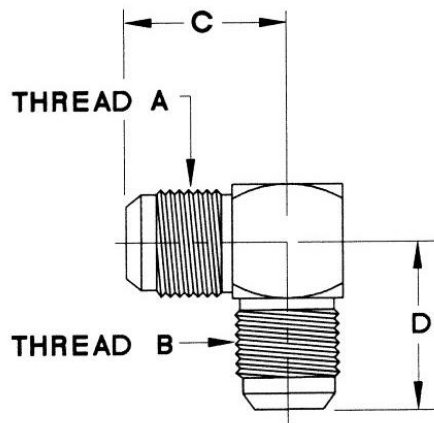


### **45 DEGREE UNION ELBOW (NON STANDARD)**

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
445-04-04	0.25	7/16-20	7/16-20	0.72	0.72
445-05-05	0.31	1/2-20	1/2-20	0.77	0.77
445-06-06	0.38	9/16-18	9/16-18	0.83	0.83
445-08-08	0.50	3/4-16	3/4-16	0.98	0.98
445-10-10	0.63	7/8-14	7/8-14	1.11	1.11
445-12-12	0.75	1 1/16-12	1 1/16-12	1.28	1.28
445-14-14	0.88	1 3/16-12	1 3/16-12	1.39	1.39
445-16-16	1.00	1 5/16-12	1 5/16-12	1.47	1.47
445-20-20	1.25	1 5/8-12	1 5/8-12	1.59	1.59
445-24-24	1.50	1 7/8-12	1 7/8-12	1.78	1.78
445-32-32	2.00	2 1/2-12	2 1/2-12	2.21	2.21

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### 490 SERIES



### **90 DEGREE UNION ELBOW (070201)**

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
490-04-04	0.25	7/16-20	7/16-20	0.89	0.89
490-05-05	0.31	1/2-20	1/2-20	0.95	0.95
490-06-06	0.38	9/16-18	9/16-18	1.06	1.06
490-06-08	0.38	9/16-18	3/4-16	1.14	1.25
490-08-08	0.50	3/4-16	3/4-16	1.25	1.25
490-08-10	0.50	3/4-16	7/8-14	1.33	1.45
490-10-10	0.63	7/8-14	7/8-14	1.45	1.45
490-12-12	0.75	1 1/16-12	1 1/16-12	1.66	1.66
490-12-16	0.75	1 1/16-12	1 5/16-12	1.76	1.81
490-14-14	0.88	1 3/16-12	1 3/16-12	1.80	1.80
490-16-16	1.00	1 5/16-12	1 5/16-12	1.81	1.81
490-20-20	1.25	1 5/8-12	1 5/8-12	2.06	2.06
490-24-24	1.50	1 7/8-12	1 7/8-12	2.33	2.33
490-32-32	2.00	2 1/2-12	2 1/2-12	3.06	3.06

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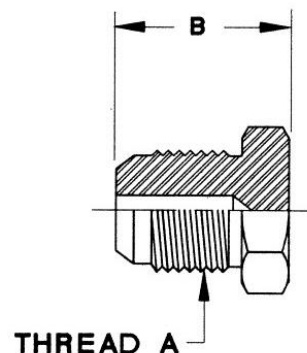
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### 37 DEGREE FLARE PLUG (070109)

PART NO.	O.D.	THREAD A	DIM B
500-04	0.25	7/16-20	0.80
500-05	0.31	1/2-20	0.80
500-06	0.38	9/16-18	0.84
500-08	0.50	3/4-16	0.94
500-10	0.63	7/8-14	1.10
500-12	0.75	1 1/16-12	1.28
500-14	0.88	1 3/16-12	1.31
500-16	1.00	1 5/16-12	1.33
500-20	1.25	1 5/8-12	1.45
500-24	1.50	1 7/8-12	1.65
500-32	2.00	2 1/2-12	2.04

DESIGN AND DIMENSION SUBJECT TO CHANGE WITHOUT NOTICE.

### 500 SERIES

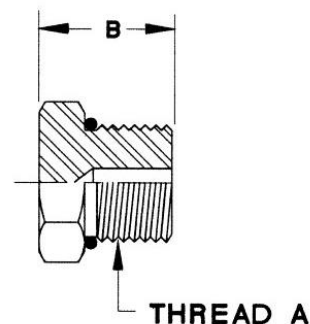


### O'RING PLUG (090109A)

PART NO.	O.D.	THREAD A	DIM B
510-02	0.13	5/16-24	0.60
510-03	0.18	3/8-24	0.60
510-04	0.25	7/16-20	0.67
510-05	0.31	1/2-20	0.67
510-06	0.38	9/16-18	0.73
510-08	0.50	3/4-16	0.80
510-10	0.63	7/8-14	0.93
510-12	0.75	1 1/16-12	1.09
510-14	0.88	1 3/16-12	1.09
510-16	1.00	1 5/16-12	1.12
510-20	1.25	1 5/8-12	1.20
510-24	1.50	1 7/8-12	1.27
510-32	2.00	2 1/2-12	1.43

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### 510 SERIES

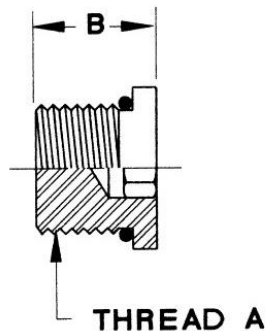






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## **515 SERIES**

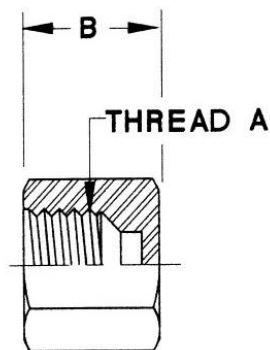


## **HEXAGON SOCKET PLUG (090109B)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>
515-02	0.13	5/16-24	0.40
515-03	0.19	3/8-24	0.40
515-04	0.25	7/16-20	0.47
515-05	0.31	1/2-20	0.47
515-06	0.38	9/16-18	0.50
515-08	0.50	3/4-16	0.58
515-10	0.63	7/8-14	0.65
515-12	0.75	1 1/16-12	0.77
515-14	0.88	1 3/16-12	0.77
515-16	1.00	1 5/16-12	0.77
515-20	1.25	1 5/8-12	0.77
515-24	1.50	1 7/8-12	0.77
515-32	2.00	2 1/2-12	0.77

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## **520 SERIES**



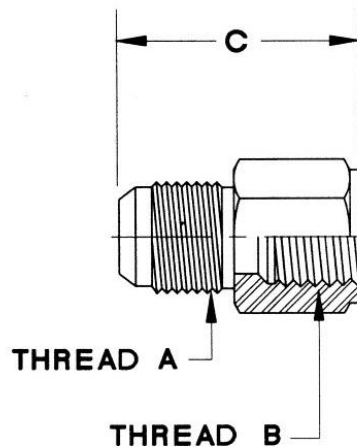
## **37 DEGREE FEMALE CAP (070112)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>
520-04	0.25	7/16-20	0.59
520-05	0.31	1/2-20	0.61
520-06	0.38	9/16-18	0.63
520-08	0.50	3/4-16	0.75
520-10	0.63	7/8-14	0.84
520-12	0.75	1 1/16-12	0.91
520-14	0.88	1 3/16-12	0.97
520-16	1.00	1 5/16-12	1.02
520-20	1.25	1 5/8-12	1.06
520-24	1.50	1 7/8-12	1.12
520-32	2.00	2 1/2-12	1.44

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## **530 SERIES**

### **TUBE END REDUCER (070123)**

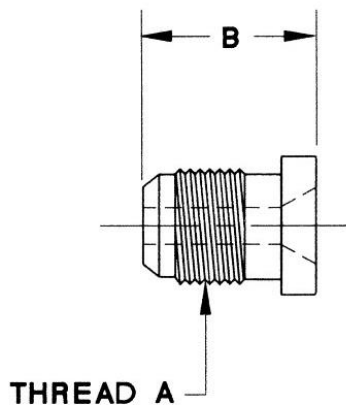
<b>PART NO.</b>	<b>O.D.</b>	<b>PORT SIZE</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
530-04-06	0.25	0.38	7/16-20	9/16-18	1.18
530-04-08	0.25	0.50	7/16-20	3/4-16	1.32
530-04-10	0.25	0.63	7/16-20	7/8-14	1.46
530-04-12	0.25	0.75	7/16-20	1 1/16-12	1.49
530-04-16	0.25	1.00	7/16-20	1 5/16-12	1.61
530-06-08	0.38	0.50	9/16-18	3/4-16	1.33
530-06-10	0.38	0.63	9/16-18	7/8-14	1.40
530-06-12	0.38	0.75	9/16-18	1 1/16-12	1.46
530-06-14	0.38	0.88	9/16-18	1 3/16-12	1.58
530-08-10	0.50	0.63	3/4-16	7/8-14	1.40
530-08-12	0.50	0.75	3/4-16	1 1/16-12	1.57
530-08-14	0.50	0.88	3/4-16	1 3/16-12	1.64
530-08-16	0.50	1.00	3/4-16	1 5/16-12	1.71
530-10-12	0.63	0.75	7/8-14	1 1/16-12	1.57
530-10-14	0.63	0.88	7/8-14	1 3/16-12	1.72
530-10-16	0.63	1.00	7/8-14	1 5/16-12	1.82
530-12-10	0.75	0.63	1 1/16-12	7/8-14	1.86
530-12-14	0.75	0.88	1 1/16-12	1 3/16-12	1.90
530-12-16	0.75	1.00	1 1/16-12	1 5/16-12	1.94
530-12-20	0.75	1.25	1 1/16-12	1 5/8-12	2.02
530-12-24	0.75	1.50	1 1/16-12	1 7/8-12	2.05
530-14-16	0.88	1.00	1 3/16-12	1 5/16-12	1.92
530-14-20	0.88	1.25	1 3/16-12	1 5/8-12	1.96
530-16-20	1.00	1.25	1 5/16-12	1 5/8-12	2.15
530-16-24	1.00	1.50	1 5/16-12	1 7/8-12	2.19
530-20-24	1.25	1.50	1 5/8-12	1 7/8-12	2.15
530-24-32	1.50	2.00	1 7/8-12	2 1/2-12	2.70

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### **530I SERIES**



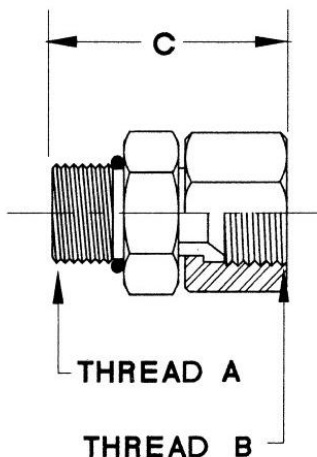
### **TUBE END INSERT REDUCER (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>DIM B</u>
530I-04-06	0.25	7/16-20	0.90
530I-06-08	0.38	9/16-18	0.91
530I-08-10	0.50	3/4-16	0.98
530I-10-12	0.63	7/8-14	1.04
530I-12-14	0.75	1 1/16-12	1.20
530I-14-16	0.88	1 3/16-12	1.23
530I-16-20	1.00	1 5/16-12	1.44
530I-20-24	1.25	1 5/8-12	1.47

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**\*TO BE USED WITH 1801 TUBE NUT**

### **600 SERIES**



### **STRAIGHT MALE O'RING- FEMALE 37 DEGREE SWIVEL (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>
600-04-04	0.25	7/16-20	7/16-20	1.47
600-04-06	0.25	7/16-20	9/16-18	1.41
600-06-06	0.38	9/16-18	9/16-18	1.48
600-06-08	0.38	9/16-18	3/4-16	1.60
600-08-06	0.50	3/4-16	9/16-18	1.60
600-08-08	0.50	3/4-16	3/4-16	1.60
600-10-08	0.63	7/8-14	3/4-16	1.97
600-10-10	0.75	7/8-14	7/8-14	1.97
600-10-12	0.75	7/8-14	1 1/16-12	2.12
600-12-12	0.75	1 1/16-12	1 1/16-12	2.16
600-16-12	1.00	1 5/16-12	1 1/16-12	2.19
600-16-16	1.00	1 5/16-12	1 5/16-12	2.28
600-20-20	1.25	1 5/8-12	1 5/8-12	2.41
600-24-24	1.50	1 7/8-12	1 7/8-12	2.61

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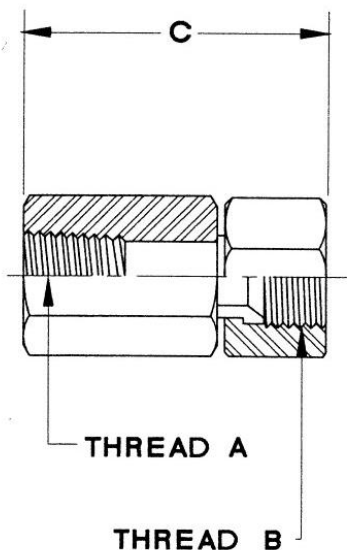
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**FEMALE PIPE-  
 FEMALE 37 DEGREE SWIVEL  
 (NON STANDARD)**

PART NO.	O.D.	PORT SIZE	THREAD A	THREAD B	DIM C
605-04-04	0.25	0.25	1/4-18	7/16-20	1.32
605-04-06	0.25	0.38	1/4-18	9/16-18	1.48
605-06-06	0.38	0.38	3/8-18	9/16-18	1.63
605-06-08	0.38	0.50	3/8-18	3/4-16	1.70
605-08-06	0.50	0.38	1/2-14	9/16-18	1.81
605-08-08	0.50	0.50	1/2-14	3/4-16	1.81
605-08-10	0.50	0.63	1/2-14	7/8-14	2.08
605-12-10	0.75	0.63	3/4-14	7/8-14	1.94
605-12-12	0.75	0.75	3/4-14	1 1/16-12	2.08
605-12-14	0.75	0.88	3/4-14	1 3/16-12	2.12
605-16-16	1.00	1.00	1-11 1/2	1 5/16-12	2.62
605-20-20	1.25	1.25	1 1/4-11 1/2	1 5/8-12	2.74
605-24-24	1.50	1.50	1 1/2-11 1/2	1 7/8-12	2.82
605-32-32	2.00	2.00	2-11 1/2	2 1/2-12	3.15

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**605 SERIES**

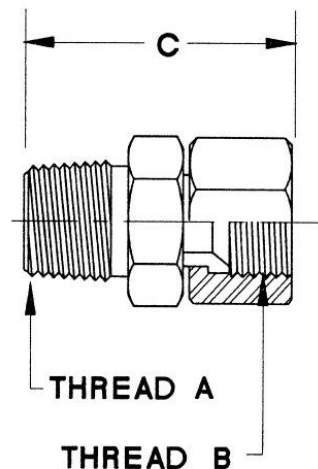


**STRAIGHT MALE PIPE-  
 FEMALE 37 DEGREE SWIVEL  
 (NON STANDARD)**

PART NO.	O.D.	THREAD A	THREAD B	DIM C
610-02-04	0.13	1/8-27	7/16-20	1.35
610-04-04	0.25	1/4-18	7/16-20	1.45
610-04-05	0.25	1/4-18	1/2-20	1.41
610-04-06	0.25	1/4-18	9/16-18	1.60
610-06-06	0.38	3/8-18	9/16-18	1.72
610-06-08	0.38	3/8-18	3/4-16	1.75
610-06-10	0.38	3/8-18	7/8-14	1.79
610-08-08	0.50	1/2-14	3/4-16	1.91
610-08-10	0.50	1/2-14	7/8-14	2.28
610-08-12	0.50	1/2-14	1 1/16-12	2.17
610-12-10	0.75	3/4-14	7/8-14	1.93
610-12-12	0.75	3/4-14	1 1/16-12	2.27
610-12-16	1.00	3/4-14	1 5/16-12	2.40
610-16-16	1.00	1-11 1/2	1 5/16-12	2.55
610-20-20	1.25	1 1/4-11 1/2	1 5/8-12	2.65
610-24-24	1.50	1 1/2-11 1/2	1 7/8-12	2.93
610-32-32	2.00	2-11 1/2	2 1/2-12	3.32

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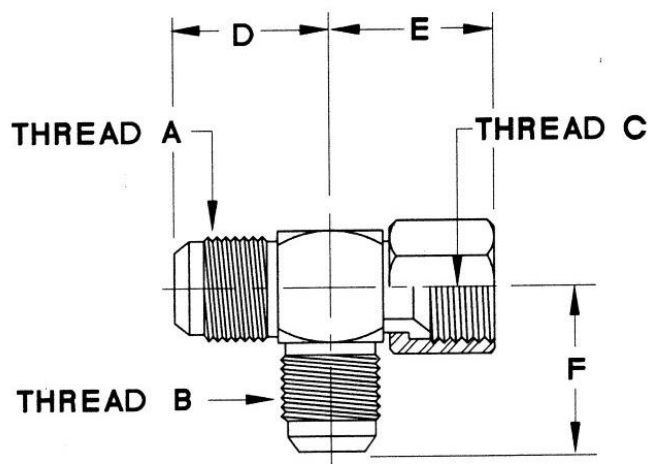
**610 SERIES**





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## 620 SERIES



## SWIVEL RUN TEE (070432)

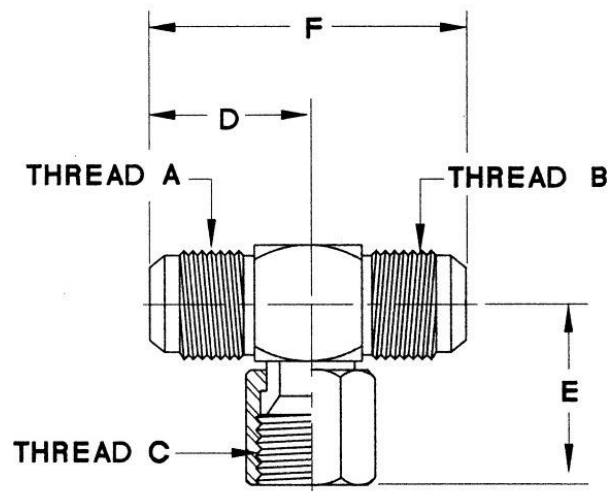
PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
620-03-03-03	0.18	3/8-24	3/8-24	3/8-24	0.83	0.95	0.83
620-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	1.00	0.89
620-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	1.06	0.95
620-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.06	1.25	1.06
620-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.38	1.25
620-08-10-08	0.50	3/4-16	7/8-14	3/4-16	1.33	1.62	1.45
620-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.45	1.62	1.45
620-12-04-12	0.75	1 1/16-12	7/16-20	1 1/16-12	1.66	1.19	1.66
620-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.66	1.75	1.66
620-12-12-16	0.75	1 1/16-12	1 1/16-12	1 5/16-12	1.81	2.00	1.81
620-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.80	1.73	1.80
620-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	2.00	1.81
620-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.06	2.31	2.06
620-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.33	2.59	2.33
620-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.06	3.38	3.06

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## **630 SERIES**



### **SWIVEL BRANCH TEE (070433)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
630-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	1.00	1.78
630-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	1.06	1.90
630-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.06	1.25	2.12
630-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.38	2.50
630-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.45	1.62	2.90
630-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.66	1.75	3.32
630-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.80	1.78	3.60
630-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	2.00	3.62
630-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.06	2.31	4.12
630-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.33	2.59	4.66
630-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.06	3.38	6.12

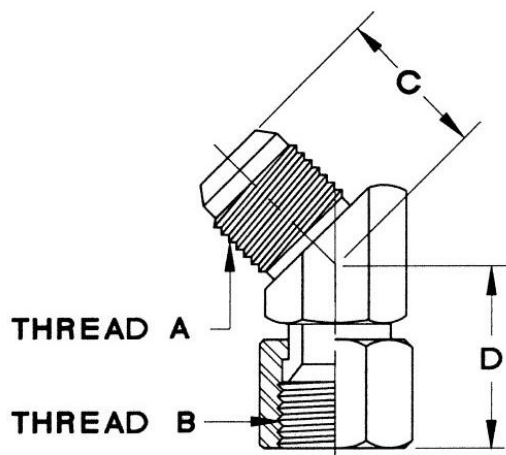
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## **645 SERIES**



### **45 DEGREE SWIVEL ELBOW**

(070321)

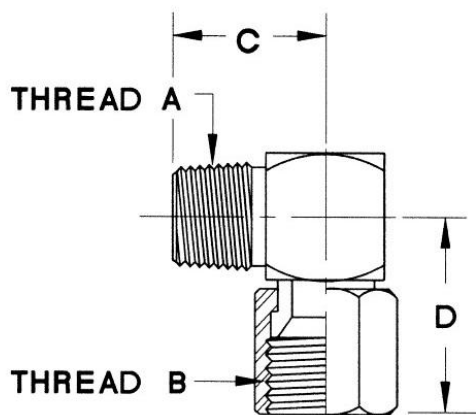
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
645-04-04	0.25	7/16-20	7/16-20	0.72	0.94
645-05-05	0.31	1/2-20	1/2-20	0.77	1.00
645-06-06	0.38	9/16-18	9/16-18	0.83	1.12
645-08-08	0.50	3/4-16	3/4-16	0.98	1.28
645-10-08	0.63	7/8-14	3/4-16	1.22	1.21
645-10-10	0.63	7/8-14	7/8-14	1.11	1.44
645-12-12	0.75	1 1/16-12	1 1/16-12	1.28	1.50
645-14-14	0.88	1 3/16-12	1 3/16-12	1.45	1.62
645-16-16	1.00	1 5/16-12	1 5/16-12	1.47	1.75
645-20-20	1.25	1 5/8-12	1 5/8-12	1.59	2.03
645-24-24	1.50	1 7/8-12	1 7/8-12	1.78	2.25
645-32-32	2.00	2 1/2-12	2 1/2-12	2.22	2.91

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## **660 SERIES**



### **90 DEGREE SWIVEL ADAPTER (140230)**

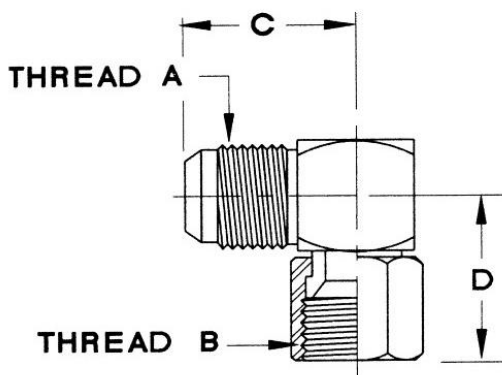
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
660-02-04	0.13	1/8-27	7/16-20	0.78	1.00
660-02-05	0.13	1/8-27	1/2-20	0.78	1.00
660-04-04	0.25	1/4-18	7/16-20	1.11	1.11
660-04-05	0.25	1/4-18	1/2-20	1.11	1.09
660-04-06	0.25	1/4-18	9/16-18	1.09	1.25
660-06-04	0.38	3/8-18	7/16-20	1.11	1.13
660-06-06	0.38	3/8-18	9/16-18	1.22	1.33
660-06-08	0.38	3/8-18	3/4-16	1.22	1.38
660-08-06	0.50	1/2-14	9/16-18	1.47	1.37
660-08-08	0.50	1/2-14	3/4-16	1.47	1.47
660-08-10	0.50	1/2-14	7/8-14	1.47	1.62
660-12-08	0.75	3/4-14	3/4-16	1.50	1.65
660-12-12	0.75	3/4-14	1 1/16-12	1.59	1.75
660-12-14	0.75	3/4-14	1 3/16-12	1.69	1.78
660-16-16	1.00	1-11 1/2	1 5/16-12	1.97	2.00
660-20-20	1.25	1 1/4-11 1/2	1 5/8-12	2.38	2.31
660-24-24	1.50	1 1/2-11 1/2	1 7/8-12	2.64	2.59
660-32-32	2.00	2-11 1/2	2 1/2-12	3.00	3.38

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## 690 SERIES



## 90 DEGREE SWIVEL ELBOW (070221)

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
690-03-03	0.18	3/8-24	3/8-24	0.83	1.00
690-04-04	0.25	7/16-20	7/16-20	0.89	1.00
690-05-05	0.31	1/2-20	1/2-20	0.95	1.06
690-05-06	0.31	1/2-20	9/16-18	1.02	1.22
690-06-06	0.38	9/16-18	9/16-18	1.06	1.25
690-06-08	0.38	9/16-18	3/4-16	1.16	1.36
690-08-06	0.50	3/4-16	9/16-18	1.25	1.32
690-08-08	0.50	3/4-16	3/4-16	1.25	1.38
690-08-10	0.50	3/4-16	7/8-14	1.30	1.62
690-08-12	0.50	3/4-16	1 1/16-12	1.41	1.74
690-10-08	0.63	7/8-14	3/4-16	1.45	1.47
690-10-10	0.63	7/8-14	7/8-14	1.45	1.62
690-10-12	0.63	7/8-14	1 1/16-12	1.53	1.78
690-12-08	0.75	1 1/16-12	3/4-16	1.65	1.55
690-12-10	0.75	1 1/16-12	7/8-14	1.65	1.73
690-12-12	0.75	1 1/16-12	1 1/16-12	1.66	1.75
690-12-16	0.75	1 1/16-12	1 5/16-12	1.78	2.03
690-14-14	0.88	1 3/16-12	1 3/16-12	1.80	1.78
690-16-16	1.00	1 5/16-12	1 5/16-12	1.81	2.00
690-20-20	1.25	1 5/8-12	1 5/8-12	2.06	2.31
690-24-24	1.50	1 7/8-12	1 7/8-12	2.33	2.59
690-32-32	2.00	2 1/2-12	2 1/2-12	3.06	3.38

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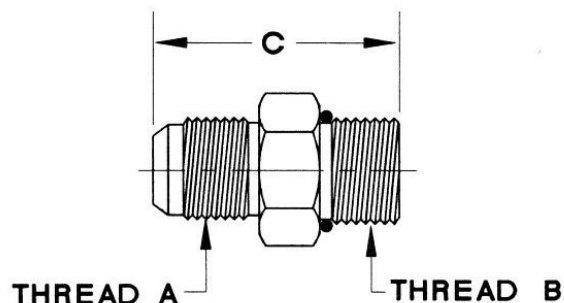
## STRAIGHT THREAD CONNECTOR

(070120)

## 700 SERIES

PART NO.	O.D.	THREAD A	THREAD B	DIM C
700-02-02	0.13	5/16-24	5/16-24	1.06
700-03-03	0.19	3/8-24	3/8-24	1.10
700-04-02	0.25	7/16-20	5/16-24	1.13
700-04-03	0.25	7/16-20	3/8-24	1.17
700-04-04	0.25	7/16-20	7/16-20	1.23
700-04-05	0.25	7/16-20	1/2-20	1.23
700-04-06	0.25	7/16-20	9/16-18	1.28
700-04-08	0.25	7/16-20	3/4-16	1.37
700-04-10	0.25	7/16-20	7/8-14	1.49
700-04-12	0.25	7/16-20	1 1/16-12	1.65
700-05-03	0.31	1/2-20	3/8-24	1.06
700-05-04	0.31	1/2-20	7/16-20	1.24
700-05-05	0.31	1/2-20	1/2-20	1.23
700-05-06	0.31	1/2-20	9/16-18	1.30
700-05-08	0.31	1/2-20	3/4-16	1.37
700-05-10	0.31	1/2-20	7/8-14	1.54
700-06-04	0.38	9/16-18	7/16-20	1.27
700-06-05	0.38	9/16-18	1/2-20	1.29
700-06-06	0.38	9/16-18	9/16-18	1.30
700-06-08	0.38	9/16-18	3/4-16	1.38
700-06-10	0.38	9/16-18	7/8-14	1.50
700-06-12	0.38	9/16-18	1 1/16-12	1.65
700-06-16	0.38	9/16-18	1 5/16-12	1.69
700-08-04	0.50	3/4-16	7/16-20	1.49
700-08-05	0.50	3/4-16	1/2-20	1.52
700-08-06	0.50	3/4-16	9/16-18	1.44
700-08-08	0.50	3/4-16	3/4-16	1.48
700-08-10	0.50	3/4-16	7/8-14	1.59
700-08-12	0.50	3/4-16	1 1/16-12	1.77
700-08-14	0.50	3/4-16	1 3/16-12	1.77
700-08-16	0.50	3/4-16	1 5/16-12	1.76
700-10-04	0.63	7/8-14	7/16-20	1.68
700-10-06	0.63	7/8-14	9/16-18	1.69
700-10-08	0.63	7/8-14	3/4-16	1.67
700-10-10	0.63	7/8-14	7/8-14	1.70

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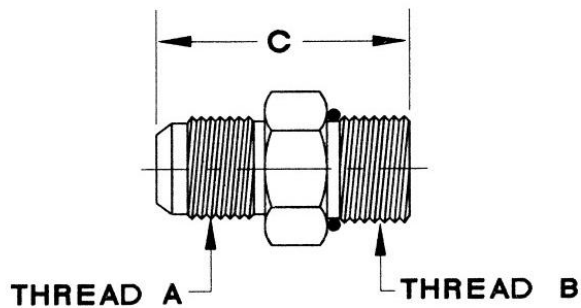


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## **700 SERIES**

## **STRAIGHT THREAD CONNECTOR**

(070102)



<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
700-10-12	0.62	7/8-14	1 1/16-12	1.86
700-10-14	0.62	7/8-14	1 3/16-12	1.86
700-10-16	0.62	7/8-14	1 5/16-12	1.89
700-10-20	0.62	7/8-14	1 5/8-12	1.96
700-12-06	0.75	1 1/16-12	9/16-18	1.86
700-12-08	0.75	1 1/16-12	3/4-16	1.94
700-12-10	0.75	1 1/16-12	7/8-14	1.88
700-12-12	0.75	1 1/16-12	1 1/16-12	1.97
700-12-14	0.75	1 1/16-12	1 3/16-12	1.97
700-12-16	0.75	1 1/16-12	1 5/16-12	1.99
700-12-20	0.75	1 1/16-12	1 5/8-12	2.08
700-14-10	0.87	1 3/16-12	7/8-14	1.95
700-14-12	0.87	1 3/16-12	1 1/16-12	1.98
700-14-14	0.87	1 3/16-12	1 3/16-12	1.99
700-14-16	0.87	1 3/16-12	1 5/16-12	2.02
700-16-08	1.00	1 5/16-12	3/4-16	1.97
700-16-10	1.00	1 5/16-12	7/8-14	2.04
700-16-12	1.00	1 5/16-12	1 1/16-12	1.99
700-16-14	1.00	1 5/16-12	1 3/16-12	2.04
700-16-16	1.00	1 5/16-12	1 5/16-12	2.05
700-16-20	1.00	1 5/16-12	1 5/8-12	2.13
700-16-24	1.00	1 5/16-12	1 7/8-12	2.22
700-20-12	1.25	1 5/8-12	1 1/16-12	2.30
700-20-16	1.25	1 5/8-12	1 5/16-12	2.20
700-20-20	1.25	1 5/8-12	1 5/8-12	2.17
700-20-24	1.25	1 5/8-12	1 7/8-12	2.22
700-24-20	1.50	1 7/8-12	1 5/8-12	2.53
700-24-24	1.50	1 7/8-12	1 7/8-12	2.37
700-24-32	1.50	1 7/8-12	2 1/2-12	2.53
700-32-24	2.00	2 1/2-12	1 7/8-12	2.81
700-32-32	2.00	2 1/2-12	2 1/2-12	2.78

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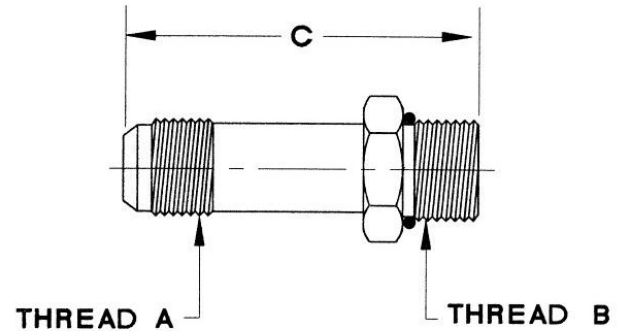
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### STRAIGHT THREAD CONNECTOR EXTRA LONG (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
700XL-04-04	0.25	7/16-20	7/16-20	2.08
700XL-05-05	0.31	1/2-20	1/2-20	2.14
700XL-06-06	0.38	9/16-18	9/16-18	2.31
700XL-06-08	0.38	9/16-18	3/4-16	2.34
700XL-08-08	0.50	3/4-16	3/4-16	2.70
700XL-10-10	0.63	7/8-14	7/8-14	3.04
700XL-12-12	0.75	1 1/16-12	1 1/16-12	3.61
700XL-16-16	1.00	1 5/16-12	1 5/16-12	3.98
700XL-20-20	1.25	1 5/8-12	1 5/8-12	4.69
700XL-24-24	1.50	1 7/8-12	1 7/8-12	5.17
700XL-32-32	2.00	2 1/2-12	2 1/2-12	6.30

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### 700XL SERIES

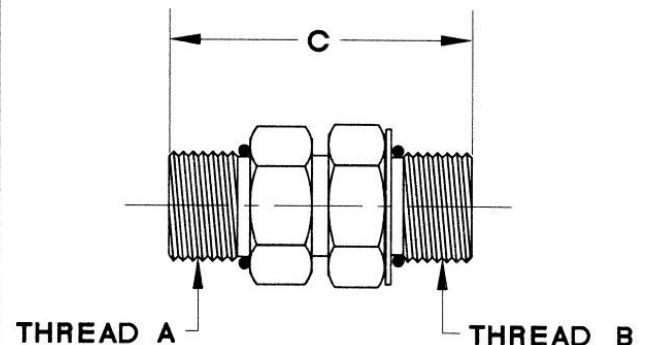


### STRAIGHT THREAD UNION (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
705-04-04	0.25	7/16-20	7/16-20	1.22
705-06-06	0.38	9/16-18	9/16-18	1.41
705-08-08	0.50	3/4-16	3/4-16	1.56
705-10-10	0.63	7/8-14	7/8-14	1.81
705-12-12	0.75	1 1/16-12	1 1/16-12	2.13
705-16-16	1.00	1 5/16-12	1 5/16-12	2.13
705-20-20	1.25	1 5/8-12	1 5/8-12	2.13
705-24-24	1.50	1 7/8-12	1 7/8-12	2.13
705-32-32	2.00	2 1/2-12	2 1/2-12	2.13

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### 705 SERIES

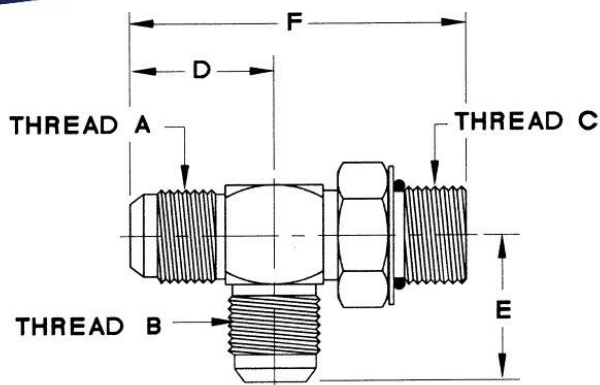






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## 720 SERIES

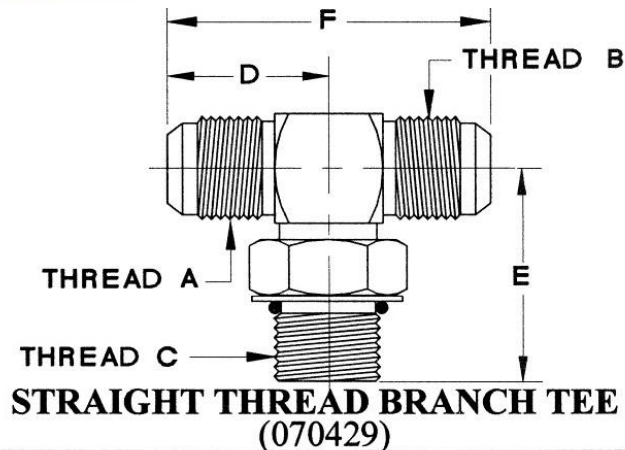


### STRAIGHT THREAD RUN TEE (070428)

PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
720-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	0.89	1.92
720-04-04-06	0.25	7/16-20	7/16-20	9/16-18	0.97	0.97	2.24
720-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	0.95	2.08
720-06-06-04	0.37	9/16-18	9/16-18	7/16-20	0.95	0.95	2.20
720-06-06-06	0.37	9/16-18	9/16-18	9/16-18	1.06	1.06	2.31
720-06-06-08	0.37	9/16-18	9/16-18	3/4-16	1.14	1.14	2.59
720-08-06-10	0.50	3/4-16	9/16-18	7/8-14	1.25	1.06	2.95
720-08-08-06	0.50	3/4-16	3/4-16	9/16-18	1.25	1.25	2.59
720-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.25	2.70
720-08-08-10	0.50	3/4-16	3/4-16	7/8-14	1.31	1.31	2.95
720-10-06-12	0.63	7/8-14	9/16-18	1 1/16-12	1.54	1.29	3.48
720-10-08-08	0.63	7/8-14	3/4-16	3/4-16	1.45	1.31	3.00
720-10-10-08	0.63	7/8-14	7/8-14	3/4-16	1.45	1.45	2.97
720-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.45	1.45	3.15
720-10-10-12	0.63	7/8-14	7/8-14	1 1/16-12	1.55	1.55	3.49
720-10-12-10	0.63	7/8-14	1 1/16-12	7/8-14	1.66	1.66	3.46
720-12-04-12	0.75	1 1/16-12	7/16-20	1 1/16-12	1.66	1.18	3.60
720-12-06-12	0.75	1 1/16-12	9/16-18	1 1/16-12	1.66	1.29	3.60
720-12-12-08	0.75	1 1/16-12	1 1/16-12	3/4-16	1.66	1.66	3.27
720-12-12-10	0.75	1 1/16-12	1 1/16-12	7/8-14	1.66	1.66	3.46
720-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.66	1.66	3.60
720-12-12-14	0.75	1 1/16-12	1 1/16-12	1 3/16-12	1.72	1.72	3.72
720-12-12-16	0.75	1 1/16-12	1 1/16-12	1 5/16-12	1.78	1.78	3.83
720-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.80	1.80	3.80
720-16-12-16	1.00	1 5/16-12	1 1/16-12	1 5/16-12	1.81	1.78	3.86
720-16-16-12	1.00	1 5/16-12	1 5/16-12	1 1/16-12	1.81	1.81	3.86
720-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	1.81	3.86
720-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.06	2.06	4.31
720-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.33	2.33	4.72
720-32-32-24	2.00	2 1/2-12	2 1/2-12	1 7/8-12	3.06	3.06	5.81
720-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.06	3.06	5.95



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## 730 SERIES

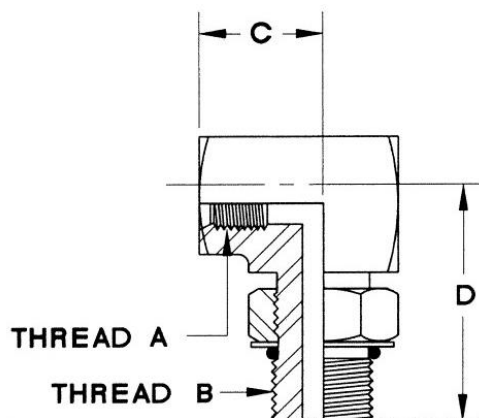
PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
730-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	1.03	1.78
730-04-04-06	0.25	7/16-20	7/16-20	9/16-18	0.95	1.24	1.90
730-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	1.13	1.90
730-06-06-05	0.38	9/16-18	9/16-18	1/2-20	1.06	1.13	2.12
730-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.06	1.25	2.12
730-06-06-08	0.38	9/16-18	9/16-18	3/4-16	1.15	1.45	2.30
730-06-06-10	0.38	9/16-18	9/16-18	7/8-14	1.22	1.70	2.44
730-06-06-12	0.38	9/16-18	9/16-18	1 1/16-12	1.30	1.94	2.60
730-06-08-06	0.38	9/16-18	3/4-16	9/16-18	1.16	1.34	2.32
730-06-12-16	0.38	9/16-18	1 1/16-12	1 5/16-12	1.45	2.05	2.90
730-08-06-10	0.36	3/4-16	9/16-18	7/8-14	1.22	1.70	2.44
730-08-08-06	0.50	3/4-16	3/4-16	9/16-18	1.25	1.33	2.50
730-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.45	2.50
730-08-08-10	0.50	3/4-16	3/4-16	7/8-14	1.32	1.71	2.64
730-08-08-12	0.50	3/4-16	3/4-16	1 1/16-12	1.42	1.94	2.84
730-08-12-12	0.50	3/4-16	1 1/16-12	1 1/16-12	1.41	1.94	2.82
730-10-10-08	0.63	7/8-14	7/8-14	3/4-16	1.46	1.51	2.92
730-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.45	1.70	1.90
730-10-10-12	0.63	7/8-14	7/8-14	1 1/16-12	1.55	1.94	3.10
730-10-10-16	0.63	7/8-14	7/8-14	1 5/16-12	1.67	2.04	3.34
730-12-12-08	0.75	1 1/16-12	1 1/16-12	3/4-16	1.65	1.61	3.30
730-12-12-10	0.75	1 1/16-12	1 1/16-12	7/8-14	1.66	1.81	3.32
730-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.66	1.94	3.32
730-12-12-14	0.75	1 1/16-12	1 1/16-12	1 3/16-12	1.72	2.00	3.44
730-12-12-16	0.75	1 1/16-12	1 1/16-12	1 5/16-12	1.79	2.05	3.58
730-12-16-12	0.75	1 1/16-12	1 5/16-12	1 1/16-12	1.66	1.94	3.32
730-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.80	1.80	3.60
730-16-16-12	1.00	1 5/16-12	1 5/16-12	1 1/16-12	1.81	2.05	3.62
730-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	2.05	3.62
730-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.06	2.25	4.12
730-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.33	2.39	4.66
730-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.06	2.89	6.12





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## **740 SERIES**



### **90 DEGREE ELBOW-FEMALE O.R.B.-MALE ADJUSTABLE O.R.B. (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
740-04-04	0.25	7/16-20	7/16-20	0.63	1.23
740-06-06	0.38	9/16-18	9/16-18	0.75	1.38
740-08-08	0.50	3/4-16	3/4-16	0.88	1.59
740-10-10	0.63	7/8-14	7/8-14	1.02	1.81
740-12-12	0.75	1 1/16-12	1 1/16-12	1.21	2.00
740-16-16	1.00	1 5/16-12	1 5/16-12	1.33	2.26

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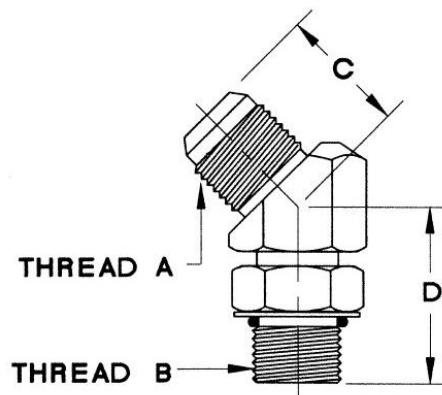
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## 45 DEGREE STRAIGHT THREAD ELBOW (070320)

## 745 SERIES

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
745-04-04	0.25	7/16-20	7/16-20	0.72	1.05
745-04-05	0.25	7/16-20	1/2-20	0.73	1.05
745-04-06	0.25	7/16-20	9/16-18	0.72	1.14
745-04-08	0.25	7/16-20	3/4-16	0.90	1.30
745-05-04	0.31	1/2-20	7/16-20	0.79	1.00
745-05-05	0.31	1/2-20	1/2-20	0.77	1.05
745-05-06	0.31	1/2-20	9/16-18	0.85	1.14
745-06-04	0.38	9/16-18	7/16-20	0.91	1.00
745-06-05	0.38	9/16-18	1/2-20	0.91	1.00
745-06-06	0.38	9/16-18	9/16-18	0.83	1.14
745-06-08	0.38	9/16-18	3/4-16	0.87	1.30
745-06-10	0.38	9/16-18	7/8-14	0.96	1.52
745-08-04	0.50	3/4-16	7/16-20	1.07	1.11
745-08-06	0.50	3/4-16	9/16-18	0.98	1.14
745-08-08	0.50	3/4-16	3/4-16	0.98	1.30
745-08-10	0.50	3/4-16	7/8-14	0.99	1.52
745-08-12	0.50	3/4-16	1 1/16-12	1.05	1.73
745-10-08	0.63	7/8-14	3/4-16	1.09	1.41
745-10-10	0.63	7/8-14	7/8-14	1.11	1.52
745-10-12	0.63	7/8-14	1 1/16-12	1.28	1.73
745-12-08	0.75	1 1/16-12	3/4-16	1.37	1.54
745-12-10	0.75	1 1/16-12	7/8-14	1.30	1.58
745-12-12	0.75	1 1/16-12	1 1/16-12	1.28	1.73
745-12-14	0.75	1 1/16-12	1 3/16-12	1.38	1.81
745-12-16	0.75	1 1/16-12	1 5/16-12	1.47	1.86
745-14-14	0.88	1 3/16-12	1 3/16-12	1.45	1.86
745-16-12	1.00	1 5/16-12	1 1/16-12	1.47	1.86
745-16-16	1.00	1 5/16-12	1 5/16-12	1.47	1.86
745-16-20	1.00	1 5/16-12	1 5/8-12	1.54	1.91
745-20-16	1.25	1 5/8-12	1 5/16-12	1.59	1.86
745-20-20	1.25	1 5/8-12	1 5/8-12	1.59	1.91
745-24-24	1.50	1 7/8-12	1 7/8-12	1.78	1.91
745-32-32	2.00	2 1/2-12	2 1/2-12	2.22	1.86

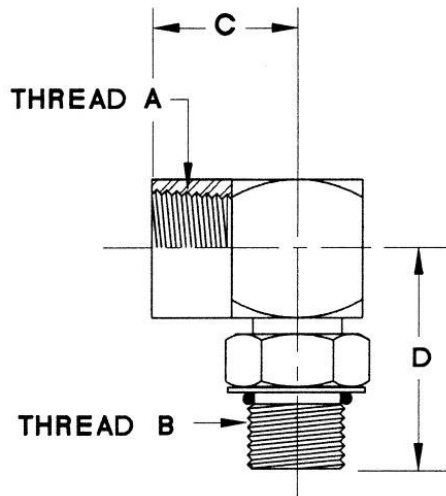
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## **760 SERIES**



### **90 DEGREE FEMALE ADJUSTABLE ADAPTER (NON STANDARD)**

<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
760-02-04	1/8-27	7/16-20	0.64	1.08
760-02-05	1/8-27	1/2-20	0.64	1.11
760-04-04	1/4-18	7/16-20	0.81	1.15
760-04-06	1/4-18	9/16-18	0.88	1.31
760-04-10	1/4-18	7/8-14	0.96	1.70
760-06-04	3/8-18	7/16-20	1.02	1.22
760-06-06	3/8-18	9/16-18	1.02	1.37
760-06-08	3/8-18	3/4-16	1.02	1.47
760-06-10	3/8-18	7/8-14	1.07	1.70
760-08-06	1/2-14	9/16-18	1.23	1.49
760-08-08	1/2-14	3/4-16	1.24	1.59
760-08-10	1/2-14	7/8-14	1.24	1.78
760-08-12	1/2-14	1 1/16-12	1.34	1.98
760-12-08	3/4-14	3/4-16	1.34	1.47
760-12-10	3/4-14	7/8-14	1.34	1.66
760-12-12	3/4-14	1 1/16-12	1.34	2.05
760-12-14	3/4-14	1 3/16-12	1.34	2.05
760-12-16	3/4-14	1 5/16-12	1.34	2.05
760-16-12	1-11 1/2	1 1/16-12	1.62	2.23
760-16-16	1-11 1/2	1 5/16-12	1.62	2.16
760-20-20	1 1/4-11 1/2	1 5/8-12	1.75	2.36
760-24-24	1 1/2-11 1/2	1 7/8-12	2.06	2.56
760-32-32	2-11 1/2	2 1/2-12	2.39	3.00

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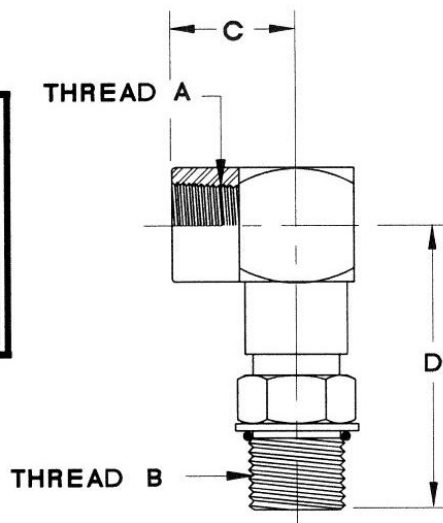
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## 90 DEGREE EXTRA LONG FEMALE ADJUSTABLE ADAPTER (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C	DIM D
760XL-06-06	3/8-18	9/16-18	1.02	2.15
760XL-06-08	3/8-18	3/4-16	1.02	2.97
760XL-08-10	1/2-14	7/8-14	1.23	3.56
760XL-12-12	3/4-14	1 1/16-12	1.36	4.13
760XL-16-16	1-11 1/2	1 5/16-12	1.62	4.64

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## 760XL SERIES

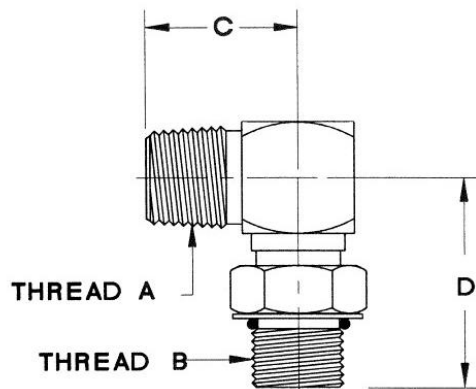


## 90 DEGREE MALE ADJUSTABLE ADAPTER (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C	DIM D
780-02-04	1/8-27	7/16-20	0.78	1.02
780-02-05	1/8-27	1/2-20	0.78	1.08
780-04-06	1/4-18	9/16-18	1.03	1.23
780-06-08	3/8-18	3/4-16	1.22	1.43
780-08-10	1/2-14	7/8-14	1.44	1.68
780-12-12	3/4-14	1 1/16-12	1.60	1.92
780-12-14	3/4-14	1 3/16-12	1.66	1.98
780-16-16	1-11 1/2	1 5/16-12	1.97	2.03
780-20-20	1 1/4-11 1/2	1 5/8-12	2.37	2.23
780-24-24	1 1/2-11 1/2	1 7/8-12	2.62	2.37

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## 780 SERIES





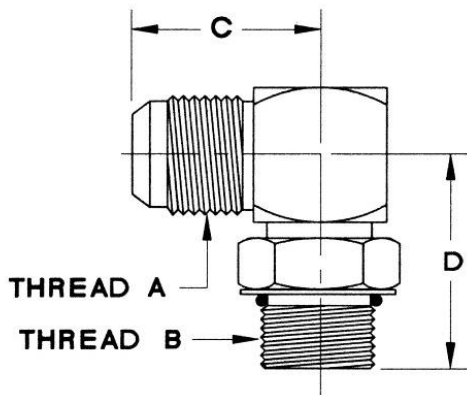


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## 790 SERIES

## 90 DEGREE STRAIGHT THREAD ELBOW

(070220)



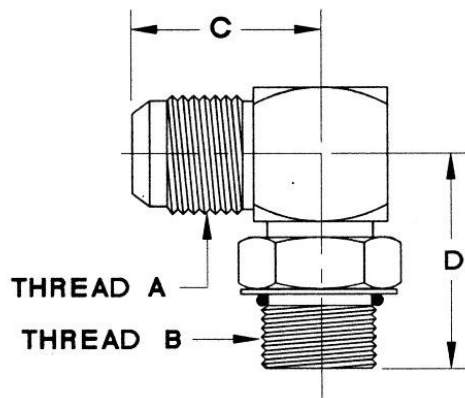
PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
790-02-02	0.13	5/16-24	5/16-24	0.77	0.91
790-03-03	0.19	3/8-24	3/8-24	0.83	0.94
790-04-04	0.25	7/16-20	7/16-20	0.89	1.03
790-04-05	0.25	7/16-20	1/2-20	0.95	1.13
790-04-06	0.25	7/16-20	9/16-18	0.95	1.25
790-04-08	0.25	7/16-20	3/4-16	1.05	1.45
790-05-04	0.31	1/2-20	7/16-20	0.98	1.06
790-05-05	0.31	1/2-20	1/2-20	0.95	1.09
790-05-06	0.31	1/2-20	9/16-18	0.98	1.25
790-05-08	0.31	1/2-20	3/4-16	1.09	1.45
790-05-10	0.31	1/2-20	7/8-14	1.13	1.70
790-06-04	0.38	9/16-18	7/16-20	1.06	1.09
790-06-05	0.38	9/16-18	1/2-20	1.06	1.13
790-06-06	0.38	9/16-18	9/16-18	1.06	1.25
790-06-08	0.38	9/16-18	3/4-16	1.16	1.45
790-06-10	0.38	9/16-18	7/8-14	1.22	1.70
790-06-12	0.38	9/16-18	1 1/16-12	1.29	1.94
790-06-16	0.38	9/16-18	1 5/16-12	1.45	2.05
790-08-04	0.50	3/4-16	7/16-20	1.25	1.18
790-08-05	0.50	3/4-16	1/2-20	1.25	1.18
790-08-06	0.50	3/4-16	9/16-18	1.25	1.34
790-08-08	0.50	3/4-16	3/4-16	1.25	1.45
790-08-10	0.50	3/4-16	7/8-14	1.31	1.70
790-08-12	0.50	3/4-16	1 1/16-12	1.41	1.94
790-08-16	0.50	3/4-16	1 5/16-12	1.55	2.05
790-10-06	0.63	7/8-14	9/16-18	1.45	1.40
790-10-08	0.63	7/8-14	3/4-16	1.45	1.52
790-10-10	0.63	7/8-14	7/8-14	1.45	1.70
790-10-12	0.63	7/8-14	1 1/16-12	1.55	1.94
790-10-16	0.63	7/8-14	1 5/16-12	1.66	2.05
790-10-20	0.63	7/8-14	1 5/8-12	1.86	2.32
790-12-06	0.75	1 1/16-12	9/16-18	1.65	1.51
790-12-08	0.75	1 1/16-12	3/4-16	1.66	1.80

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## **790 SERIES**



### **90 DEGREE STRAIGHT THREAD ELBOW (070220)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
790-12-10	0.75	1 1/16-12	7/8-14	1.66	1.80
790-12-12	0.75	1 1/16-12	1 1/16-12	1.66	1.94
790-12-14	0.75	1 1/16-12	1 3/16-12	1.72	2.00
790-12-16	0.75	1 1/16-12	1 5/16-12	1.78	2.05
790-12-20	0.75	1 1/16-12	1 5/8-12	1.95	2.25
790-14-12	0.88	1 3/16-12	1 1/16-12	1.74	1.99
790-14-14	0.88	1 3/16-12	1 3/16-12	1.72	2.00
790-14-16	0.88	1 3/16-12	1 5/16-12	1.28	2.06
790-16-08	1.00	1 5/16-12	3/4-16	1.81	1.74
790-16-10	1.00	1 5/16-12	7/8-14	1.81	1.93
790-16-12	1.00	1 5/16-12	1 1/16-12	1.81	2.06
790-16-14	1.00	1 5/16-12	1 3/16-12	1.81	2.06
790-16-16	1.00	1 5/16-12	1 5/16-12	1.81	2.05
790-16-20	1.00	1 5/16-12	1 5/8-12	2.00	2.25
790-20-12	1.25	1 5/8-12	1 1/16-12	2.06	2.25
790-20-14	1.25	1 5/8-12	1 3/16-12	2.06	2.25
790-20-16	1.25	1 5/8-12	1 5/16-12	2.06	2.23
790-20-20	1.25	1 5/8-12	1 5/8-12	2.06	2.25
790-20-24	1.25	1 5/8-12	1 7/8-12	2.28	2.42
790-24-16	1.50	1 7/8-12	1 5/16-12	2.33	2.34
790-24-20	1.50	1 7/8-12	1 5/8-12	2.33	2.38
790-24-24	1.50	1 7/8-12	1 7/8-12	2.33	2.39
790-32-24	2.00	2 1/2-12	1 7/8-12	3.06	2.75
790-32-32	2.00	2 1/2-12	2 1/2-12	3.06	2.89

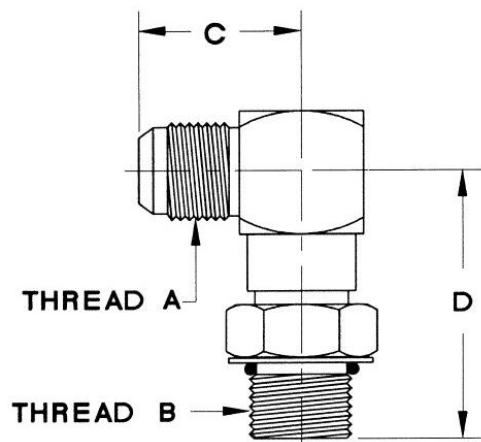
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### 790L SERIES



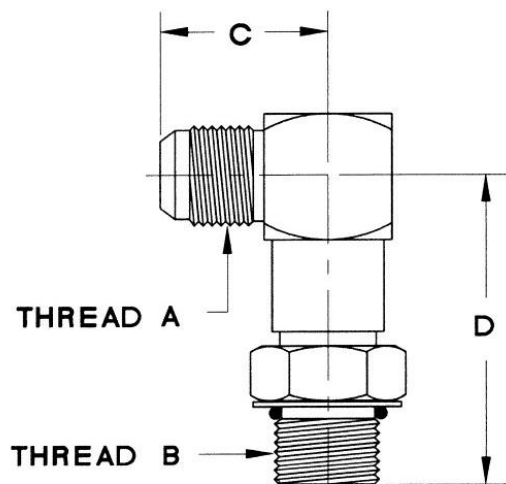
### 90 DEGREE LONG STRAIGHT THREAD ELBOW (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
790L-04-04	0.25	7/16-20	7/16-20	0.89	1.19
790L-05-05	0.31	1/2-20	1/2-20	0.95	1.22
790L-06-06	0.38	9/16-18	9/16-18	1.06	1.66
790L-06-08	0.38	9/16-18	3/4-16	1.15	1.81
790L-08-08	0.50	3/4-16	3/4-16	1.25	1.81
790L-08-10	0.50	3/4-16	7/8-14	1.33	2.13
790L-10-10	0.63	7/8-14	7/8-14	1.44	2.16
790L-10-12	0.63	7/8-14	1 1/16-12	1.66	2.25
790L-12-10	0.75	1 1/16-12	7/8-14	1.52	2.47
790L-12-12	0.75	1 1/16-12	1 1/16-12	1.66	2.47
790L-16-12	1.00	1 5/16-12	1 1/16-12	1.81	2.59
790L-16-16	1.00	1 5/16-12	1 5/16-12	1.81	3.06
790L-20-20	1.25	1 5/8-12	1 5/8-12	2.06	3.48
790L-24-24	1.50	1 7/8-12	1 7/8-12	2.33	3.93
790L-32-32	2.00	2 1/2-12	2 1/2-12	3.06	4.46

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### 90 DEGREE EXTRA LONG STRAIGHT THREAD ELBOW (NON STANDARD)

### 790XL SERIES



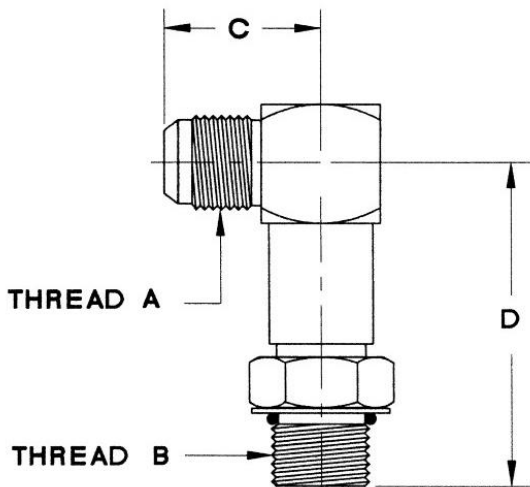
PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
790XL-04-04	0.25	7/16-20	7/16-20	0.89	1.73
790XL-05-05	0.31	1/2-20	1/2-20	0.95	1.86
790XL-06-05	0.38	9/16-18	1/2-20	1.06	1.89
790XL-06-06	0.38	9/16-18	9/16-18	1.06	2.08
790XL-06-08	0.38	9/16-18	3/4-16	1.16	2.49
790XL-08-06	0.50	3/4-16	9/16-18	1.25	2.17
790XL-08-08	0.50	3/4-16	3/4-16	1.25	2.50
790XL-08-10	0.50	3/4-16	7/8-14	1.30	2.88
790XL-10-08	0.63	7/8-14	3/4-16	1.45	2.56
790XL-10-10	0.63	7/8-14	7/8-14	1.45	2.88
790XL-12-08	0.75	1 1/16-12	3/4-16	1.66	2.66
790XL-12-10	0.75	1 1/16-12	7/8-14	1.66	3.00
790XL-12-12	0.75	1 1/16-12	1 1/16-12	1.66	3.34
790XL-12-16	0.75	1 1/16-12	1 5/16-12	1.78	3.72
790XL-14-14	0.88	1 3/16-12	1 3/16-12	1.73	3.57
790XL-16-16	1.00	1 5/16-12	1 5/16-12	1.81	3.71
790XL-20-20	1.25	1 5/8-12	1 5/8-12	2.06	4.41
790XL-24-24	1.50	1 7/8-12	1 7/8-12	2.33	4.81
790XL-32-32	2.00	2 1/2-12	2 1/2-12	3.06	5.98





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**790XXL SERIES**



**90 DEGREE EXTRA EXTRA LONG  
 STRAIGHT THREAD ELBOW  
 (NON STANDARD)**

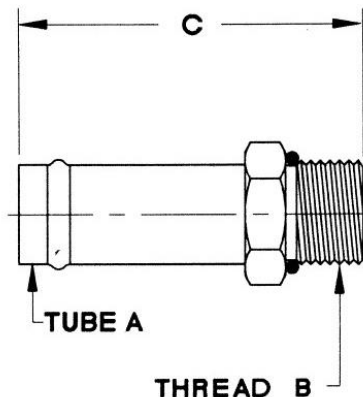
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
790XXL-04-04	0.25	7/16-20	7/16-20	0.89	2.44
790XXL-06-06	0.38	9/16-18	9/16-18	1.06	3.07
790XXL-08-08	0.50	3/4-16	3/4-16	1.25	3.54
790XXL-10-10	0.63	7/8-14	7/8-14	1.45	3.99
790XXL-12-12	0.75	1 1/16-12	1 1/16-12	1.66	4.75
790XXL-16-16	1.00	1 5/16-12	1 5/16-12	1.81	5.39

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## 800 SERIES



## STRAIGHT THREAD HOSE CONNECTOR (NON STANDARD)

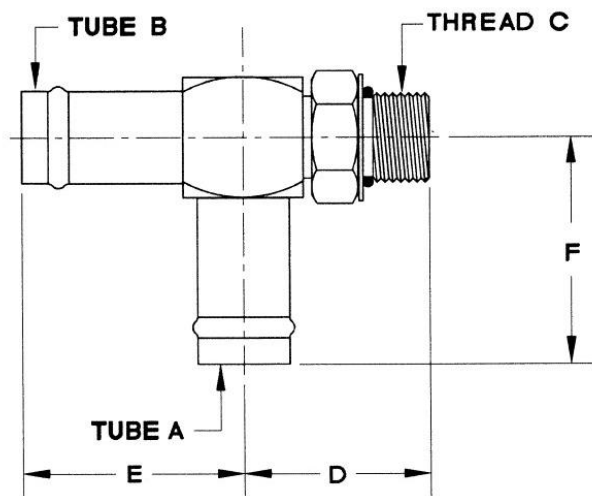
PART NO.	TUBE A	THREAD B	DIM C
800-04-04	0.25	7/16-20	1.80
800-04-06	0.25	9/16-18	1.86
800-05-05	0.31	1/2-20	1.77
800-06-04	0.37	7/16-20	1.80
800-06-06	0.37	9/16-18	1.86
800-08-06	0.50	9/16-18	1.89
800-08-08	0.50	3/4-16	1.96
800-10-08	0.62	3/4-16	1.96
800-10-10	0.62	7/8-14	2.09
800-10-12	0.62	1 1/16-12	2.16
800-12-08	0.75	3/4-16	1.96
800-12-10	0.75	7/8-14	2.09
800-12-12	0.75	1 1/16-12	2.16
800-12-16	0.75	1 5/16-12	2.28
800-16-10	1.00	7/8-14	2.09
800-16-12	1.00	1 1/16-12	2.16
800-16-14	1.00	1 3/16-12	2.26
800-16-16	1.00	1 5/16-12	2.28
800-16-20	1.00	1 5/8-12	2.35
800-20-12	1.25	1 1/16-12	2.54
800-20-16	1.25	1 5/16-12	2.66
800-20-20	1.25	1 5/8-12	2.73
800-20-24	1.25	1 7/8-12	2.78
800-24-16	1.50	1 5/16-12	2.54
800-24-20	1.50	1 5/8-12	2.73
800-24-24	1.50	1 7/8-12	2.79
800-32-24	2.00	1 7/8-12	2.79
800-32-32	2.00	2 1/2-12	2.97

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## 820 SERIES



### RUN TEE STRAIGHT THREAD HOSE CONNECTOR (NON STANDARD)

PART NO.	TUBE A	TUBE B	THREAD C	DIM D	DIM E	DIM F
820-04-04-04	0.25	0.25	7/16-20	1.03	1.43	1.43
820-06-06-06	0.38	0.38	9/16-18	1.25	1.49	1.49
820-08-08-08	0.50	0.50	3/4-16	1.45	1.67	1.67
820-10-10-10	0.63	0.63	7/8-14	1.70	1.69	1.69
820-12-12-12	0.75	0.75	1 1/16-12	1.90	1.79	1.79
820-16-16-16	1.00	1.00	1 5/16-12	2.12	1.82	1.82
820-20-20-20	1.25	1.25	1 5/8-12	2.39	2.43	2.43
820-24-24-24	1.50	1.50	1 7/8-12	2.37	2.56	2.56
820-32-32-32	2.00	2.00	2 1/2-12	3.05	2.97	2.97

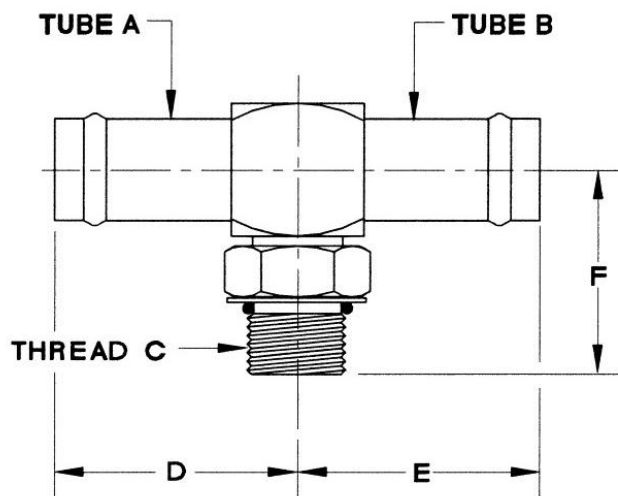
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## **830 SERIES**



### **BRANCH TEE STRAIGHT THREAD HOSE CONNECTOR (NON STANDARD)**

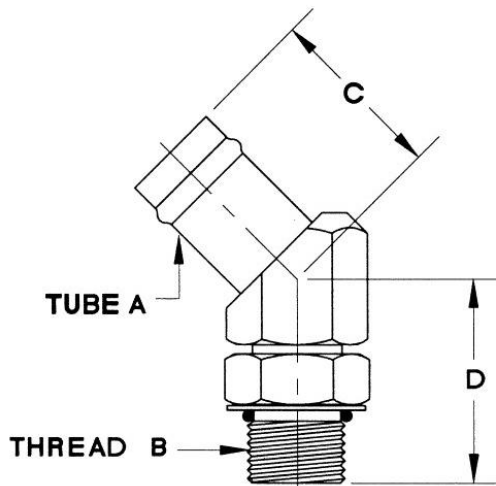
<b>PART NO.</b>	<b>TUBE A</b>	<b>TUBE B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
830-04-04-04	0.25	0.25	7/16-20	1.43	1.43	1.03
830-06-06-06	0.38	0.38	9/16-18	1.49	1.49	1.25
830-08-08-08	0.50	0.50	3/4-16	1.67	1.67	1.45
830-10-10-10	0.63	0.63	7/8-14	1.69	1.69	1.70
830-12-12-12	0.75	0.75	1 1/16-12	1.79	1.79	1.90
830-16-16-16	1.00	1.00	1 5/16-12	1.82	1.82	2.12
830-20-20-20	1.25	1.25	1 5/8-12	2.43	2.43	2.39
830-24-24-24	1.50	1.50	1 7/8-12	2.56	2.56	2.37
830-32-32-32	2.00	2.00	2 1/2-12	2.97	2.97	3.05

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## **845 SERIES**



### **45 DEGREE STRAIGHT THREAD HOSE CONNECTOR (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>TUBE A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
845-04-04	0.25	7/16-20	1.37	1.03
845-05-05	0.31	1/2-20	1.39	1.05
845-06-06	0.38	9/16-18	1.46	1.12
845-08-08	0.50	3/4-16	1.62	1.28
845-10-08	0.63	3/4-16	1.62	1.28
845-10-10	0.63	7/8-14	1.69	1.50
845-10-12	0.63	1 1/16-12	1.70	1.80
845-12-08	0.75	3/4-16	1.62	1.28
845-12-10	0.75	7/8-14	1.62	1.50
845-12-12	0.75	1 1/16-12	1.70	1.80
845-12-16	0.75	1 5/16-12	1.86	1.84
845-16-12	1.00	1 1/16-12	1.70	2.00
845-16-16	1.00	1 5/16-12	1.86	1.84
845-20-16	1.25	1 5/16-12	1.86	1.84
845-20-20	1.25	1 5/8-12	1.92	1.90
845-24-16	1.50	1 5/16-12	1.77	1.84
845-24-20	1.50	1 5/8-12	1.92	1.90
845-24-24	1.50	1 7/8-12	2.45	1.90
845-32-32	2.00	2 1/2-12	3.25	1.87

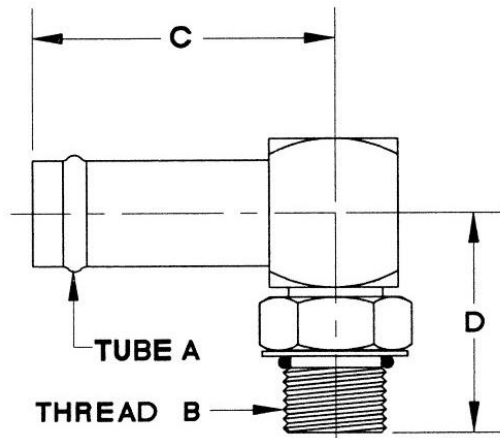
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## 890 SERIES

## 90 DEGREE STRAIGHT THREAD HOSE CONNECTOR (NON STANDARD)



PART NO.	TUBE A	THREAD B	DIM C	DIM D
890-04-04	0.25	7/16-20	1.43	1.03
890-04-05	0.25	1/2-20	1.43	1.31
890-04-06	0.25	9/16-18	1.49	1.25
890-05-04	0.31	7/16-20	1.43	1.01
890-05-05	0.31	1/2-20	1.43	1.31
890-06-04	0.38	7/16-20	1.43	1.03
890-06-06	0.38	9/16-18	1.49	1.25
890-06-08	0.38	3/4-16	1.61	1.47
890-08-06	0.50	9/16-18	1.54	1.25
890-08-08	0.50	3/4-16	1.67	1.45
890-10-08	0.63	3/4-16	1.67	1.45
890-10-10	0.63	7/8-14	1.67	1.70
890-10-12	0.63	1 1/16-12	1.79	1.93
890-12-08	0.75	3/4-16	1.63	1.45
890-12-10	0.75	7/8-14	1.73	1.68
890-12-12	0.75	1 1/16-12	1.79	1.93
890-12-16	0.75	1 5/16-12	1.91	2.04
890-14-14	0.88	1 3/16-12	1.85	2.00
890-16-10	1.00	7/8-14	1.70	1.68
890-16-12	1.00	1 1/16-12	1.70	1.95
890-16-14	1.00	1 3/16-12	1.70	2.00
890-16-16	1.00	1 5/16-12	1.70	2.04
890-16-20	1.00	1 5/8-12	2.01	2.25
890-20-12	1.25	1 1/16-12	2.22	2.03
890-20-16	1.25	1 5/16-12	2.22	2.04
890-20-20	1.25	1 5/8-12	2.41	2.25
890-20-24	1.25	1 7/8-12	2.54	2.30
890-24-16	1.50	1 5/16-12	2.20	2.37
890-24-20	1.50	1 5/8-12	2.41	2.24
890-24-24	1.50	1 7/8-12	2.54	2.39
890-32-32	2.00	2 1/2-12	2.85	2.89

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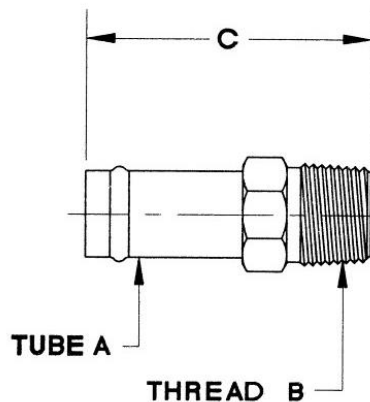
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## MALE PIPE HOSE CONNECTOR (430160)

PART NO.	TUBE A	THREAD B	DIM C
900-04-02	0.25	1/8-27	1.69
900-04-04	0.25	1/4-18	1.90
900-05-02	0.31	1/8-27	1.69
900-05-04	0.31	1/4-18	1.90
900-06-02	0.38	1/8-27	1.69
900-06-04	0.38	1/4-18	1.90
900-06-06	0.38	3/8-18	1.93
900-08-04	0.50	1/4-18	1.93
900-08-06	0.50	3/8-18	1.96
900-08-08	0.50	1/2-14	2.15
900-08-12	0.50	3/4-14	2.21
900-10-06	0.63	3/8-18	1.96
900-10-08	0.63	1/2-14	2.15
900-10-12	0.63	3/4-14	2.21
900-12-06	0.75	3/8-18	1.96
900-12-08	0.75	1/2-14	2.15
900-12-12	0.75	3/4-14	2.21
900-16-12	1.00	3/4-14	2.21
900-16-16	1.00	1-11 1/2	2.43
900-20-16	1.25	1-11 1/2	3.01
900-20-20	1.25	1 1/4-11 1/2	3.01
900-24-20	1.50	1 1/4-11 1/2	2.88
900-24-24	1.50	1 1/2-11 1/2	3.07
900-32-32	2.00	2-11 1/2	3.22

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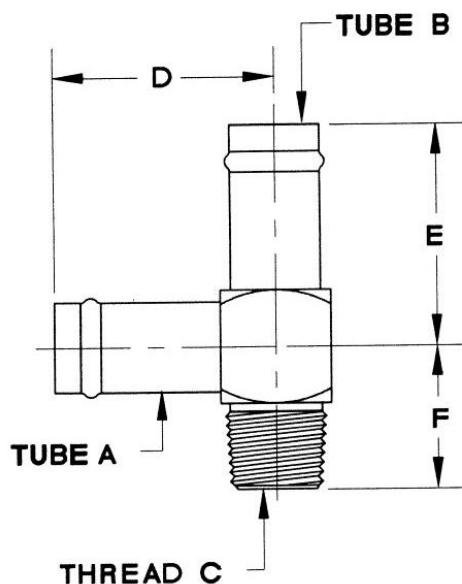
## 900 SERIES





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## 920 SERIES



### **RUN TEE MALE PIPE-HOSE CONNECTOR (NON STANDARD)**

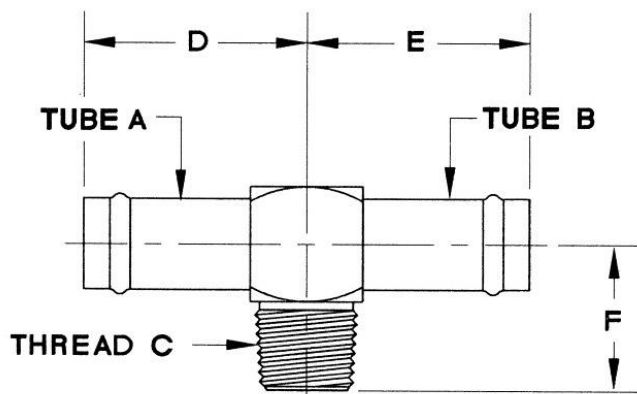
<u>PART NO.</u>	<u>TUBE A</u>	<u>TUBE B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
920-06-06-04	0.38	0.38	1/4-18	1.53	1.53	1.20
920-08-08-06	0.50	0.50	3/8-18	1.60	1.60	1.23
920-10-10-08	0.63	0.63	1/2-14	1.72	1.72	1.49
920-12-12-12	0.75	0.75	3/4-14	1.80	1.80	1.60
920-16-16-16	1.00	1.00	1-11 1/2	1.91	1.91	2.00
920-20-20-20	1.25	1.25	1 1/4-11 1/2	2.41	2.41	2.55
920-24-24-24	1.50	1.50	1 1/2-11 1/2	2.53	2.53	2.68
920-32-32-32	2.00	2.00	2-11 1/2	2.85	2.85	3.05

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## **930 SERIES**



### **BRANCH TEE MALE PIPE-HOSE CONNECTOR (NON STANDARD)**

<u>PART NO.</u>	<u>TUBE A</u>	<u>TUBE B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
930-04-04-02	0.25	0.25	1/8-27	1.42	1.42	0.71
930-04-04-04	0.25	0.25	1/4-18	1.48	1.48	1.06
930-06-06-04	0.38	0.38	1/4-18	1.53	1.53	1.20
930-08-08-06	0.50	0.50	3/8-18	1.60	1.60	1.23
930-08-08-08	0.50	0.50	1/2-14	1.66	1.66	1.44
930-10-10-08	0.63	0.63	1/2-14	1.72	1.72	1.49
930-12-12-12	0.75	0.75	3/4-14	1.80	1.80	1.60
930-16-16-16	1.00	1.00	1-11 1/2	1.91	1.91	2.00
930-20-20-20	1.25	1.25	1 1/4-11 1/2	2.41	2.41	2.55
930-24-24-24	1.50	1.50	1 1/2-11 1/2	2.53	2.53	2.68
930-32-32-32	2.00	2.00	2-11 1/2	2.85	2.85	3.05

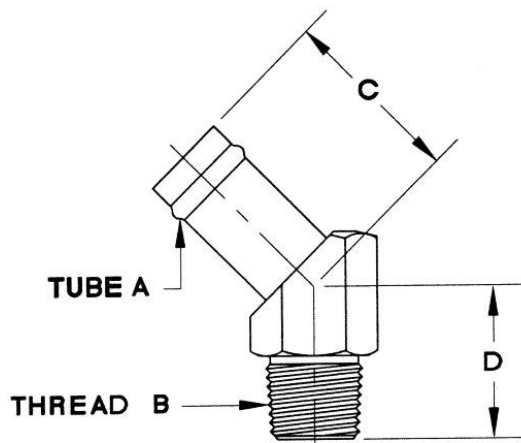
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### 945 SERIES



### **45 DEGREE MALE PIPE HOSE CONNECTOR (430360)**

<b>PART NO.</b>	<b>TUBE A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
945-04-02	0.25	1/8-27	1.41	0.60
945-04-04	0.25	1/4-18	1.47	0.91
945-05-02	0.31	1/8-27	1.34	0.64
945-06-04	0.38	1/4-18	1.45	0.91
945-06-06	0.38	3/8-18	1.53	0.95
945-08-04	0.50	1/4-18	1.41	0.91
945-08-06	0.50	3/8-18	1.44	1.13
945-08-08	0.50	1/2-14	1.60	1.06
945-10-06	0.63	3/8-18	1.58	0.98
945-10-08	0.63	1/2-14	1.66	1.08
945-10-12	0.63	3/4-14	1.68	1.30
945-12-08	0.75	1/2-14	1.51	1.08
945-12-12	0.75	3/4-14	1.53	1.32
945-12-16	0.75	1-11 1/2	1.71	1.49
945-16-12	1.00	3/4-14	1.43	1.35
945-16-16	1.00	1-11 1/2	1.70	1.45
945-16-20	1.00	1 1/4-11 1/2	1.85	1.56
945-20-16	1.25	1-11 1/2	1.96	1.89
945-20-20	1.25	1 1/4-11 1/2	2.13	1.50
945-24-20	1.50	1 1/4-11 1/2	1.96	1.56
945-24-24	1.50	1 1/2-11 1/2	2.36	1.75
945-32-32	2.00	2-11 1/2	2.22	2.10

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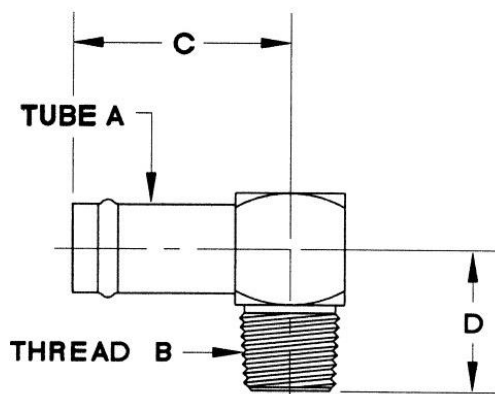
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**90 DEGREE MALE  
 PIPE HOSE CONNECTOR  
 (430260)**

**990 SERIES**

PART NO.	TUBE A	THREAD B	DIM C	DIM D
990-04-02	0.25	1/8-27	1.42	0.71
990-04-04	0.25	1/4-18	1.48	1.06
990-05-02	0.31	1/8-27	1.55	1.22
990-05-04	0.31	1/4-18	1.43	0.78
990-06-02	0.38	1/8-27	1.49	1.06
990-06-04	0.38	1/4-18	1.53	1.20
990-06-06	0.38	3/8-18	1.59	1.22
990-06-08	0.38	1/2-14	1.65	1.46
990-08-04	0.50	1/4-18	1.54	1.10
990-08-06	0.50	3/8-18	1.60	1.23
990-08-08	0.50	1/2-14	1.66	1.44
990-08-12	0.50	3/4-14	1.79	1.60
990-10-06	0.63	3/8-18	1.66	1.20
990-10-08	0.63	1/2-14	1.72	1.49
990-10-12	0.63	3/4-14	1.85	1.60
990-12-06	0.75	3/8-18	1.62	1.20
990-12-08	0.75	1/2-14	1.68	1.44
990-12-12	0.75	3/4-14	1.80	1.60
990-12-16	0.75	1-11 1/2	1.84	1.98
990-16-08	1.00	1/2-14	1.96	1.96
990-16-12	1.00	3/4-14	2.13	1.60
990-16-16	1.00	1-11 1/2	1.91	2.00
990-16-20	1.00	1 1/4-11 1/2	2.45	2.38
990-16-24	1.00	1 1/2-11 1/2	2.23	2.64
990-20-16	1.25	1-11 1/2	2.23	1.98
990-20-20	1.25	1 1/4-11 1/2	2.41	2.55
990-20-24	1.25	1 1/2-11 1/2	2.22	2.64
990-24-16	1.50	1-11 1/2	2.23	2.16
990-24-20	1.50	1 1/4-11 1/2	2.42	2.38
990-24-24	1.50	1 1/2-11 1/2	2.53	2.68
990-32-32	2.00	2-11 1/2	2.85	3.05

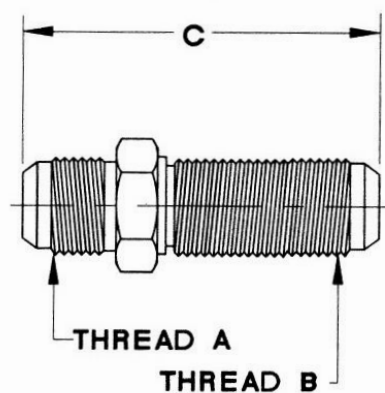
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### 1000 SERIES



### **BULKHEAD UNION** (070601)

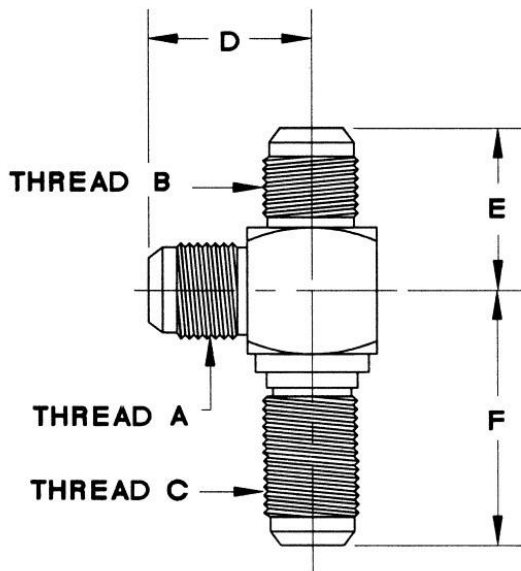
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
1000-03-03	0.19	3/8-24	3/8-24	1.90
1000-04-04	0.25	7/16-20	7/16-20	2.07
1000-05-05	0.31	1/2-20	1/2-20	2.07
1000-06-06	0.38	9/16-18	9/16-18	2.18
1000-08-08	0.50	3/4-16	3/4-16	2.44
1000-10-10	0.63	7/8-14	7/8-14	2.74
1000-10-12	0.63	7/8-14	1 1/16-12	2.96
1000-12-12	0.75	1 1/16-12	1 1/16-12	3.09
1000-14-14	0.88	1 3/16-12	1 3/16-12	3.12
1000-16-16	1.00	1 5/16-12	1 5/16-12	3.14
1000-20-20	1.25	1 5/8-12	1 5/8-12	3.31
1000-24-24	1.50	1 7/8-12	1 7/8-12	3.52
1000-32-32	2.00	2 1/2-12	2 1/2-12	4.20

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## **1020 SERIES**

### **BULKHEAD RUN TEE (NON STANDARD)**

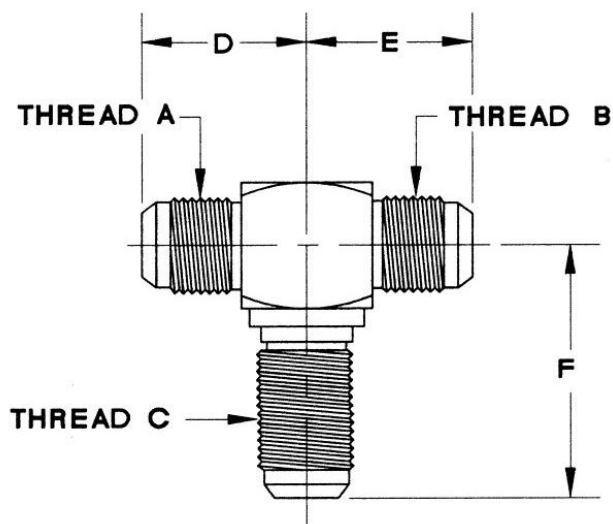
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1020-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.97	0.97	1.59
1020-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.09	1.09	1.81
1020-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.36	1.36	2.11
1020-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.56	1.56	2.39
1020-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.78	1.78	2.69
1020-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.94	1.94	2.80
1020-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.18	2.18	3.23
1020-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.34	2.34	3.42
1020-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2.89	2.89	4.11

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## **1030 SERIES**



**BULKHEAD BRANCH TEE**  
 (070959)

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
1030-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.97	0.97	1.59
1030-05-05-05	0.31	1/2-20	1/2-20	1/2-20	1.06	1.06	1.72
1030-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.09	1.09	1.81
1030-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.36	1.36	2.11
1030-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.56	1.56	2.39
1030-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.78	1.78	2.67
1030-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.92	1.92	2.80
1030-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.94	1.94	2.80
1030-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.17	2.17	3.12

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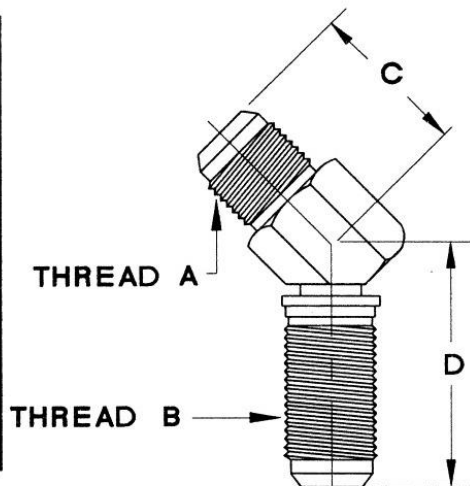
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## 45 DEGREE BULKHEAD ELBOW (070801)

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
1045-04-04	0.25	7/16-20	7/16-20	0.72	1.53
1045-05-05	0.31	1/2-20	1/2-20	0.77	1.66
1045-06-06	0.38	9/16-18	9/16-18	0.83	1.67
1045-08-08	0.50	3/4-16	3/4-16	0.98	1.94
1045-10-10	0.63	7/8-14	7/8-14	1.11	2.17
1045-12-12	0.75	1 1/16-12	1 1/16-12	1.28	2.44
1045-14-14	0.88	1 3/16-12	1 3/16-12	1.45	2.50
1045-16-16	1.00	1 5/16-12	1 5/16-12	1.47	2.56
1045-20-20	1.25	1 5/8-12	1 5/8-12	1.59	2.65
1045-24-24	1.50	1 7/8-12	1 7/8-12	1.78	2.67

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## 1045 SERIES

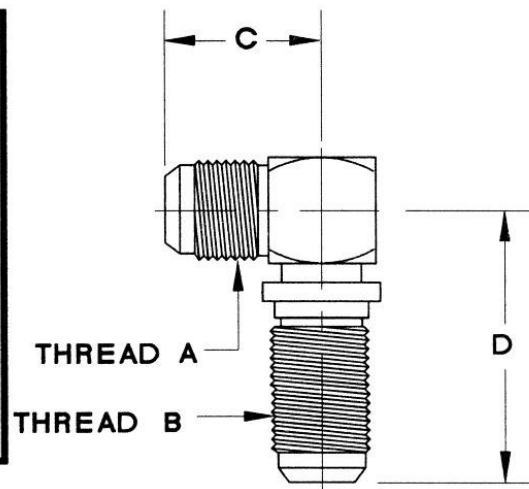


## 90 DEGREE BULKHEAD ELBOW (070701)

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
1090-04-04	0.25	7/16-20	7/16-20	0.97	1.59
1090-05-05	0.31	1/2-20	1/2-20	1.06	1.72
1090-06-06	0.38	9/16-18	9/16-18	1.09	1.81
1090-08-08	0.50	3/4-16	3/4-16	1.36	2.11
1090-10-10	0.63	7/8-14	7/8-14	1.56	2.39
1090-12-12	0.75	1 1/16-12	1 1/16-12	1.78	2.67
1090-16-12	1.00	1 5/16-12	1 1/16-12	1.89	2.80
1090-16-16	1.00	1 5/16-12	1 5/16-12	1.94	2.80
1090-20-20	1.25	1 5/8-12	1 5/8-12	2.17	3.12
1090-24-24	1.50	1 7/8-12	1 7/8-12	2.34	3.42

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## 1090 SERIES



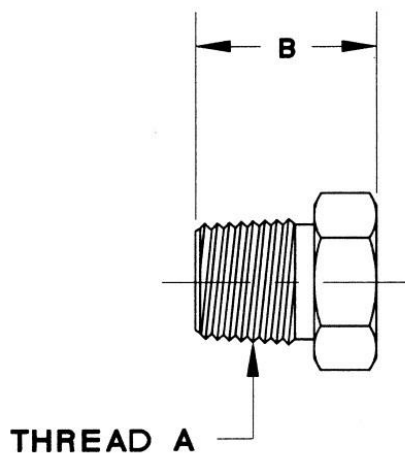




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## PIPE FITTINGS

### 1100 SERIES



## MALE PIPE PLUG

(130109E)

<u>PART NO.</u>	<u>THREAD A</u>	<u>DIM B</u>
1100-02	1/8-27	0.53
1100-04	1/4-18	0.74
1100-06	3/8-18	0.77
1100-08	1/2-14	0.96
1100-12	3/4-14	1.05
1100-16	1-11 1/2	1.24
1100-20	1 1/4-11 1/2	1.28
1100-24	1 1/2-11 1/2	1.31
1100-32	2-11 1/2	1.75

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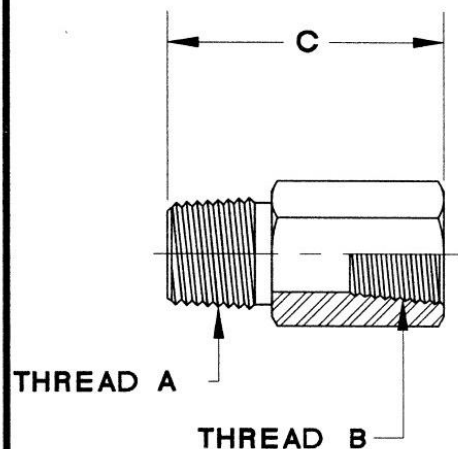


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## PIPE-PIPE MALE ADAPTER (140139)

## 1110 SERIES

PART NO.	O.D.	PORT SIZE	THREAD A	THREAD B	DIM C
1110-02-02	0.13	0.13	1/8-27	1/8-27	1.04
1110-02-04	0.13	0.25	1/8-27	1/4-18	1.21
1110-02-06	0.13	0.38	1/8-27	3/8-18	1.34
1110-02-08	0.13	0.50	1/8-27	1/2-14	1.48
1110-04-02	0.25	0.13	1/4-18	1/8-27	1.22
1110-04-04	0.25	0.25	1/4-18	1/4-18	1.39
1110-04-06	0.25	0.38	1/4-18	3/8-18	1.43
1110-04-08	0.25	0.50	1/4-18	1/2-14	1.68
1110-04-12	0.25	0.75	1/4-18	3/4-14	1.74
1110-06-02	0.38	0.13	3/8-18	1/8-27	1.42
1110-06-04	0.38	0.25	3/8-18	1/4-18	1.44
1110-06-06	0.38	0.38	3/8-18	3/8-18	1.43
1110-06-08	0.38	0.50	3/8-18	1/2-14	1.68
1110-06-12	0.38	0.75	3/8-18	3/4-14	1.74
1110-08-06	0.50	0.38	1/2-14	3/8-18	1.85
1110-08-08	0.50	0.50	1/2-14	1/2-14	1.87
1110-08-12	0.50	0.75	1/2-14	3/4-14	1.93
1110-08-16	0.50	1.00	1/2-14	1-11 1/2	2.18
1110-12-04	0.75	0.25	3/4-14	1/4-18	1.82
1110-12-06	0.75	0.38	3/4-14	3/8-18	1.62
1110-12-08	0.75	0.50	3/4-14	1/2-14	1.93
1110-12-12	0.75	0.75	3/4-14	3/4-14	1.93
1110-12-16	0.75	1.00	3/4-14	1-11 1/2	2.18
1110-12-20	0.75	1.25	3/4-14	1 1/4-11 1/2	2.27
1110-16-08	1.00	0.50	1-11 1/2	1/2-14	2.06
1110-16-12	1.00	0.75	1-11 1/2	3/4-14	2.12
1110-16-16	1.00	1.00	1-11 1/2	1-11 1/2	2.37
1110-16-20	1.00	1.25	1-11 1/2	1 1/4-11 1/2	2.46
1110-16-24	1.00	1.50	1-11 1/2	1 1/2-11 1/2	2.47
1110-20-16	1.25	1.00	1 1/4-11 1/2	1-11 1/2	2.52
1110-20-20	1.25	1.25	1 1/4-11 1/2	1 1/4-11 1/2	2.49
1110-20-24	1.25	1.50	1 1/4-11 1/2	1 1/2-11 1/2	2.50
1110-20-32	1.25	2.00	1 1/4-11 1/2	2-11 1/2	2.59
1110-24-20	1.50	1.25	1 1/2-11 1/2	1 1/4-11 1/2	2.20
1110-24-24	1.50	1.50	1 1/2-11 1/2	1 1/2-11 1/2	2.53
1110-24-32	1.50	2.00	1 1/2-11 1/2	2-11 1/2	2.62
1110-32-32	2.00	2.00	2-11 1/2	2-11 1/2	2.62

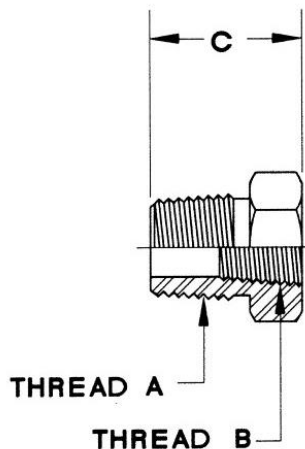


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## 1120 SERIES



## PIPE-PIPE REDUCER

(140140)

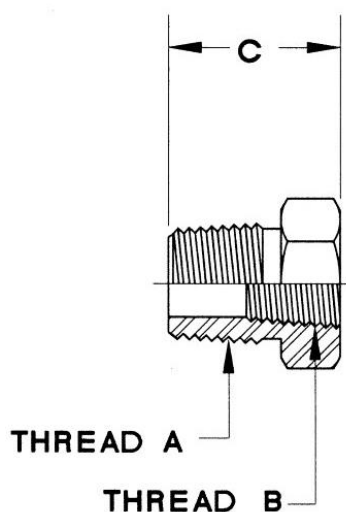
PART NO.	O.D.	THREAD A	THREAD B	DIM C
1120-04-02	0.25	1/4-18	1/8-27	0.85
1120-06-02	0.38	3/8-18	1/8-27	0.85
1120-06-04	0.38	3/8-18	1/4-18	0.85
1120-08-02	0.50	1/2-14	1/8-27	1.10
1120-08-04	0.50	1/2-14	1/4-18	1.10
1120-08-06	0.50	1/2-14	3/8-18	1.10
1120-12-02	0.75	3/4-14	1/8-27	1.17
1120-12-04	0.75	3/4-14	1/4-18	1.17
1120-12-06	0.75	3/4-14	3/8-18	1.17
1120-12-08	0.75	3/4-14	1/2-14	1.17
1120-16-02	1.00	1-11 1/2	1/8-27	1.35
1120-16-04	1.00	1-11 1/2	1/4-18	1.35
1120-16-06	1.00	1-11 1/2	3/8-18	1.35
1120-16-08	1.00	1-11 1/2	1/2-14	1.35
1120-16-12	1.00	1-11 1/2	3/4-14	1.35
1120-20-04	1.25	1 1/4-11 1/2	1/4-18	1.47
1120-20-06	1.25	1 1/4-11 1/2	3/8-18	1.47
1120-20-08	1.25	1 1/4-11 1/2	1/2-14	1.47
1120-20-12	1.25	1 1/4-11 1/2	3/4-14	1.47
1120-20-16	1.25	1 1/4-11 1/2	1-11 1/2	1.47
1120-24-06	1.50	1 1/2-11 1/2	3/8-18	1.57
1120-24-08	1.50	1 1/2-11 1/2	1/2-14	1.57
1120-24-12	1.50	1 1/2-11 1/2	3/4-14	1.57
1120-24-16	1.50	1 1/2-11 1/2	1-11 1/2	1.57
1120-24-20	1.50	1 1/2-11 1/2	1 1/4-11 1/2	1.57
1120-32-08	2.00	2-11 1/2	1/2-14	1.75
1120-32-12	2.00	2-11 1/2	3/4-14	1.75
1120-32-16	2.00	2-11 1/2	1-11 1/2	1.75
1120-32-20	2.00	2-11 1/2	1 1/4-11 1/2	1.75
1120-32-24	2.00	2-11 1/2	1 1/2-11 1/2	1.75

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## **1120C SERIES**

### **COMPACT REDUCER BUSHING (130140)**

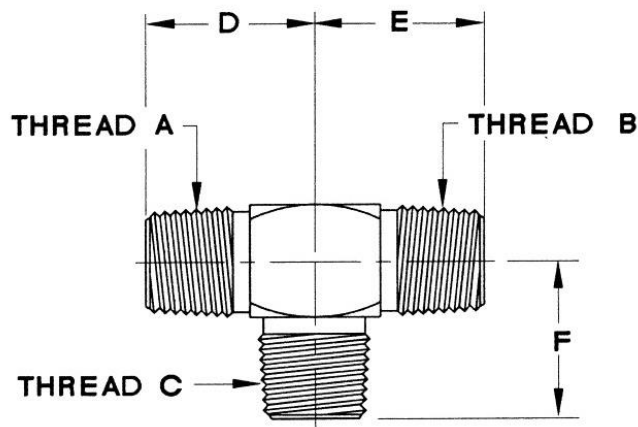
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>
1120C-04-02	0.25	1/4-18	1/8-27	0.75
1120C-06-02	0.38	3/8-18	1/8-27	0.75
1120C-06-04	0.38	3/8-18	1/4-18	0.75
1120C-08-02	0.50	1/2-14	1/8-27	1.00
1120C-08-04	0.50	1/2-14	1/4-18	1.00
1120C-08-06	0.50	1/2-14	3/8-18	1.00
1120C-12-02	0.75	3/4-14	1/8-27	1.00
1120C-12-04	0.75	3/4-14	1/4-18	1.00
1120C-12-06	0.75	3/4-14	3/8-18	1.00
1120C-12-08	0.75	3/4-14	1/2-14	1.00
1120C-16-02	1.00	1-11 1/2	1/8-27	1.31
1120C-16-04	1.00	1-11 1/2	1/4-18	1.31
1120C-16-06	1.00	1-11 1/2	3/8-18	1.31
1120C-16-08	1.00	1-11 1/2	1/2-14	1.31
1120C-16-12	1.00	1-11 1/2	3/4-14	1.31

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## **1130 SERIES**



### **MALE PIPE TEE (NON STANDARD)**

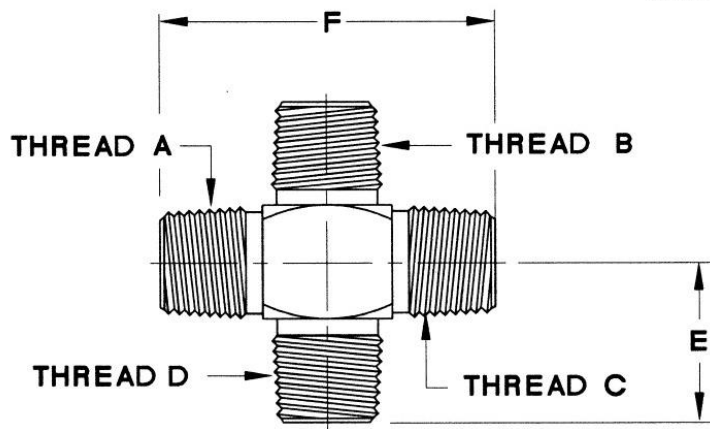
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
1130-02-02-02	1/8-27	1/8-27	1/8-27	0.78	0.78	0.78
1130-04-04-04	1/4-18	1/4-18	1/4-18	1.09	1.09	1.09
1130-06-06-06	3/8-18	3/8-18	3/8-18	1.22	1.22	1.22
1130-08-08-08	1/2-14	1/2-14	1/2-14	1.47	1.47	1.47
1130-12-12-12	3/4-14	3/4-14	3/4-14	1.59	1.59	1.59
1130-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.97	1.97	1.97
1130-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.38	2.38	2.38
1130-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.64	2.64	2.64
1130-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	3.00	3.00	3.00

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## **1140 SERIES**



### **MALE PIPE CROSS (NON STANDARD)**

PART NO.	THREAD A	THREAD B	THREAD C	THREAD D	DIM E	DIM F
1140-02-02-02-02	1/8-27	1/8-27	1/8-27	1/8-27	0.78	1.56
1140-04-04-04-04	1/4-18	1/4-18	1/4-18	1/4-18	1.09	2.18
1140-06-06-06-06	3/8-18	3/8-18	3/8-18	3/8-18	1.22	2.44
1140-08-08-08-08	1/2-14	1/2-14	1/2-14	1/2-14	1.47	2.94
1140-12-12-12-12	3/4-14	3/4-14	3/4-14	3/4-14	1.59	3.18
1140-16-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.97	3.80
1140-20-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.38	4.76
1140-24-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.64	5.28
1140-32-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2-11 1/2	3.00	6.00

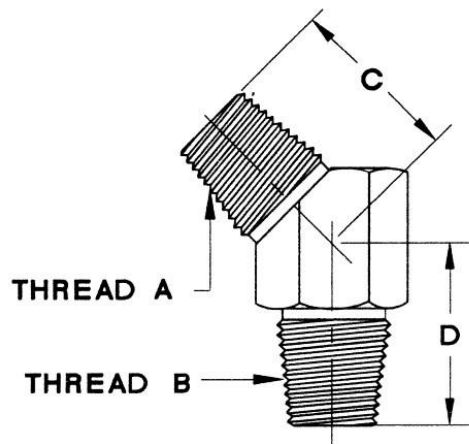
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## **1145 SERIES**



### **45 DEGREE MALE PIPE ELBOW (NON STANDARD)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1145-02-02	0.13	1/8-27	1/8-27	0.64	0.74
1145-04-04	0.25	1/4-18	1/4-18	0.86	1.06
1145-06-06	0.38	3/8-18	3/8-18	0.95	1.00
1145-08-08	0.50	1/2-14	1/2-14	1.08	1.30
1145-12-12	0.75	3/4-14	3/4-14	1.20	1.34
1145-16-16	1.00	1-11 1/2	1-11 1/2	1.48	1.71
1145-20-20	1.25	1 1/4-11 1/2	1 1/4-11 1/2	1.67	1.81
1145-24-24	1.50	1 1/2-11 1/2	1 1/2-11 1/2	1.77	2.30

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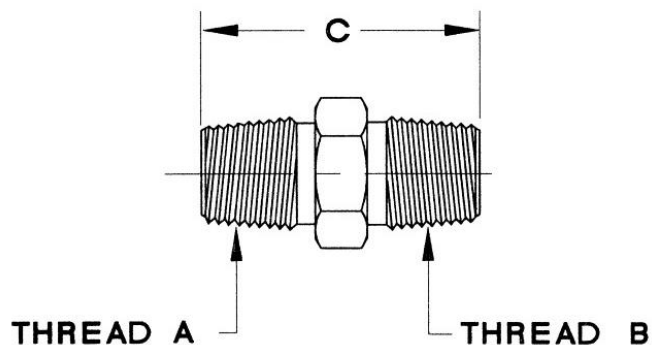
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## HEXAGON PIPE NIPPLE (140137)

### 1150 SERIES

PART NO.	THREAD A	THREAD B	DIM C
1150-02-02	1/8-27	1/8-27	1.06
1150-04-02	1/4-18	1/8-27	1.25
1150-04-04	1/4-18	1/4-18	1.45
1150-06-02	3/8-18	1/8-27	1.45
1150-06-04	3/8-18	1/4-18	1.45
1150-06-06	3/8-18	3/8-18	1.45
1150-08-04	1/2-14	1/4-18	1.70
1150-08-06	1/2-14	3/8-18	1.70
1150-08-08	1/2-14	1/2-14	1.89
1150-12-04	3/4-14	1/4-18	1.78
1150-12-06	3/4-14	3/8-18	1.77
1150-12-08	3/4-14	1/2-14	1.96
1150-12-12	3/4-14	3/4-14	1.96
1150-16-04	1-11 1/2	1/4-18	1.96
1150-16-06	1-11 1/2	3/8-18	1.97
1150-16-08	1-11 1/2	1/2-14	2.15
1150-16-12	1-11 1/2	3/4-14	2.09
1150-16-16	1-11 1/2	1-11 1/2	2.34
1150-20-12	1 1/4-11 1/2	3/4-14	2.41
1150-20-16	1 1/4-11 1/2	1-11 1/2	2.45
1150-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2.48
1150-24-12	1 1/2-11 1/2	3/4-14	2.38
1150-24-16	1 1/2-11 1/2	1-11 1/2	2.56
1150-24-20	1 1/2-11 1/2	1 1/4-11 1/2	2.59
1150-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.61
1150-32-16	2-11 1/2	1-11 1/2	2.71
1150-32-20	2-11 1/2	1 1/4-11 1/2	2.76
1150-32-24	2-11 1/2	1 1/2-11 1/2	2.76
1150-32-32	2-11 1/2	2-11 1/2	2.83

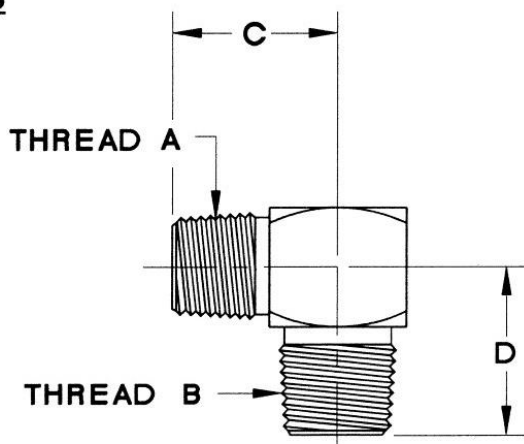
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## **1190 SERIES**



### **90 DEGREE MALE PIPE ELBOW (NON STANDARD)**

<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1190-02-02	1/8-27	1/8-27	0.78	0.78
1190-04-02	1/4-18	1/8-27	1.09	0.83
1190-04-04	1/4-18	1/4-18	1.09	1.09
1190-06-04	3/8-18	1/4-18	1.21	1.18
1190-06-06	3/8-18	3/8-18	1.22	1.22
1190-08-04	1/2-14	1/4-18	1.47	1.25
1190-08-06	1/2-14	3/8-18	1.46	1.28
1190-08-08	1/2-14	1/2-14	1.47	1.47
1190-12-08	3/4-14	1/2-14	1.59	1.56
1190-12-12	3/4-14	3/4-14	1.59	1.59
1190-16-12	1-11 1/2	3/4-14	1.95	1.68
1190-16-16	1-11 1/2	1-11 1/2	1.97	1.97
1190-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2.38	2.38
1190-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.64	2.64
1190-32-32	2-11 1/2	2-11 1/2	3.00	3.00

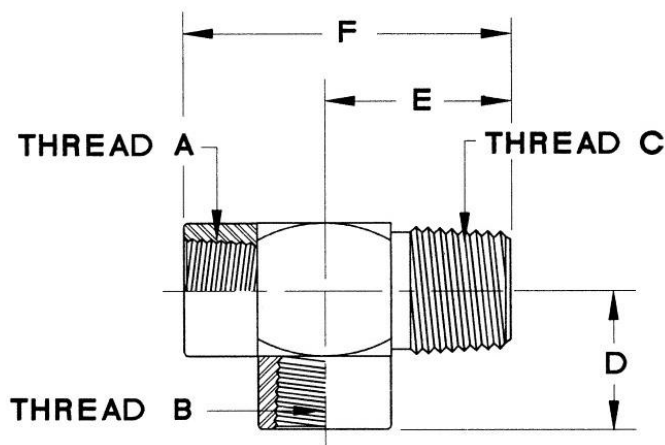
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## **1220 SERIES**



## **PIPE RUN TEE**

(140424)

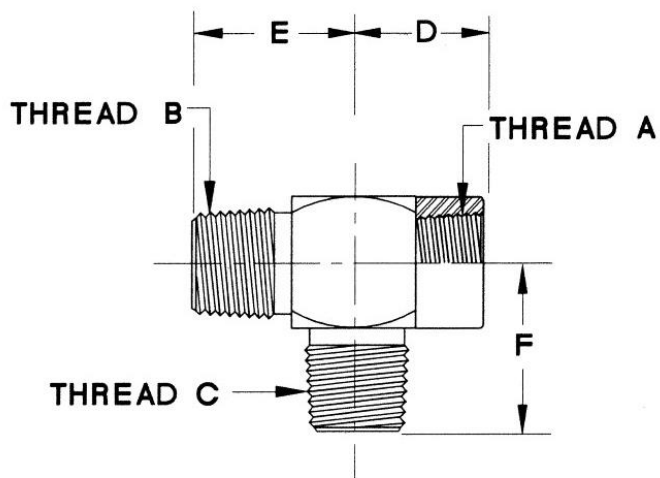
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
1220-02-02-02	1/8-27	1/8-27	1/8-27	0.66	0.78	1.44
1220-04-02-04	1/4-18	1/8-27	1/4-18	0.72	1.09	1.97
1220-04-04-02	1/4-18	1/4-18	1/8-27	0.88	0.88	1.76
1220-04-04-04	1/4-18	1/4-18	1/4-18	0.88	1.09	1.97
1220-06-06-06	3/8-18	3/8-18	3/8-18	1.02	1.22	2.24
1220-08-08-08	1/2-14	1/2-14	1/2-14	1.23	1.47	2.70
1220-08-12-08	1/2-14	3/4-14	1/2-14	1.36	1.67	3.03
1220-12-08-12	3/4-14	1/2-14	3/4-14	1.36	1.59	2.95
1220-12-12-12	3/4-14	3/4-14	3/4-14	1.36	1.59	2.95
1220-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.62	1.97	3.59
1220-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.38	4.08
1220-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.64	4.72
1220-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2.39	3.00	5.39

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## **1221 SERIES**



### **MALE PIPE-FEMALE PIPE RUN TEE (NON STANDARD)**

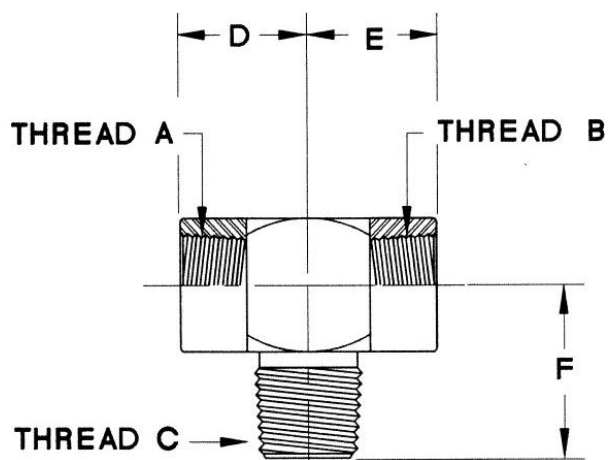
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
1221-02-02-02	1/8-27	1/8-27	1/8-27	0.66	0.78	0.78
1221-04-04-04	1/4-18	1/4-18	1/4-18	0.88	1.09	1.09
1221-06-06-06	3/8-18	3/8-18	3/8-18	1.02	1.22	1.22
1221-08-08-08	1/2-14	1/2-14	1/2-14	1.23	1.47	1.47
1221-12-12-12	3/4-14	3/4-14	3/4-14	1.36	1.59	1.59
1221-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.62	1.97	1.97

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## **1230 SERIES**



### **PIPE BRANCH TEE (140425)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
1230-02-02-02	0.13	1/8-27	1/8-27	1/8-27	0.66	0.66	0.78
1230-04-04-04	0.25	1/4-18	1/4-18	1/4-18	0.88	0.88	1.09
1230-06-06-06	0.38	3/8-18	3/8-18	3/8-18	1.02	1.02	1.22
1230-08-08-08	0.50	1/2-14	1/2-14	1/2-14	1.23	1.23	1.47
1230-12-12-08	0.75	3/4-14	3/4-14	1/2-14	1.37	1.37	1.59
1230-12-12-12	0.75	3/4-14	3/4-14	3/4-14	1.36	1.36	1.59
1230-16-16-16	1.00	1-11 1/2	1-11 1/2	1-11 1/2	1.63	1.63	1.97
1230-20-20-20	1.25	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.70	2.38
1230-24-24-24	1.50	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.08	2.64

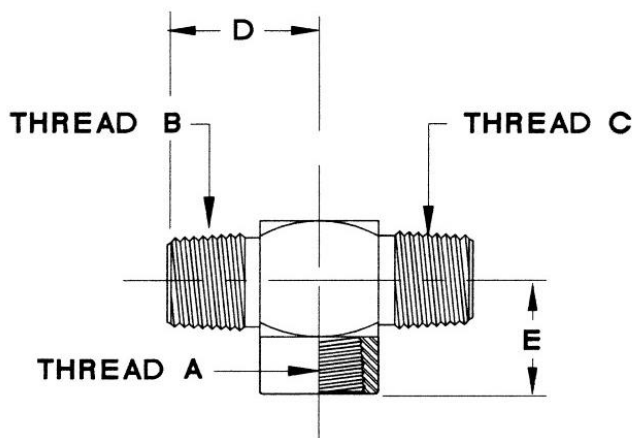
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## **1231 SERIES**



### **MALE PIPE-FEMALE PIPE BRANCH TEE (NON STANDARD)**

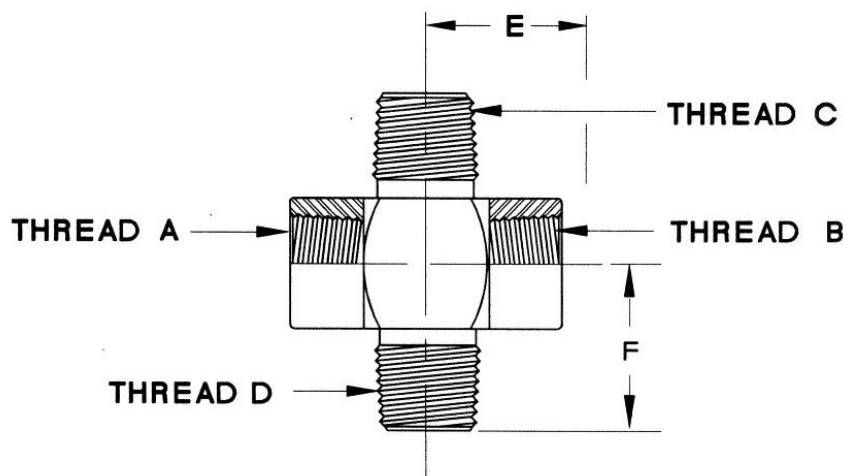
<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
1231-02-02-02	1/8-27	1/8-27	1/8-27	0.78	0.66
1231-04-04-04	1/4-18	1/4-18	1/4-18	1.09	0.88
1231-06-06-06	3/8-18	3/8-18	3/8-18	1.22	1.02
1231-08-08-08	1/2-14	1/2-14	1/2-14	1.47	1.23
1231-12-12-12	3/4-14	3/4-14	3/4-14	1.59	1.36
1231-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.97	1.62

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## **1240 SERIES**



### **MALE PIPE-FEMALE PIPE CROSS (NON STANDARD)**

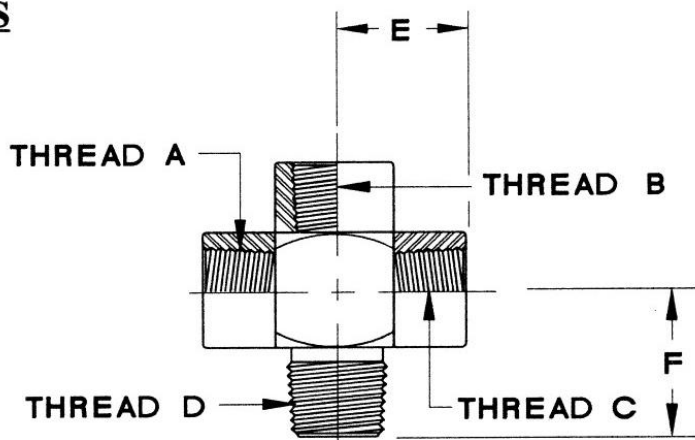
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>THREAD D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
1240-04-04-04-04	1/4-18	1/4-18	1/4-18	1/4-18	0.88	1.09
1240-06-06-06-06	3/8-18	3/8-18	3/8-18	3/8-18	1.02	1.22
1240-08-08-08-08	1/2-14	1/2-14	1/2-14	1/2-14	1.23	1.47
1240-12-12-12-12	3/4-14	3/4-14	3/4-14	3/4-14	1.36	1.59
1240-16-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.62	1.97
1240-20-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.38

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## **1241 SERIES**



### **MALE PIPE-FEMALE PIPE CROSS (NON STANDARD)**

<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>THREAD D</b>	<b>DIM E</b>	<b>DIM F</b>
1241-04-04-04-04	1/4-18	1/4-18	1/4-18	1/4-18	0.88	1.09
1241-06-06-06-06	3/8-18	3/8-18	3/8-18	3/8-18	1.02	1.22
1241-08-08-08-08	1/2-14	1/2-14	1/2-14	1/2-14	1.23	1.47
1241-12-12-12-12	3/4-14	3/4-14	3/4-14	3/4-14	1.36	1.59

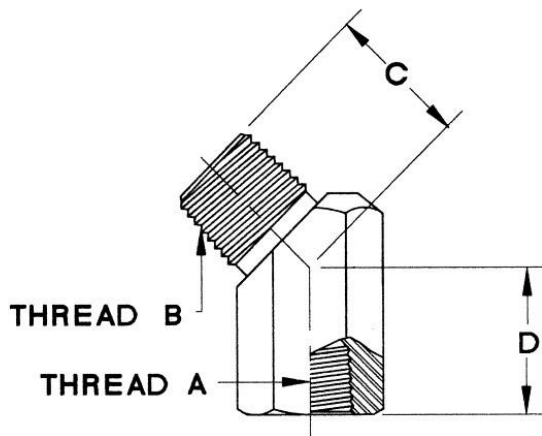
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## **1245 SERIES**



### **45 DEGREE STREET ELBOW (140339)**

<b>PART NO.</b>	<b>PORT SIZE</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1245-02-02	0.13	1/8-27	1/8-27	0.72	0.47
1245-04-04	0.25	1/4-18	1/4-18	1.05	0.63
1245-06-06	0.38	3/8-18	3/8-18	1.06	0.72
1245-08-08	0.50	1/2-14	1/2-14	1.34	0.91
1245-12-12	0.75	3/4-14	3/4-14	1.38	0.97
1245-16-16	1.00	1-11 1/2	1-11 1/2	1.72	1.13
1245-20-20	1.25	1 1/4-11 1/2	1 1/4-11 1/2	1.80	1.63
1245-24-24	1.50	1 1/2-11 1/2	1 1/2-11 1/2	2.06	1.69

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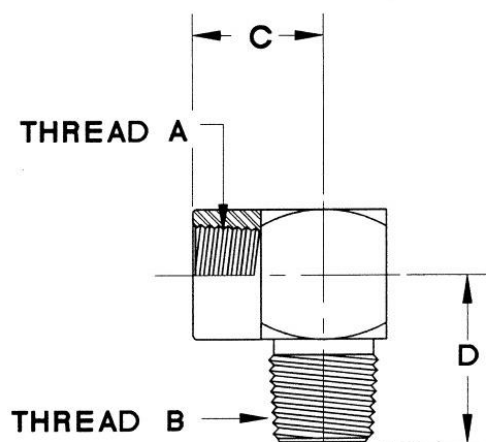


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## 1290 SERIES

## 90 DEGREE STREET ELBOW

(140239)



PART NO.	THREAD A	THREAD B	DIM C	DIM D
1290-02-02	1/8-27	1/8-27	0.66	0.78
1290-02-04	1/8-27	1/4-18	0.67	1.09
1290-04-02	1/4-18	1/8-27	0.88	0.91
1290-04-04	1/4-18	1/4-18	0.88	1.09
1290-04-06	1/4-18	3/8-18	0.91	1.22
1290-04-08	1/4-18	1/2-14	0.92	1.47
1290-06-04	3/8-18	1/4-18	1.02	1.22
1290-06-06	3/8-18	3/8-18	1.02	1.22
1290-06-08	3/8-18	1/2-14	1.02	1.47
1290-06-12	3/8-18	3/4-14	1.12	1.59
1290-08-04	1/2-14	1/4-18	1.23	1.26
1290-08-06	1/2-14	3/8-18	1.23	1.38
1290-08-08	1/2-14	1/2-14	1.23	1.47
1290-08-12	1/2-14	3/4-14	1.23	1.59
1290-12-08	3/4-14	1/2-14	1.23	1.59
1290-12-12	3/4-14	3/4-14	1.36	1.59
1290-12-16	3/4-14	1-11 1/2	1.37	1.84
1290-16-12	1-11 1/2	3/4-14	1.63	1.71
1290-16-16	1-11 1/2	1-11 1/2	1.63	1.97
1290-16-20	1-11 1/2	1 1/4-11 1/2	1.68	2.38
1290-20-16	1 1/4-11 1/2	1-11 1/2	1.70	2.16
1290-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.38
1290-24-20	1 1/2-11 1/2	1 1/4-11 1/2	2.00	2.50
1290-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.64
1290-32-32	2-11 1/2	2-11 1/2	2.39	3.00

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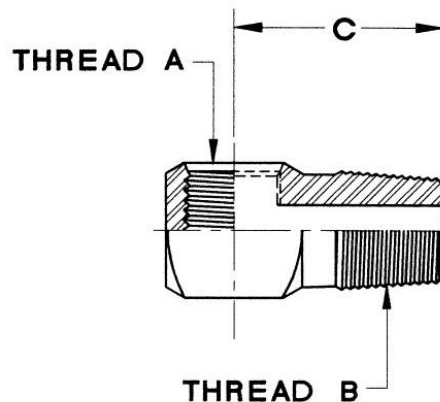
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## 90 DEGREE DOT ELBOW (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C
1290C-02-02	1/8-27	1/8-27	0.75
1290C-04-04	1/4-18	1/4-18	0.95
1290C-06-06	3/8-18	3/8-18	1.06
1290C-08-08	1/2-14	1/2-14	1.36

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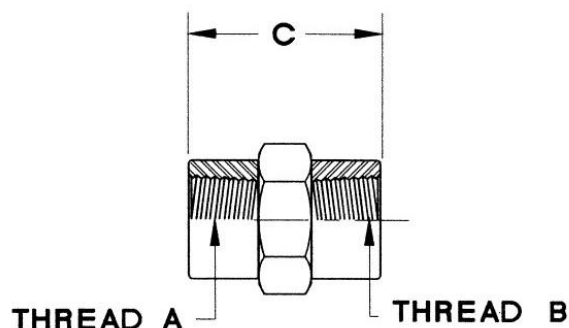
## 1290C SERIES



## HEXAGON PIPE COUPLER (140138)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
1300-02-02	0.12	1/8-27	1/8-27	0.75
1300-04-02	0.25	1/4-18	1/8-27	1.13
1300-04-04	0.25	1/4-18	1/4-18	1.12
1300-06-02	0.37	3/8-18	1/8-27	1.13
1300-06-04	0.37	3/8-18	1/4-18	1.13
1300-06-06	0.37	3/8-18	3/8-18	1.12
1300-08-02	0.50	1/2-14	1/8-27	1.50
1300-08-04	0.50	1/2-14	1/4-18	1.50
1300-08-06	0.50	1/2-14	3/8-18	1.50
1300-08-08	0.50	1/2-14	1/2-14	1.50
1300-12-06	0.75	3/4-14	3/8-18	1.53
1300-12-08	0.75	3/4-14	1/2-14	1.53
1300-12-12	0.75	3/4-14	3/4-14	1.53
1300-16-08	1.00	1-11 1/2	1/2-14	1.89
1300-16-12	1.00	1-11 1/2	3/4-14	1.89
1300-16-16	1.00	1-11 1/2	1-11 1/2	1.89
1300-20-16	1.25	1 1/4-11 1/2	1-11 1/2	1.93
1300-20-20	1.25	1 1/4-11 1/2	1 1/4-11 1/2	1.93
1300-24-20	1.50	1 1/2-11 1/2	1 1/4-11 1/2	1.93
1300-24-24	1.50	1 1/2-11 1/2	1 1/2-11 1/2	1.93
1300-32-32	2.00	2-11 1/2	2-11 1/2	1.96

## 1300 SERIES

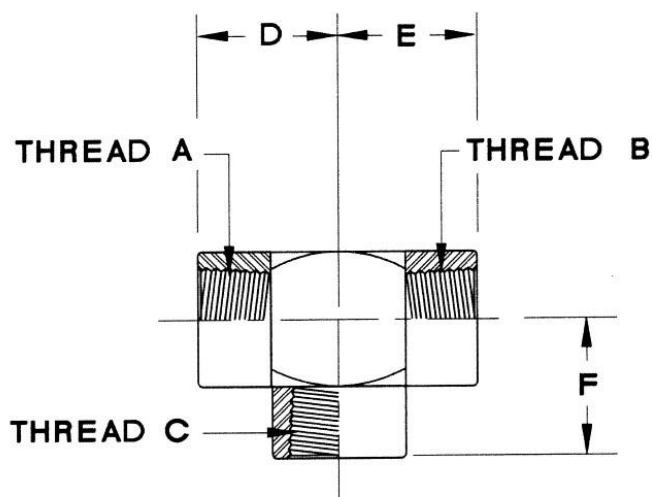






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## **1330 SERIES**



### **FEMALE PIPE TEE**

(140438)

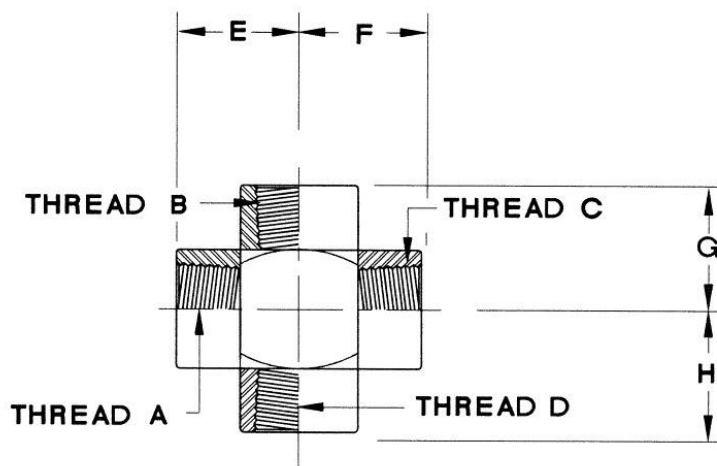
<u>PART NO.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>THREAD C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
1330-02-02-02	1/8-27	1/8-27	1/8-27	0.66	0.66	0.66
1330-04-04-04	1/4-18	1/4-18	1/4-18	0.88	0.88	0.88
1330-06-06-06	3/8-18	3/8-18	3/8-18	1.02	1.02	1.02
1330-06-06-08	3/8-18	3/8-18	1/2-14	1.14	1.14	1.23
1330-08-08-08	1/2-14	1/2-14	1/2-14	1.23	1.23	1.23
1330-12-12-12	3/4-14	3/4-14	3/4-14	1.36	1.36	1.36
1330-16-16-12	1-11 1/2	1-11 1/2	3/4-14	1.63	1.63	1.50
1330-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.63	1.63	1.63
1330-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.70	1.70
1330-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.08	2.08
1330-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2.39	2.39	2.39

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## 1340 SERIES



### FEMALE PIPE CROSS (NON STANDARD)

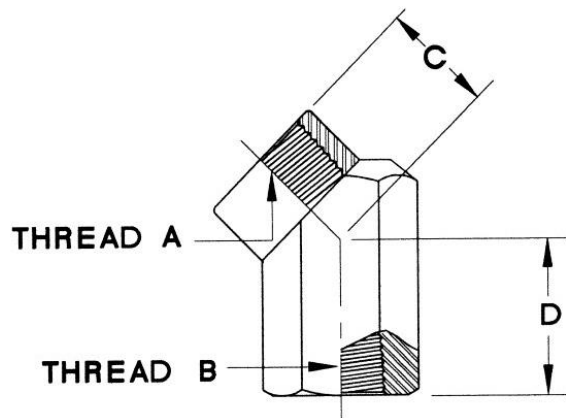
PART NO.	O.D.	THREAD A	THREAD B	THREAD C	THREAD D	DIM E	DIM F	DIM G	DIM H
1340-02-02-02-02	0.13	1/8-27	1/8-27	1/8-27	1/8-27	0.66	0.66	0.66	0.66
1340-04-04-04-04	0.25	1/4-18	1/4-18	1/4-18	1/4-18	0.88	0.88	0.88	0.88
1340-06-06-06-06	0.38	3/8-18	3/8-18	3/8-18	3/8-18	1.02	1.02	1.02	1.02
1340-08-08-08-08	0.50	1/2-14	1/2-14	1/2-14	1/2-14	1.23	1.23	1.23	1.23
1340-12-12-12-12	0.75	3/4-14	3/4-14	3/4-14	3/4-14	1.36	1.36	1.36	1.36
1340-16-16-16-16	1.00	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.63	1.63	1.63	1.63
1340-20-20-20-20	1.25	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.70	1.70	1.70
1340-24-24-24-24	1.50	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.08	2.08	2.08
1340-32-32-32-32	2.00	2-11 1/2	2-11 1/2	2-11 1/2	2-11 1/2	2.39	2.39	2.39	2.39

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### 1345 SERIES

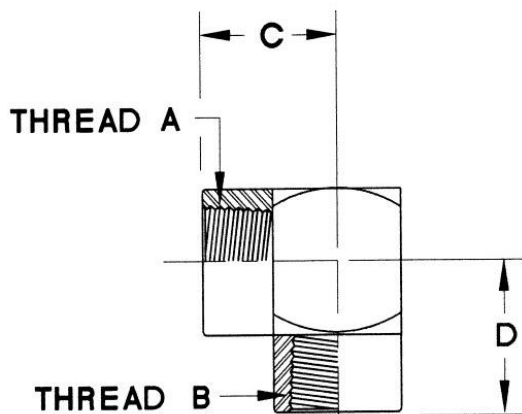


### **45 DEGREE FEMALE ELBOW (140338)**

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1345-02-02	1/8-27	1/8-27	0.51	0.51
1345-04-04	1/4-18	1/4-18	0.66	0.66
1345-06-06	3/8-18	3/8-18	0.75	0.75
1345-08-08	1/2-14	1/2-14	0.92	0.92
1345-12-12	3/4-14	3/4-14	0.97	0.97
1345-16-16	1-11 1/2	1-11 1/2	1.16	1.16

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### 1390 SERIES



### **90 DEGREE FEMALE PIPE ELBOW (140238)**

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1390-02-02	1/8-27	1/8-27	0.66	0.66
1390-04-02	1/4-18	1/8-27	0.88	0.72
1390-04-04	1/4-18	1/4-18	0.88	0.88
1390-06-04	3/8-18	1/4-18	1.02	0.93
1390-06-06	3/8-18	3/8-18	1.02	1.02
1390-08-04	1/2-14	1/4-18	1.23	1.09
1390-08-06	1/2-14	3/8-18	1.23	1.14
1390-08-08	1/2-14	1/2-14	1.23	1.23
1390-12-08	3/4-14	1/2-14	1.36	1.36
1390-12-12	3/4-14	3/4-14	1.36	1.36
1390-16-12	1-11 1/2	3/4-14	1.63	1.48
1390-16-16	1-11 1/2	1-11 1/2	1.63	1.63
1390-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.70
1390-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.08
1390-32-32	2-11 1/2	2-11 1/2	2.39	2.39

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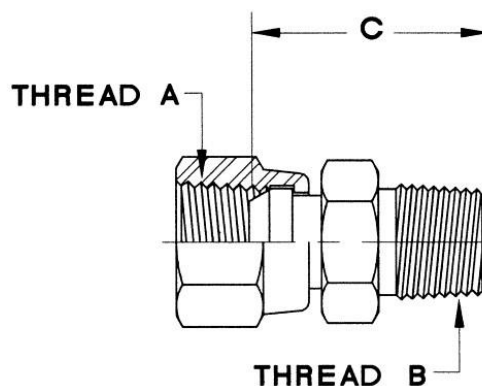
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## STRAIGHT ADAPTER UNION (140130)

PART NO.	THREAD A	THREAD B	DIM C
1400-02-02	1/8-27	1/8-27	0.88
1400-02-04	1/8-27	1/4-18	1.19
1400-04-02	1/4-18	1/8-27	1.09
1400-04-04	1/4-18	1/4-18	1.26
1400-04-06	1/4-18	3/8-18	1.33
1400-04-08	1/4-18	1/2-14	1.58
1400-06-04	3/8-18	1/4-18	1.35
1400-06-06	3/8-18	3/8-18	1.35
1400-06-08	3/8-18	1/2-14	1.57
1400-08-04	1/2-14	1/4-18	1.53
1400-08-06	1/2-14	3/8-18	1.39
1400-08-08	1/2-14	1/2-14	1.63
1400-08-12	1/2-14	3/4-14	1.66
1400-12-06	3/4-14	3/8-18	1.56
1400-12-08	3/4-14	1/2-14	1.67
1400-12-12	3/4-14	3/4-14	1.68
1400-12-16	3/4-14	1-11 1/2	1.92
1400-12-20	3/4-14	1 1/4-11 1/2	1.84
1400-16-06	1-11 1/2	3/8-18	1.81
1400-16-08	1-11 1/2	1/2-14	1.83
1400-16-12	1-11 1/2	3/4-14	1.80
1400-16-16	1-11 1/2	1-11 1/2	2.00
1400-16-20	1-11 1/2	1 1/4-11 1/2	2.05
1400-20-16	1 1/4-11 1/2	1-11 1/2	2.11
1400-20-20	1 1/4-11 1/2	1 1/4-11 1/2	2.07
1400-20-24	1 1/4-11 1/2	1 1/2-11 1/2	2.18
1400-24-20	1 1/2-11 1/2	1 1/4-11 1/2	2.11
1400-24-24	1 1/2-11 1/2	1 1/2-11 1/2	2.25
1400-32-32	2-11 1/2	2-11 1/2	2.43

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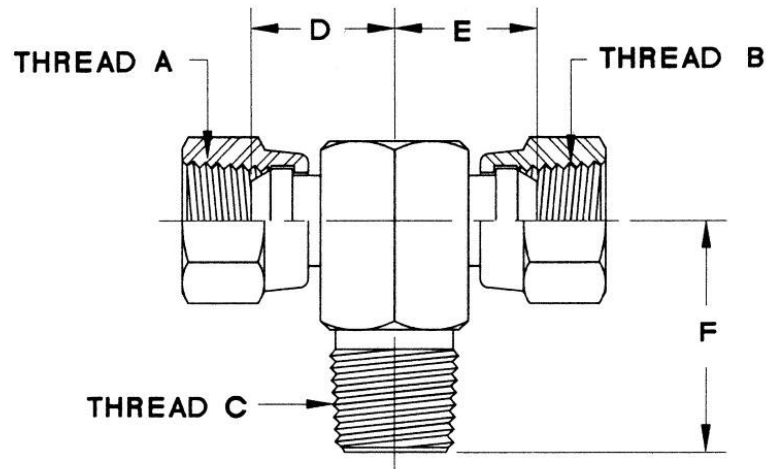
## 1400 SERIES





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## **1430 SERIES**



### **TEE ADAPTER UNION (NON STANDARD)**

PART NO.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
1430-02-02-02	1/8-27	1/8-27	1/8-27	0.68	0.68	0.94
1430-04-04-02	1/4-18	1/4-18	1/8-27	0.75	0.75	1.06
1430-04-04-04	1/4-18	1/4-18	1/4-18	0.78	0.78	1.25
1430-04-04-06	1/4-18	1/4-18	3/8-18	0.87	0.87	1.19
1430-04-04-08	1/4-18	1/4-18	1/2-14	0.87	0.87	1.21
1430-06-06-04	3/8-18	3/8-18	1/4-18	0.86	0.86	1.50
1430-06-06-06	3/8-18	3/8-18	3/8-18	0.92	0.92	1.50
1430-06-06-08	3/8-18	3/8-18	1/2-14	0.92	0.92	1.69
1430-08-08-08	1/2-14	1/2-14	1/2-14	1.00	1.00	1.87
1430-08-08-12	1/2-14	1/2-14	3/4-14	1.05	1.05	1.75
1430-12-12-12	3/4-14	3/4-14	3/4-14	1.14	1.14	2.00
1430-12-12-16	3/4-14	3/4-14	1-11 1/2	1.27	1.27	2.44
1430-16-16-12	1-11 1/2	1-11 1/2	3/4-14	1.44	1.44	2.31
1430-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.31	1.31	2.44
1430-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.50	1.50	2.56
1430-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.75	1.75	2.81
1430-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2.31	2.31	3.30

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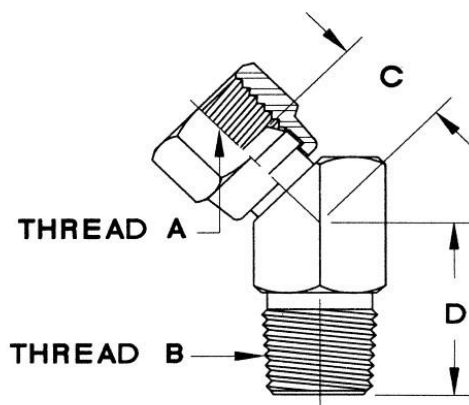
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## 45 DEGREE ADAPTER UNION (140330)

## 1445 SERIES

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1445-02-02	1/8-27	1/8-27	0.62	0.64
1445-02-04	1/8-27	1/4-18	0.68	0.86
1445-04-02	1/4-18	1/8-27	0.68	0.65
1445-04-04	1/4-18	1/4-18	0.82	0.86
1445-04-06	1/4-18	3/8-18	0.82	0.95
1445-04-08	1/4-18	1/2-14	0.82	1.17
1445-06-04	3/8-18	1/4-18	0.82	0.95
1445-06-06	3/8-18	3/8-18	0.82	1.06
1445-06-08	3/8-18	1/2-14	0.82	1.17
1445-06-12	3/8-18	3/4-14	0.90	1.20
1445-08-04	1/2-14	1/4-18	0.80	0.95
1445-08-06	1/2-14	3/8-18	0.88	1.38
1445-08-08	1/2-14	1/2-14	0.88	1.31
1445-08-12	1/2-14	3/4-14	0.95	1.20
1445-12-08	3/4-14	1/2-14	1.00	1.31
1445-12-12	3/4-14	3/4-14	1.00	1.56
1445-12-16	3/4-14	1-11 1/2	1.12	1.48
1445-16-12	1-11 1/2	3/4-14	1.15	1.29
1445-16-16	1-11 1/2	1-11 1/2	1.29	1.56
1445-16-20	1-11 1/2	1 1/4-11 1/2	1.35	1.67
1445-20-16	1 1/4-11 1/2	1-11 1/2	1.16	1.75
1445-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.25	1.87
1445-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.44	2.03
1445-32-32	2-11 1/2	2-11 1/2	1.56	2.11

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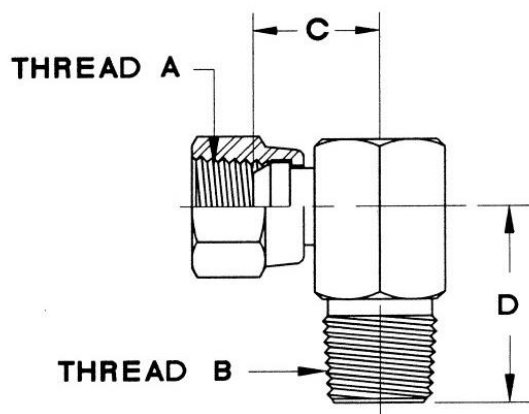






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## 1490 SERIES



## 90 DEGREE ADAPTER UNION (140230)

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1490-02-02	1/8-27	1/8-27	0.68	0.94
1490-02-04	1/8-27	1/4-18	0.70	1.25
1490-04-02	1/4-18	1/8-27	0.75	1.06
1490-04-04	1/4-18	1/4-18	0.78	1.25
1490-04-06	1/4-18	3/8-18	0.87	1.19
1490-04-08	1/4-18	1/2-14	0.89	1.21
1490-04-12	1/4-18	3/4-14	0.97	1.30
1490-06-04	3/8-18	1/4-18	0.86	1.50
1490-06-06	3/8-18	3/8-18	0.92	1.50
1490-06-08	3/8-18	1/2-14	0.92	1.69
1490-06-12	3/8-18	3/4-14	0.97	1.30
1490-08-04	1/2-14	1/4-18	1.00	1.62
1490-08-06	1/2-14	3/8-18	0.92	1.50
1490-08-08	1/2-14	1/2-14	1.00	1.87
1490-08-12	1/2-14	3/4-14	1.05	1.75
1490-08-16	1/2-14	1-11 1/2	1.19	1.75
1490-12-06	3/4-14	3/8-18	1.12	1.75
1490-12-08	3/4-14	1/2-14	1.14	2.00
1490-12-12	3/4-14	3/4-14	1.14	2.06
1490-12-16	3/4-14	1-11 1/2	1.27	2.31
1490-12-20	3/4-14	1 1/4-11 1/2	1.44	1.90
1490-16-08	1-11 1/2	1/2-14	1.44	1.90
1490-16-12	1-11 1/2	3/4-14	1.44	1.95
1490-16-16	1-11 1/2	1-11 1/2	1.31	1.95
1490-16-20	1-11 1/2	1 1/4-11 1/2	1.50	2.56
1490-20-12	1 1/4-11 1/2	3/4-14	1.50	2.37
1490-20-16	1 1/4-11 1/2	1-11 1/2	1.50	2.56
1490-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.50	2.56
1490-20-24	1 1/4-11 1/2	1 1/2-11 1/2	1.88	2.81
1490-24-20	1 1/2-11 1/2	1 1/4-11 1/2	1.72	2.81
1490-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.80	2.81
1490-32-32	2-11 1/2	2-11 1/2	2.31	3.30

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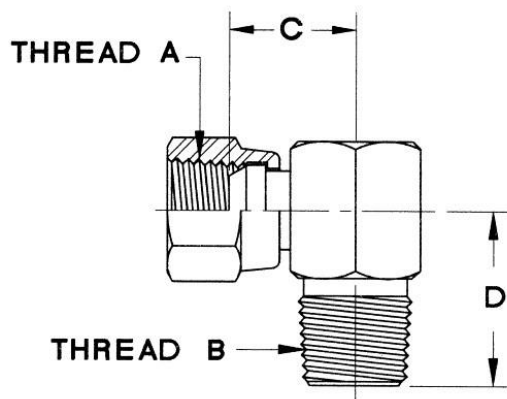
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## 90 DEGREE ADAPTER UNION COMPACT (NON STANDARD)

### 1490C SERIES

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1490C-02-02	1/8-27	1/8-27	0.68	0.72
1490C-04-04	1/4-18	1/4-18	0.78	1.09
1490C-06-06	3/8-18	3/8-18	0.92	1.22
1490C-08-08	1/2-14	1/2-14	1.00	1.47
1490C-12-12	3/4-14	3/4-14	1.14	1.59
1490C-16-16	1-11 1/2	1-11 1/2	1.31	1.97
1490C-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.50	2.38
1490C-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.75	2.64
1490C-32-32	2-11 1/2	2-11 1/2	2.31	2.70

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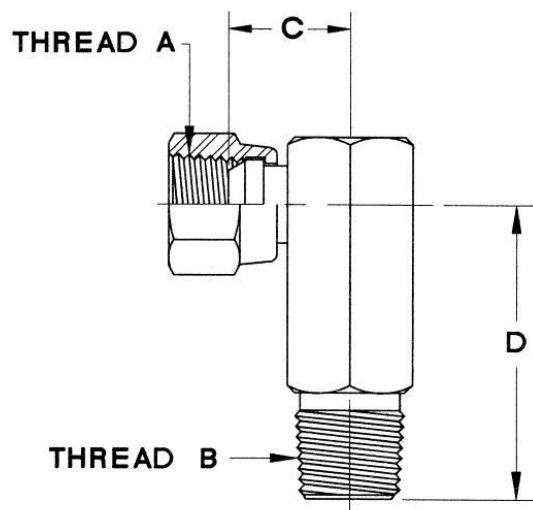


## 90 DEGREE ADAPTER UNION LONG (NON STANDARD)

### 1490L SERIES

PART NO.	THREAD A	THREAD B	DIM C	DIM D
1490L-02-02	1/8-27	1/8-27	0.68	1.64
1490L-04-04	1/4-18	1/4-18	0.78	2.25
1490L-06-06	3/8-18	3/8-18	0.92	2.76
1490L-08-08	1/2-14	1/2-14	1.00	3.19
1490L-12-12	3/4-14	3/4-14	1.14	3.66

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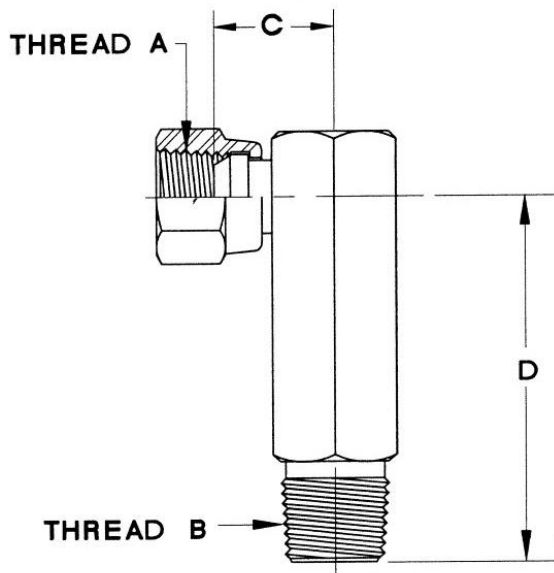




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## 90 DEGREE ADAPTER UNION EXTRA LONG (NON STANDARD)

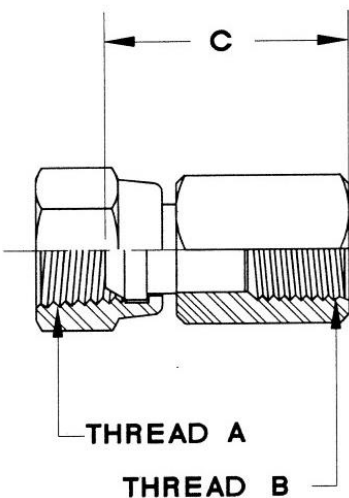
### 1490XL SERIES



PART NO.	THREAD A	THREAD B	DIM C	DIM D
1490XL-02-02	1/8-27	1/8-27	0.68	1.64
1490XL-04-04	1/4-18	1/4-18	0.78	2.25
1490XL-06-06	3/8-18	3/8-18	0.82	2.76
1490XL-08-08	1/2-14	1/2-14	1.00	3.50
1490XL-12-12	3/4-14	3/4-14	1.14	3.66
1490XL-16-16	1-11 1/2	1-11 1/2	1.31	4.31

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### 1500 SERIES



## FEMALE ADAPTER UNION (140131)

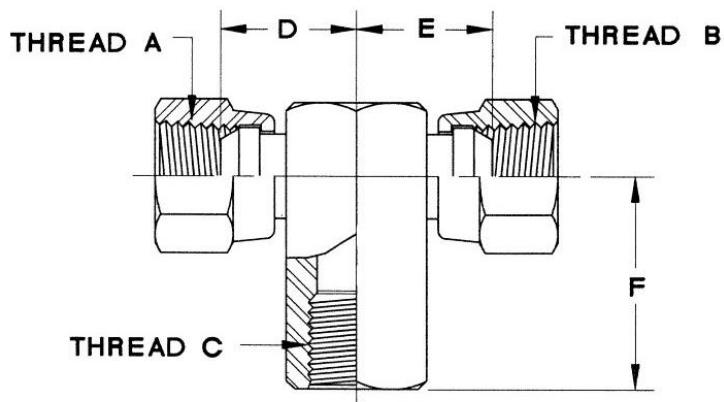
PART NO.	THREAD A	THREAD B	DIM C
1500-02-02	1/8-27	1/8-27	0.75
1500-02-04	1/8-27	1/4-18	1.17
1500-04-02	1/4-18	1/8-27	1.11
1500-04-04	1/4-18	1/4-18	1.19
1500-04-06	1/4-18	3/8-18	1.23
1500-04-08	1/4-18	1/2-14	1.50
1500-06-04	3/8-18	1/4-18	1.22
1500-06-06	3/8-18	3/8-18	1.22
1500-06-08	3/8-18	1/2-14	1.47
1500-08-04	1/2-14	1/4-18	1.41
1500-08-06	1/2-14	3/8-18	1.41
1500-08-08	1/2-14	1/2-14	1.41
1500-08-12	1/2-14	3/4-14	1.50
1500-12-08	3/4-14	1/2-14	1.50
1500-12-12	3/4-14	3/4-14	1.56
1500-12-16	3/4-14	1-11 1/2	1.91
1500-16-12	1-11 1/2	3/4-14	1.92
1500-16-16	1-11 1/2	1-11 1/2	1.92
1500-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.92
1500-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.92
1500-32-32	2-11 1/2	2-11 1/2	2.16





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## **1530 SERIES**



### **TEE ADAPTER UNION (NON STANDARD)**

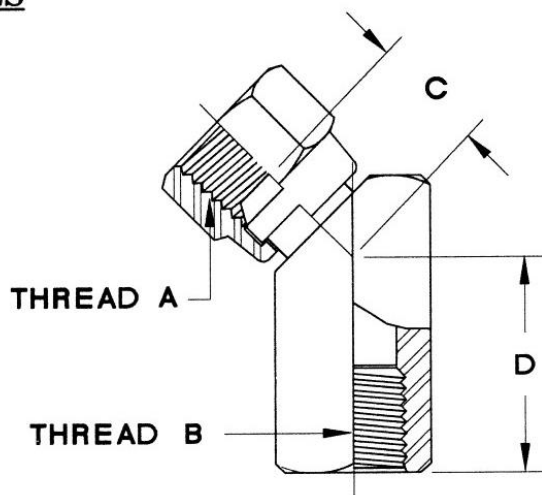
<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1530-02-02-02	1/8-27	1/8-27	1/8-27	0.65	0.65	0.68
1530-04-04-04	1/4-18	1/4-18	1/4-18	0.78	0.78	0.94
1530-04-04-06	1/4-18	1/4-18	3/8-18	0.87	0.87	1.06
1530-06-06-06	3/8-18	3/8-18	3/8-18	0.92	0.92	1.06
1530-06-06-08	3/8-18	3/8-18	1/2-14	0.99	0.99	1.25
1530-08-08-08	1/2-14	1/2-14	1/2-14	1.00	1.00	1.25
1530-08-08-12	1/2-14	1/2-14	3/4-14	1.12	1.12	1.43
1530-12-12-08	3/4-14	3/4-14	1/2-14	1.19	1.19	1.43
1530-12-12-12	3/4-14	3/4-14	3/4-14	1.19	1.19	1.43
1530-12-12-16	3/4-14	3/4-14	1-11 1/2	1.27	1.27	1.75
1530-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.31	1.31	1.75
1530-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.62	1.62	2.00
1530-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.75	1.75	2.25
1530-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2.31	2.31	2.50

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## **1545 SERIES**



### **45 DEGREE ADAPTER UNION (140331)**

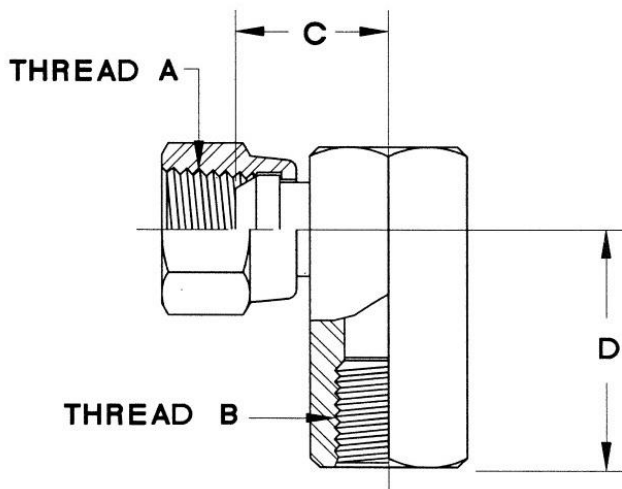
<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1545-02-02	1/8-27	1/8-27	0.62	0.73
1545-04-02	1/4-18	1/8-27	0.68	0.90
1545-04-04	1/4-18	1/4-18	0.68	0.90
1545-04-06	1/4-18	3/8-18	0.82	1.06
1545-06-04	3/8-18	1/4-18	0.82	1.00
1545-06-06	3/8-18	3/8-18	0.82	1.06
1545-06-08	3/8-18	1/2-14	0.82	1.18
1545-08-06	1/2-14	3/8-18	0.88	1.18
1545-08-08	1/2-14	1/2-14	0.88	1.18
1545-12-12	3/4-14	3/4-14	1.13	1.25
1545-12-16	3/4-14	1-11 1/2	1.25	1.56
1545-16-16	1-11 1/2	1-11 1/2	1.29	1.56
1545-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.32	1.78
1545-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.25	1.96
1545-32-32	2-11 1/2	2-11 1/2	1.50	2.00

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## **1590 SERIES**



### **90 DEGREE ADAPTER UNION (140231)**

<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1590-02-02	1/8-27	1/8-27	0.65	0.68
1590-02-04	1/8-27	1/4-18	0.75	0.94
1590-04-02	1/4-18	1/8-27	0.78	0.94
1590-04-04	1/4-18	1/4-18	0.78	0.94
1590-04-06	1/4-18	3/8-18	0.87	1.06
1590-04-08	1/4-18	1/2-14	0.93	1.25
1590-06-04	3/8-18	1/4-18	0.92	1.06
1590-06-06	3/8-18	3/8-18	0.92	1.06
1590-06-08	3/8-18	1/2-14	0.99	1.25
1590-08-06	1/2-14	3/8-18	1.00	1.25
1590-08-08	1/2-14	1/2-14	1.00	1.25
1590-08-12	1/2-14	3/4-14	1.12	1.43
1590-12-08	3/4-14	1/2-14	1.19	1.43
1590-12-12	3/4-14	3/4-14	1.19	1.43
1590-12-16	3/4-14	1-11 1/2	1.27	1.75
1590-16-12	1-11 1/2	3/4-14	1.31	1.75
1590-16-16	1-11 1/2	1-11 1/2	1.31	1.75
1590-16-20	1-11 1/2	1 1/4-11 1/2	1.55	2.00
1590-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.62	2.00
1590-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1.75	2.25
1590-32-32	2-11 1/2	2-11 1/2	2.31	2.50

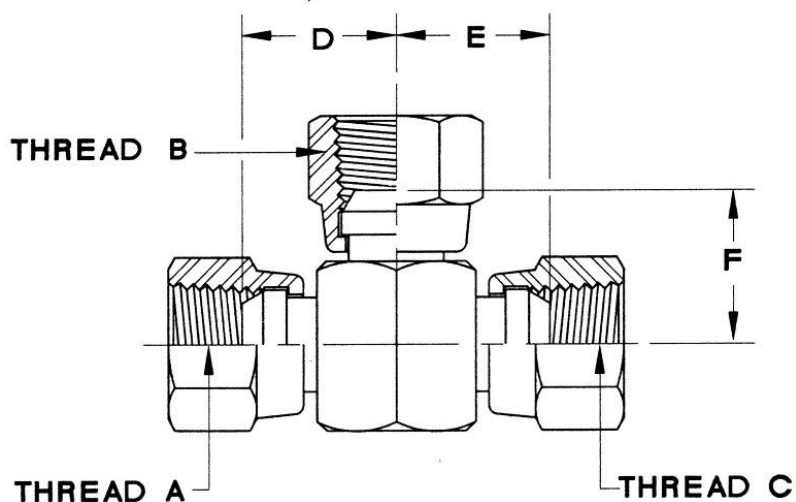
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## **1630 SERIES**



**ADAPTER UNION TEE  
(NON STANDARD)**

<b>PART NO.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1630-02-02-02	1/8-27	1/8-27	1/8-27	0.70	0.70	0.70
1630-04-04-04	1/4-18	1/4-18	1/4-18	0.78	0.78	0.78
1630-06-06-06	3/8-18	3/8-18	3/8-18	0.94	0.94	0.94
1630-08-08-08	1/2-14	1/2-14	1/2-14	1.00	1.00	1.00
1630-12-12-12	3/4-14	3/4-14	3/4-14	1.19	1.19	1.19
1630-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1.44	1.44	1.44
1630-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.65	1.65	1.65

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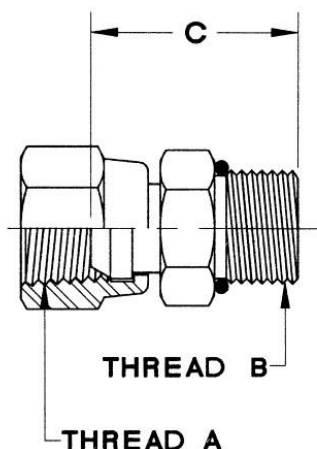
## STRAIGHT THREAD UNION ADAPTER

(140157)

## 1700 SERIES

PART NO.	O.D.	THREAD A	THREAD B	DIM C
1700-02-04	0.13	1/8-27	7/16-20	0.96
1700-04-04	0.25	1/4-18	7/16-20	1.10
1700-04-05	0.25	1/4-18	1/2-20	1.12
1700-04-06	0.25	1/4-18	9/16-18	1.13
1700-04-08	0.25	1/4-18	3/4-16	1.23
1700-06-04	0.38	3/8-18	7/16-20	1.12
1700-06-06	0.38	3/8-18	9/16-18	1.12
1700-06-08	0.38	3/8-18	3/4-16	1.26
1700-06-10	0.38	3/8-18	7/8-14	1.35
1700-06-12	0.38	3/8-18	1 1/16-12	1.53
1700-08-04	0.50	1/2-14	7/16-20	1.21
1700-08-05	0.50	1/2-14	1/2-20	1.21
1700-08-06	0.50	1/2-14	9/16-18	1.32
1700-08-08	0.50	1/2-14	3/4-16	1.19
1700-08-10	0.50	1/2-14	7/8-14	1.35
1700-08-12	0.50	1/2-14	1 1/16-12	1.43
1700-08-16	0.50	1/2-14	1 5/16-12	1.61
1700-12-08	0.75	3/4-14	3/4-16	1.40
1700-12-10	0.75	3/4-14	7/8-14	1.43
1700-12-12	0.75	3/4-14	1 1/16-12	1.58
1700-12-14	0.75	3/4-14	1 3/16-12	1.68
1700-12-16	0.75	3/4-14	1 5/16-12	1.71
1700-12-20	0.75	3/4-14	1 5/8-12	1.78
1700-16-12	1.00	1-11 1/2	1 1/16-12	1.63
1700-16-14	1.00	1-11 1/2	1 3/16-12	1.73
1700-16-16	1.00	1-11 1/2	1 5/16-12	1.76
1700-16-20	1.00	1-11 1/2	1 5/8-12	1.82
1700-20-16	1.25	1 1/4-11 1/2	1 5/16-12	1.81
1700-20-20	1.25	1 1/4-11 1/2	1 5/8-12	1.68
1700-20-24	1.25	1 1/4-11 1/2	1 7/8-12	1.72
1700-24-24	1.50	1 1/2-11 1/2	1 7/8-12	1.72
1700-32-32	2.00	2-11 1/2	2 1/2-12	2.22

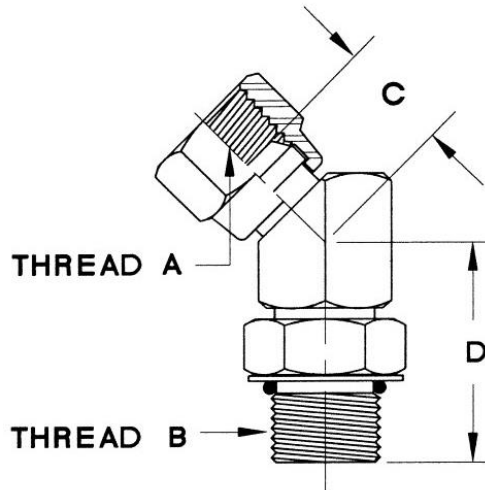
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## **1745 SERIES**



### **STRAIGHT THREAD 45 DEGREE UNION ADAPTER (070321)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
1745-04-04	0.25	1/4-18	7/16-20	0.65	1.06
1745-04-06	0.25	1/4-18	9/16-18	0.65	1.06
1745-04-08	0.25	1/4-18	3/4-16	0.81	1.12
1745-06-04	0.38	3/8-18	7/16-20	0.78	1.06
1745-06-06	0.38	3/8-18	9/16-18	0.70	1.06
1745-06-08	0.38	3/8-18	3/4-16	0.87	1.12
1745-06-10	0.38	3/8-18	7/8-14	0.93	1.50
1745-06-12	0.38	3/8-18	1 1/16-12	1.02	1.50
1745-08-06	0.50	1/2-14	9/16-18	0.81	1.06
1745-08-08	0.50	1/2-14	3/4-16	0.81	1.12
1745-08-10	0.50	1/2-14	7/8-14	0.78	1.50
1745-08-12	0.50	1/2-14	1 1/16-12	0.95	1.50
1745-12-08	0.75	3/4-14	3/4-16	1.08	1.22
1745-12-10	0.75	3/4-14	7/8-14	1.05	1.35
1745-12-12	0.75	3/4-14	1 1/16-12	1.04	1.50
1745-12-16	0.75	3/4-14	1 5/16-12	1.05	1.62
1745-16-12	1.00	1-11 1/2	1 1/16-12	1.05	1.68
1745-16-16	1.00	1-11 1/2	1 5/16-12	1.06	1.62
1745-16-20	1.00	1-11 1/2	1 5/8-12	1.45	1.84
1745-20-20	1.25	1 1/4-11 1/2	1 5/8-12	1.17	2.28
1745-24-24	1.50	1 1/2-11 1/2	1 7/8-12	1.34	2.60

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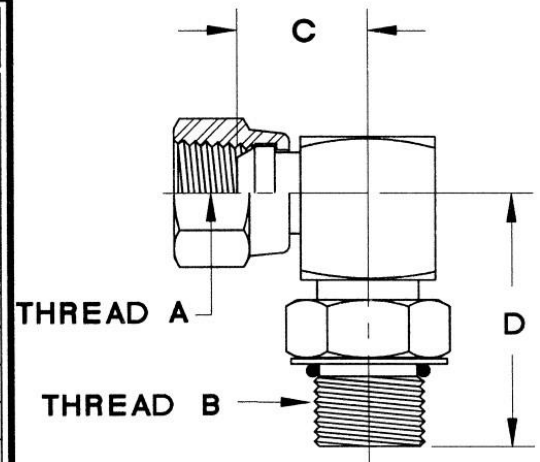


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**STRAIGHT THREAD 90 DEGREE  
 UNION ADAPTER  
 (140251)**

**1790 SERIES**

PART NO.	O.D.	THREAD A	THREAD B	DIM C	DIM D
1790-02-04	0.13	1/8-27	7/16-20	0.73	1.11
1790-04-04	0.25	1/4-18	7/16-20	0.78	1.10
1790-04-05	0.25	1/4-18	1/2-20	0.79	1.13
1790-04-06	0.25	1/4-18	9/16-18	0.78	1.18
1790-04-08	0.25	1/4-18	3/4-16	0.91	1.48
1790-04-10	0.25	1/4-18	7/8-14	0.92	1.64
1790-06-04	0.38	3/8-18	7/16-20	0.93	1.25
1790-06-06	0.38	3/8-18	9/16-18	0.93	1.29
1790-06-08	0.38	3/8-18	3/4-16	1.00	1.51
1790-06-10	0.38	3/8-18	7/8-14	1.00	1.64
1790-06-12	0.38	3/8-18	1 1/16-12	1.12	1.92
1790-08-04	0.50	1/2-14	7/16-20	1.01	1.28
1790-08-06	0.50	1/2-14	9/16-18	1.00	1.48
1790-08-08	0.50	1/2-14	3/4-16	1.00	1.51
1790-08-10	0.50	1/2-14	7/8-14	1.00	1.64
1790-08-12	0.50	1/2-14	1 1/16-12	1.12	1.92
1790-12-08	0.75	3/4-14	3/4-16	1.25	1.65
1790-12-10	0.75	3/4-14	7/8-14	1.25	1.78
1790-12-12	0.75	3/4-14	1 1/16-12	1.25	1.92
1790-12-14	0.75	3/4-14	1 3/16-12	1.25	1.92
1790-12-16	0.75	3/4-14	1 5/16-12	1.00	2.09
1790-12-20	0.75	3/4-14	1 5/8-12	2.00	2.48
1790-16-12	1.00	1-11 1/2	1 1/16-12	1.25	2.00
1790-16-14	1.00	1-11 1/2	1 3/16-12	1.24	2.09
1790-16-16	1.00	1-11 1/2	1 5/16-12	1.39	2.09
1790-16-20	1.00	1-11 1/2	1 5/8-12	1.87	2.48
1790-20-16	1.25	1 1/4-11 1/2	1 5/16-12	1.61	2.35
1790-20-20	1.25	1 1/4-11 1/2	1 5/8-12	1.65	2.48
1790-24-24	1.50	1 1/2-11 1/2	1 7/8-12	1.73	2.60
1790-32-32	2.00	2-11 1/2	2 1/2-12	2.31	3.25

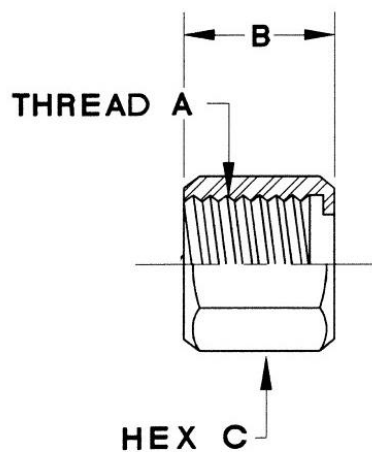


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## 1801 SERIES

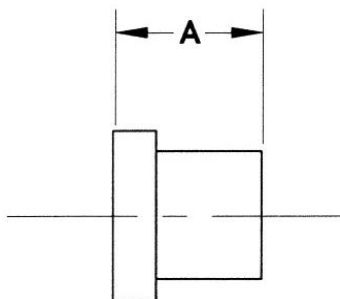


## **TUBE NUT** (070110)

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>	<b>HEX C</b>
1801-02	0.13	5/16-24	0.55	3/8
1801-03	0.19	3/8-24	0.61	7/16
1801-04	0.25	7/16-20	0.20	9/16
1801-05	0.31	1/2-20	0.68	5/8
1801-06	0.38	9/16-18	0.73	11/16
1801-08	0.50	3/4-16	0.85	7/8
1801-10	0.63	7/8-14	0.98	1
1801-12	0.75	1 1/16-12	1.03	1 1/4
1801-14	0.88	1 3/16-12	1.09	1 3/8
1801-16	1.00	1 5/16-12	1.13	1 1/2
1801-20	1.25	1 5/8-12	1.23	2
1801-24	1.50	1 7/8-12	1.42	2 1/4
1801-32	2.00	2 1/2-12	1.75	2 7/8

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## 1802 SERIES



## **TUBE SLEEVE** (070115)

<b>PART NO.</b>	<b>O.D.</b>	<b>DIM A</b>
1802-02	0.13	0.34
1802-03	0.19	0.34
1802-04	0.25	0.41
1802-05	0.31	0.44
1802-06	0.38	0.50
1802-08	0.50	0.56
1802-10	0.63	0.66
1802-12	0.75	0.68
1802-14	0.88	0.76
1802-16	1.00	0.78
1802-20	1.25	0.91
1802-24	1.50	1.12
1802-32	2.00	1.19

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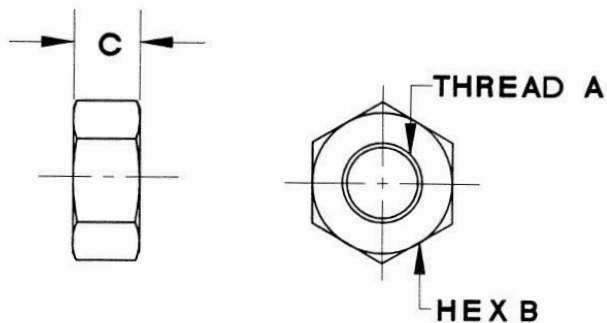
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## ADJUSTABLE LOCKNUT (070117)

PART NO.	O.D.	THREAD A	HEX B	DIM C
1804-03	0.19	3/8-24	1/2	0.22
1804-04	0.25	7/16-20	9/16	0.28
1804-05	0.31	1/2-20	5/8	0.28
1804-06	0.38	9/16-18	11/16	0.27
1804-08	0.50	3/4-16	7/8	0.31
1804-10	0.63	7/8-14	1	0.36
1804-12	0.75	1 1/16-12	1 1/4	0.41
1804-14	0.88	1 3/16-12	1 3/8	0.41
1804-16	1.00	1 5/16-12	1 1/2	0.41
1804-20	1.25	1 5/8-12	1 7/8	0.41
1804-24	1.50	1 7/8-12	2 1/8	0.41
1804-32	2.00	2 1/2-12	2 3/4	0.41

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## 1804 SERIES

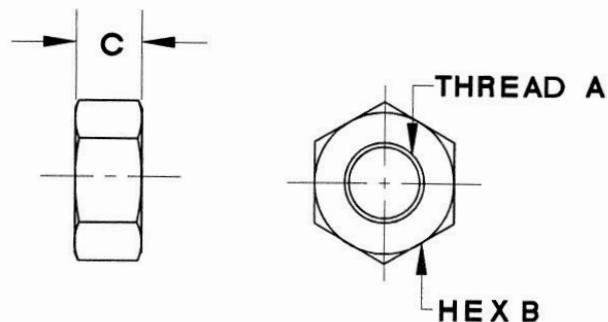


## BULKHEAD LOCKNUT (070118)

PART NO.	O.D.	THREAD A	HEX B	DIM C
1805-04	0.25	7/16-20	11/16	0.28
1805-05	0.31	1/2-20	3/4	0.28
1805-06	0.38	9/16-18	13/16	0.27
1805-08	0.50	3/4-16	1	0.31
1805-10	0.63	7/8-14	1 1/8	0.36
1805-12	0.75	1 1/16-12	1 3/8	0.41
1805-14	0.88	1 3/16-12	1 1/2	0.41
1805-16	1.00	1 5/16-12	1 5/8	0.41
1805-20	1.25	1 5/8-12	1 7/8	0.41
1805-24	1.50	1 7/8-12	2 1/8	0.41
1805-32	2.00	2 1/2-12	2 3/4	0.41

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## 1805 SERIES

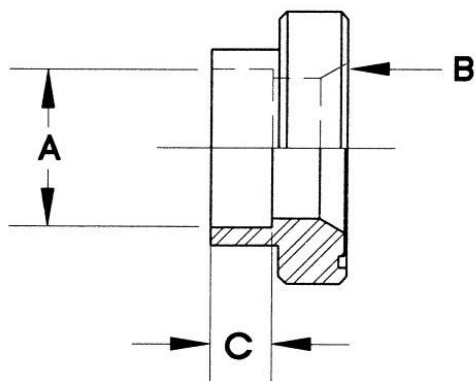






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## **1806 SERIES**



### **FLANGE (J518 CODE 61)**

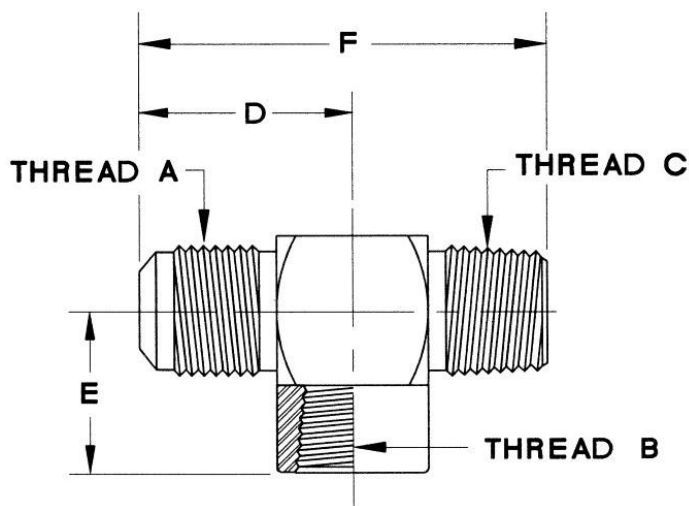
<b>PART NO.</b>	<b>DIM A</b>	<b>FLANGE B</b>	<b>DIM C</b>
1806-06-08	0.38	0.50	0.31
1806-08-08	0.50	0.50	0.31
1806-10-08	0.63	0.50	0.31
1806-10-12	0.63	0.75	0.38
1806-10-16	0.63	1.00	0.31
1806-12-12	0.75	0.75	0.38
1806-12-16	0.75	1.00	0.38
1806-12-20	0.75	1.25	0.31
1806-14-16	0.88	1.00	0.38
1806-16-12	1.00	0.75	0.38
1806-16-16	1.00	1.00	0.38
1806-16-20	1.00	1.25	0.38
1806-16-24	1.00	1.50	0.38
1806-16-32	1.00	2.00	0.34
1806-20-16	1.25	1.00	0.38
1806-20-20	1.25	1.25	0.38
1806-20-24	1.25	1.50	0.38
1806-20-32	1.25	2.00	0.34
1806-24-20	1.50	1.25	0.38
1806-24-24	1.50	1.50	0.44
1806-24-32	1.50	2.00	0.38
1806-32-32	2.00	2.00	0.50

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## **1920 SERIES**



### **PIPE BRANCH TEE (NON STANDARD)**

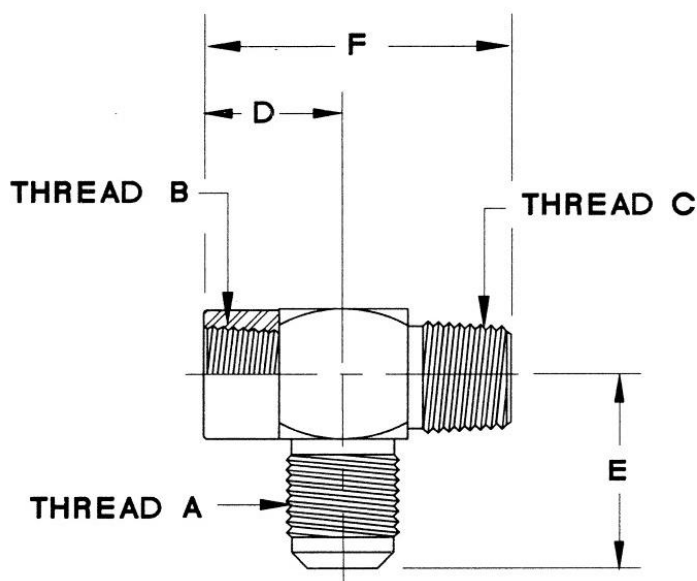
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
1920-04-02-02	0.25	7/16-20	1/8-27	1/8-27	1.07	0.65	1.44
1920-06-04-04	0.38	9/16-18	1/4-18	1/4-18	1.23	0.87	2.32
1920-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.42	1.01	2.64
1920-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.64	1.23	3.11
1920-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.89	1.35	3.48
1920-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	2.17	1.62	4.14
1920-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.32	1.70	4.70

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## **1921 SERIES**



### **FLARE-PIPE RUN TEE (NON STANDARD)**

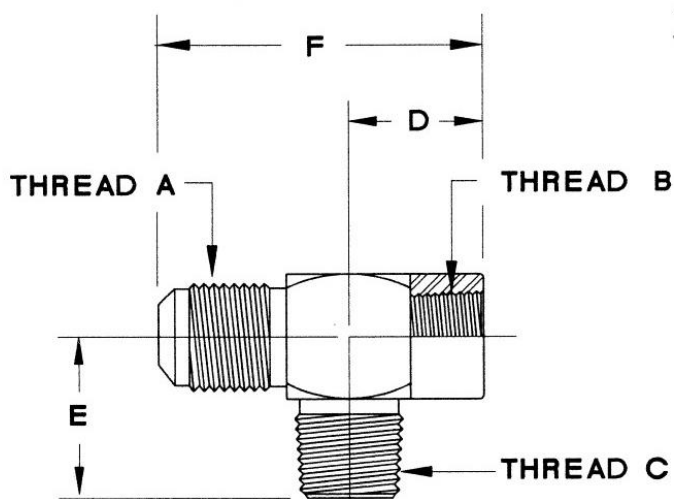
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1921-04-02-02	0.25	7/16-20	1/8-27	1/8-27	0.66	1.07	1.44
1921-06-04-04	0.38	9/16-18	1/4-18	1/4-18	0.88	1.23	1.97
1921-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.02	1.42	2.24
1921-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.23	1.64	2.70
1921-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.36	1.89	2.95
1921-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	1.62	2.17	3.59
1921-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.32	4.08

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## **1923 SERIES**

### **MALE PIPE-FEMALE PIPE RUN TEE (NON STANDARD)**

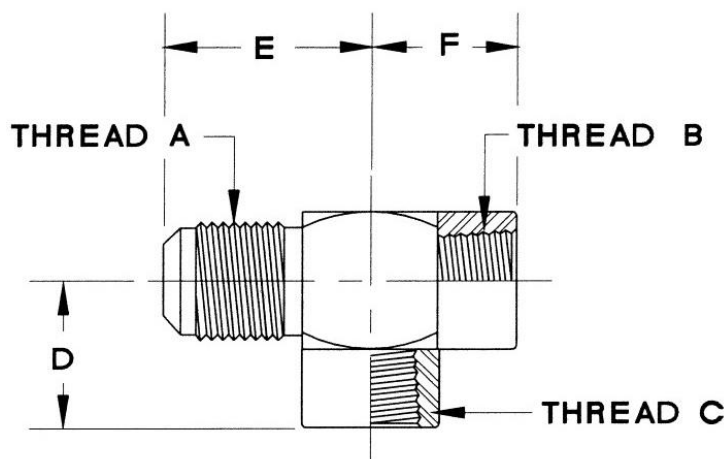
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1923-04-02-02	0.25	7/16-20	1/8-27	1/8-27	0.66	0.78	1.74
1923-06-04-04	0.38	9/16-18	1/4-18	1/4-18	0.88	1.09	2.11
1923-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.02	1.22	2.44
1923-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.23	1.47	2.87
1923-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.36	1.59	3.25
1923-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	1.62	1.97	3.79
1923-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	1.70	2.38	4.03

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## **1924 SERIES**



### **MALE FLARE-FEMALE PIPE RUN TEE (NON STANDARD)**

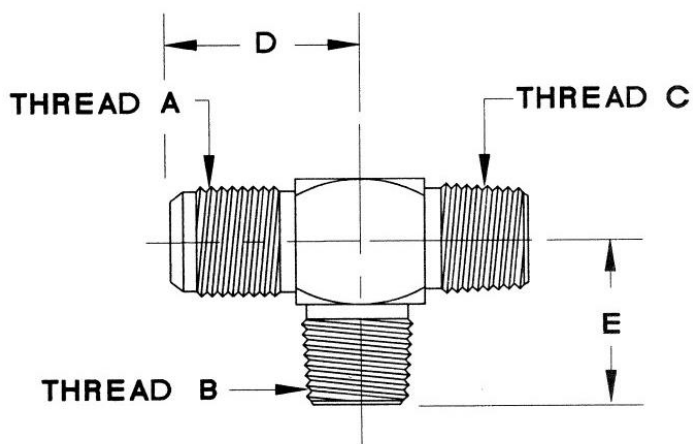
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
1924-06-04-04	0.38	9/16-18	1/4-18	1/4-18	0.87	1.23	0.87
1924-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.01	1.42	1.02
1924-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.23	1.64	1.23
1924-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.36	1.89	1.36

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## **1925 SERIES**



### **MALE FLARE-MALE PIPE RUN TEE (NON STANDARD)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
1925-04-02-02	0.25	7/16-20	1/8-27	1/8-27	0.88	0.76
1925-06-04-04	0.38	9/16-18	1/4-18	1/4-18	1.06	1.08
1925-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.25	1.20
1925-08-08-08	0.50	3/4-16	1/2-14	1/2-14	1.32	1.45
1925-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.45	1.48
1925-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.65	1.60
1925-16-16-16	1.00	1 5/16-12	1-11 1/2	1-11 1/2	1.82	1.97
1925-20-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.06	2.38

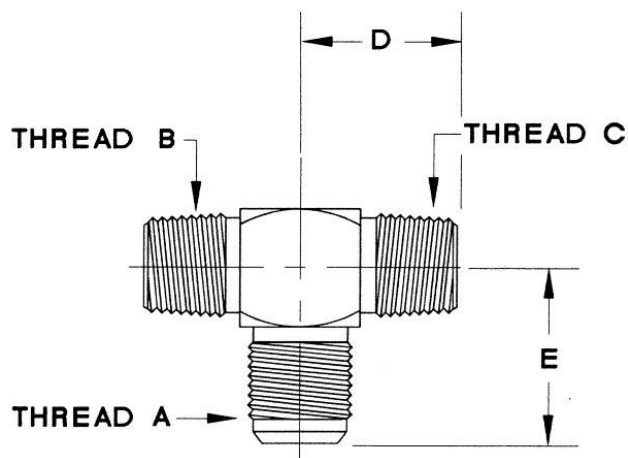
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## **1926 SERIES**



### **MALE FLARE-MALE PIPE BRANCH TEE (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>
1926-04-04-04	0.25	7/16-20	1/4-18	1/4-18	1.09	0.94
1926-06-04-04	0.25	9/16-18	1/4-18	1/4-18	1.10	1.04
1926-06-06-06	0.38	9/16-18	3/8-18	3/8-18	1.21	1.15
1926-08-06-06	0.50	3/4-16	3/8-18	3/8-18	1.21	1.25
1926-10-08-08	0.63	7/8-14	1/2-14	1/2-14	1.47	1.45
1926-12-12-12	0.75	1 1/16-12	3/4-14	3/4-14	1.59	1.65

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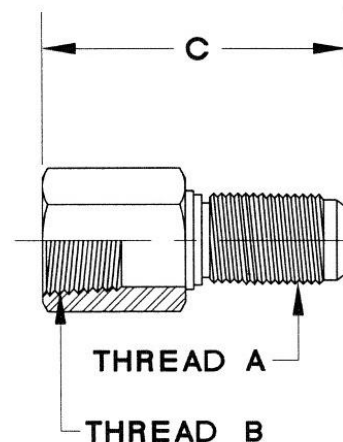
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## FEMALE PIPE BULKHEAD (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
2010-04-02	0.25	7/16-20	1/8-27	1.92
2010-06-04	0.38	9/16-18	1/4-18	2.06
2010-08-06	0.50	3/4-16	3/8-18	2.48
2010-10-08	0.63	7/8-14	1/2-14	2.84
2010-12-12	0.75	1 1/16-12	3/4-14	3.05
2010-16-16	1.00	1 5/16-12	1-11 1/2	3.25

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## 2010 SERIES

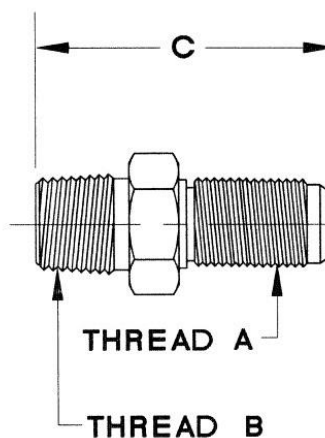


## MALE PIPE BULKHEAD (NON STANDARD)

PART NO.	O.D.	THREAD A	THREAD B	DIM C
2020-04-02	0.25	7/16-20	1/8-27	1.84
2020-04-04	0.25	7/16-20	1/4-18	2.03
2020-06-04	0.38	9/16-18	1/4-18	2.12
2020-08-06	0.50	3/4-16	3/8-18	2.36
2020-10-08	0.63	7/8-14	1/2-14	2.71
2020-12-12	0.75	1 1/16-12	3/4-14	2.92
2020-16-16	1.00	1 5/16-12	1-11 1/2	3.11

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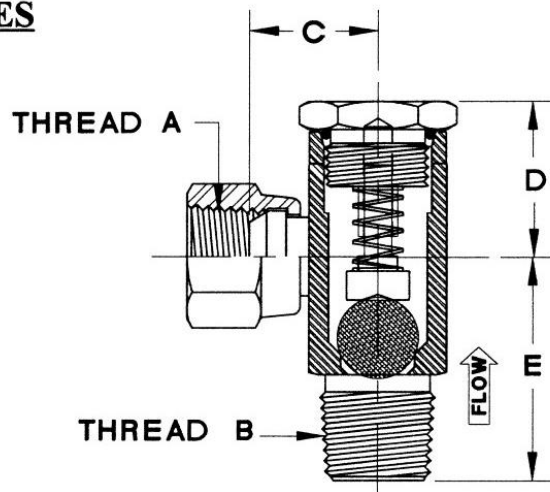
## 2020 SERIES





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## **2590 SERIES**



**WILL CRACK AT 5 PSI**

### **90 DEGREE MALE PIPE- SWIVEL-CHECK VALVE (NON STANDARD)**

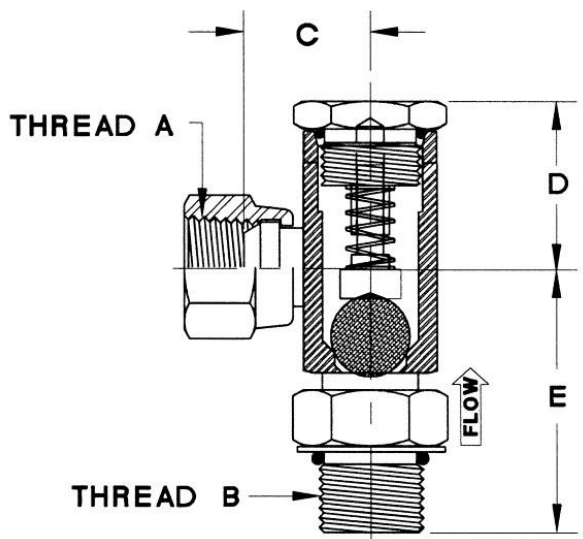
<u>PART NO.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>	<u>DIM E</u>
2590-04-04	1/4-18	1/4-18	0.81	0.81	1.25
2590-06-06	3/8-18	3/8-18	0.92	0.88	1.50
2590-08-08	1/2-14	1/2-14	0.98	1.06	1.50
2590-12-12	3/4-14	3/4-14	1.26	1.38	2.00

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## **2690 SERIES**

**WILL CRACK AT 5 PSI**  
**90 DEGREE ADJUSTABLE STRAIGHT**  
**THREAD-SWIVEL-CHECK VALVE**  
**(NON STANDARD)**

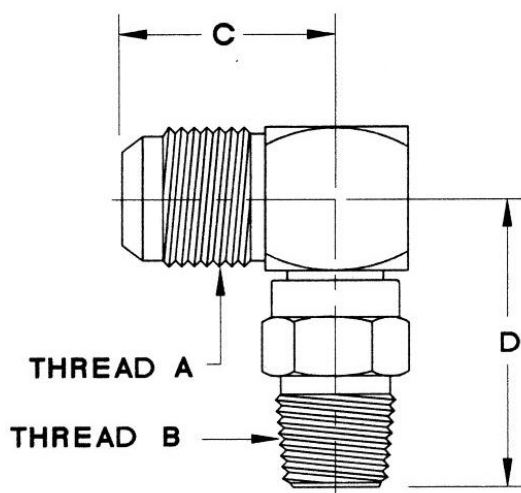
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>
2690-06-06	3/8-18	9/16-18	0.92	2.30	0.88
2690-08-08	1/2-14	3/4-16	0.98	2.75	1.06
2690-12-12	3/4-14	1 1/16-12	1.26	3.50	1.38

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## **2790 SERIES**



### **90 DEGREE PIPE SWIVEL MALE TUBE (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
2790-06-04	0.38	9/16-18	1/4-18	1.06	1.58
2790-08-06	0.50	3/4-16	3/8-18	1.25	1.66
2790-10-08	0.63	7/8-14	1/2-14	1.45	2.00
2790-12-12	0.75	1 1/16-12	3/4-14	1.66	2.14

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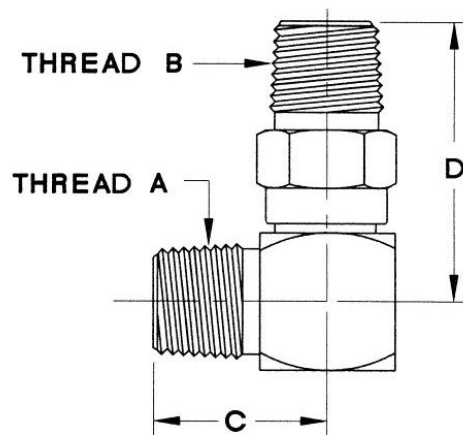
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## 90 DEGREE PIPE SWIVEL MALE PIPE (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C	DIM D
2890-04-04	1/4-18	1/4-18	1.06	1.54
2890-06-06	3/8-18	3/8-18	1.22	1.69
2890-08-08	1/2-14	1/2-14	1.47	1.99
2890-12-12	3/4-14	3/4-14	1.59	2.13

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## 2890 SERIES

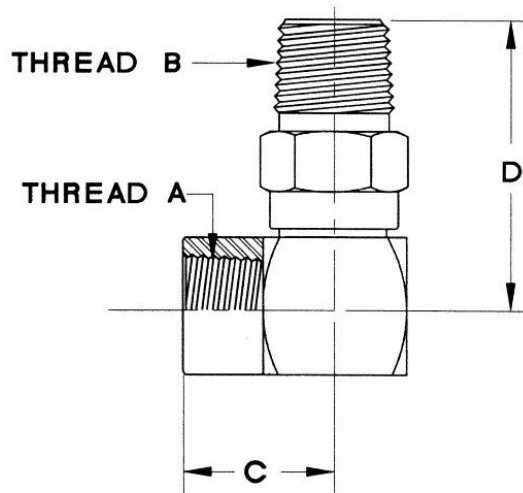


## 90 DEGREE SWIVEL PIPE ELBOW (NON STANDARD)

PART NO.	THREAD A	THREAD B	DIM C	DIM D
2990-04-04	1/4-18	1/4-18	0.88	1.61
2990-06-06	3/8-18	3/8-18	1.02	1.69
2990-08-08	1/2-14	1/2-14	1.23	2.01
2990-12-12	3/4-14	3/4-14	1.36	2.25

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## 2990 SERIES

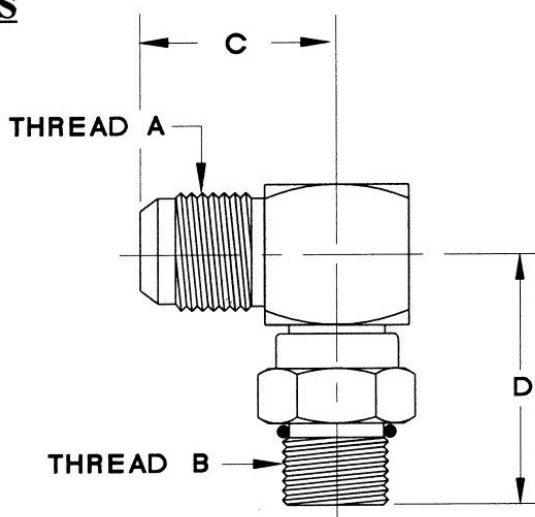






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### **3090 SERIES**



### **90 DEGREE MALE FLARE-MALE O-RING SWIVEL (NON STANDARD)**

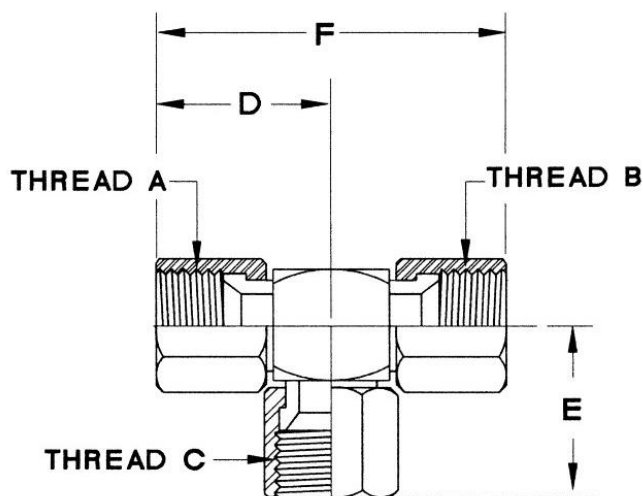
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
3090-06-06	0.38	9/16-18	9/16-18	1.06	1.53
3090-08-08	0.50	3/4-16	3/4-16	1.25	1.67
3090-10-10	0.63	7/8-14	7/8-14	1.45	1.81
3090-12-12	0.75	1 1/16-12	1 1/16-12	1.66	2.13

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## 3630 SERIES



### FEMALE J.I.C. SWIVEL TEE (NON STANDARD)

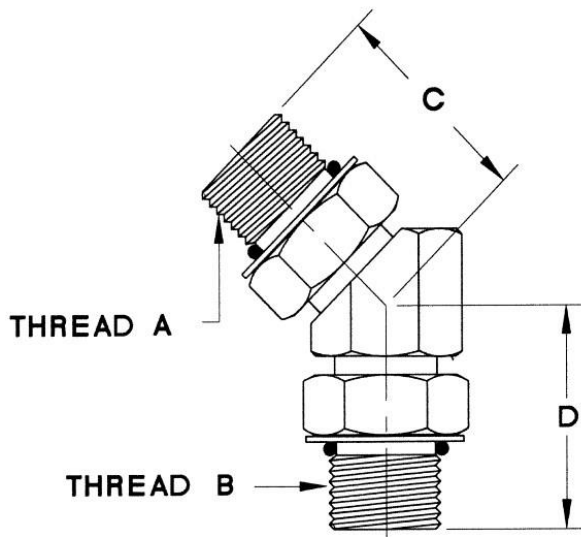
PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E	DIM F
3630-04-04-04	0.25	7/16-20	7/16-20	7/16-20	1.03	1.03	2.06
3630-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.25	1.25	2.50
3630-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.35	1.35	2.70
3630-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.62	1.62	3.24
3630-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.75	1.75	3.50
3630-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.81	1.81	3.62
3630-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	2.31	2.31	4.62
3630-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.59	2.59	5.18
3630-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	3.38	3.38	6.76

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## **7145 SERIES**



### **45 DEGREE ELBOW N.W.O.-N.W.O. (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
7145-04-04	0.25	7/16-20	7/16-20	1.05	1.05
7145-06-06	0.38	9/16-18	9/16-18	1.14	1.14
7145-08-08	0.50	3/4-16	3/4-16	1.30	1.30
7145-10-10	0.63	7/8-14	7/8-14	1.52	1.52
7145-12-12	0.75	1 1/16-12	1 1/16-12	1.73	1.73
7145-16-16	1.00	1 5/16-12	1 5/16-12	1.86	1.86
7145-20-20	1.25	1 5/8-12	1 5/8-12	1.91	1.91
7145-24-24	1.50	1 7/8-12	1 7/8-12	1.91	1.91
7145-32-32	2.00	2 1/2-12	2 1/2-12	1.86	1.86

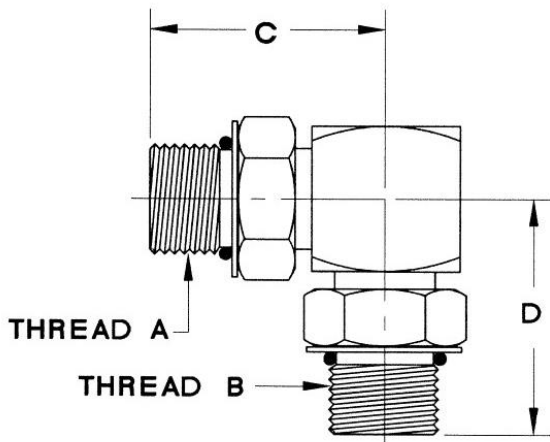
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## 7190 SERIES



### **90 DEGREE ELBOW N.W.O.-N.W.O. (NON STANDARD)**

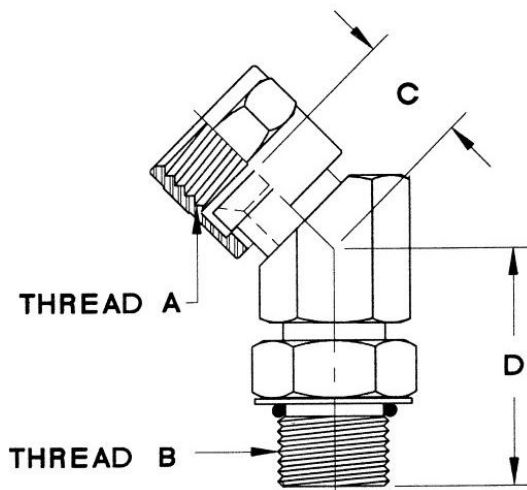
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
7190-04-04	0.25	7/16-20	7/16-20	1.03	1.03
7190-06-06	0.38	9/16-18	9/16-18	1.25	1.25
7190-08-08	0.50	3/4-16	3/4-16	1.45	1.45
7190-10-10	0.63	7/8-14	7/8-14	1.70	1.70
7190-12-12	0.75	1 1/16-12	1 1/16-12	1.94	1.94
7190-16-16	1.00	1 5/16-12	1 5/16-12	2.05	2.05
7190-20-20	1.25	1 5/8-12	1 5/8-12	2.25	2.25
7190-24-24	1.50	1 7/8-12	1 7/8-12	2.39	2.39
7190-32-32	2.00	2 1/2-12	2 1/2-12	2.89	2.89

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## **7245 SERIES**



### **45 DEGREE ELBOW FEMALE J.I.C. SWIVEL-N.W.O. (NON STANDARD)**

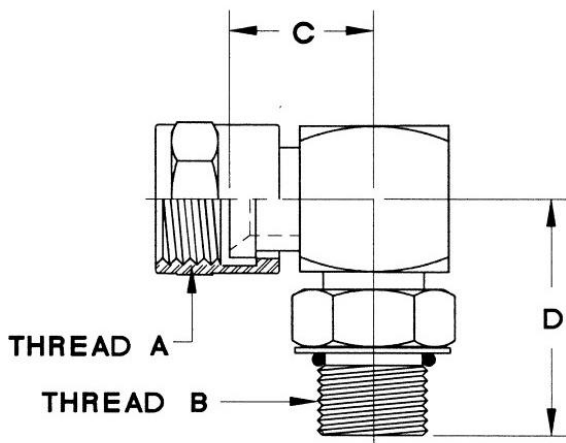
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
7245-04-04	0.25	7/16-20	7/16-20	0.94	1.05
7245-06-06	0.38	9/16-18	9/16-18	1.12	1.14
7245-08-08	0.50	3/4-16	3/4-16	1.28	1.30
7245-10-10	0.63	7/8-14	7/8-14	1.44	1.52
7245-12-12	0.75	1 1/16-12	1 1/16-12	1.50	1.73
7245-16-16	1.00	1 5/16-12	1 5/16-12	1.75	1.86
7245-20-20	1.25	1 5/8-12	1 5/8-12	2.03	1.91
7245-24-24	1.50	1 7/8-12	1 7/8-12	2.25	1.91
7245-32-32	2.00	2 1/2-12	2 1/2-12	2.91	1.86

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## **7290 SERIES**



### **90 DEGREE ELBOW FEMALE J.I.C. SWIVEL-N.W.O. (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
7290-04-04	0.25	7/16-20	7/16-20	1.00	1.03
7290-06-06	0.38	9/16-18	9/16-18	1.25	1.25
7290-08-08	0.50	3/4-16	3/4-16	1.38	1.45
7290-08-10	0.50	3/4-16	7/8-14	1.55	1.70
7290-10-10	0.63	7/8-14	7/8-14	1.62	1.70
7290-12-12	0.75	1 1/16-12	1 1/16-12	1.75	1.94
7290-16-16	1.00	1 5/16-12	1 5/16-12	2.00	2.05
7290-20-20	1.25	1 5/8-12	1 5/8-12	2.31	2.25
7290-24-24	1.50	1 7/8-12	1 7/8-12	2.59	2.39
7290-32-32	2.00	2 1/2-12	2 1/2-12	3.38	2.89

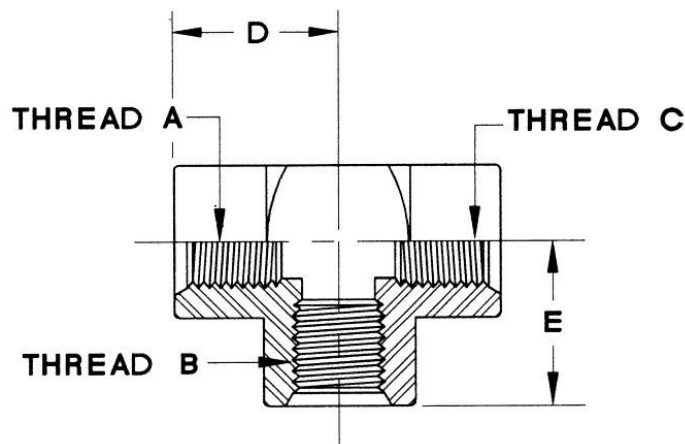
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## **7330 SERIES**



### **FEMALE STRAIGHT THREAD O'RING PORT TEE (NON STANDARD)**

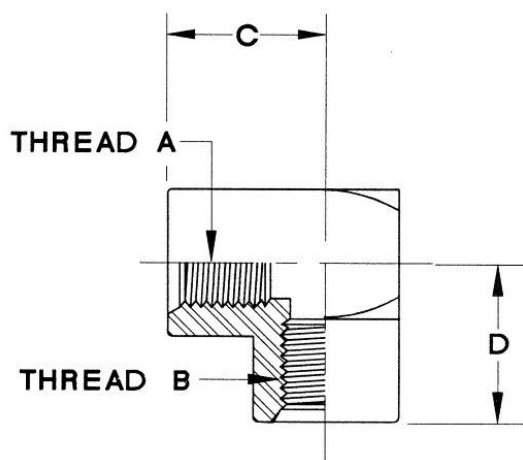
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
7330-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.74	0.74
7330-06-06-06	0.38	9/16-18	9/16-18	9/16-18	0.86	0.86
7330-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.03	1.03
7330-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.18	1.18
7330-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.39	1.39
7330-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.52	1.52

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## **7390 SERIES**



### **90 DEGREE FEMALE O'RING PORT ELBOW (NON STANDARD)**

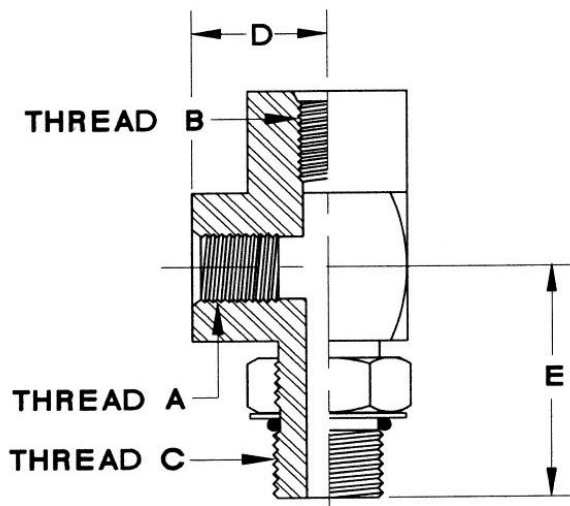
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
7390-04-04	0.25	7/16-20	7/16-20	0.74	0.74
7390-06-06	0.38	9/16-18	9/16-18	0.86	0.86
7390-08-08	0.50	3/4-16	3/4-16	1.03	1.03
7390-10-10	0.63	7/8-14	7/8-14	1.18	1.18
7390-12-12	0.75	1 1/16-12	1 1/16-12	1.39	1.39
7390-16-16	1.00	1 5/16-12	1 5/16-12	1.52	1.52

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## **7420 SERIES**



### **STRAIGHT THREAD O'RING PORT RUN TEE (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>
7420-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.74	1.23
7420-06-06-06	0.38	9/16-18	9/16-18	9/16-18	0.86	1.38
7420-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.03	1.59
7420-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.18	1.81
7420-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.21	2.00
7420-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.90	2.00
7420-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1.52	2.25

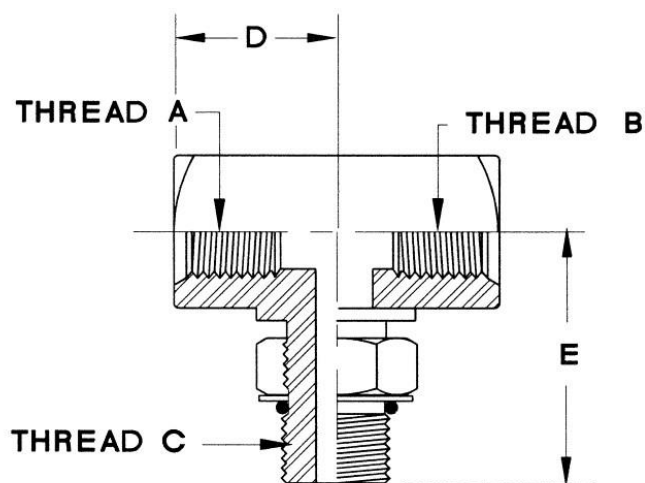
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## **7430 SERIES**



### **STRAIGHT THREAD BRANCH TEE (NON STANDARD)**

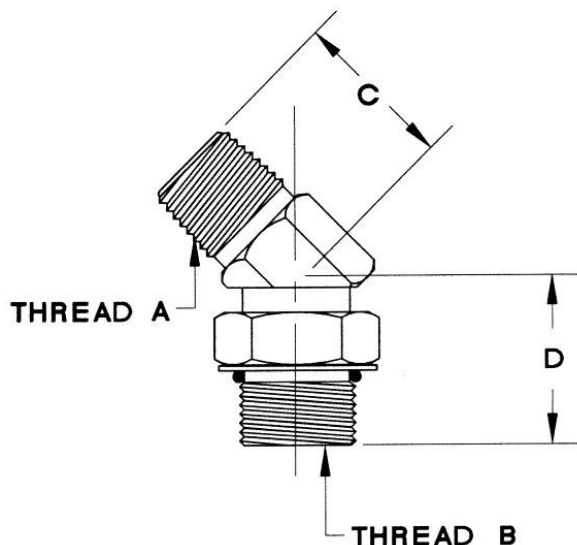
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
7430-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.63	1.23
7430-06-06-06	0.38	9/16-18	9/16-18	9/16-18	0.75	1.38
7430-08-08-08	0.50	3/4-16	3/4-16	3/4-16	0.88	1.59
7430-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.02	1.81
7430-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.21	2.00
7430-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.33	2.25

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## **7845 SERIES**



### **45 DEGREE MALE PIPE-STRAIGHT THREAD ELBOW (NON STANDARD)**

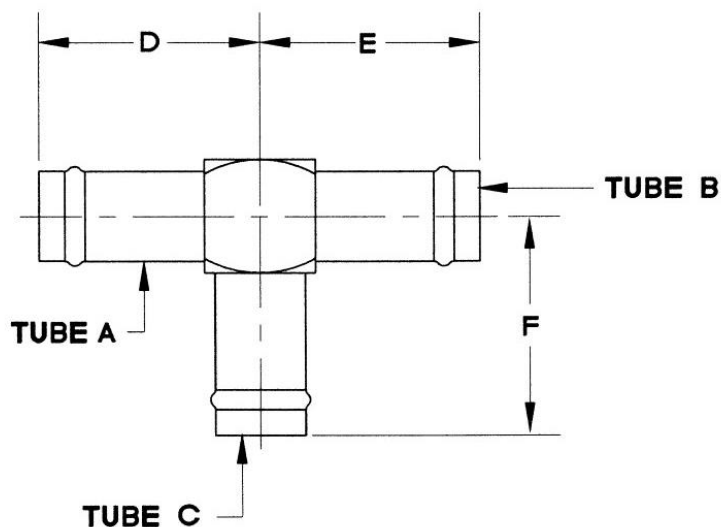
<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
7845-02-04	1/8-27	7/16-20	0.64	0.99
7845-04-06	1/4-18	9/16-20	0.85	1.22
7845-06-08	3/8-18	3/4-16	0.95	1.30
7845-08-08	1/2-14	3/4-16	1.16	1.46
7845-08-10	1/2-14	7/8-14	1.16	1.46
7845-12-10	3/4-14	7/8-14	1.20	1.56
7845-12-12	3/4-14	1 1/16-12	1.20	1.73
7845-16-16	1-11 1/2	1 5/16-12	1.48	1.84
7845-20-20	1 1/4-11 1/2	1 5/8-12	1.67	1.94
7845-24-24	1 1/2-11 1/2	1 7/8-12	1.77	2.19

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## **9230 SERIES**



### **HOSE BARB TEE (NON STANDARD)**

<u>PART NO.</u>	<u>TUBE A</u>	<u>TUBE B</u>	<u>TUBE C</u>	<u>DIM D</u>	<u>DIM E</u>	<u>DIM F</u>
9230-04-04-04	0.25	0.25	0.25	1.43	1.43	1.43
9230-06-06-06	0.38	0.38	0.38	1.49	1.49	1.49
9230-08-08-08	0.50	0.50	0.50	1.67	1.67	1.67
9230-10-10-10	0.63	0.63	0.63	1.69	1.69	1.69
9230-12-12-12	0.75	0.75	0.75	1.80	1.80	1.80
9230-16-16-16	1.00	1.00	1.00	1.91	1.91	1.91
9230-20-20-20	1.25	1.25	1.25	2.41	2.41	2.41
9230-24-24-24	1.50	1.50	1.50	2.53	2.53	2.53
9230-32-32-32	2.00	2.00	2.00	2.85	2.85	2.85

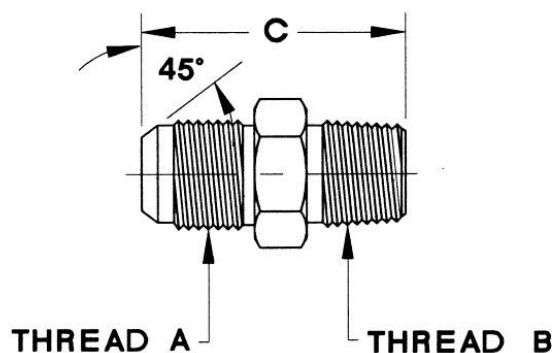
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**45 DEGREE FLARE  
 AUTOMOTIVE TUBE FITTINGS  
 AF-100 SERIES**



**MALE CONNECTOR  
 (010102)**

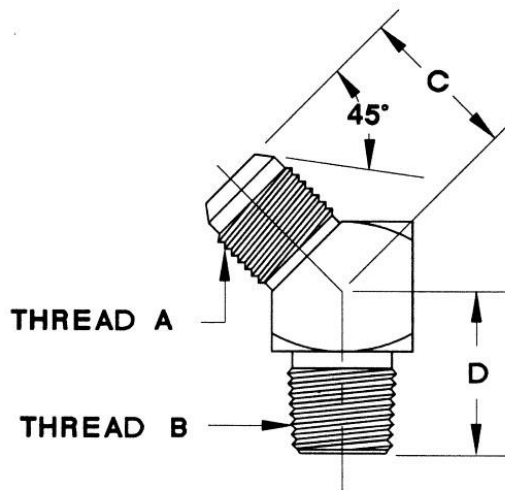
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>
AF-100-04-02	0.25	7/16-20	1/8-27	1.06
AF-100-04-04	0.25	7/16-20	1/4-18	1.23
AF-100-04-06	0.25	7/16-20	3/8-18	1.28
AF-100-04-08	0.25	7/16-20	1/2-14	1.57
AF-100-05-02	0.31	1/2-20	1/8-27	1.16
AF-100-05-04	0.31	1/2-20	1/4-18	1.32
AF-100-05-06	0.31	1/2-20	3/8-18	1.36
AF-100-06-02	0.38	5/8-18	1/8-27	1.25
AF-100-06-04	0.38	5/8-18	1/4-18	1.44
AF-100-06-06	0.38	5/8-18	3/8-18	1.42
AF-100-06-08	0.38	5/8-18	1/2-14	1.69
AF-100-08-04	0.50	3/4-16	1/4-18	1.59
AF-100-08-06	0.50	3/4-16	3/8-18	1.62
AF-100-08-08	0.50	3/4-16	1/2-14	1.81
AF-100-08-12	0.50	3/4-16	3/4-14	1.92
AF-100-10-08	0.63	7/8-14	1/2-14	2.00
AF-100-10-12	0.63	7/8-14	3/4-14	1.93
AF-100-12-08	0.75	1 1/16-14	1/2-14	2.19
AF-100-12-12	0.75	1 1/16-14	3/4-14	2.17

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## **AF-145 SERIES**



### **45 DEGREE MALE ELBOW (010302)**

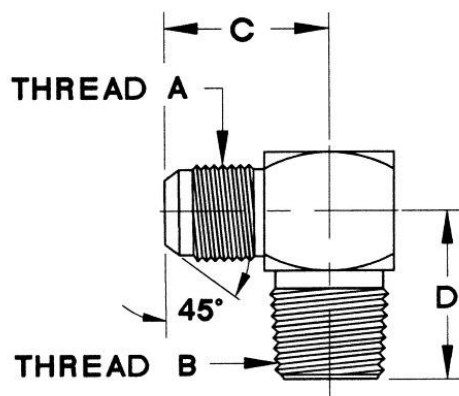
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
AF-145-04-02	0.25	7/16-20	1/8-27	0.69	0.66
AF-145-04-04	0.25	7/16-20	1/4-18	0.75	0.84
AF-145-05-02	0.31	1/2-20	1/8-27	0.75	0.65
AF-145-05-04	0.31	1/2-20	1/4-18	0.75	0.81
AF-145-06-04	0.38	5/8-18	1/4-18	0.88	0.88
AF-145-06-06	0.38	5/8-18	3/8-18	0.91	0.93
AF-145-08-06	0.50	3/4-16	3/8-18	1.06	0.95
AF-145-08-08	0.50	3/4-16	1/2-14	0.97	1.17
AF-145-10-08	0.63	7/8-14	1/2-14	1.23	1.17

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## **AF-190 SERIES**



### **MALE 90 DEGREE ELBOW (010202)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
AF-190-04-02	0.25	7/16-20	1/8-27	0.79	0.76
AF-190-04-04	0.25	7/16-20	1/4-18	0.90	0.94
AF-190-04-06	0.25	7/16-20	3/8-18	0.94	1.06
AF-190-05-02	0.31	1/2-20	1/8-27	0.90	0.79
AF-190-05-04	0.31	1/2-20	1/4-18	0.95	0.95
AF-190-06-04	0.38	5/8-18	1/4-18	1.01	1.05
AF-190-06-06	0.38	5/8-18	3/8-18	1.04	1.07
AF-190-06-08	0.38	5/8-18	1/2-14	1.15	1.27
AF-190-08-04	0.50	3/4-16	1/4-18	1.20	1.17
AF-190-08-06	0.50	3/4-16	3/8-18	1.20	1.10
AF-190-08-08	0.50	3/4-16	1/2-14	1.28	1.38
AF-190-10-06	0.63	7/8-14	3/8-18	1.41	1.25
AF-190-10-08	0.63	7/8-14	1/2-14	1.40	1.39
AF-190-10-12	0.63	7/8-14	3/4-14	1.42	1.48
AF-190-12-08	0.75	1 1/16-14	1/2-14	1.60	1.48
AF-190-12-12	0.75	1 1/16-14	3/4-14	1.59	1.62

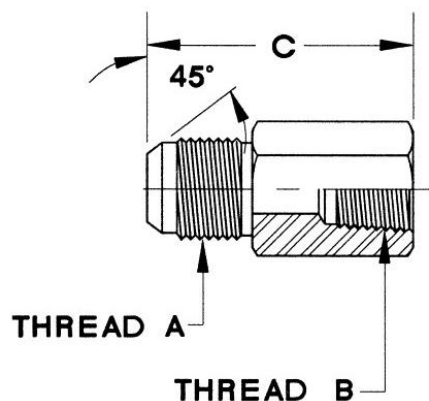
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## **AF-200 SERIES**



### **FEMALE CONNECTOR (010103)**

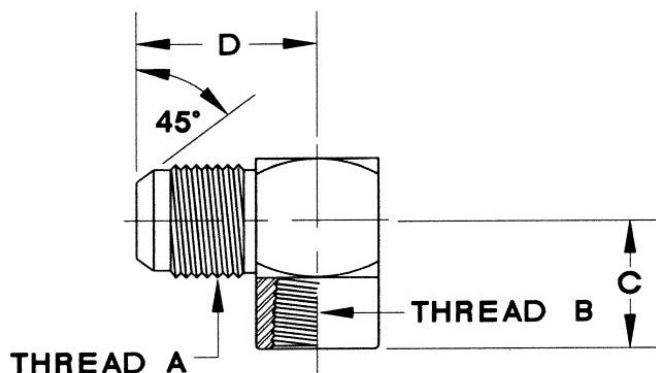
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>
AF-200-04-02	0.25	7/16-20	1/8-27	1.06
AF-200-04-04	0.25	7/16-20	1/4-18	1.19
AF-200-04-06	0.25	7/16-20	3/8-18	1.19
AF-200-05-02	0.31	1/2-20	1/8-27	1.16
AF-200-05-04	0.31	1/2-20	1/4-18	1.25
AF-200-06-04	0.38	5/8-18	1/4-18	1.19
AF-200-06-06	0.38	5/8-18	3/8-18	1.31
AF-200-06-08	0.38	5/8-18	1/2-14	1.50
AF-200-08-04	0.50	3/4-16	1/4-18	1.44
AF-200-08-06	0.50	3/4-16	3/8-18	1.56
AF-200-08-08	0.50	3/4-16	1/2-14	1.62
AF-200-10-06	0.63	7/8-14	3/8-18	1.56
AF-200-10-08	0.63	7/8-14	1/2-14	1.81
AF-200-10-12	0.63	7/8-14	3/4-14	1.81
AF-200-12-08	0.75	1 1/16-14	1/2-14	2.00
AF-200-12-12	0.75	1 1/16-14	3/4-14	1.94

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## **AF-290 SERIES**



### **90 DEGREE FEMALE ELBOW (010203)**

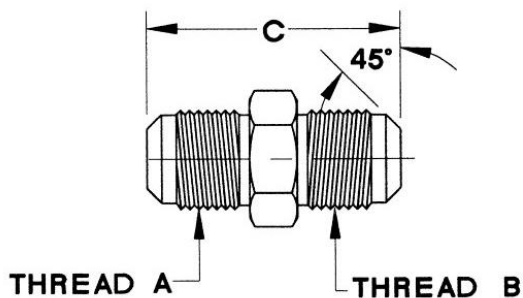
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
AF-290-04-02	0.25	7/16-20	1/8-27	0.78	0.94
AF-290-04-04	0.25	7/16-20	1/4-18	1.04	0.87
AF-290-05-04	0.31	1/2-20	1/4-18	1.04	0.88
AF-290-06-04	0.38	5/8-18	1/4-18	0.97	1.16
AF-290-06-06	0.38	5/8-18	3/8-18	1.20	1.17
AF-290-08-06	0.50	3/4-16	3/8-18	1.12	1.34
AF-290-08-08	0.50	3/4-16	1/2-14	1.44	1.23
AF-290-10-08	0.63	7/8-14	1/2-14	1.55	1.23
AF-290-12-12	0.75	1 1/16-14	3/4-14	1.89	1.36

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# **AF-400SH SERIES**



## **UNION (010101)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>
AF-400SH-04-04	0.25	7/16-20	7/16-20	1.17
AF-400SH-05-05	0.31	1/2-20	1/2-20	1.32
AF-400SH-06-06	0.38	5/8-18	5/8-18	1.50
AF-400SH-08-08	0.50	3/4-16	3/4-16	1.81
AF-400SH-10-10	0.63	7/8-14	7/8-14	2.10
AF-400SH-12-12	0.75	1 1/16-14	1 1/16-14	2.44

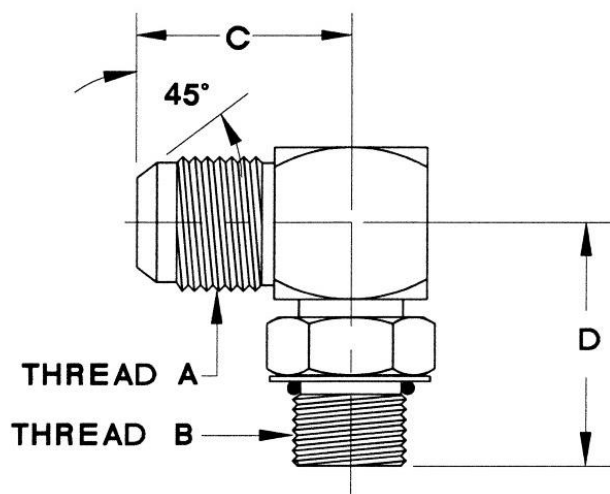
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## **AF-790 SERIES**



### **90 DEGREE STRAIGHT THREAD ELBOW (010202)**

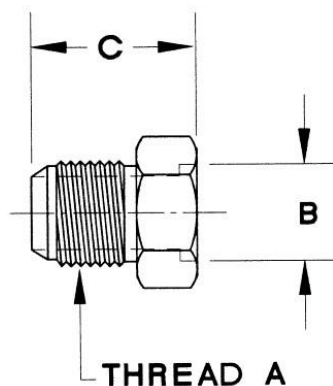
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
AF-790-04-04	0.25	7/16-20	7/16-20	0.90	1.02
AF-790-06-06	0.38	5/8-18	5/8-18	1.06	1.23
AF-790-08-08	0.50	3/4-16	3/4-16	1.25	1.45
AF-790-10-10	0.63	7/8-14	7/8-14	1.45	1.70
AF-790-12-12	0.75	1 1/16-14	1 1/16-12	1.66	1.94

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**BRAZE FITTINGS**  
**B-4100 SERIES**



**BRAZE TUBE UNION**  
**(NON STANDARD)**

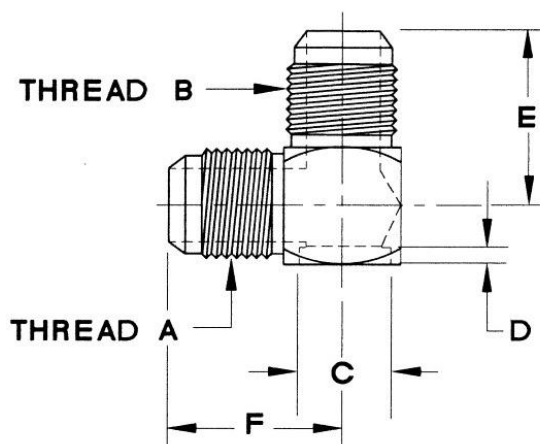
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>DIM B</u>	<u>DIM C</u>
B-4100-04-04	0.25	7/16-20	0.25	0.79
B-4100-06-06	0.38	9/16-18	0.38	0.84
B-4100-08-08	0.50	3/4-16	0.50	0.93
B-4100-10-10	0.63	7/8-14	0.63	1.09
B-4100-12-12	0.75	1 1/16-12	0.75	1.28
B-4100-16-16	1.00	1 5/16-12	1.00	1.32
B-4100-20-20	1.25	1 5/8-12	1.25	1.45
B-4100-24-24	1.50	1 7/8-12	1.50	1.65
B-4100-32-32	2.00	2 1/2-12	2.00	2.04

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## **B-4120 SERIES**



### **BRAZE TUBE TEE (NON STANDARD)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
B-4120-04-04-04	0.25	7/16-20	7/16-20	0.25	0.12	0.89	0.89
B-4120-06-06-06	0.38	9/16-18	9/16-18	0.38	0.14	1.06	1.06
B-4120-08-08-08	0.50	3/4-16	3/4-16	0.50	0.16	1.25	1.25
B-4120-10-10-10	0.63	7/8-14	7/8-14	0.63	0.20	1.45	1.45
B-4120-12-12-12	0.75	1 1/16-12	1 1/16-12	0.75	0.21	1.66	1.66
B-4120-16-16-16	1.00	1 5/16-12	1 5/16-12	1.00	0.24	1.81	1.81
B-4120-20-20-20	1.25	1 5/8-12	1 5/8-12	1.25	0.30	2.06	2.06
B-4120-24-24-24	1.50	1 7/8-12	1 7/8-12	1.50	0.30	2.33	2.33
B-4120-32-32-32	2.00	2 1/2-12	2 1/2-12	2.00	0.35	3.06	3.06

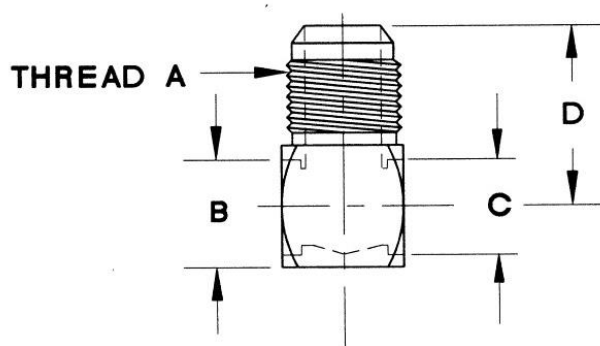
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## **B-4130 SERIES**



### **BRAZE TUBE TEE (NON STANDARD)**

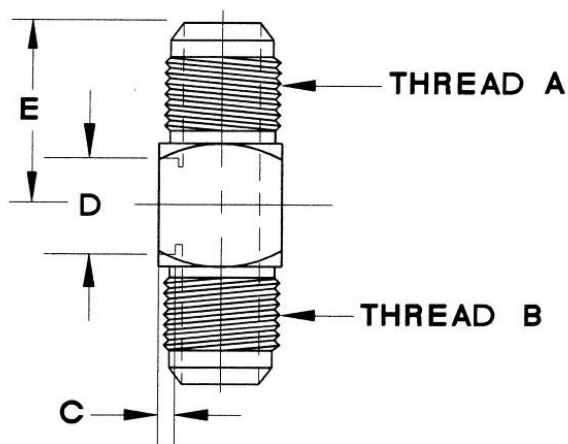
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>DIM B</u>	<u>DIM C</u>	<u>DIM D</u>
B-4130-04-04-04	0.25	7/16-20	0.25	0.25	0.89
B-4130-06-06-06	0.38	9/16-18	0.37	0.37	1.06
B-4130-08-08-08	0.50	3/4-16	0.50	0.50	1.25
B-4130-10-10-10	0.63	7/8-14	0.62	0.62	1.45
B-4130-12-12-12	0.75	1 1/16-12	0.75	0.75	1.65
B-4130-16-16-16	1.00	1 5/16-12	1.00	1.00	1.81
B-4130-20-20-20	1.25	1 5/8-12	1.25	1.25	2.06
B-4130-24-24-24	1.50	1 7/8-12	1.50	1.50	2.32
B-4130-32-32-32	2.00	2 1/2-12	2.00	2.00	3.06

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## **B-4135 SERIES**



### **BRAZE TUBE TEE (NON STANDARD)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>	<b>DIM E</b>
B-4135-04-04-04	0.25	7/16-20	7/16-20	0.12	0.25	0.89
B-4135-06-06-06	0.38	9/16-18	9/16-18	0.14	0.38	1.06
B-4135-08-08-08	0.50	3/4-16	3/4-16	0.16	0.50	1.25
B-4135-10-10-10	0.63	7/8-14	7/8-14	0.20	0.63	1.45
B-4135-12-12-12	0.75	1 1/16-12	1 1/16-12	0.21	0.75	1.66
B-4135-16-16-16	1.00	1 5/16-12	1 5/16-12	0.24	1.00	1.81
B-4135-20-20-20	1.25	1 5/8-12	1 5/8-12	0.30	1.25	2.06
B-4135-24-24-24	1.50	1 7/8-12	1 7/8-12	0.30	1.50	2.33
B-4135-32-32-32	2.00	2 1/2-12	2 1/2-12	0.35	2.00	3.06

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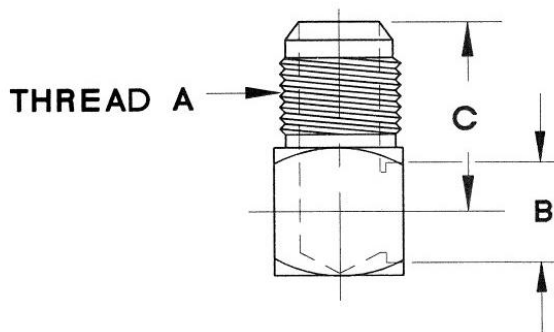
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## BRAZE 90 DEGREE TUBE ELBOW (NON STANDARD)

PART NO.	O.D.	THREAD A	DIM B	DIM C
B-4190-04-04	0.25	7/16-20	0.25	0.89
B-4190-06-06	0.38	9/16-18	0.38	1.06
B-4190-08-08	0.50	3/4-16	0.50	1.25
B-4190-10-10	0.63	7/8-14	0.62	1.45
B-4190-12-12	0.75	1 1/16-12	0.75	1.65
B-4190-16-16	1.00	1 5/16-12	1.00	1.81
B-4190-20-20	1.25	1 5/8-12	1.25	2.06
B-4190-24-24	1.50	1 7/8-12	1.50	2.32
B-4190-32-32	2.00	2 1/2-12	2.00	3.06

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## B-4190 SERIES

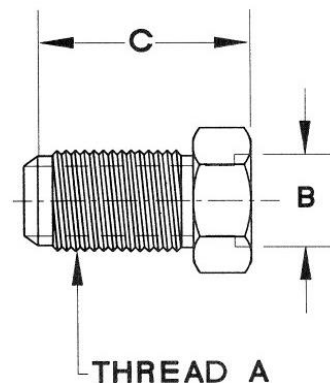


## BRAZE BULKHEAD UNION (NON STANDARD)

PART NO.	O.D.	THREAD A	DIM B	DIM C
B-5100-04-04	0.25	7/16-20	0.25	1.50
B-5100-06-06	0.38	9/16-18	0.38	1.58
B-5100-08-08	0.50	3/4-16	0.50	1.85
B-5100-10-10	0.63	7/8-14	0.63	2.00
B-5100-12-12	0.75	1 1/16-12	0.75	2.15
B-5100-16-16	1.00	1 5/16-12	1.00	2.18
B-5100-20-20	1.25	1 5/8-12	1.25	2.34
B-5100-24-24	1.50	1 7/8-12	1.50	2.44

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## B-5100 SERIES

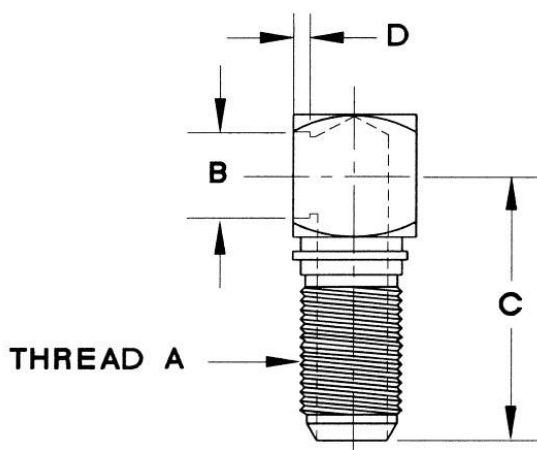






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## **B-5190 SERIES**



### **BRAZE 90 DEGREE BULKHEAD ELBOW (NON STANDARD)**

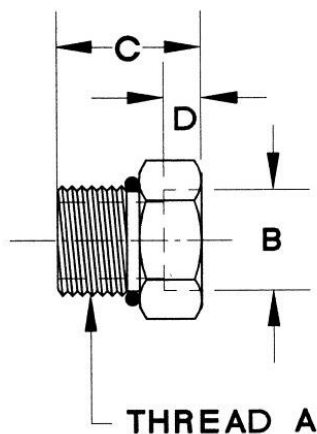
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-5190-04-04	0.25	7/16-20	0.25	1.56	0.12
B-5190-06-06	0.38	9/16-18	0.38	1.81	0.14
B-5190-08-08	0.50	3/4-16	0.50	2.10	0.16
B-5190-10-10	0.63	7/8-14	0.63	2.39	0.20
B-5190-12-12	0.75	1 1/16-12	0.75	2.67	0.21
B-5190-16-16	1.00	1 5/16-12	1.03	2.79	0.24
B-5190-20-20	1.25	1 5/8-12	1.25	3.12	0.30
B-5190-24-24	1.50	1 7/8-12	1.50	3.42	0.30
B-5190-32-32	2.00	2 1/2-12	2.00	4.11	0.35

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## **B-6000 SERIES**



### **BRAZE MALE O'RING UNION (NON STANDARD)**

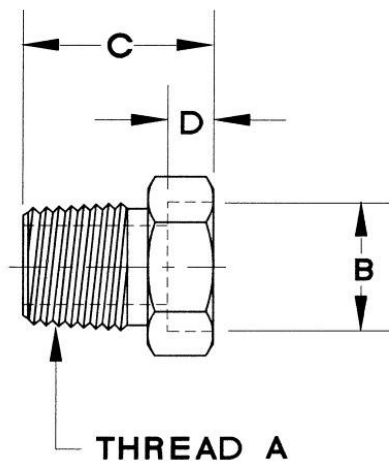
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>	<b>DIM C</b>	<b>DIM D</b>
B-6000-04-04	0.25	7/16-20	0.25	0.67	0.13
B-6000-05-05	0.31	1/2-20	0.31	0.67	0.14
B-6000-06-06	0.38	9/16-18	0.38	0.73	0.14
B-6000-08-08	0.50	3/4-16	0.50	0.80	0.25
B-6000-10-10	0.63	7/8-14	0.63	0.83	0.25
B-6000-12-12	0.75	1 1/16-12	0.75	1.09	0.25
B-6000-16-16	1.00	1 5/16-12	1.00	1.12	0.31
B-6000-20-20	1.25	1 5/8-12	1.25	1.20	0.31
B-6000-24-24	1.50	1 7/8-12	1.50	1.27	0.31
B-6000-32-32	2.00	2 1/2-12	2.00	1.43	0.35

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## **B-6100 SERIES**



### **BRAZE MALE PIPE UNION (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>DIM B</u>	<u>DIM C</u>	<u>DIM D</u>
B-6100-02-04	0.25	1/8-27	0.25	0.56	0.19
B-6100-04-06	0.38	1/4-18	0.38	0.81	0.25
B-6100-06-08	0.50	3/8-18	0.50	0.84	0.28
B-6100-06-10	0.63	3/8-18	0.63	0.84	0.28
B-6100-08-10	0.63	1/2-14	0.63	1.08	0.33
B-6100-12-12	0.75	3/4-14	0.75	1.09	0.34
B-6100-16-16	1.00	1-11 1/2	1.00	1.31	0.38
B-6100-20-16	1.25	1 1/4-11 1/2	1.00	1.31	0.44
B-6100-20-20	1.25	1 1/4-11 1/2	1.25	1.41	0.44
B-6100-24-24	1.50	1 1/2-11 1/2	1.50	1.50	0.50
B-6100-32-32	2.00	2-11 1/2	2.00	1.78	0.75

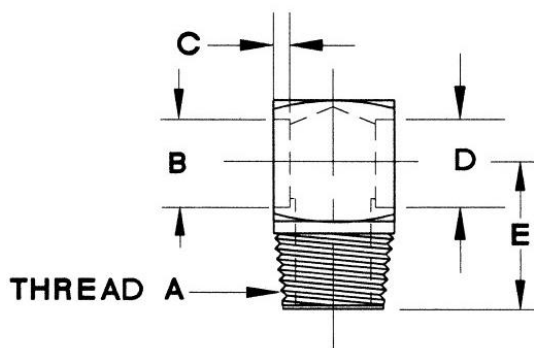
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## **B-6130 SERIES**



### **BRAZE MALE PIPE TEE (NON STANDARD)**

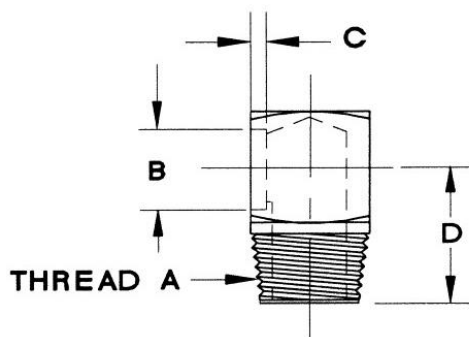
<b>PART NO.</b>	<b>THREAD A</b>	<b>DIM B</b>	<b>DIM C</b>	<b>DIM D</b>	<b>DIM E</b>
B-6130-02-04-04	1/8-27	0.25	0.12	0.25	0.78
B-6130-04-06-06	1/4-18	0.38	0.14	0.38	1.09
B-6130-06-08-08	3/8-18	0.50	0.16	0.50	1.22
B-6130-08-10-10	1/2-14	0.63	0.20	0.63	1.47
B-6130-12-12-12	3/4-14	0.75	0.21	0.75	1.59
B-6130-16-16-16	1-11 1/2	1.00	0.24	1.00	1.97
B-6130-20-20-20	1 1/4-11 1/2	1.25	0.30	1.25	2.38
B-6130-24-24-24	1 1/2-11 1/2	1.50	0.30	1.50	2.64
B-6130-32-32-32	2-11 1/2	2.00	0.35	2.00	3.00

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## **B-6190 SERIES**

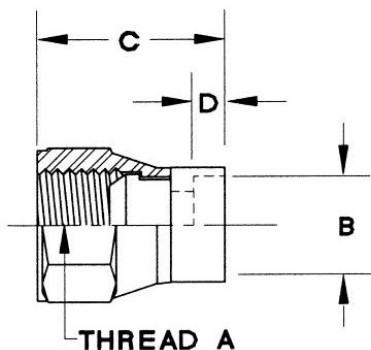


### **BRAZE MALE PIPE ELBOW (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>DIM B</u>	<u>DIM C</u>	<u>DIM D</u>
B-6190-02-04	0.25	1/8-27	0.25	0.16	0.78
B-6190-04-06	0.38	1/4-18	0.38	0.16	0.91
B-6190-06-08	0.50	3/8-18	0.50	0.16	1.22
B-6190-08-10	0.63	1/2-14	0.63	0.20	1.47
B-6190-12-12	0.75	3/4-14	0.75	0.21	1.59
B-6190-16-16	1.00	1-11 1/2	1.00	0.24	1.97
B-6190-20-20	1.25	1 1/4-11 1/2	1.25	0.30	2.38
B-6190-24-24	1.50	1 1/2-11 1/2	1.50	0.30	2.64
B-6190-32-32	2.00	2-11 1/2	2.00	0.35	3.00

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## **B-7000 SERIES**



### **BRAZE NPSM SWIVEL ADAPTER (NON STANDARD)**

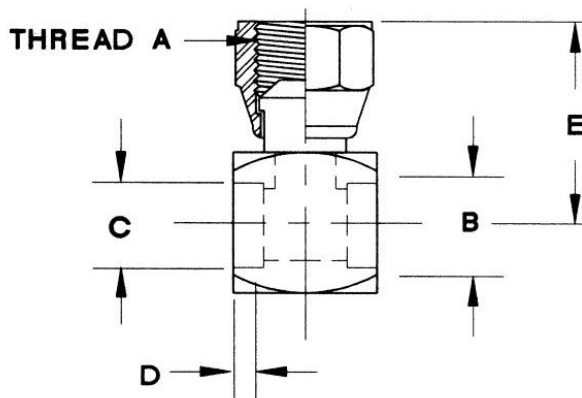
<u>PART NO.</u>	<u>THREAD A</u>	<u>DIM B</u>	<u>DIM C</u>	<u>DIM D</u>
B-7000-04-04	1/4-18	0.25	0.93	0.12
B-7000-06-06	3/8-18	0.38	1.01	0.14
B-7000-08-08	1/2-14	0.50	1.12	0.25
B-7000-12-12	3/4-14	0.75	1.26	0.25
B-7000-16-16	1-11 1/2	1.03	1.34	0.31
B-7000-20-20	1 1/4-11 1/2	1.25	1.53	0.31
B-7000-24-24	1 1/2-11 1/2	1.50	1.53	0.31

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## **B-7130 SERIES**



### **BRAZE NPSM SWIVEL TEE (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>	<b><u>DIM E</u></b>
B-7130-04-04-04	1/4-18	0.25	0.25	0.12	0.72
B-7130-06-06-06	3/8-18	0.38	0.38	0.14	0.80
B-7130-06-08-08	3/8-18	0.50	0.50	0.16	0.80
B-7130-08-08-08	1/2-14	0.50	0.50	0.20	0.82
B-7130-08-10-10	1/2-14	0.63	0.63	0.21	0.82
B-7130-12-12-12	3/4-14	0.75	0.75	0.24	1.08
B-7130-16-16-16	1-11 1/2	1.00	1.00	0.30	1.18
B-7130-20-20-20	1 1/4-11 1/2	1.25	1.25	0.30	1.44
B-7130-24-24-24	1 1/2-11 1/2	1.50	1.50	0.35	1.58

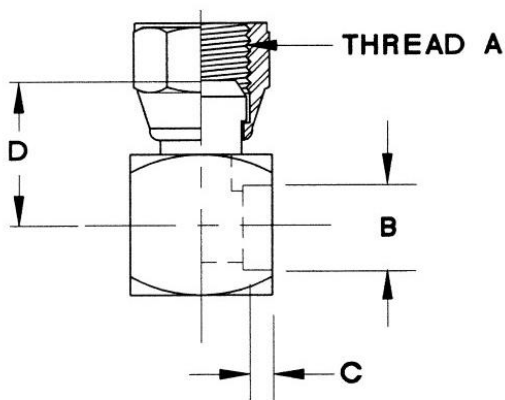
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## **B-7190 SERIES**



### **BRAZE NPSM SWIVEL ELBOW (NON STANDARD)**

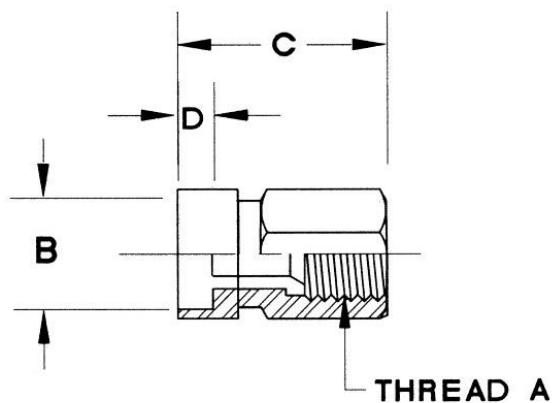
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-7190-04-04	0.25	1/4-18	0.25	0.12	0.72
B-7190-06-06	0.38	3/8-18	0.38	0.14	0.80
B-7190-06-08	0.50	3/8-18	0.50	0.16	0.80
B-7190-08-08	0.50	1/2-14	0.50	0.20	0.82
B-7190-08-10	0.63	1/2-14	0.63	0.21	0.82
B-7190-12-12	0.75	3/4-14	0.75	0.24	1.08
B-7190-16-16	1.00	1-11 1/2	1.00	0.30	1.18
B-7190-20-20	1.25	1 1/4-11 1/2	1.25	0.30	1.44
B-7190-24-24	1.50	1 1/2-11 1/2	1.50	0.35	1.58

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## **B-8000 SERIES**



### **BRAZE FEMALE J.I.C. SWIVEL ADAPTER (NON STANDARD)**

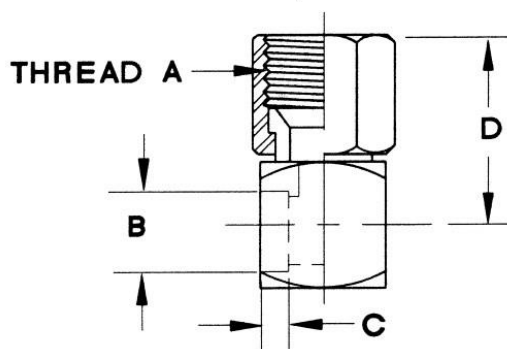
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-8000-04-04	0.25	7/16-20	0.25	0.92	0.12
B-8000-06-06	0.38	9/16-18	0.38	0.97	0.14
B-8000-08-08	0.50	3/4-16	0.50	1.13	0.25
B-8000-10-10	0.63	7/8-14	0.63	1.28	0.25
B-8000-12-12	0.75	1 1/16-12	0.75	1.30	0.25
B-8000-16-16	1.00	1 5/16-12	1.00	1.50	0.31
B-8000-20-20	1.25	1 5/8-12	1.25	1.75	0.31

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## **B-8190 SERIES**



### **BRAZE 90 DEGREE FEMALE J.I.C. SWIVEL ELBOW (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-8190-04-04	0.25	7/16-20	0.25	0.12	1.00
B-8190-06-06	0.38	9/16-18	0.38	0.14	1.25
B-8190-08-08	0.50	3/4-16	0.50	0.16	1.37
B-8190-10-10	0.63	7/8-14	0.63	0.21	1.62
B-8190-12-12	0.75	1 1/16-12	0.75	0.24	1.75
B-8190-16-16	1.00	1 5/16-12	1.00	0.30	2.00
B-8190-20-20	1.25	1 5/8-12	1.25	0.30	2.31

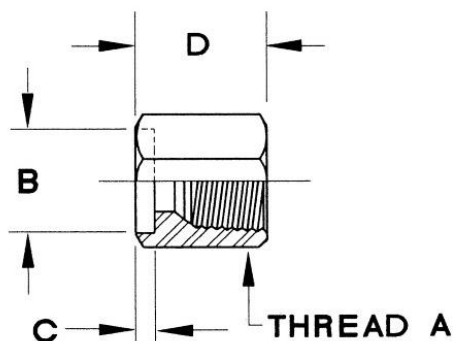
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## **B-9100 SERIES**



### **BRAZE FEMALE PIPE ADAPTER (NON STANDARD)**

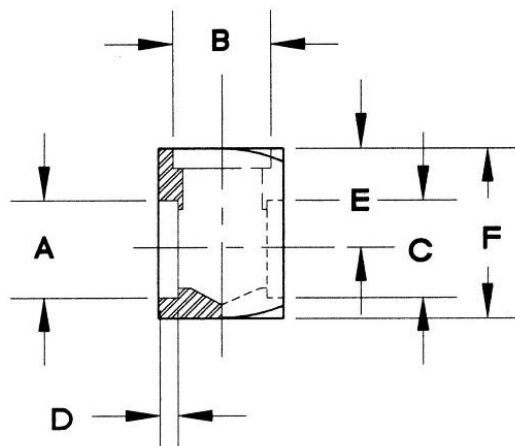
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-9100-04-04	0.25	1/4-18	0.25	0.12	0.88
B-9100-04-06	0.38	1/4-18	0.38	0.14	0.88
B-9100-06-06	0.38	3/8-18	0.38	0.14	1.06
B-9100-06-08	0.50	3/8-18	0.50	0.25	1.06
B-9100-08-08	0.50	1/2-14	0.50	0.25	1.31
B-9100-08-10	0.63	1/2-14	0.63	0.25	1.31
B-9100-12-12	0.75	3/4-14	0.75	0.25	1.31
B-9100-16-16	1.00	1-11 1/2	1.00	0.31	1.50
B-9100-20-20	1.25	1 1/4-11 1/2	1.25	0.31	1.62
B-9100-24-24	1.50	1 1/2-11 1/2	1.50	0.31	1.68

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## **B-9130 SERIES**



### **BRAZE FEMALE TEE (NON STANDARD)**

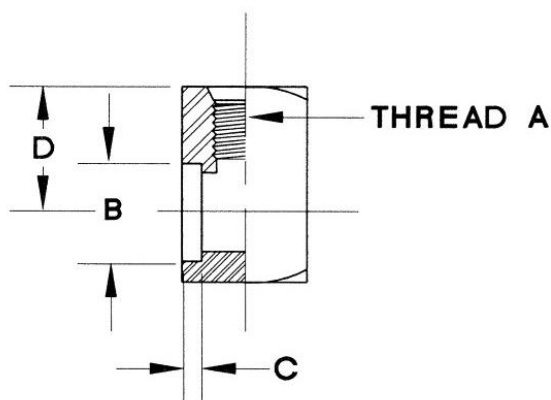
<b>PART NO.</b>	<b>O.D.</b>	<b>DIM A</b>	<b>DIM B</b>	<b>DIM C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
B-9130-04-04-04	0.25	0.25	0.25	0.25	0.12	0.31	0.62
B-9130-06-06-06	0.38	0.38	0.38	0.38	0.14	0.40	0.80
B-9130-08-08-08	0.50	0.50	0.50	0.50	0.16	0.50	1.00
B-9130-10-10-10	0.63	0.63	0.63	0.63	0.20	0.56	1.12
B-9130-12-12-12	0.75	0.75	0.75	0.75	0.21	0.68	1.37
B-9130-16-16-16	1.00	1.00	1.00	1.00	0.24	0.87	1.75
B-9130-20-20-20	1.25	1.25	1.25	1.25	0.30	1.00	2.00
B-9130-24-24-24	1.50	1.50	1.50	1.50	0.30	1.18	2.37
B-9130-32-32-32	2.00	2.00	2.00	2.00	0.35	1.43	2.87

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## **B-9190 SERIES**



### **BRAZE FEMALE O'RING BOSS 90 DEGREE ELBOW (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>DIM B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
B-9190-04-04	0.25	7/16-20	0.25	0.12	1.23
B-9190-06-06	0.38	9/16-18	0.38	0.14	1.42
B-9190-08-06	0.50	3/4-16	0.38	0.16	1.42
B-9190-08-08	0.50	3/4-16	0.50	0.20	1.64
B-9190-10-08	0.63	7/8-14	0.50	0.21	1.64
B-9190-12-12	0.75	1 1/16-12	0.75	0.24	1.89
B-9190-16-16	1.00	1 5/16-12	1.00	0.30	2.17
B-9190-20-20	1.25	1 5/8-12	1.25	0.30	2.33
B-9190-24-24	1.50	1 7/8-12	1.50	0.35	2.89

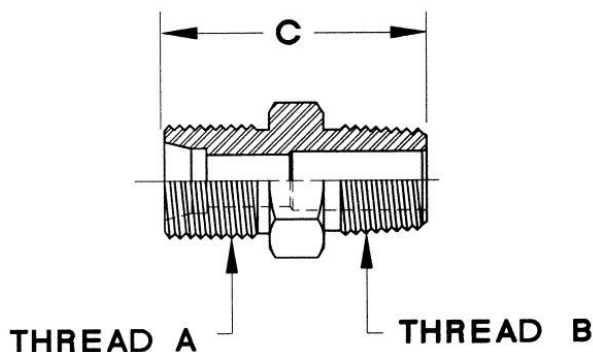
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# **FLARELESS FITTINGS** **FL-100 SERIES**



## **FLARELESS MALE CONNECTOR** **(080102)**

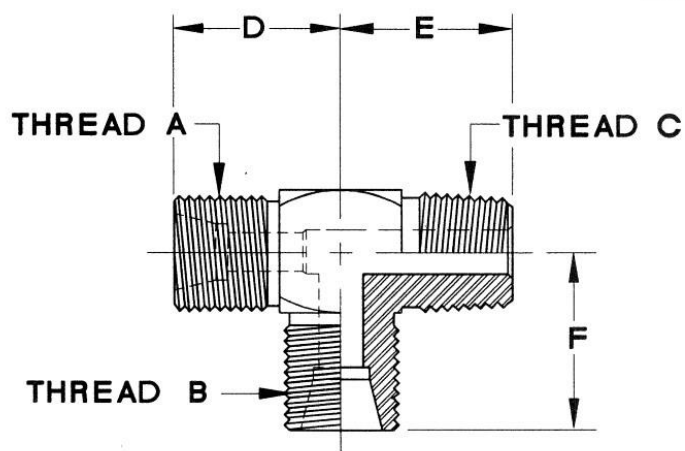
PART NO.	O.D.	THREAD A	THREAD B	DIM C
FL-100-04-02	0.25	7/16-20	1/8-27	1.12
FL-100-04-04	0.25	7/16-20	1/4-18	1.32
FL-100-06-04	0.38	9/16-18	1/4-18	1.34
FL-100-06-06	0.38	9/16-18	3/8-18	1.35
FL-100-08-06	0.50	3/4-16	3/8-18	1.44
FL-100-08-08	0.50	3/4-16	1/2-14	1.69
FL-100-10-08	0.63	7/8-14	1/2-14	1.75
FL-100-12-12	0.75	1 1/16-12	3/4-14	1.88
FL-100-16-12	1.00	1 5/16-12	3/4-14	1.88
FL-100-16-16	1.00	1 5/16-12	1-11 1/2	2.07
FL-100-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.18
FL-100-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.28
FL-100-32-32	2.00	2 1/2-12	2-11 1/2	2.46

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## **FL-120 SERIES**



### **FLARELESS MALE RUN TEE (080424)**

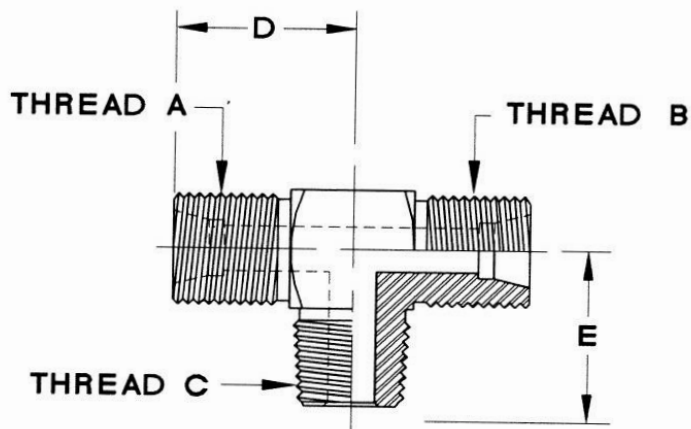
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
FL-120-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.78	0.89
FL-120-04-04-04	0.25	7/16-20	7/16-20	1/4-18	1.03	1.09	1.03
FL-120-05-05-02	0.31	1/2-20	1/2-20	1/8-27	0.95	0.81	0.95
FL-120-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.05	1.09	1.05
FL-120-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.25	1.22	1.25
FL-120-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.35	1.47	1.35
FL-120-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.42	1.47	1.42
FL-120-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.58	1.59	1.58
FL-120-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.73	1.97	1.73

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## **FL-130 SERIES**



### **FLARELESS MALE BRANCH TEE (080425)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
FL-130-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.78
FL-130-04-04-04	0.25	7/16-20	7/16-20	1/4-18	1.03	1.09
FL-130-05-05-02	0.31	1/2-20	1/2-20	1/8-27	0.95	0.78
FL-130-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.05	1.09
FL-130-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.25	1.22
FL-130-08-08-08	0.50	3/4-16	3/4-16	1/2-14	1.35	1.47
FL-130-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.42	1.47
FL-130-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.58	1.59
FL-130-14-14-12	0.88	1 3/16-12	1 3/16-12	3/4-14	1.66	1.66
FL-130-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.73	1.97
FL-130-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	1.89	2.38
FL-130-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.02	2.64
FL-130-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	2.45	3.00

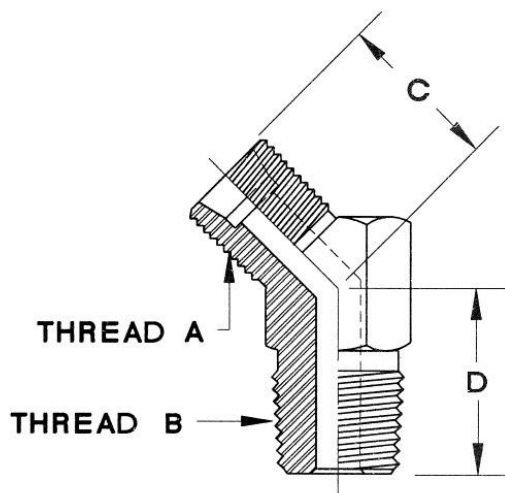
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## **FL-145 SERIES**



### **FLARELESS 45 DEGREE MALE ELBOW (080302)**

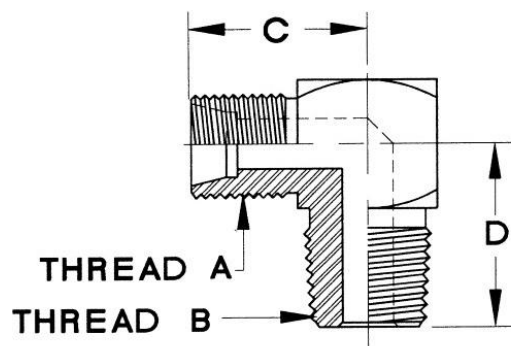
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
FL-145-04-02	0.25	7/16-20	1/8-27	0.70	0.64
FL-145-04-04	0.25	7/16-20	1/4-18	0.83	0.86
FL-145-05-02	0.31	1/2-20	1/8-27	0.75	0.64
FL-145-06-04	0.38	9/16-18	1/4-18	0.83	0.86
FL-145-08-06	0.50	3/4-16	3/8-18	0.98	0.95
FL-145-10-08	0.63	7/8-14	1/2-14	1.08	1.17
FL-145-12-12	0.75	1 1/16-12	3/4-14	1.27	1.20
FL-145-14-12	0.88	1 3/16-12	3/4-14	1.34	1.30
FL-145-16-16	1.00	1 5/16-12	1-11 1/2	1.36	1.48
FL-145-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1.45	1.67
FL-145-24-24	1.50	1 7/8-12	1 1/2-11 1/2	1.52	1.77
FL-145-32-32	2.00	2 1/2-12	2-11 1/2	1.83	2.11

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## **FL-190 SERIES**



### **FLARELESS 90 DEGREE MALE ELBOW**

(080202)

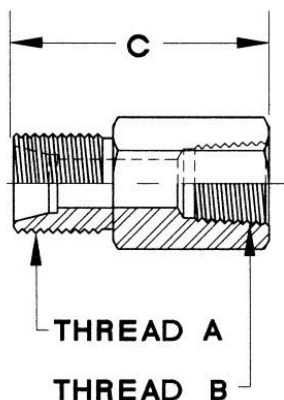
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
FL-190-02-02	0.13	5/16-24	1/8-27	0.77	0.72
FL-190-03-02	0.19	3/8-24	1/8-27	0.83	0.72
FL-190-04-02	0.25	7/16-20	1/8-27	0.89	0.78
FL-190-04-04	0.25	7/16-20	1/4-18	1.03	1.09
FL-190-05-02	0.31	1/2-20	1/8-27	0.95	0.78
FL-190-05-04	0.31	1/2-20	1/8-27	1.03	1.09
FL-190-06-04	0.38	9/16-18	1/4-18	1.05	1.09
FL-190-06-02	0.38	9/16-18	1/8-27	1.05	0.90
FL-190-06-06	0.38	9/16-18	3/8-18	1.14	1.22
FL-190-06-08	0.38	9/16-18	1/2-14	1.24	1.47
FL-190-08-04	0.50	3/4-16	1/4-18	1.22	1.22
FL-190-08-06	0.50	3/4-16	3/8-18	1.25	1.22
FL-190-08-08	0.50	3/4-16	1/2-14	1.35	1.47
FL-190-10-06	0.63	7/8-14	3/8-18	1.42	1.28
FL-190-10-08	0.63	7/8-14	1/2-14	1.42	1.47
FL-190-12-12	0.75	1 1/16-12	3/4-14	1.58	1.59
FL-190-12-08	0.75	1 1/16-12	1/2-14	1.58	1.59
FL-190-14-12	0.88	1 3/16-12	3/4-14	1.66	1.69
FL-190-16-12	1.00	1 5/16-12	3/4-14	1.73	1.78
FL-190-16-16	1.00	1 5/16-12	1-11 1/2	1.73	1.97
FL-190-20-20	1.25	1 5/8-12	1 1/4-11 1/2	1.89	2.38
FL-190-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.02	2.64
FL-190-32-32	2.00	2 1/2-12	2-11 1/2	2.45	3.00

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## **FL-200 SERIES**



### **FLARELESS FEMALE CONNECTOR (080103)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
FL-200-02-02	0.13	5/16-24	1/8-27	0.83
FL-200-04-02	0.25	7/16-20	1/8-27	1.09
FL-200-04-04	0.25	7/16-20	1/4-18	1.29
FL-200-05-02	0.31	1/2-20	1/8-27	1.08
FL-200-06-04	0.38	9/16-18	1/4-18	1.31
FL-200-06-06	0.38	9/16-18	3/8-18	1.34
FL-200-08-06	0.50	3/4-16	3/8-18	1.47
FL-200-08-04	0.50	3/4-16	1/4-18	1.47
FL-200-08-08	0.50	3/4-16	1/2-14	1.69
FL-200-10-08	0.63	7/8-14	1/2-14	1.77
FL-200-12-12	0.75	1 1/16-12	3/4-14	1.89
FL-200-14-12	0.88	1 3/16-12	3/4-14	1.86
FL-200-16-16	1.00	1 5/16-12	1-11 1/2	2.13
FL-200-20-20	1.25	1 5/8-12	1 1/4-11 1/2	2.22
FL-200-24-24	1.50	1 7/8-12	1 1/2-11 1/2	2.23
FL-200-32-32	2.00	2 1/2-12	2-11 1/2	2.31

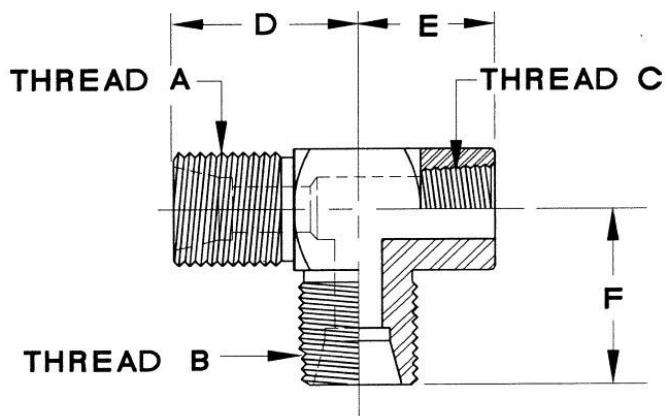
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## **FL-220 SERIES**



### **FLARELESS FEMALE RUN TEE (080426)**

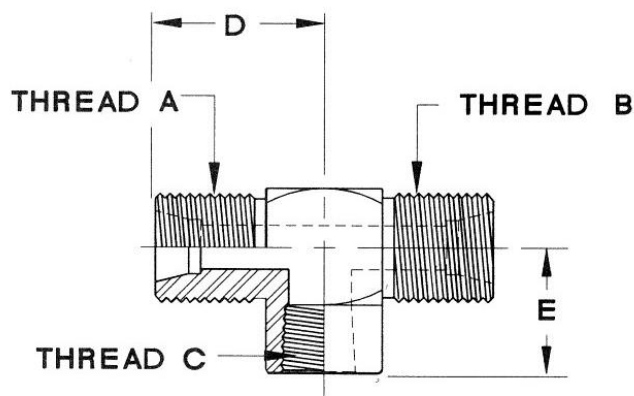
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
FL-220-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.66	0.89
FL-220-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.05	0.88	1.05
FL-220-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.23	1.02	1.23
FL-220-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.42	1.23	1.42
FL-220-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.58	1.36	1.58
FL-220-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.73	1.62	1.73
FL-220-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.08	1.70	2.08
FL-220-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.58	2.08	2.58
FL-220-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	2.64	2.39	2.64

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## **FL-230 SERIES**



### **FLARELESS FEMALE BRANCH TEE (080427)**

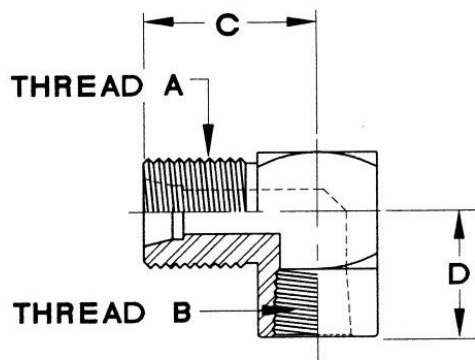
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
FL-230-04-04-02	0.25	7/16-20	7/16-20	1/8-27	0.89	0.66
FL-230-04-04-04	0.25	7/16-20	7/16-20	1/4-18	1.03	0.88
FL-230-06-06-04	0.38	9/16-18	9/16-18	1/4-18	1.05	0.88
FL-230-08-08-06	0.50	3/4-16	3/4-16	3/8-18	1.23	1.02
FL-230-10-10-08	0.63	7/8-14	7/8-14	1/2-14	1.42	1.23
FL-230-12-12-12	0.75	1 1/16-12	1 1/16-12	3/4-14	1.58	1.36
FL-230-16-16-16	1.00	1 5/16-12	1 5/16-12	1-11 1/2	1.73	1.62
FL-230-20-20-20	1.25	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.08	1.70
FL-230-24-24-24	1.50	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.58	2.08
FL-230-32-32-32	2.00	2 1/2-12	2 1/2-12	2-11 1/2	2.64	2.39

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## **FL-290 SERIES**



### **FLARELESS 90 DEGREE FEMALE ELBOW (080203)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>	<b>DIM D</b>
FL-290-04-02	0.25	7/16-20	1/8-27	0.66	0.89
FL-290-04-04	0.25	7/16-20	1/4-18	0.88	1.03
FL-290-05-02	0.31	1/2-20	1/8-27	0.66	0.95
FL-290-06-04	0.38	9/16-18	1/4-18	0.88	1.05
FL-290-06-06	0.38	9/16-18	3/8-18	1.02	1.12
FL-290-08-06	0.50	3/4-16	3/8-18	1.02	1.23
FL-290-08-08	0.50	3/4-16	1/2-14	1.23	1.35
FL-290-10-08	0.63	7/8-14	1/2-14	1.23	1.42
FL-290-12-12	0.75	1 1/16-12	3/4-14	1.36	1.58
FL-290-14-12	0.88	1 3/16-12	3/4-14	1.42	1.62
FL-290-16-16	1.00	1 5/16-12	1-11 1/2	1.62	1.73

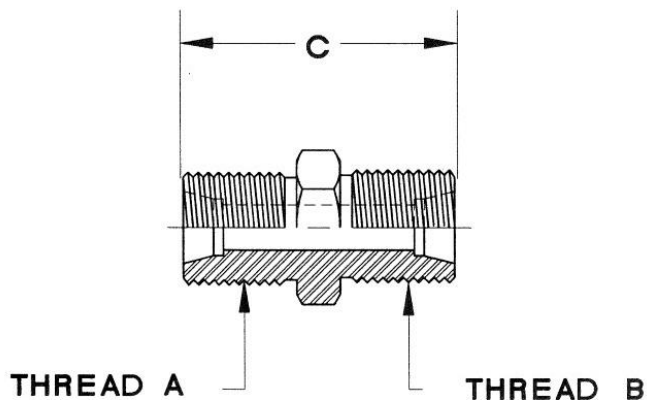
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## **FL-400SH SERIES**



### **FLARELESS UNION (080101)**

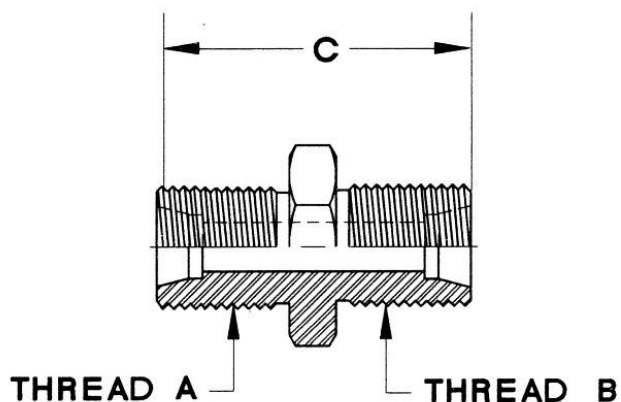
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
FL-400SH-02-02	0.13	5/16-24	5/16-24	1.02
FL-400SH-03-03	0.19	3/8-24	3/8-24	1.11
FL-400SH-04-04	0.25	7/16-20	7/16-20	1.09
FL-400SH-05-05	0.31	1/2-20	1/2-20	1.19
FL-400SH-06-06	0.38	9/16-18	9/16-18	1.24
FL-400SH-08-08	0.50	3/4-16	3/4-16	1.42
FL-400SH-10-10	0.63	7/8-14	7/8-14	1.61
FL-400SH-12-12	0.75	1 1/16-12	1 1/16-12	1.81
FL-400SH-14-14	0.88	1 3/16-12	1 3/16-12	1.81
FL-400SH-16-16	1.00	1 5/16-12	1 5/16-12	1.81
FL-400SH-20-20	1.25	1 5/8-12	1 5/8-12	1.89
FL-400SH-24-24	1.50	1 7/8-12	1 7/8-12	1.96
FL-400SH-32-32	2.00	2 1/2-12	2 1/2-12	2.11

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## **FL-410LH SERIES**



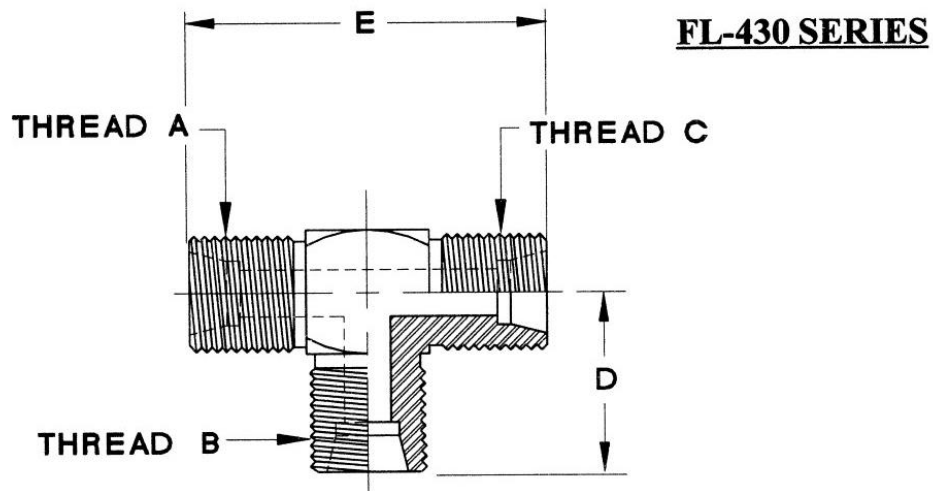
### **FLARELESS LARGE HEX UNION (080119)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>DIM C</b>
FL-410LH-04-04	0.25	7/16-20	7/16-20	1.19
FL-410LH-06-06	0.38	9/16-18	9/16-18	1.23
FL-410LH-08-08	0.50	3/4-16	3/4-16	1.42
FL-410LH-10-10	0.63	7/8-14	7/8-14	1.61
FL-410LH-12-12	0.75	1 1/16-12	1 1/16-12	1.81
FL-410LH-16-16	1.00	1 5/16-12	1 5/16-12	1.81
FL-410LH-20-20	1.25	1 5/8-12	1 5/8-12	1.89
FL-410LH-24-24	1.50	1 7/8-12	1 7/8-12	1.96
FL-410LH-32-32	2.00	2 1/2-12	2 1/2-12	2.11

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**FLARELESS UNION TEE**  
 (080401)

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>
FL-430-02-02-02	0.13	5/16-24	5/16-24	5/16-24	0.77	1.54
FL-430-03-03-03	0.19	3/8-24	3/8-24	3/8-24	0.84	1.68
FL-430-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	1.78
FL-430-05-05-05	0.31	1/2-20	1/2-20	1/2-20	0.95	1.90
FL-430-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.05	2.10
FL-430-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	2.50
FL-430-08-08-06	0.50	3/4-16	3/4-16	9/16-18	1.25	2.50
FL-430-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.42	2.84
FL-430-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.58	3.16
FL-430-14-14-14	0.88	1 3/16-12	1 3/16-12	1 3/16-12	1.66	3.32
FL-430-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.73	3.46
FL-430-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1.89	3.78
FL-430-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.02	4.04
FL-430-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2.45	4.90

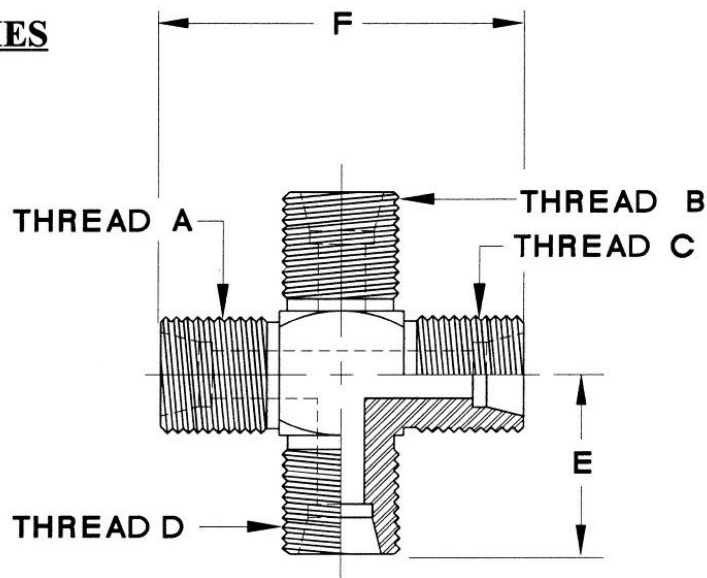
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## **FL-440 SERIES**



## **FLARELESS UNION CROSS**

(080501)

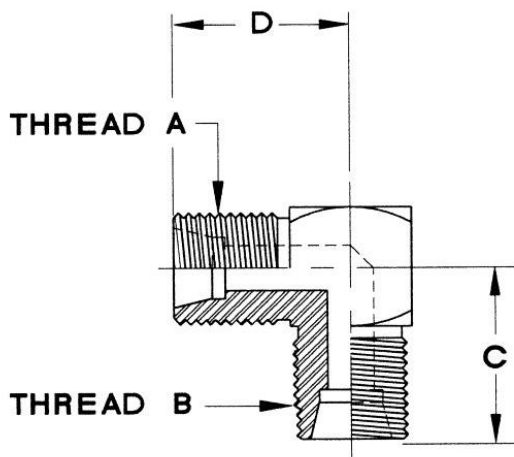
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>THREAD C</u></b>	<b><u>THREAD D</u></b>	<b><u>DIM E</u></b>	<b><u>DIM F</u></b>
FL-440-04-04-04-04	0.25	7/16-20	7/16-20	7/16-20	7/16-20	0.89	1.78
FL-440-06-06-06-06	0.38	9/16-18	9/16-18	9/16-18	9/16-18	1.05	2.10
FL-440-08-08-08-08	0.50	3/4-16	3/4-16	3/4-16	3/4-16	1.25	2.50
FL-440-10-10-10-10	0.63	7/8-14	7/8-14	7/8-14	7/8-14	1.42	2.84
FL-440-12-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	1.58	3.16
FL-440-16-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1 5/16-12	1.73	3.46
FL-440-20-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1 5/8-12	1.89	3.78
FL-440-24-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	1 7/8-12	2.02	4.04
FL-440-32-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2 1/2-12	2.45	4.90

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## **FL-490 SERIES**



### **FLARELESS 90 DEGREE UNION ELBOW (080201)**

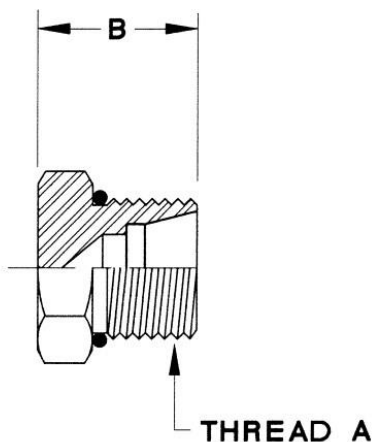
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
FL-490-04-04	0.25	7/16-20	7/16-20	0.89	0.89
FL-490-05-05	0.31	1/2-20	1/2-20	0.95	0.95
FL-490-06-06	0.38	9/16-18	9/16-18	1.05	1.05
FL-490-08-08	0.50	3/4-16	3/4-16	1.25	1.25
FL-490-10-10	0.63	7/8-14	7/8-14	1.42	1.42
FL-490-12-12	0.75	1 1/16-12	1 1/16-12	1.58	1.58
FL-490-14-14	0.88	1 3/16-12	1 3/16-12	1.62	1.62
FL-490-16-16	1.00	1 5/16-12	1 5/16-12	1.73	1.73
FL-490-20-20	1.25	1 5/8-12	1 5/8-12	1.89	1.89
FL-490-24-24	1.50	1 7/8-12	1 7/8-12	2.02	2.02
FL-490-32-32	2.00	2 1/2-12	2 1/2-12	2.45	2.45

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## **FL-510 SERIES**

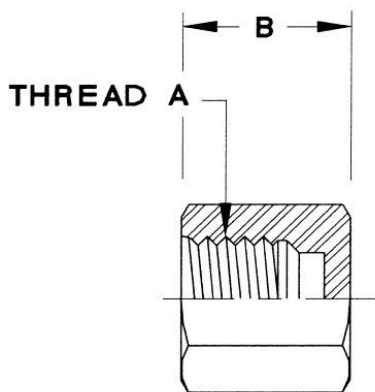


## **FLARELESS HEX HEAD O'RING PLUG (090109A)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>
FL-510-02	0.13	5/16-24	0.60
FL-510-04	0.25	7/16-20	0.71
FL-510-05	0.31	1/2-20	0.71
FL-510-06	0.38	9/16-18	0.75
FL-510-08	0.50	3/4-16	0.85
FL-510-10	0.63	7/8-14	0.97
FL-510-12	0.75	1 1/16-12	1.09
FL-510-14	0.88	1 3/16-12	1.09
FL-510-16	1.00	1 5/16-12	1.12
FL-510-20	1.25	1 5/8-12	1.20
FL-510-24	1.50	1 7/8-12	1.27
FL-510-32	2.00	2 1/2-12	1.43

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## **FL-520 SERIES**



## **FLARELESS CAP (080112)**

<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>DIM B</b>
FL-520-04	0.25	7/16-20	0.70
FL-520-06	0.38	9/16-18	0.75
FL-520-08	0.50	3/4-16	0.84
FL-520-10	0.63	7/8-14	0.92
FL-520-12	0.75	1 1/16-12	0.97
FL-520-16	1.00	1 5/16-12	1.05
FL-520-20	1.25	1 5/8-12	1.05

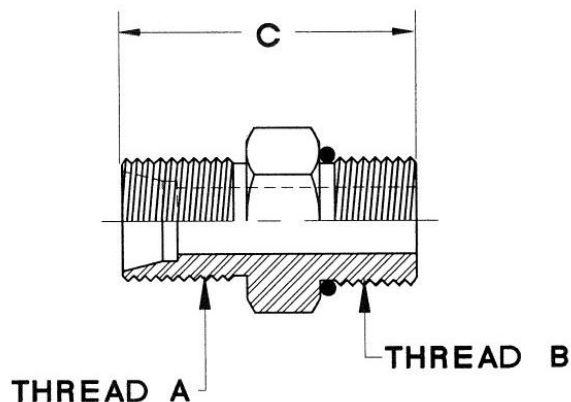
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## **FL-700 SERIES**



### **FLARELESS STRAIGHT THREAD O'RING MALE CONNECTOR (080120)**

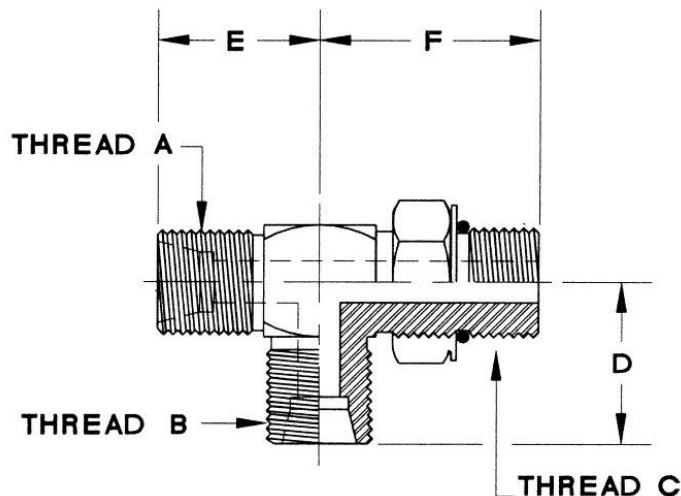
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>
FL-700-03-03	0.19	3/8-24	3/8-24	1.04
FL-700-04-04	0.25	7/16-20	7/16-20	1.13
FL-700-04-05	0.25	7/16-20	1/2-20	1.13
FL-700-04-06	0.25	7/16-20	9/16-18	1.19
FL-700-05-05	0.31	1/2-20	1/2-20	1.13
FL-700-06-06	0.38	9/16-18	9/16-18	1.21
FL-700-06-08	0.38	9/16-18	3/4-16	1.28
FL-700-08-08	0.50	3/4-16	3/4-16	1.38
FL-700-08-10	0.50	3/4-16	7/8-14	1.50
FL-700-08-12	0.50	3/4-16	1 1/16-12	1.67
FL-700-10-10	0.63	7/8-14	7/8-14	1.57
FL-700-12-12	0.75	1 1/16-12	1 1/16-12	1.79
FL-700-12-16	0.75	1 1/16-12	1 5/16-12	1.79
FL-700-16-12	1.00	1 5/16-12	1 1/16-12	1.82
FL-700-16-16	1.00	1 5/16-12	1 5/16-12	1.82
FL-700-20-20	1.25	1 5/8-12	1 5/8-12	1.90
FL-700-24-24	1.50	1 7/8-12	1 7/8-12	1.97
FL-700-32-32	2.00	2 1/2-12	2 1/2-12	2.13

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## **FL-720 SERIES**



### **FLARELESS STRAIGHT THREAD O'RING RUN TEE (080428)**

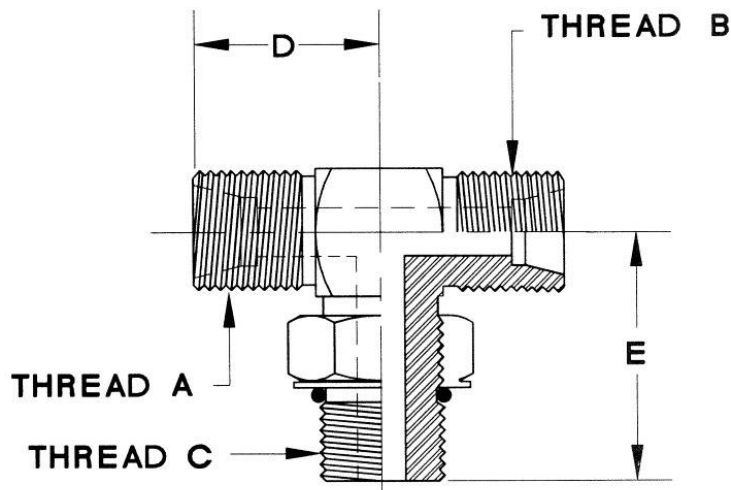
<b>PART NO.</b>	<b>O.D.</b>	<b>THREAD A</b>	<b>THREAD B</b>	<b>THREAD C</b>	<b>DIM D</b>	<b>DIM E</b>	<b>DIM F</b>
FL-720-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	0.89	1.03
FL-720-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.05	1.05	1.25
FL-720-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.25	1.25	1.45
FL-720-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.42	1.42	1.70
FL-720-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.58	1.58	1.94
FL-720-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.73	1.73	2.05
FL-720-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1.89	1.89	2.25
FL-720-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.02	2.02	2.39
FL-720-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2.45	2.45	2.89

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## FL-730 SERIES



### FLARELESS STRAIGHT THREAD O'RING BRANCH TEE (080429)

PART NO.	O.D.	THREAD A	THREAD B	THREAD C	DIM D	DIM E
FL-730-04-04-04	0.25	7/16-20	7/16-20	7/16-20	0.89	1.03
FL-730-06-06-06	0.38	9/16-18	9/16-18	9/16-18	1.05	1.25
FL-730-08-08-08	0.50	3/4-16	3/4-16	3/4-16	1.27	1.45
FL-730-10-10-10	0.63	7/8-14	7/8-14	7/8-14	1.42	1.70
FL-730-12-12-12	0.75	1 1/16-12	1 1/16-12	1 1/16-12	1.58	1.94
FL-730-16-16-16	1.00	1 5/16-12	1 5/16-12	1 5/16-12	1.73	2.05
FL-730-20-20-20	1.25	1 5/8-12	1 5/8-12	1 5/8-12	1.89	2.25
FL-730-24-24-24	1.50	1 7/8-12	1 7/8-12	1 7/8-12	2.02	2.39
FL-730-32-32-32	2.00	2 1/2-12	2 1/2-12	2 1/2-12	2.45	2.89

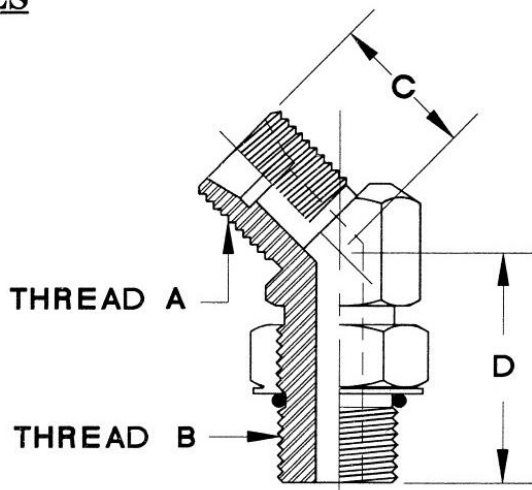
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## **FL-745 SERIES**



### **FLARELESS STRAIGHT THREAD O'RING 45 DEGREE ELBOW (080320)**

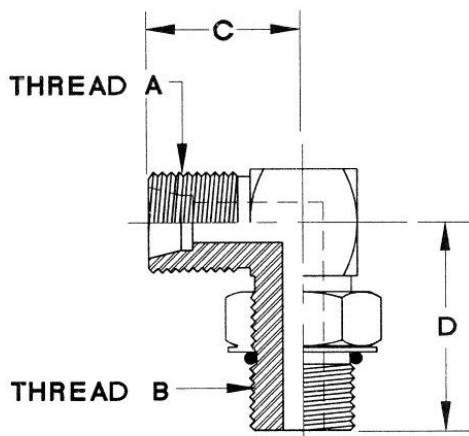
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>
FL-745-04-04	0.25	7/16-20	7/16-20	0.70	1.05
FL-745-06-06	0.38	9/16-18	9/16-18	0.83	1.14
FL-745-08-08	0.50	3/4-16	3/4-16	0.98	1.30
FL-745-10-10	0.63	7/8-14	7/8-14	1.08	1.52
FL-745-12-12	0.75	1 1/16-12	1 1/16-12	1.27	1.73
FL-745-16-16	1.00	1 5/16-12	1 5/16-12	1.36	1.86
FL-745-20-20	1.25	1 5/8-12	1 5/8-12	1.45	1.91
FL-745-24-24	1.50	1 7/8-12	1 7/8-12	1.52	1.91
FL-745-32-32	2.00	2 1/2-12	2 1/2-12	1.83	1.86

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## **FL-790 SERIES**



### **FLARELESS 90 DEGREE STRAIGHT THREAD O'RING ELBOW (080220)**

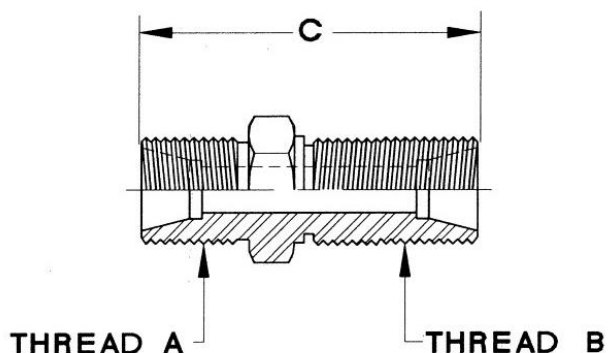
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>DIM C</u>	<u>DIM D</u>
FL-790-04-04	0.25	7/16-20	7/16-20	0.89	1.03
FL-790-05-05	0.31	1/2-20	1/2-20	0.97	1.09
FL-790-06-06	0.38	9/16-18	9/16-18	1.05	1.25
FL-790-08-08	0.50	3/4-16	3/4-16	1.27	1.45
FL-790-10-10	0.63	7/8-14	7/8-14	1.42	1.70
FL-790-12-12	0.75	1 1/16-12	1 1/16-12	1.58	1.94
FL-790-16-16	1.00	1 5/16-12	1 5/16-12	1.73	2.05
FL-790-20-20	1.25	1 5/8-12	1 5/8-12	1.89	2.05
FL-790-24-24	1.50	1 7/8-12	1 7/8-12	2.02	2.39
FL-790-32-32	2.00	2 1/2-12	2 1/2-12	2.45	2.89

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## **FL-1000 SERIES**



### **FLARELESS BULKHEAD UNION (080601)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>DIM C</u></b>
FL-1000-04-04	0.25	7/16-20	7/16-20	1.89
FL-1000-06-06	0.38	9/16-18	9/16-18	1.98
FL-1000-08-08	0.50	3/4-16	3/4-16	2.22
FL-1000-10-10	0.63	7/8-14	7/8-14	2.48
FL-1000-12-12	0.75	1 1/16-12	1 1/16-12	2.72
FL-1000-16-16	1.00	1 5/16-12	1 5/16-12	2.77
FL-1000-20-20	1.25	1 5/8-12	1 5/8-12	2.80
FL-1000-24-24	1.50	1 7/8-12	1 7/8-12	2.87
FL-1000-32-32	2.00	2 1/2-12	2 1/2-12	3.23

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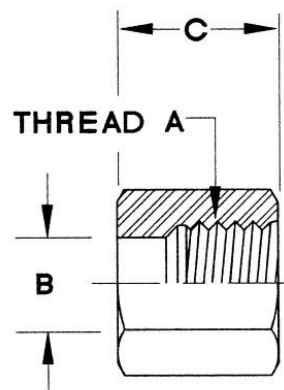
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## FLARELESS NUT (080110)

PART NO.	O.D.	THREAD A	DIM B	DIM C
FL-1801-02	0.13	5/16-24	0.13	0.53
FL-1801-03	0.19	3/8-24	0.20	0.61
FL-1801-04	0.25	7/16-20	0.26	0.70
FL-1801-05	0.31	1/2-20	0.32	0.72
FL-1801-06	0.38	9/16-18	0.38	0.75
FL-1801-08	0.50	3/4-16	0.51	0.84
FL-1801-10	0.63	7/8-14	0.63	0.92
FL-1801-12	0.75	1 1/16-12	0.76	0.97
FL-1801-14	0.88	1 3/16-12	0.88	1.00
FL-1801-16	1.00	1 5/16-12	1.01	1.05
FL-1801-20	1.25	1 5/8-12	1.26	1.05
FL-1801-24	1.50	1 7/8-12	1.51	1.03
FL-1801-32	2.00	2 1/2-12	2.01	1.12

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## FL-1801 SERIES

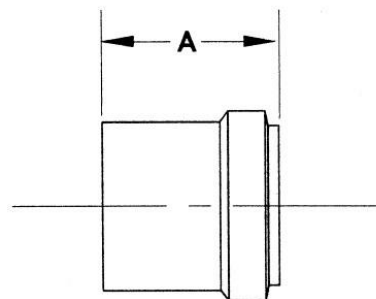


## FLARELESS FERRULE (080115A)

PART NO.	O.D.	DIM A
FL-1802-02	0.13	0.29
FL-1802-03	0.19	0.28
FL-1802-04	0.25	0.34
FL-1802-05	0.31	0.34
FL-1802-06	0.38	0.38
FL-1802-08	0.50	0.38
FL-1802-10	0.63	0.42
FL-1802-12	0.75	0.42
FL-1802-14	0.88	0.42
FL-1802-16	1.00	0.42
FL-1802-20	1.25	0.42
FL-1802-24	1.50	0.42
FL-1802-32	2.00	0.45

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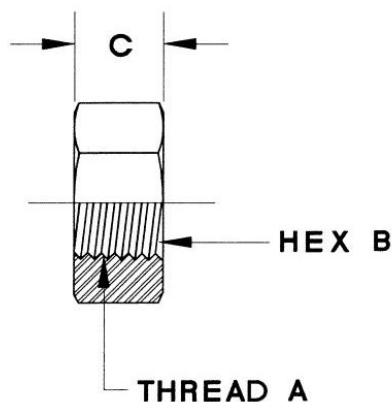
## FL-1802 SERIES





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## **FL-1805 SERIES**



### **FLARELESS BULKHEAD NUT (080118)**

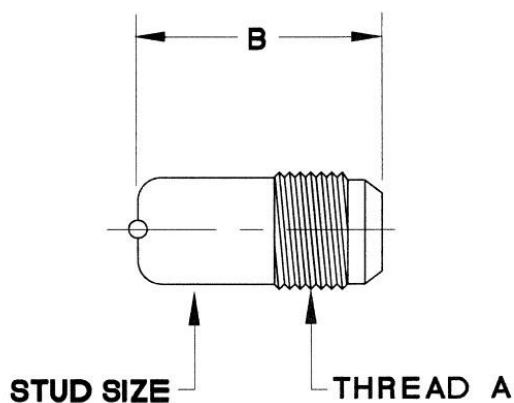
<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>HEX B</u></b>	<b><u>DIM C</u></b>
FL-1805-04	0.25	7/16-20	0.69	0.25
FL-1805-06	0.38	9/16-18	0.81	0.27
FL-1805-08	0.50	3/4-16	1.00	0.31
FL-1805-10	0.63	7/8-14	1.13	0.36
FL-1805-12	0.75	1 1/16-12	1.38	0.41
FL-1805-16	1.00	1 5/16-12	1.63	0.41
FL-1805-20	1.25	1 5/8-12	1.88	0.41
FL-1805-24	1.50	1 7/8-12	2.13	0.41
FL-1805-32	2.00	2 1/2-12	2.75	0.41

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**CYLINDER FITTINGS**  
**SW-100 SERIES**



**STUD WELD FITTING**  
**STRAIGHT MALE FLARE TO STUD**  
**(NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>STUD SIZE</u>	<u>DIM B</u>	<u>AFTER WELD B</u>
SW-100-06	0.38	9/16-18	0.50	0.94	0.81
SW-100-08	0.50	3/4-16	0.63	1.15	1.02
SW-100-10	0.63	7/8-14	0.88	3.40	3.25

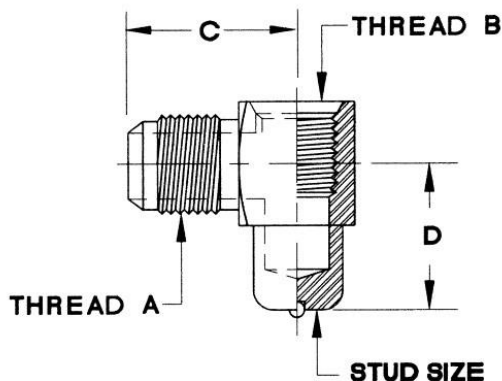
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## **SW-190 SERIES**

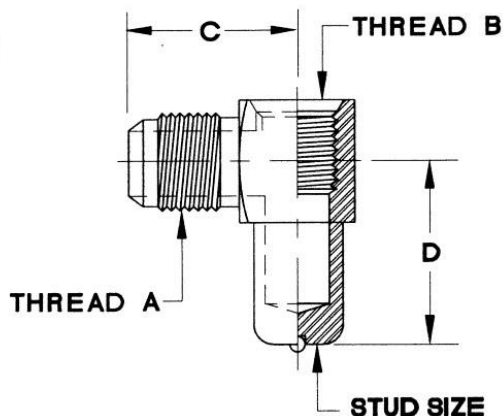


### **STUD WELD FITTING 90 DEGREE MALE FLARE TO STUD (NON STANDARD)**

<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>STUD SIZE</u>	<u>DIM C</u>	<u>DIM D</u>	<u>AFTER WELD D</u>
SW-190-06	0.38	9/16-18	3/8-24	0.50	0.88	0.75	0.58
SW-190-08	0.50	3/4-16	9/16-18	0.63	1.09	0.94	0.84
SW-190-10	0.63	7/8-14	9/16-18	0.88	1.39	1.39	0.98

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## **SW-190L SERIES**



### **STUD WELD FITTING 90 DEGREE LONG MALE FLARE TO STUD (NON STANDARD)**

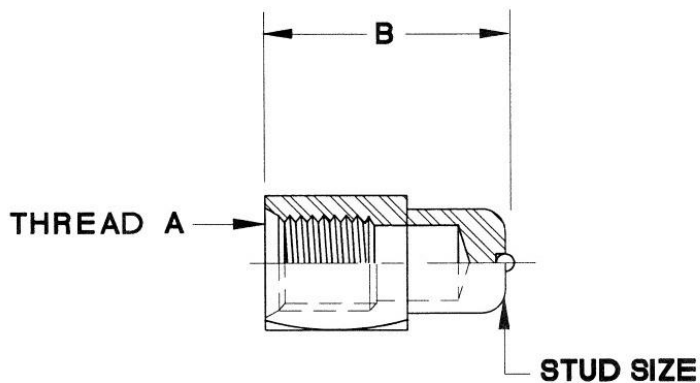
<u>PART NO.</u>	<u>O.D.</u>	<u>THREAD A</u>	<u>THREAD B</u>	<u>STUD SIZE</u>	<u>DIM C</u>	<u>DIM D</u>	<u>AFTER WELD D</u>
SW-190L-06	0.38	9/16-18	3/8-24	0.50	0.88	1.37	1.20
SW-190L-08	0.50	3/4-16	9/16-18	0.63	1.09	2.17	2.00
SW-190L-10	0.63	7/8-14	9/16-18	0.88	1.39	2.22	2.06

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**SW-200 SERIES**



**STUD WELD FITTING  
STRAIGHT FEMALE O'RING PORT TO STUD  
(NON STANDARD)**

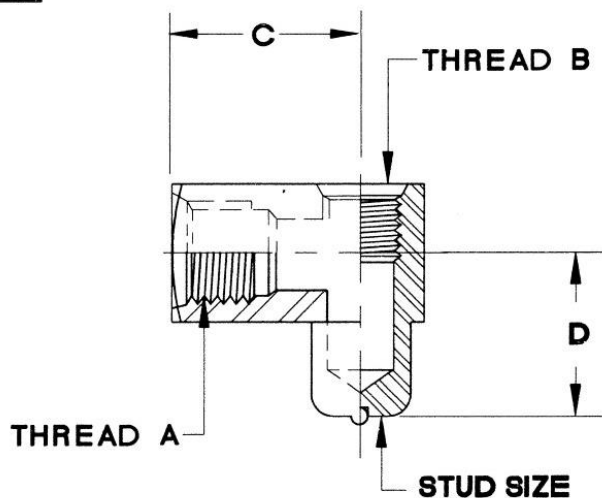
PART NO.	O.D.	THREAD A	STUD SIZE	DIM B	AFTER WELD B
SW-200-08	0.50	3/4-16	.625	1.44	1.32

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## **SW-290 SERIES**



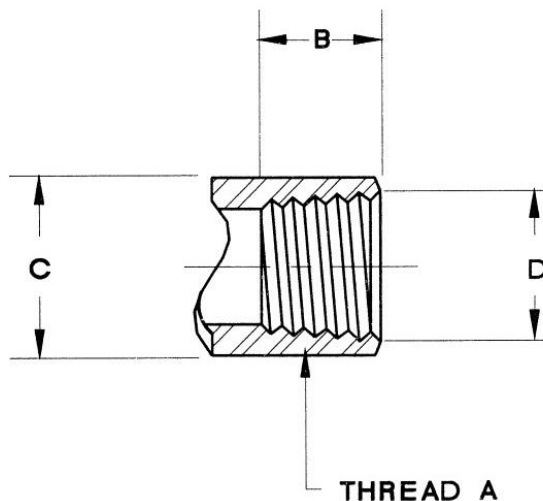
### **STUD WELD FITTING 90 DEGREE FEMALE O'RING BOSS TO STUD (NON STANDARD)**

<b><u>PART NO.</u></b>	<b><u>O.D.</u></b>	<b><u>THREAD A</u></b>	<b><u>THREAD B</u></b>	<b><u>STUD SIZE</u></b>	<b><u>DIM C</u></b>	<b><u>DIM D</u></b>	<b><u>AFTER WELD D</u></b>
SW-290-04	0.25	7/16-20	5/16-24	0.50	0.88	0.81	0.71
SW-290-06	0.38	9/16-18	7/16-20	0.63	0.94	0.94	0.84
SW-290-10	0.63	7/8-14	7/16-20	0.63	1.19	1.06	0.94

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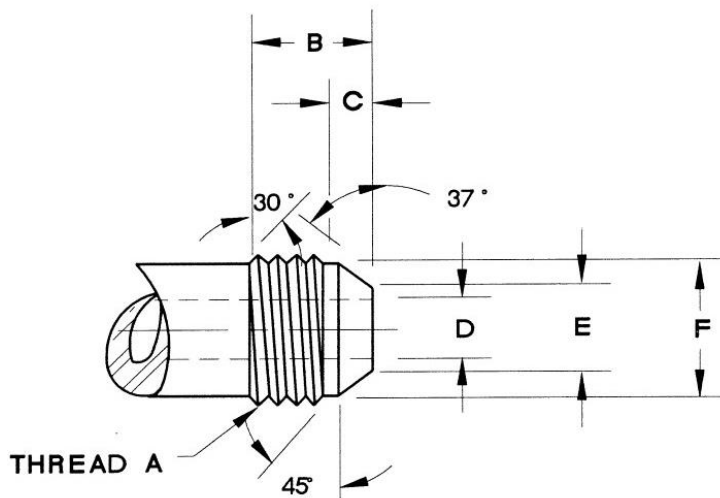
### FEMALE PIPE THREAD

A Female NPTF	B Full Thread	C Hole Diameter		D 90 Degree Countersink	
		Min.	Max.	Min.	Max.
1/8-27	0.31	0.331	0.335	0.406	0.422
1/4-18	0.47	0.429	0.433	0.547	0.563
3/8-18	0.50	0.569	0.573	0.672	0.688
1/2-14	0.66	0.695	0.699	0.844	0.859
3/4-14	0.66	0.905	0.909	1.047	1.063
1-11 1/2	0.78	1.139	1.143	1.313	1.328
1 1/4-11 1/2	0.81	1.483	1.487	1.656	1.672
1 1/2-11 1/2	0.81	1.717	1.721	1.906	1.922
2-11 1/2	0.81	2.202	2.206	2.375	2.391





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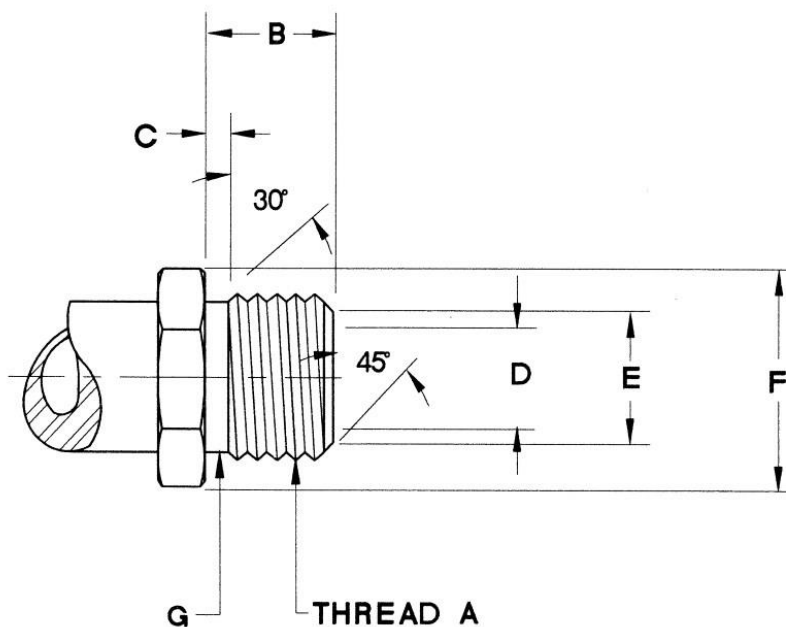


### J.I.C.-37 DEGREE-SAE FLARE

A U.N.F.-2A Straight Thread	B Full Thread	C Nose Length		D Hole Diameter		E Nose Diameter		F Diameter	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5/16-24	0.43	0.177	0.192	0.059	0.065	0.080	0.086	0.240	0.245
3/8-24	0.46	0.177	0.192	0.122	0.128	0.143	0.149	0.302	0.307
7/16-20	0.54	0.193	0.208	0.169	0.175	0.190	0.196	0.354	0.359
1/2-20	0.54	0.193	0.208	0.231	0.237	0.252	0.258	0.416	0.421
9/16-18	0.54	0.198	0.213	0.293	0.301	0.315	0.321	0.471	0.476
3/4-16	0.64	0.253	0.268	0.387	0.395	0.423	0.429	0.649	0.654
7/8-14	0.74	0.266	0.281	0.480	0.488	0.536	0.542	0.762	0.767
1 1/16-12	0.85	0.315	0.330	0.604	0.614	0.661	0.667	0.933	0.938
1 3/16-12	0.88	0.315	0.330	0.713	0.723	0.785	0.791	1.058	1.063
1 5/16-12	0.90	0.315	0.330	0.839	0.851	0.910	0.916	1.183	1.188
1 5/8-12	0.94	0.367	0.382	1.073	1.086	1.144	1.150	1.496	1.501
1 7/8-12	1.07	0.378	0.393	1.307	1.320	1.378	1.384	1.745	1.750
2 1/2-12	1.32	0.461	0.476	1.776	1.791	1.877	1.883	2.370	2.375



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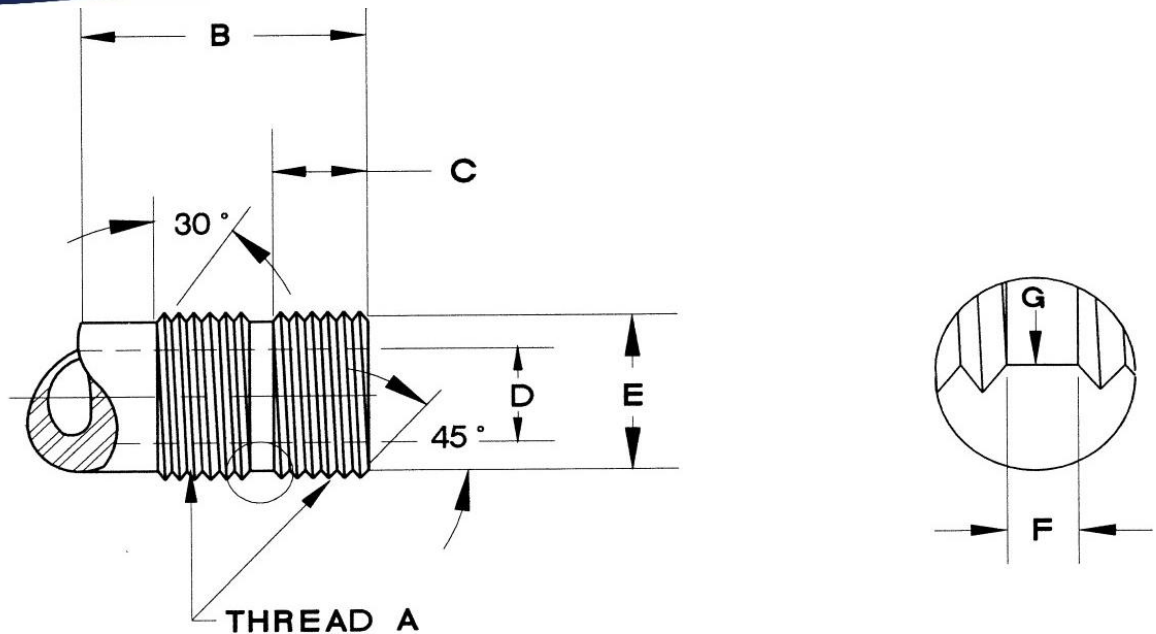


### MALE O'RING BOSS

A U.N.F.-2A Thread	B End to Hexagon		C Groove Width		D Hole Diameter		E Chamfer Diameter		F Chamfer Diameter		G Groove Diameter	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5/16-24	0.292	0.302	0.063	0.078	0.059	0.065	0.245	0.255	0.433	0.443	0.247	0.252
3/8-24	0.292	0.302	0.063	0.078	0.122	0.128	0.305	0.315	0.495	0.505	0.310	0.315
7/16-20	0.355	0.365	0.075	0.090	0.169	0.175	0.360	0.370	0.558	0.568	0.361	0.366
1/2-20	0.355	0.365	0.075	0.090	0.231	0.237	0.420	0.430	0.620	0.630	0.424	0.429
9/16-18	0.386	0.396	0.083	0.098	0.293	0.301	0.475	0.485	0.683	0.693	0.479	0.484
3/4-16	0.433	0.443	0.094	0.109	0.387	0.395	0.655	0.665	0.870	0.880	0.657	0.662
7/8-14	0.495	0.505	0.107	0.122	0.480	0.488	0.770	0.780	0.995	1.005	0.770	0.775
1 1/16-12	0.589	0.599	0.125	0.140	0.604	0.614	0.940	0.950	1.245	1.255	0.942	0.947
1 3/16-12	0.589	0.599	0.125	0.140	0.713	0.723	1.065	1.075	1.370	1.380	1.067	1.072
1 5/16-12	0.589	0.599	0.125	0.140	0.839	0.851	1.190	1.200	1.495	1.505	1.192	1.197
1 5/8-12	0.589	0.599	0.125	0.140	1.073	1.086	1.500	1.510	1.870	1.880	1.504	1.509
1 7/8-12	0.589	0.599	0.125	0.140	1.307	1.320	1.750	1.760	2.120	2.130	1.753	1.758
2 1/2-12	0.589	0.599	0.125	0.140	1.776	1.791	2.375	2.385	2.745	2.755	2.378	2.383



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**THREAD A**

NOTE: TIGHT SLIP FIT FOR WASHER  
 .0005 MAXIMUM CLEARANCE

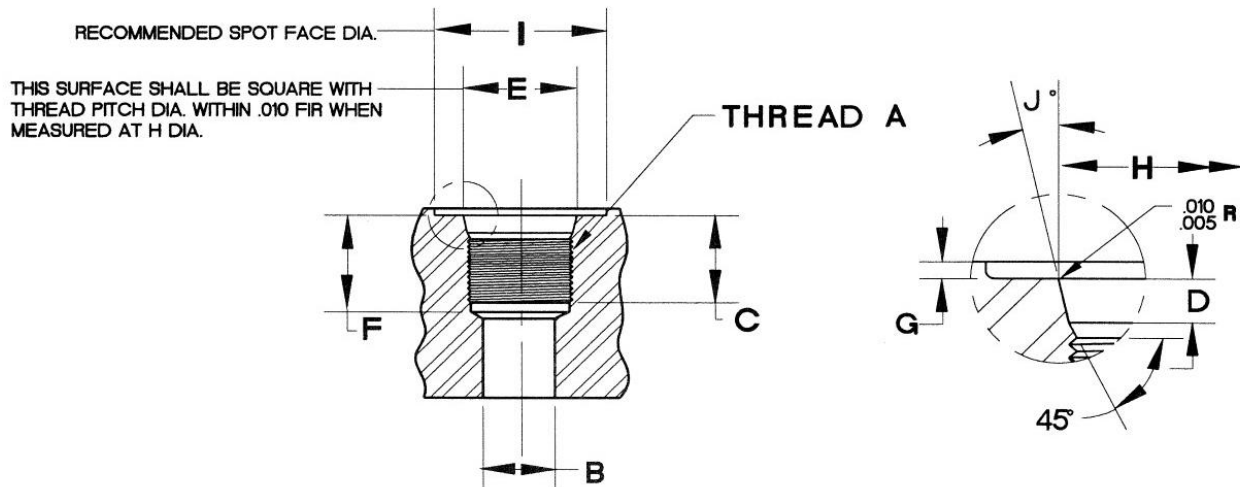
### ADJUSTABLE STRAIGHT THREAD

A U.N.F.-2A Thread	B Full Thread		C Full Thread		D Hole Diameter		E Chamfer Diameter		F Groove Width		G Groove Diameter	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5/16-24	0.59	0.63	0.229	0.239	0.059	0.065	0.245	0.255	0.125	0.135	0.247	0.252
3/8-24	0.59	0.63	0.229	0.239	0.122	0.128	0.305	0.315	0.131	0.141	0.310	0.315
7/16-20	0.68	0.72	0.276	0.286	0.169	0.175	0.360	0.370	0.140	0.150	0.361	0.366
1/2-20	0.68	0.72	0.276	0.286	0.231	0.237	0.420	0.430	0.140	0.150	0.424	0.429
9/16-18	0.75	0.79	0.307	0.317	0.293	0.301	0.475	0.485	0.156	0.166	0.479	0.484
3/4-16	0.86	0.90	0.339	0.349	0.387	0.395	0.655	0.665	0.187	0.197	0.657	0.662
7/8-14	1.00	1.04	0.386	0.396	0.480	0.488	0.770	0.780	0.219	0.229	0.770	0.775
1 1/16-12	1.14	1.18	0.464	0.474	0.604	0.614	0.940	0.950	0.234	0.244	0.942	0.947
1 3/16-12	1.14	1.18	0.464	0.474	0.713	0.723	1.065	1.075	0.234	0.244	1.067	1.072
1 5/16-12	1.14	1.18	0.464	0.474	0.839	0.851	1.190	1.200	0.234	0.244	1.192	1.197
1 5/8-12	1.14	1.18	0.464	0.474	1.073	1.086	1.500	1.510	0.234	0.244	1.504	1.509
1 7/8-12	1.14	1.18	0.464	0.474	1.307	1.320	1.750	1.760	0.234	0.244	1.753	1.758
2 1/2-12	1.14	1.18	0.464	0.474	1.776	1.791	2.375	2.385	0.234	0.244	2.378	2.383





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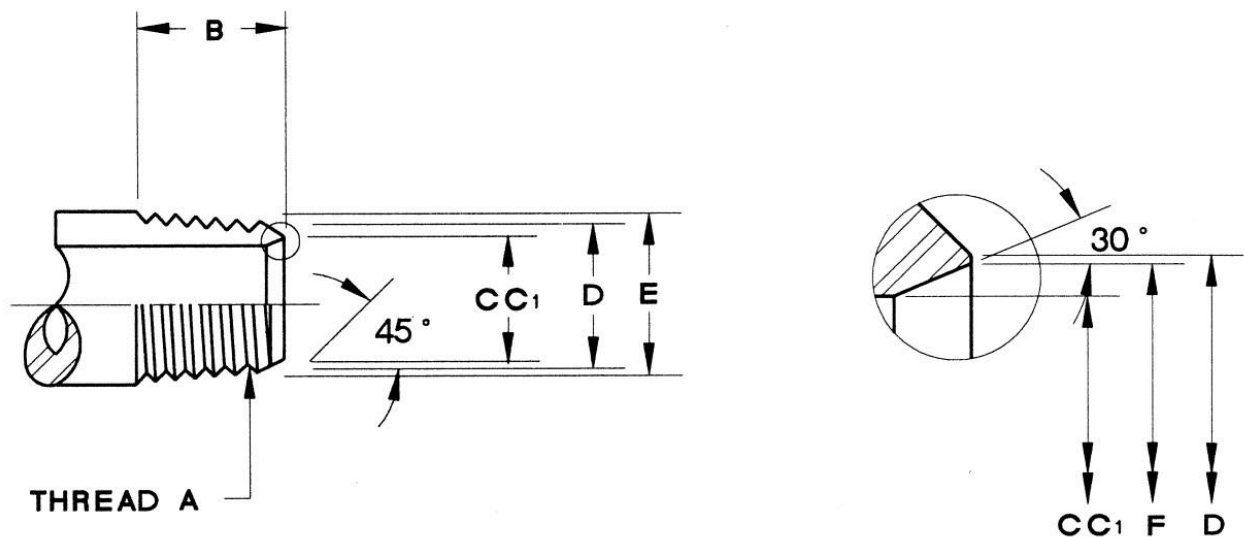
### FEMALE O'RING BOSS

A Female U.N.F. -2B	B Hole Diameter Min.	C Full Thread Min.	D Seat Depth		E Diameter Min.	F Drill Depth Min.	G Spot- Face Max.	H Counterbore Diameter		I Spot- Face Diameter	J Seat Angle	
			Min.	Max.				Min.	Max.		Min.	Max.
5/16-24	0.06	0.39	.076	.089	0.43	0.47	0.062	0.359	0.361	0.67	11	13
3/8-24	0.14	0.39	.076	.089	0.52	0.47	0.062	0.422	0.424	0.75	11	13
7/16-20	0.18	0.45	.095	.109	0.59	0.55	0.062	0.489	0.491	0.83	11	13
1/2-20	0.24	0.45	.095	.109	0.63	0.55	0.062	0.552	0.554	0.91	11	13
9/16-18	0.30	0.50	.099	.113	0.71	0.61	0.062	0.617	0.619	0.98	11	13
3/4-16	0.39	0.56	.099	.113	0.87	0.69	0.094	0.811	0.813	1.18	14	16
7/8-14	0.49	0.66	.099	.113	1.02	0.79	0.094	0.943	0.945	1.34	14	16
1 1/16-12	0.63	0.75	.130	.144	1.26	0.91	0.094	1.148	1.150	1.61	14	16
1 3/16-12	0.71	0.75	.130	.144	1.38	0.91	0.094	1.274	1.276	1.77	14	16
1 5/16-12	0.83	0.75	.130	.144	1.50	0.91	0.134	1.398	1.400	1.93	14	16
1 5/8-12	1.06	0.75	.130	.144	1.89	0.91	0.134	1.713	1.715	2.28	14	16
1 7/8-12	1.30	0.75	.130	.144	2.13	0.91	0.134	1.963	1.965	2.56	14	16
2 1/2-12	1.77	0.75	.130	.144	2.76	0.91	0.134	2.587	2.589	3.46	14	16





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### MALE PIPE THREAD

A NPTF Male Thread	B Thread Length		C Hole Diameter Drill	C <sub>1</sub> Optional Hole Diameter		D Chamfer Diameter		E O.D. At Small End		F Optional Seat Diameter	
	Min.	Max.		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/8-27	0.38	0.41	0.19	0.110	0.190	0.313	0.328	0.393	0.396	0.271	0.291
1/4-18	0.56	0.59	0.28	0.210	0.230	0.406	0.422	0.523	0.526	0.334	0.354
3/8-18	0.56	0.59	0.41	0.320	0.360	0.547	0.563	0.658	0.661	0.459	0.479
1/2-14	0.75	0.78	0.53	0.440	0.480	0.672	0.688	0.820	0.823	0.615	0.635
3/4-14	0.75	0.78	0.72	0.610	0.660	0.891	0.906	1.029	1.032	0.803	0.823
1-11 1/2	0.94	0.97	0.94	0.780	0.880	1.109	1.125	1.289	1.292	1.021	1.041
1 1/4-11 1/2	0.97	1.00	1.25	1.010	1.160	1.453	1.469	1.633	1.636	1.334	1.354
1 1/2-11 1/2	1.00	1.03	1.50	1.250	1.380	1.672	1.688	1.872	1.875	1.553	1.573
2-11 1/2	1.03	1.06	1.94	1.720	1.880	2.141	2.156	2.345	2.348	2.053	2.073