

Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Thread Size-B	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11-1/2	1-1/4-11-1/2	1-1/2-11-1/2	2-11-1/2

### Forged Fittings and Adaptors

Pipe Fittings 3000 Series Pressure Rating Chart

Connection Type	End Size								
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Male Pipe (NPTF)	6000	5000	5000	4000	4000	4000	3000	2500	2500
Female Pipe (NPTF)	5000	5000	4000	3000	2500	2000	1500	1500	1000

### Brazed Fittings (TF)

Pipe Fittings 3000 Series Pressure Rating Chart

Connection Type	End Size								
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Male Pipe (NPTF)	5000	5000	4000	3000	2500	2000	1150	1000	1000
Female Pipe (NPTF)	5000	5000	4000	3000	2500	2000	1150	1000	1000

Rated pressures are for low surge, static type applications.

#### Typical Application

Grease, instrumentation and most hydraulic systems.

#### Pressure

Refer to the pressure charts above. The maximum working pressure of an adaptor is the lower working pressure of the end size. Ex: C3069x8x6, 8 = 4000 psi and 6 = 5000 psi. Maximum working pressure is 4000 psi.

#### Vibration

Fair resistance.

#### Temperature Range

-65°F to +400°F (-53°C to +204°C).

#### Material

Carbon Steel - AISI/SAE 12L14  
Stainless Steel - type 316  
Plating - Zinc, yellow dichromate finish ASTM B633 Type II.

#### Used With

Steel, brass, bronze and iron pipe.

#### Advantages

Dryseal pipe threads (NPTF) (SAE J476), zinc plate, compact size. Broad range of sizes and styles.

#### Conformance

Meets SAE specifications.

#### How to Order

Order individually by catalog number. Example: C3069x4. To order with Weathercote finish (black phosphate coating), use "W" prefix in place of "C". Example: W3069x4 (special order only). To order with pipe sealant (Seal-A-Thread), add a "Z" suffix to the catalog number. Example: C3069x4Z (special order only).

Weatherhead fittings with a "C" prefix are made from a forged construction. Example: C3609x4. Weatherhead fittings with a "TF" prefix are made from a brazed construction. Example: TF3609x4.

#### NOTE

Refer to current price list for availability of cataloged items. Quotations and delivery of non-stock items supplied upon request. Configurations and dimensions subject to change without notice. Additional information can be found in SAE J514.

#### Assembly Instructions

Tighten approximately 2-1/2 turns past finger tight. On all shaped fittings, such as elbows and tees, tighten approximately 2 turns past finger tight and orient the fitting on the third turn. **NOTE:** Backing off for orientation after completing the tightening process, may cause the thread sealing method on these pipe threads to leak!

#### Welding procedures

Use electric weldrod AWS-E7018. Recommended procedure specifies using lower amperage than usual and puddling of molten metal to permit gases created by lead in steel to work through molten lead deposit.

Label Set: **FS-2000** (adhesive)

## Seal-Nut

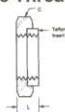


Teflon® is a registered trademark of DuPont.

### SPECIFICATIONS FOR "SEAL NUT"

- **Material:** All Weatherhead "Seal-Nuts" are precision machined from 12L14 steel; insert is made of molded virgin Teflon®.
- **Pressure:** Refer to pressure charts on previous page.
- **Temp. Range:** Designed to operate satisfactorily from -100°F to +500°F.
- Makes every pipe connection leakproof.
- Permits positioning of pipe elbows and tees full 360° without overtightening.
- Thread seal-nut on pipe thread. Tighten pipe elbows and tees to proper position, then tighten seal nut for positive seal.
- Eliminates leaks on all pipe threads – Dry Seal or standard. No pipe compound required. Quick, easy installations in cramped quarters where wrench clearance is limited.
- "Seal-Nuts" are an economical substitute for straight thread O-ring boss fittings using original female pipe ports. "Seal-Nuts" give you positive seal on directional fittings like tees and elbows without distorting mounting bosses or damaging expensive valves and pumps.
- **Assembly Instructions:**
  1. Thread Seal-Nut on to the pipe threads until 4 threads protrude beyond the Teflon seal.
  2. Thread fitting a minimum of 3 full threads into port. Continue turning fitting to desired position.
  3. Tighten seal-nut against the port with light to medium torque to provide a positive seal. Torque required will vary with application.

## Seal-Nut for Male Pipe Threads



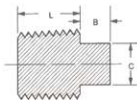
Pipe Thread	Catalog Number	Hex C	L
1/8	C3059x2	5/8	.15
1/4	C3059x4	3/4	.25
3/8	C3059x6	7/8	.25
1/2	C3059x8	1-1/8	.25
3/4	C3059x12	1-5/16	.25
1	C3059x16	1-5/8	.34

## Hex Socket Plug



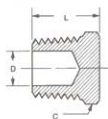
Male Pipe Thread	Catalog Number	Socket Hex	L
1/16	C3169x1	5/32	.31
1/8	C3169x2	3/16	.30
1/4	C3169x4	1/4	.46

## Square Head Plug



Male Pipe Thread	Catalog Number	B	C	L
1/8	C3179x2	.25	9/32	.34
1/4	C3179x4	.29	3/8	.51
3/8	C3179x6	.32	7/16	.51
1/2	C3179x8	.40	9/16	.68
3/4	C3179x12	.46	5/8	.69
1	C3179x16	.52	13/16	.85

## Hex Head Plug Stainless Steel No. 3171x

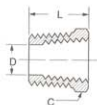


Male Pipe Thread	Catalog Number	Hex C	L	D Opt. Dia.
1/8	C3159x2*	7/16	.56	.156
1/4	C3159x4*	9/16	.68	.250
3/8	C3159x6*	11/16	.78	.375
1/2	C3159x8*	7/8	.98	.500
3/4	C3159x12	1-1/8	1.06	.690
1	C3159x16	1-3/8	1.25	.875
1-1/4	C3159x20	1-3/4	1.56	—
1-1/2	C3159x24	2	1.62	—
2	C3159x32	2-1/2	1.75	—

\* Available in stainless steel.

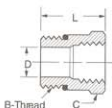
## Bushing

Stainless Steel No. 3121x  
(Ref. SAE No. 140140)



Male Pipe Thread	Female Pipe Thread	Catalog Number	Hex C	D	L
1/4	1/8	C3109x4x2*	5/8	.322	.85
3/8	1/8	C3109x6x2*	3/4	.332	.85
3/8	1/4	C3109x6x4*	3/4	.438	.85
1/2	1/8	C3109x8x2*	7/8	.332	1.10
1/2	1/4	C3109x8x4*	7/8	.438	1.10
1/2	3/8	C3109x8x6*	7/8	.562	1.10
3/4	1/4	C3109x12x4*	1-1/8	.438	1.17
3/4	3/8	C3109x12x6*	1-1/8	.562	1.17
3/4	1/2	C3109x12x8*	1-1/8	.703	1.17
1	3/8	C3109x16x6	1-3/8	.562	1.36
1	1/2	C3109x16x8*	1-3/8	.703	1.36
1	3/4	C3109x16x12*	1-3/8	.922	1.36
1-1/4	1/2	C3109x20x8	1-3/4	.703	1.47
1-1/4	3/4	C3109x20x12*	1-3/4	.922	1.47
1-1/4	1	C3109x20x16*	1-3/4	1.156	1.47
1-1/2	3/4	C3109x24x12	2	.906	1.58
1-1/2	1	C3109x24x16	2	1.141	1.58
1-1/2	1-1/4	C3109x24x20	2	1.500	1.57
2	1-1/4	C3109x32x20	2-1/2	1.484	1.75
2	1-1/2	C3109x32x24	2-1/2	1.719	1.75

## Straight Thread O-Ring to Female Pipe Adapter

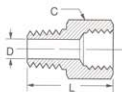


Male Port Size	Female Pipe Thread	Catalog Number	Straight Thread B	Hex C	D	L
1/4	1/8	C3269x4x2	7/16-20	9/16	.172	.97
1/4	1/4	C3269x4x4	7/16-20	3/4	.172	1.16
5/16	1/8	C3269x5x2	1/2-20	5/8	.234	.94
3/8	1/4	C3269x6x4	9/16-18	3/4	.297	1.09
3/8	3/8	C3269x6x6	9/16-18	7/8	.281	1.30
3/8	1/2	C3269x6x8	9/16-18	1-1/8	.281	1.44
1/2	1/4	C3269x8x4	3/4-16	7/8	.421	1.06
1/2	3/8	C3269x8x6	3/4-16	7/8	.421	1.22
1/2	1/2	C3269x8x8	3/4-16	1-1/16	.421	1.50
5/8	1/4	C3269x10x4	7/8-14	1	.422	.81
5/8	3/8	C3269x10x6	7/8-14	1	.500	1.25
5/8	1/2	C3269x10x8	7/8-14	1-1/8	.500	1.50
5/8	3/4	C3269x10x12	7/8-14	1-3/8	.500	1.62
3/4	1/2	C3269x12x8	1-1/16-12	1-1/4	.688	1.34
3/4	3/4	C3269x12x12	1-1/16-12	1-3/8	.656	1.66
7/8	3/4	C3269x14x12	1-3/16-12	1-3/8	.718	1.63
1	1/2	C3269x16x8	1-5/16-12	1-1/2	.688	1.00
1	3/4	C3269x16x12	1-5/16-12	1-1/2	.876	1.50
1	1	C3269x16x16	1-5/16-12	1-5/8	.876	1.88
1-1/4	1	C3269x20x16	1-5/8-12	1-7/8	1.080	1.00
1-1/4	1-1/4	C3269x20x20	1-5/8-12	2	1.080	1.94
1-1/2	1-1/2	C3269x24x24	1-7/8-12	2-3/8	1.312	1.88
2	2	C3269x32x32	2-1/2-12	2-7/8	1.781	1.91

Replacement o-rings page 147.

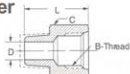
## Adapter

Stainless Steel No. 3221x  
(Ref. SAE 140139)



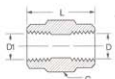
Female Pipe Thread	Male Pipe Thread	Catalog Number	Hex C	D	L
1/4	1/8	C3209x4x2*	3/4	.188	1.21
3/8	1/4	C3209x6x4*	7/8	.281	1.44
1/2	1/8	C3209x8x2*	1-1/8	.188	1.50
1/2	1/4	C3209x8x4*	1-1/8	.281	1.68
1/2	3/8	C3209x8x6*	1-1/8	.406	1.68
3/4	1/4	C3209x12x4*	1-3/8	.281	1.78
3/4	1/2	C3209x12x8*	1-3/8	.531	1.93
1	1/2	C3209x16x8*	1-5/8	.562	2.09
1	3/4	C3209x16x12*	1-5/8	.719	2.18
1-1/4	1	C3209x20x16	2	.938	2.46
1-1/2	1-1/4	C3209x24x20	2-3/8	1.25	2.50
2	1-1/2	C3209x32x24	2-7/8	1.500	2.63

## Female Straight Thread O-Ring to Male Pipe Adapter



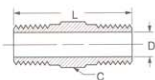
Fem. Port Size	Male Pipe Thread	Catalog Number	Straight Thread B	Hex C	D	L
3/8	3/8	C3239x6x6	9/16-18	13/16	.406	1.38
3/8	1/2	C3239x6x8	9/16-18	7/8	.500	1.61
1/2	3/8	C3239x8x6	3/4-16	1	.406	1.46
1/2	1/2	C3239x8x8	3/4-16	1	.562	1.69
5/8	1/2	C3239x10x8	7/8-14	1-1/4	.531	1.81

## Coupling Stainless Steel No. 3321x (Ref. SAE No. 140138)



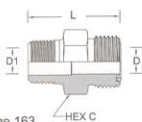
Fem. Pipe Thread	Fem. Pipe Thread	Catalog Number	Hex C	D	D1	L
1/8	1/8	C3309x2*	5/8	.332	.332	.75
1/4	1/8	C3309x4x2*	3/4	.437	.332	1.13
1/4	1/4	C3309x4*	3/4	.437	.437	1.13
3/8	1/4	C3309x6x4*	7/8	.562	.437	1.13
3/8	3/8	C3309x6*	7/8	.562	.562	1.13
1/2	1/4	C3309x8x4*	1-1/8	.687	.437	1.50
1/2	3/8	C3309x8x6*	1-1/8	.687	.562	1.50
1/2	1/2	C3309x8*	1-1/8	.687	.687	1.50
3/4	1/2	C3309x12x8	1-3/8	.906	.687	1.53
3/4	3/4	C3309x12*	1-3/8	.906	.906	1.53
1	3/4	C3309x16x12	1-5/8	1.125	.906	1.89
1	1	C3309x16*	1-5/8	1.125	1.125	1.89
1-1/4	1-1/4	C3309x20	2	1.468	1.468	1.93
1-1/2	1-1/2	C3309x24	2-3/8	1.703	1.703	1.93
2	2	C3309x32	2-7/8	2.188	2.188	1.96

## Hex Nipple Stainless Steel No. 3081x (Ref. SAE No. 140137)



Male Pipe Thread	Male Pipe Thread	Catalog Number	Hex C	D	L
1/16	1/16	C3069x1	5/16	.141	.940
1/8	1/16	C3069x2x1	7/16	.141	.970
1/8	1/8	C3069x2*	7/16	.188	1.06
1/4	1/8	C3069x4x2*	5/8	.188	1.26
1/4	1/4	C3069x4*	5/8	.281	1.45
3/8	1/8	C3069x6x2*	3/4	.188	1.26
3/8	1/4	C3069x6x4*	3/4	.281	1.45
3/8	3/8	C3069x6*	3/4	.406	1.45
1/2	1/4	C3069x8x4*	7/8	.281	1.70
1/2	3/8	C3069x8x6*	7/8	.406	1.70
1/2	1/2	C3069x8*	7/8	.531	1.89
3/4	1/2	C3069x12x8*	1-1/8	.531	1.96
3/4	3/4	C3069x12*	1-1/8	.719	1.96
1	3/4	C3069x16x12	1-3/8	.719	2.16
1	1	C3069x16*	1-3/8	.938	2.34
1-1/4	1-1/4	C3069x20	1-3/4	1.250	2.48
1-1/2	1-1/2	C3069x24	2	1.500	2.61
2	2	C3069x32	2-1/2	1.938	2.83

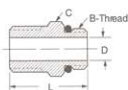
## Male For-Seal® to Male Pipe Adapter



Replacement O-rings page 163.

Tube O.D.	Male Pipe Thread	Catalog Number	Hex C	D	D1	L
3/8	3/8	4205x6x6	3/4	.264	.406	1.30
1/2	3/8	4205x8	7/8	.378	.406	1.45
1/2	1/2	4205x8x8	7/8	.378	.484	1.64
5/8	1/2	4205x10	1-1/16	.484	.531	1.82
3/4	1/2	4205x12x8	1-1/4	.406	.484	1.87
3/4	3/4	4205x12	1-1/4	.609	.719	1.94
3/4	1	4205x12x16	1-3/8	.609	.938	1.87
1	1	4205x16	1-1/2	.811	.938	2.19
1-1/4	1-1/4	4205x20	1-3/4	1.024	1.250	2.30

## Male Straight Thread O-Ring to Male Pipe Adapter

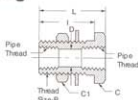


Replacement O-rings page 147.

Male Port Size	Male Pipe Thread	Catalog Number	Straight Thread B	Hex C	D	L
1/4	1/8	C3249x4x2	7/16-20	9/16	.172	1.05
3/8	1/4	C3249x6x4	9/16-18	11/16	.281	1.30
1/2	3/8	C3249x8x6	3/4-16	7/8	.391	1.36
1/2	1/2	C3249x8x8	3/4-16	7/8	.391	1.55
5/8	1/2	C3249x10x8	7/8-14	1	.434	1.69
3/4	3/4	C3249x12x12	1-1/16-12	1-1/4	.609	1.73
1	1	C3249x16x16	1-5/16-12	1-1/2	.844	2.06
1-1/4	1-1/4	C3249x20x20	1-5/8-12	1-7/8	1.078	2.17
1-1/2	1-1/2	C3249x24x24	1-7/8-12	2-1/8	1.312	2.26
2	2	C3249x32x32	2-1/2-12	2-7/8	1.781	2.47

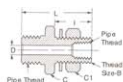
\* Available in stainless steel.

## Bulkhead Coupling



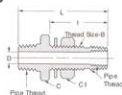
Fem. Pipe Thread	Catalog Number	Thread Size B	Hex C	Hex C1	D	I	L
1/4	W05465	3/4-16	1	15/16	.422	1.25	1.50
1/4	W21204	3/4-16	1	15/16	.422	.69	.94
3/8	W17709	1-14	1-1/8	1-3/8	.563	1.06	1.31

## Bulkhead Coupling



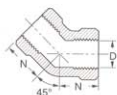
Male Pipe Thread	Fem. Pipe Thread	Catalog Number	Thread Size B	Hex C	Hex C1	D	I	L
1/2	1/4	W05498	3/4-16	1-1/4	1-1/16	.312	1.13	2.16
1/2	1/4	W05499	3/4-16	1-1/4	1-1/16	.312	1.53	2.53

## Bulkhead Coupling



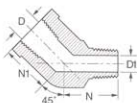
Male Pipe Thread	Fem. Pipe Thread	Catalog Number	Thread Size B	Hex C	Hex C1	D	I	L
1/2	1/4	W05730	1-14	1-1/4	1-3/8	.375	1.91	2.94
1/2	1/4	W23464	1-14	1-1/4	1-3/8	.375	2.88	3.94

## 45° Female Elbow (Ref. SAE No. 140338)



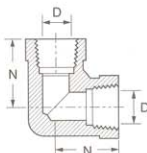
Fem. Pipe Thread	Catalog Number	D	N	Across Flats
1/4	C3359x4	.437	.69	3/4
3/8	C3359x6	.562	.750	7/8
1/2	C3359x8	.687	.940	1-1/16
3/4	C3359x12	.906	1.000	1-5/16
1	C3359x16	1.125	1.190	1-5/8
1/4	TF3359x4	.437	.620	3/4

## 45° Street Elbow Stainless Steel No. 3371x (Ref. SAE No. 140339)

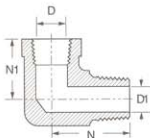


Fem. Pipe Thread	Male Pipe Thread	Catalog Number	D	D1	N1	N	Across Flats
1/8	1/8	C3359x2*	.332	.188	.47	.72	9/16
1/4	1/4	C3359x4*	.437	.281	.62	1.05	3/4
3/8	3/8	C3359x6*	.562	.406	.72	1.10	7/8
1/2	1/2	C3359x8*	.687	.531	.91	1.34	1-1/16
3/4	3/4	C3359x12*	.906	.719	.97	1.38	1-5/16
1	1	C3359x16*	1.125	.938	1.12	1.72	1-5/8
1/8	1/8	TF3359x2	.332	.188	.47	.72	5/8
1/4	1/4	TF3359x4	.437	.281	.62	1.05	3/4
3/8	3/8	TF3359x6	.562	.406	.72	1.10	7/8
1/2	1/2	TF3359x8	.687	.531	.91	1.34	1-1/8
3/4	3/4	TF3359x12	.906	.719	.97	1.38	1-3/8
1	1	TF3359x16	1.125	.938	1.12	1.72	1-5/8
1-1/4	1-1/4	TF3359x20	1.468	1.250	1.63	1.80	2
1-1/2	1-1/2	TF3359x24	1.734	1.500	1.69	2.06	2-3/8
2	2	TF3359x32	2.188	1.938	2.30	2.15	2-1/2

\* Available in stainless steel.

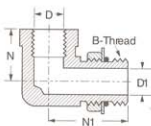
**90° Female Elbow**  
 Stainless Steel No. 3521x  
 (Ref. SAE No. 140238)


Fem. Pipe Thread	Fem. Pipe Thread	Catalog Number	D	N	Across Flats
1/8	1/8	C3509x2*	.332	.66	9/16
1/4	1/4	C3509x4*	.437	.88	3/4
3/8	3/8	C3509x6*	.562	1.02	7/8
1/2	1/2	C3509x8*	.687	1.23	1-1/16
3/4	3/4	C3509x12*	.906	1.36	1-5/16
1	1	C3509x16	1.125	1.62	1-5/8
1-1/4	1-1/4	C3509x20	1.468	1.70	1-7/8
2	2	C3509x32	2.188	2.39	2-3/16
1/8	1/8	TF3509x2	.332	.66	5/8
1/4	1/8	TF3509x4x2	.343	.88	3/4
1/4	1/4	TF3509x4	.437	.88	3/4
3/8	1/4	TF3509x6x4	.437	1.02	7/8
3/8	3/8	TF3509x6	.562	1.02	7/8
1/2	3/8	TF3509x8x6	.562	1.23	1-1/8
1/2	1/2	TF3509x8	.687	1.23	1-1/8
3/4	1/2	TF3509x12x8	.687	1.23	1-3/8
3/4	3/4	TF3509x12	.906	1.36	1-3/8
1	1	TF3509x16	1.125	1.62	1-5/8
1-1/4	1-1/4	TF3509x20	1.468	1.70	2
1-1/2	1-1/2	TF3509x24	1.734	2.08	2-3/8

**90° Street Elbow**  
 Stainless Steel No. 3421x  
 (Ref. SAE No. 140239)


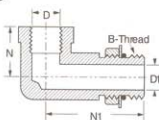
Male Pipe Thread	Fem. Pipe Thread	Catalog Number	D	D1	N	N1	Across Flats
1/8	1/8	C3409x2*	.332	.188	.78	.66	9/16
1/4	1/4	C3409x4*	.437	.281	1.09	.88	3/4
3/8	3/8	C3409x6*	.562	.406	1.22	1.02	7/8
1/2	1/2	C3409x8*	.687	.531	1.47	1.23	1-1/16
3/4	3/4	C3409x12*	.906	.719	1.59	1.36	1-5/16
1	1	C3409x16*	1.125	.938	1.97	1.62	1-5/8
1-1/4	1-1/4	C3409x20	1.468	1.250	2.38	1.70	1-7/8
2	2	C3409x32	2.188	1.930	3.00	2.39	2-13/16
1/8	1/8	TF3409x2	.332	.188	.78	.66	5/8
1/8	1/4	TF3409x2x4	.437	.188	.91	.88	3/4
1/4	1/8	TF3409x4x2	.332	.281	1.09	.67	5/8
1/4	1/4	TF3409x4	.437	.281	1.09	.88	3/4
1/4	3/8	TF3409x4x6	.562	.281	1.22	1.02	7/8
3/8	1/4	TF3409x6x4	.437	.406	1.22	.91	13/16
3/8	3/8	TF3409x6	.562	.406	1.22	1.02	7/8
3/8	1/2	TF3409x6x8	.687	.406	1.38	1.23	1-1/8
1/2	3/8	TF3409x8x6	.562	.531	1.47	1.05	15/16
1/2	1/2	TF3409x8	.687	.531	1.47	1.23	1-1/8
1/2	3/4	TF3409x8x12	.906	.531	1.59	1.23	1-3/8
3/4	1/2	TF3409x12x8	.687	.719	1.59	1.23	1-1/8
3/4	3/4	TF3409x12	.906	.719	1.59	1.36	1-3/8
1	1	TF3409x16	1.125	.938	1.97	1.62	1-5/8
1-1/4	1-1/4	TF3409x20	1.468	1.250	2.38	1.70	2
1-1/2	1-1/2	TF3409x24	1.734	1.500	2.64	2.08	2-3/8

\* Available in stainless steel.

90° Straight Thread O-Ring  
Female Elbow

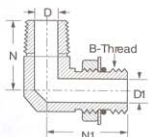
Replacement O-rings page 147.

Male Port Size	Fem. Pipe Thread	Catalog Number	Straight Thread B	D	D1	N	N1	Across Flats
1/2	3/8	C3459x8	3/4-16	.562	.422	.63	1.47	7/8
5/8	1/2	C3459x10	7/8-14	.687	.500	.75	1.81	1-1/16
3/4	3/4	C3459x12	1-1/16-12	.906	.656	.81	2.00	1-5/16
1	1	C3459x16	1-5/16-12	1.125	.876	1.00	2.25	1-5/8
1/4	1/8	TF3459x4	7/16-20	.332	.172	.66	1.09	5/8
5/16	1/8	TF3459x5	1/2-20	.332	.234	.66	1.13	5/8
3/8	1/4	TF3459x6	9/16-18	.437	.297	.88	1.31	3/4
1/2	3/8	TF3459x8	3/4-16	.562	.391	1.02	1.49	7/8
5/8	1/2	TF3459x10	7/8-14	.687	.484	1.23	1.80	1-1/8
3/4	3/4	TF3459x12	1-1/16-12	.906	.609	1.36	2.06	1-3/8
7/8	3/4	TF3459x14	1-3/16-12	.906	.719	1.42	2.06	1-3/8
1	1	TF3459x16	1-5/16-12	1.125	.844	1.62	2.17	1-5/8
1-1/4	1-1/4	TF3459x20	1-5/8-12	1.468	1.078	1.70	2.38	2
1-1/2	1-1/2	TF3459x24	1-7/8-12	1.703	1.312	2.08	2.58	2-3/8
2	2	TF3459x32	2-1/2-12	2.180	1.781	2.39	3.02	2-7/8

90° Straight Thread O-Ring  
Female Elbow Long

Replacement O-rings page 147.

Male Port Size	Fem. Pipe Thread	Catalog Number	Straight Thread B	D	D1	N	N1	Across Flats
1/2	3/8	C3469x8	3/4-16	.562	.422	.63	2.94	7/8
5/8	1/2	C3469x10	7/8-14	.687	.500	.75	3.56	1-1/16
3/4	3/4	C3469x12	1-1/16-12	.906	.656	.81	4.13	1-5/16
1	1	C3469x16	1-5/16-12	1.125	.876	1.00	4.63	1-5/8

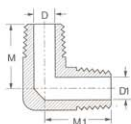
90° Straight Thread O-Ring  
Male Elbow to Male Pipe

Replacement O-rings page 147.

Male Port Size	Male Pipe Thread	Catalog Number	Straight Thread B	D	D1	N	N1	Across Flats
1/4	1/8	TF3569x4	7/16-20	.172	.188	.78	1.03	1/2
5/16	1/8	TF3569x5	1/2-20	.234	.188	.78	1.09	9/16
3/8	1/4	TF3569x6	9/16-18	.297	.281	1.09	1.25	5/8
1/2	3/8	TF3569x8	3/4-16	.391	.406	1.22	1.45	13/16
5/8	1/2	TF3569x10	7/8-14	.484	.531	1.47	1.70	15/16
3/4	3/4	TF3569x12	1-1/16-12	.609	.719	1.59	1.94	1-1/8
7/8	3/4	TF3569x14	1-3/16-12	.719	.719	1.69	2.00	1-1/4
1	1	TF3569x16	1-5/16-12	.844	.938	1.97	2.05	1-3/8
1-1/4	1-1/4	TF3569x20	1-5/8-12	1.078	1.250	2.38	2.25	1-3/4
1-1/2	1-1/2	TF3569x24	1-7/8-12	1.312	1.500	2.64	2.39	2
2	2	TF3569x32	2-1/2-12	1.781	1.938	3.00	2.89	2-5/8

**90° Male Elbow**

Stainless Steel No. 3541x

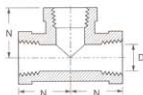


Male Pipe Thread	Male Pipe Thread	Catalog Number	D	D1	M	M1	Across Flats
1/8	1/8	C3529x2*	.188	.188	.78	.78	7/16
1/4	1/4	C3529x4*	.281	.281	1.09	1.09	9/16
3/8	3/8	C3529x6*	.406	.406	1.22	1.22	3/4
1/2	1/2	C3529x8	.531	.531	1.47	1.47	7/8
3/4	3/4	C3529x12	.719	.719	1.59	1.59	1-1/16
1/8	1/8	TF3529x2	.188	.188	.78	.78	1/2
1/4	1/4	TF3529x4	.281	.281	1.09	1.09	5/8
3/8	1/4	TF3529x6x4	.406	.281	1.28	1.19	13/16
3/8	3/8	TF3529x6	.406	.406	1.21	1.21	13/16
1/2	3/8	TF3529x8x6	.531	.406	1.47	1.28	15/16
1/2	1/2	TF3529x8	.531	.531	1.47	1.47	15/16
3/4	1/2	TF3529x12x8	.719	.531	1.59	1.56	1-1/8
3/4	3/4	TF3529x12	.719	.719	1.59	1.59	1-1/8
1	3/4	TF3529x16x12	.938	.719	1.97	1.72	1-3/8
1	1	TF3529x16	.938	.938	1.97	1.97	1-3/8
1-1/4	1-1/4	TF3529x20	1.250	1.250	2.38	2.38	1-3/4
1-1/2	1-1/2	TF3529x24	1.938	1.938	2.64	2.64	2

**Tee**

Stainless Steel No. 3721x

(Ref. SAE No. 140438)

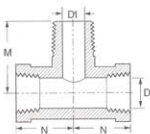


Fem. Pipe Thread	Catalog Number	D	N	Across Flats
1/8	C3709x2*	.332	.66	9/16
1/4	C3709x4*	.437	.88	3/4
3/8	C3709x6*	.562	1.02	7/8
1/2	C3709x8*	.687	1.23	1-1/16
3/4	C3709x12*	.906	1.36	1-5/16
1	C3709x16*	1.125	1.62	1-5/8
1-1/4	C3709x20	1.468	1.70	1-7/8
1/8	TF3709x2	.343	.66	5/8
1/4	TF3709x4	.437	.88	3/4
3/8	TF3709x6	.562	1.02	7/8
1/2	TF3709x8	.687	1.23	1-1/8
3/4	TF3709x12	.906	1.36	1-3/8
1	TF3709x16	1.275	1.62	1-5/8
1-1/4	TF3709x20	1.468	1.70	2
1-1/2	TF3709x24	1.710	2.08	2-3/8
2	TF3709x32	2.180	2.39	2-7/8

**Male Branch Tee**

Stainless Steel No. 3621x

(Ref. SAE No. 140425)

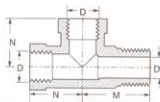
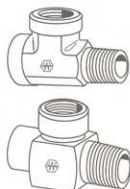


Male Pipe Thread	Fem. Pipe Thread	Catalog Number	D	D1	M	N	Across Flats
1/8	1/8	C3609x2	.332	.188	.78	.66	9/16
1/4	1/4	C3609x4*	.437	.281	1.09	.88	3/4
1	1	C3609x16	1.125	.938	1.97	1.62	1-5/8
1/8	1/8	TF3609x2	.343	.188	.78	.66	5/8
1/4	1/4	TF3609x4	.437	.281	1.09	.87	3/4
3/8	3/8	TF3609x6	.562	.406	1.22	1.02	7/8
1/2	1/2	TF3609x8	.687	.531	1.47	1.23	1-1/8
3/4	3/4	TF3609x12	.906	.719	1.59	1.36	1-3/8
1	1	TF3609x16	1.125	.938	1.97	1.62	1-5/8
1-1/4	1-1/4	TF3609x20	1.468	1.250	2.38	1.70	2
1-1/2	1-1/2	TF3609x24	1.700	1.500	2.64	2.08	2-3/8



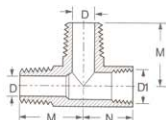
## Male Run Tee

Stainless Steel No. 3771x  
(Ref. SAE No. 140424)



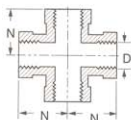
Fem. Pipe Thread	Male Pipe Thread	Catalog Number	D	D1	M	N	Across Flats
1/8	1/8	C3759x2	.332	.188	.78	.66	9/16
1/4	1/4	C3759x4	.437	.281	1.09	.88	3/4
3/8	3/8	C3759x6	.562	.406	1.22	1.02	7/8
1/2	1/2	C3759x8	.687	.531	1.47	1.23	1-1/16
3/4	3/4	C3759x12	.906	.719	1.59	1.36	1-5/16
1	1	C3759x16	1.125	.938	1.97	1.62	1-5/8
1/8	1/8	TF3759x2	.343	.188	.78	.66	5/8
1/4	1/4	TF3759x4	.437	.281	1.09	.88	3/4
3/8	3/8	TF3759x6	.562	.406	1.22	1.02	7/8
1/2	1/2	TF3759x8	.687	.531	1.47	1.23	1-1/8
3/4	3/4	TF3759x12	.906	.719	1.59	1.36	1-3/8
1	1	TF3759x16	1.125	.938	1.97	1.62	1-5/8
1-1/4	1-1/4	TF3759x20	1.468	1.250	2.68	1.70	2
1-1/2	1-1/2	TF3759x24	1.710	1.500	2.84	2.08	2-3/8
2	2	TF3759x32	2.180	1.938	3.00	2.39	2-7/8

## Female Run Tee



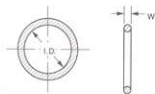
Fem. Pipe Thread	Male Pipe Thread	Catalog Number	D	D1	M	N	Across Flats
1/8	1/8	TF3805x2	.188	.343	.78	.66	5/8
1/4	1/4	TF3805x4	.281	.437	1.09	.88	3/4
3/8	3/8	TF3805x6	.406	.562	1.22	1.02	7/8
1/2	1/2	TF3805x8	.531	.687	1.47	1.23	1-1/8
3/4	3/4	TF3805x12	.719	.906	1.59	1.36	1-3/8
1	1	TF3805x16	.938	1.125	1.97	1.62	1-5/8
1-1/4	1-1/4	TF3805x20	1.250	1.468	2.38	1.70	2
1-1/2	1-1/2	TF3805x24	1.490	2.180	2.64	2.08	2-3/8

## Cross



Fem. Pipe Thread	Catalog Number	D	N	Across Flats
3/8	C3959x6	.562	1.02	7/8
1/2	C3959x8	.687	1.23	1-1/16
3/4	C3959x12	.906	1.36	1-5/16
1/8	TF3959x2	.343	.66	5/8
1/4	TF3959x4	.437	.88	3/4
3/8	TF3959x6	.562	1.02	7/8
1/2	TF3959x8	.687	1.23	1-1/8
3/4	TF3959x12	.906	1.36	1-3/8
1	TF3959x16	1.125	1.62	1-5/8
1-1/4	TF3959x20	1.468	1.70	2
1-1/2	TF3959x24	1.710	2.08	2-3/8
2	TF3959x32	2.180	2.39	2-7/8

## Straight Thread O-Ring



**Material:** Buna-N, 90 Durometer  
**Temperature Range:** -40°F to +250°F  
 (-40°C to +121°C)  
 Standard O-ring complies with SAE specification SAE J515 Type CH.

Tube O.D.	Catalog Number	W	I.D.
1/16	7629x1	.058	.185
1/8	7629x2	.064	.239
3/16	7629x3	.064	.301
1/4	7629x4	.072	.351
5/16	7629x5	.072	.414
3/8	7629x6	.078	.468
7/16	7629x7	.082	.530
1/2	7629x8	.087	.644
5/8	7629x10	.097	.755
3/4	7629x12	.116	.924
7/8	7629x14	.116	1.048
1	7629x16	.116	1.171
1-1/4	7629x20	.118	1.475
1-1/2	7629x24	.118	1.720
2	7629x32	.118	2.337

\* Available in stainless steel.