 Refer to safety information regarding tubing selection on page 1.

- **Typical Application:** Pressure hydraulic systems.
- **Sealing Method:** Performed by an elastomeric O-ring.
- **NOTE:** For pressure, material and plating information, refer to appropriate steel fitting sections of this catalog:

Pipe - See page 141. For-Seal - See page 149. JIC 37° - See page 159.

Ermeto - See page 190. Swivel Adapters - See page 214.

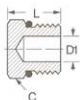
## Straight Thread O-Ring Hex Socket Plug (Ref. SAE No. 090109B)



Replacement O-rings page 194.  
NOTE: Parts furnished with zinc plate.

Port Size	Catalog Number	Hex C	L
1/8	7238x2	1/8	.40
3/16	7238x3	1/8	.40
1/4	7238x4	3/16	.47
5/16	7238x5	3/16	.47
3/8	7238x6	1/4	.50
1/2	7238x8	5/16	.58
5/8	7238x10	3/8	.65
3/4	7238x12	9/16	.77
7/8	7238x14	9/16	.77
1	7238x16	5/8	.77
1-1/4	7238x20	3/4	.78

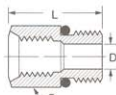
## Straight Thread O-Ring Hex Head Plug (Ref. SAE No. 090109A)



Replacement O-rings page 194.  
NOTE: Parts furnished with zinc plate.

Port Size	Catalog Number	Hex C	L	D1 Opt.
1/8	7237x2	7/16	.60	.093
3/16	7237x3	1/2	.60	.125
1/4	7237x4	9/16	.67	.203
5/16	7237x5	5/8	.67	.234
3/8	7237x6	11/16	.73	.297
1/2	7237x8	7/8	.80	.422
5/8	7237x10	1	.93	.500
3/4	7237x12	1-1/4	1.09	.656
7/8	7237x14	1-3/8	1.09	.718
1	7237x16	1-1/2	1.12	.875
1-1/4	7237x20	1-7/8	1.20	1.093
1-1/2	7237x24	2-1/8	1.27	1.344
2	7237x32	2-3/4	1.42	1.815

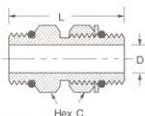
## Male Straight Thread/Female Straight Thread O-Ring Boss



Replacement O-rings page 194.  
NOTE: Parts furnished with zinc plate.

Male Port Size	Fem. Port Size	Catalog Number	Hex C	D	L
1/2	3/8	7033x8x6	7/8	.391	1.16
5/8	1/2	7033x10x8	1	.484	1.34
3/4	1/2	7033x12x8	1-1/4	.671	1.44
7/8	3/4	7033x14x12	1-3/8	.719	1.72
1	1/2	7033x16x8	1-1/2	.687	1.12
1	3/4	7033x16x12	1-1/2	.844	1.70
1-1/4	3/4	7033x20x12	1-7/8	.968	1.20
1-1/2	1-1/4	7033x24x20	2-1/8	1.312	1.75
2	1-1/2	7033x32x24	2-3/4	1.781	1.44

## Straight Thread O-Ring Union



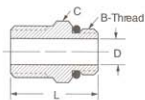
Replacement O-rings page 194.

Port Size	Catalog Number	Hex C	D	L
1/4	C5314x4x4	9/16	.172	1.37
3/8	C5314x6x6	11/16	.297	1.50
1/2	C5314x8x8	7/8	.391	1.56
5/8	C5314x10x10	1	.484	1.80
3/4	C5314x12x12	1-1/4	.609	2.33
1	C5314x16x16	1-1/2	.844	2.28
1-1/4	C5314x20x20	1-7/8	1.078	2.13
1-1/2	C5314x24x24	2-1/8	1.312	2.13
2	C5314x32x32	2-3/4	1.781	2.13

# Straight Thread O-Ring

**Steel  
Fittings**

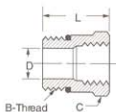
## Male Straight Thread O-Ring to Male Pipe Adapter



Replacement O-rings page 194.

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	.484	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	2-3/4	1.781	2.47

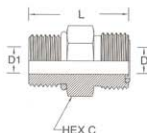
## Straight Thread O-Ring to Female Pipe Adapter



Replacement O-rings page 194.

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

## Straight Thread O-Ring Connector to For-Seal® (Ref. SAE No. 520120)



For replacement For-Seal® O-rings, see page 163.

Male Tube O.D.	Port Size	Catalog Number	Hex C	D	D1	L
1/4	1/4	4315x4	5/8	.172	.172	1.133
1/4	3/8	4315x4x6	11/16	.172	.172	1.202
3/8	1/4	4315x6x4	3/4	.264	.172	1.343
3/8	3/8	4315x6	3/4	.264	.264	1.252
3/8	1/2	4315x6x8	7/8	.378	.264	1.378
3/8	5/8	4315x6x10	1-1/16	.264	.484	1.530
1/2	3/8	4315x8x6	7/8	.378	.264	1.472
1/2	1/2	4315x8	7/8	.378	.378	1.441
1/2	5/8	4315x8x10	1	.378	.484	1.590
1/2	3/4	4315x8x12	1-1/4	.378	.609	1.748
5/8	5/8	4315x10	1-1/16	.484	.484	1.700
3/4	3/4	4315x12	1-1/4	.609	.609	1.918
3/4	1	4315x12x16	1-1/2	.609	.609	1.960
1	3/4	4315x16x12	1-1/2	.812	.609	2.138
1	1	4315x16	1-1/2	.811	.811	1.978
1	1-1/4	4315x16x20	1-7/8	.812	1.709	2.058
1-1/4	1	4315x20x16	1-3/4	1.024	.843	2.278
1-1/4	1-1/4	4315x20	1-7/8	1.024	1.024	2.058
1-1/2	1-1/2	4315x24	2-1/8	1.260	1.260	2.125

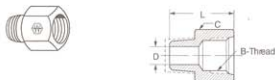
## Straight Thread O-Ring to For-Seal® Extended (Ref. SAE No. 520122)



For replacement straight thread O-ring, see page 194.  
Replacement For-Seal O-ring page 163.

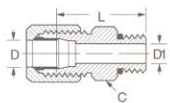
Tube O.D.	Port Size	Catalog Number	Hex C	D	I	L
3/8	3/8	4316x6	3/4	.264	1.46	2.27
1/2	1/2	4316x8	7/8	.378	1.75	2.67
3/4	3/4	4316x12	1-1/4	.609	2.52	3.76
1	1	4316x16	1-1/2	.811	2.87	4.14
1-1/4	1-1/4	4316x20	1-7/8	1.024	3.41	4.76
1-1/2	1-1/2	4316x24	2-1/8	1.260	3.82	5.26

## 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

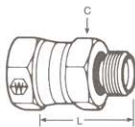
## Straight Thread O-Ring Connector to Ermeto® Stainless Steel No. 7327x (Ref. SAE No. 080120)



Replacement O-rings page 194.

Tube O.D.	Port Size	Catalog Number	Hex C	D	L	D1 Opt.
3/16	3/16	7315x3	1/2	.125	1.04	-
1/4	1/4	7315x4*	9/16	.203	1.13	-
1/4	5/16	7315x4x5*	5/8	.203	1.13	-
1/4	3/8	7315x4x6*	11/16	.203	1.19	.281
5/16	5/16	7315x5	5/8	.234	1.13	-
3/8	3/8	7315x6*	11/16	.281	1.21	-
3/8	1/2	7315x6x8	7/8	.281	1.29	.422
1/2	1/2	7315x8*	7/8	.422	1.38	-
1/2	5/8	7315x8x10*	1	.422	1.51	.500
1/2	3/4	7315x8x12*	1-1/4	.422	1.67	.656
5/8	5/8	7315x10*	1	.500	1.57	-
3/4	3/4	7315x12*	1-1/4	.656	1.79	-
3/4	1	7315x12x16	1-1/2	.656	1.82	.876
7/8	7/8	7315x14	1-3/8	.718	1.79	-
1	3/4	7315x16x12	1-1/2	.875	1.82	.656
1	1	7315x16*	1-1/2	.875	1.82	-
1-1/4	1-1/4	7315x20	1-7/8	1.093	1.90	-
1-1/2	1-1/2	7315x24	2-1/8	1.344	1.97	-
2	2	7315x32	2-3/4	1.813	2.13	-

## Male Straight Thread O-Ring to Female Pipe Swivel (Ref. SAE No. 140157)



Replacement O-rings page 194.

Port Size	NPSM Swivel Nut	Catalog Number	Hex C	L
1/4	1/4-18	9315x4x4	9/16	.970
1/4	3/8-18	9315x4x6	5/8	1.060
5/16	1/4-18	9315x5x4	5/8	1.109
3/8	1/4-18	9315x5x4	11/16	1.171
3/8	3/8-18	9315x6x6	11/16	1.090
3/8	1/2-14	9315x6x8	13/16	1.210
1/2	1/4-18	9315x8x4	7/8	1.234
1/2	3/8-18	9315x8x6	7/8	1.200
1/2	1/2-14	9315x8x8	7/8	1.260
1/2	3/4-14	9315x8x12	1	1.406
5/8	3/8-18	9315x10x6	1	1.375
5/8	1/2-14	9315x10x8	1	1.400
5/8	3/4-14	9315x10x12	1	1.546
3/4	1/2-14	9315x12x8	1-1/4	1.540
3/4	3/4-14	9315x12x12	1-1/4	1.600
7/8	3/4-14	9315x14x12	1-3/8	1.703
1	3/4-14	9315x16x12	1-1/2	1.734
1	1-11-1/2	9315x16x16	1-1/2	1.710
1-1/4	1-11-1/2	9315x20x16	1-7/8	1.828
1-1/4	1-1/2-11-1/2	9315x20x20	1-7/8	1.890
1-1/2	1-1/2-11-1/2	9315x24x24	2-1/8	1.953
2	2-11-1/2	9315x32x32	2-3/4	2.156

\* Available in stainless steel.

# Straight Thread O-Ring

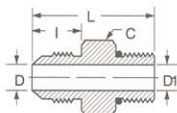
Steel  
Fittings

## Straight Thread O-Ring Connector to Male JIC 37°

Stainless Steel No. 5327x

(Ref. SAE No. 070120)

Example assembly No. C35315x4

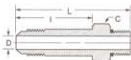


Replacement O-rings page 213.

## Straight Thread O-Ring Extended Connector to Male JIC 37°

(Ref. SAE No. 070122)

Example assembly No. C35316x4

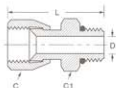


Replacement O-rings page 194.

Tube O.D.	Port Size	Catalog Number	Hex C	D	D1 Opt.	I	L
1/8	1/8	C5315x2-	7/16	.062	.062	.45	1.06
3/16	3/16	C5315x3	1/2	.125	.125	.48	1.10
1/4	1/4	C5315x4	9/16	.172	.172	.55	1.23
1/4	5/16	C5315x4x5*	5/8	.172	.234	.55	1.23
1/4	3/8	C5315x4x6	11/16	.172	.172	.55	1.29
1/4	1/2	C5315x4x8	7/8	.172	.391	.55	1.38
5/16	1/4	C5315x5x4	9/16	.234	.172	.55	1.23
5/16	5/16	C5315x5	5/8	.234	.234	.55	1.23
5/16	3/8	C5315x5x6	11/16	.234	.297	.55	1.30
3/8	1/4	C5315x6x4	5/8	.297	.172	.56	1.33
3/8	5/16	C5315x6x5	5/8	.297	.234	.56	1.30
3/8	3/8	C5315x6*	11/16	.297	.297	.56	1.30
3/8	1/2	C5315x6x8*	7/8	.297	.391	.56	1.38
3/8	5/8	C5315x6x10	1	.297	.484	.56	1.50
1/2	3/8	C5315x8x6	13/16	.391	.297	.66	1.44
1/2	1/2	C5315x8*	7/8	.391	.391	.66	1.48
1/2	5/8	C5315x8x10*	1	.391	.484	.66	1.60
1/2	3/4	C5315x8x12*	1-1/4	.391	.609	.66	1.76
5/8	1/2	C5315x10x8	15/16	.484	.391	.76	1.67
5/8	5/8	C5315x10*	1	.484	.484	.76	1.70
5/8	3/4	C5315x10x12	1-1/4	.484	.609	.76	1.86
5/8	1	C5315x10x16	1-1/2	.484	.844	.76	1.89
3/4	1/2	C5315x12x8	1-1/8	.609	.391	.86	1.94
3/4	5/8	C5315x12x10	1-1/8	.609	.484	.86	1.88
3/4	3/4	C5315x12*	1-1/4	.609	.609	.86	1.97
3/4	7/8	C5315x12x14	1-3/8	.609	.718	.86	1.97
3/4	1	C5315x12x16	1-1/2	.609	.844	.86	1.99
3/4	1-1/4	C5315x12x20	1-7/8	.609	1.078	.86	2.08
7/8	7/8	C5315x14	1-3/8	.718	.718	.89	1.99
1	5/8	C5315x16x10	1-3/8	.844	.484	.91	1.95
1	3/4	C5315x16x12	1-3/8	.844	.609	.91	2.04
1	1	C5315x16*	1-1/2	.844	.844	.91	2.04
1	1-1/4	C5315x16x20	1-7/8	.844	1.078	.91	2.12
1-1/4	1	C5315x20x16	1-11/16	1.078	.844	.96	2.20
1-1/4	1-1/4	C5315x20	1-7/8	1.078	1.078	.96	2.17
1-1/4	1-1/2	C5315x20x24	2-1/8	1.078	1.312	.96	2.25
1-1/2	1-1/4	C5315x24x20	2	1.312	1.078	1.08	2.34
1-1/2	1-1/2	C5315x24	2-1/8	1.312	1.312	1.08	2.37
1-1/2	2	C5315x24x32	2-3/4	1.312	1.781	1.08	2.53
2	1-1/2	C5315x32x24	2-5/8	1.781	1.312	1.33	2.78
2	2	C5315x32	2-3/4	1.784	1.784	1.33	2.78

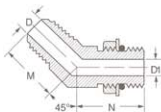
STEEL

\* Available in stainless steel.

JIC 37° Female Swivel to  
Straight Thread O-Ring

Tube O.D.	Port Size	Catalog Number	Hex C	Hex C1	L	D
1/4	1/4	C5216x4x4	9/16	.56	.95	.172
1/4	3/8	C5216x4x6	9/16	.69	1.00	.172
3/8	3/8	C5216x6x6	11/16	.69	1.11	.297
3/8	1/2	C5216x6x8	11/16	.88	1.18	.297
1/2	3/8	C5216x8x6	7/8	3/4	1.71	.297
1/2	1/2	C5216x8x8	7/8	.88	1.17	.391
5/8	5/8	C5216x10x10	1	1.00	1.45	.484
3/4	3/4	C5216x12x12	1-1/4	1.25	1.61	.609
1	1	C5216x16x16	1-1/2	1.50	1.69	.844
1-1/4	1-1/4	C5216x20x20	2	1.88	1.82	1.078
1-1/2	1-1/2	C5216x24x24	2-1/8	2.12	1.88	1.312
2	2	C5216x32x32	2-3/4	2.75	2.01	1.781

Replacement O-rings page 194.

45° Elbow - Male Straight  
Thread O-Ring to Male JIC 37°  
(Ref. SAE No. 070320)  
Example assembly No. C35365x4

Tube O.D.	Port Size	Catalog Number	D	D1	M	N	Across Flats
1/4	1/4	C5365x4	.172	.172	.72	1.05	7/16
5/16	5/16	C5365x5*	.234	.234	.77	1.05	9/16
3/8	3/8	C5365x6	.297	.297	.83	1.14	5/8
1/2	1/2	C5365x8	.391	.391	.98	1.30	3/4
1/2	5/8	C5365x8x10	.391	.484	.99	1.52	7/8
5/8	5/8	C5365x10	.484	.484	1.11	1.52	7/8
3/4	5/8	C5365x12x10	.609	.484	1.28	1.57	1-1/16
3/4	3/4	C5365x12	.609	.609	1.28	1.73	1-1/16
1	1	C5365x16	.844	.844	1.47	1.86	1-5/16
1-1/4	1-1/4	C5365x20	1.078	1.078	1.59	1.91	1-5/8
1-1/2	1-1/2	C5365x24*	1.312	1.312	1.78	1.91	1-7/8
1/4	1/4	TF5365x4	.172	.172	.72	1.05	1/2
5/16	5/16	TF5365x5	.234	.234	.77	1.05	9/16
3/8	3/8	TF5365x6	.297	.297	.83	1.14	5/8
3/8	1/2	TF5365x6x8	.297	.391	.87	1.30	13/16
1/2	3/8	TF5365x8x6	.391	.297	.98	1.17	13/16
1/2	1/2	TF5365x8	.391	.391	.98	1.30	13/16
1/2	5/8	TF5365x8x10	.391	.484	.99	1.52	15/16
5/8	1/2	TF5365x10x8	.484	.391	1.09	1.41	15/16
5/8	5/8	TF5365x10	.484	.484	1.09	1.52	15/16
3/4	5/8	TF5365x12x10	.609	.484	1.30	1.58	1-1/8
3/4	3/4	TF5365x12	.609	.609	1.28	1.73	1-1/8
3/4	1	TF5365x12x16	.609	.844	1.45	1.86	1-3/8
7/8	7/8	TF5365x14	.718	.718	1.39	1.80	1-1/4
1	3/4	TF5365x16x12	.844	.609	1.47	1.86	1-3/8
1	1	TF5365x16	.844	.844	1.47	1.86	1-3/8
1-1/4	1-1/4	TF5365x20	1.078	1.078	1.59	1.91	1-3/4
1-1/2	1-1/2	TF5365x24	1.312	1.312	1.78	1.91	2
2	2	TF5365x32	1.781	1.781	2.22	1.86	2-5/8

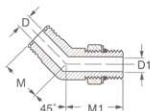
Replacement O-rings page 194.

\*Special order only.

# Straight Thread O-Ring

**Steel  
Fittings**

## 45° Elbow - For-Seal® to Straight Thread O-Ring (Ref. SAE No. 520320)

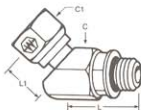


For replacement straight thread O-rings, see page 194.

For replacement For-Seal® o-rings, see page 163.

Tube O.D.	Port Size	Catalog Number	D	D1	M	M1	Across Flats
1/4	1/4	4365x4	.172	.172	.63	1.18	9/16
1/4	3/8	4365x4x6	.172	.264	.68	1.30	3/4
3/8	1/4	4365x6x4	.264	.172	.74	1.22	3/4
3/8	3/8	4365x6	.264	.264	.74	1.30	3/4
3/8	1/2	4365x6x8	.264	.390	.74	1.43	3/4
1/2	3/8	4365x8x6	.378	.264	.80	1.27	3/4
1/2	1/2	4365x8	.378	.390	.80	1.43	3/4
1/2	5/8	4365x8x10	.378	.484	.82	1.76	1-1/16
1/2	3/4	4365x8x12	.378	.609	.87	1.97	1-3/16
5/8	1/2	4365x10x8	.484	.390	.92	1.59	1-1/16
5/8	5/8	4365x10	.484	.484	.92	1.76	1-1/16
5/8	3/4	4365x10x12	.484	.609	.94	1.97	1-3/16
3/4	5/8	4365x12x10	.609	.484	1.02	1.81	1-3/16
3/4	3/4	4365x12	.609	.609	1.02	1.97	1-5/16
3/4	1	4365x12x16	.609	.811	1.16	2.06	1-5/16
1	3/4	4365x16x12	.811	.609	1.12	2.03	1-7/16
1	1	4365x16	.812	.811	1.18	2.06	1-1/2
1	1-1/4	4365x16x20	.811	1.081	1.26	1.11	1-5/8
1-1/4	1-1/4	4365x20	1.024	1.081	1.26	1.11	1-5/8
1-1/2	1-1/2	4365x24	1.260	1.312	1.45	1.11	1-7/8

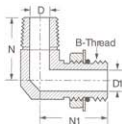
## 45° Elbow - Male Straight Thread O-Ring to Female Pipe Swivel (Ref. SAE No. 140357)



Replacement O-rings page 194.

Port Size	NPSM Swivel Nut	Catalog Number	Hex C	Hex C1	L	L1
1/4	1/4-18	9365x4x4	7/16	11/16	1.06	.66
1/4	3/8-18	9365x4x6	7/16	7/8	1.00	.75
3/8	3/8-18	9365x6x6	9/16	7/8	1.06	.70
3/8	1/2-14	9365x6x8	9/16	1	1.13	.82
1/2	3/8-18	9365x8x6	3/4	1	1.13	.88
1/2	1/2-14	9365x8x8	3/4	1	1.13	.82
5/8	1/2-14	9365x10x8	7/8	1	1.50	.78
3/4	3/4-14	9365x12x12	1-1/16	1-1/4	1.50	1.05
1	1-11-1/2	9365x16x16	1-5/16	1-1/2	1.62	1.06
1-1/4	1-1/4-11-1/2	9365x20x20	1-5/8	1-7/8	2.28	1.17
1-1/2	1-1/2-11-1/2	9365x24x24	1-7/8	2-1/8	2.61	1.34

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



Replacement O-rings page 194.

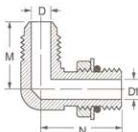
Port Size	Male Pipe Thread	Catalog Number	Straight Thread B	D1	D	N	N1	Across Flats
1/4	1/8	TF3569x4	7/16-20	.172	.188	.78	1.03	1/2
5/16	1/8	TF3569x5	1/2-20	.234	.188	.78	1.09	9/16
3/8	1/4	TF3569x6	9/16-18	.297	.281	1.09	1.25	5/8
1/2	3/8	TF3569x8	3/4-16	.391	.406	1.22	1.45	13/16
5/8	1/2	TF3569x10	7/8-14	.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	.919	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° Elbow - Straight Thread O-Ring to Male JIC 37°

Stainless Steel 5527x

(Ref. SAE No. 070220)

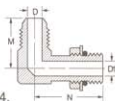
Example assembly No. C35515x4



Replacement O-rings page 194.

\*Special Order Only

## 90° Elbow Long - Straight Thread O-Ring to Male JIC 37°



Replacement O-rings page 194.

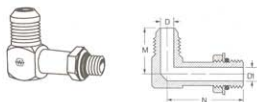
Tube O.D.	Port Size	Catalog Number	D	D1	M	N	Across Flats
3/16	3/16	C5515x3	.125	.125	.83	.94	7/16
1/4	1/4	C5515x4*	.172	.172	.89	1.03	7/16
5/16	5/16	C5515x5*	.234	.234	.95	1.13	9/16
3/8	3/8	C5515x6*	.297	.297	1.06	1.25	9/16
3/8	1/2	C5515x6x8	.297	.391	1.14	1.45	3/4
1/2	3/8	C5515x8x6	.391	.297	1.25	1.32	3/4
1/2	1/2	C5515x8*	.391	.391	1.25	1.45	3/4
1/2	5/8	C5515x8x10	.391	.484	1.33	1.70	7/8
5/8	5/8	C5515x10	.484	.484	1.45	1.70	7/8
3/4	5/8	C5515x12x10	.609	.484	1.66	1.78	1-1/16
3/4	3/4	C5515x12*	.609	.609	1.66	1.94	1-1/16
7/8	7/8	C5515x14	.718	.718	1.73	2.00	1-5/16
1	3/4	C5515x16x12	.844	.609	1.81	2.05	1-5/16
1	1	C5515x16	.844	.844	1.81	2.05	1-5/16
1-1/4	1-1/4	C5515x20	1.078	1.078	2.06	2.25	1-5/8
1-1/2	1-1/2	C5515x24*	1.312	1.312	2.33	2.39	1-7/8
1/4	1/4	TF5515x4	.172	.172	.89	1.03	1/2
1/4	5/16	TF5515x4x5	.172	.234	.95	1.12	5/8
1/4	3/8	TF5515x4x6	.172	.297	.95	1.25	5/8
5/16	1/4	TF5515x5x4	.234	.172	.98	1.06	9/16
5/16	5/16	TF5515x5*	.234	.234	.95	1.09	9/16
5/16	3/8	TF5515x5x6	.234	.297	.98	1.25	5/8
3/8	1/4	TF5515x6x4	.297	.172	1.06	1.09	5/8
3/8	5/16	TF5515x6x5	.297	.234	1.06	1.12	5/8
3/8	3/8	TF5515x6*	.297	.297	1.06	1.25	5/8
3/8	1/2	TF5515x6x8	.297	.391	1.16	1.45	13/16
3/8	5/8	TF5515x6x10	.297	.484	1.22	1.70	15/16
1/2	3/8	TF5515x8x6	.391	.297	1.25	1.34	13/16
1/2	1/2	TF5515x8*	.391	.391	1.25	1.45	13/16
1/2	5/8	TF5515x8x10	.391	.484	1.31	1.70	15/16
1/2	3/4	TF5515x8x12	.391	.609	1.41	1.94	1-1/8
5/8	1/2	TF5515x10x8	.484	.391	1.45	1.52	15/16
5/8	5/8	TF5515x10*	.484	.484	1.45	1.70	15/16
5/8	3/4	TF5515x10x12	.484	.609	1.55	1.94	1-1/8
3/4	1/2	TF5515x12x8	.609	.391	1.66	1.61	1-1/8
3/4	5/8	TF5515x12x10	.609	.484	1.66	1.80	1-1/8
3/4	3/4	TF5515x12*	.609	.609	1.66	1.94	1-1/8
3/4	7/8	TF5515x12x14	.609	.718	1.72	2.00	1-1/4
3/4	1	TF5515x12x16	.609	.844	1.78	2.05	1-3/8
7/8	7/8	TF5515x14	.718	.718	1.73	2.00	1-5/16
1	3/4	TF5515x16x12	.844	.609	1.81	2.06	1-3/8
1	7/8	TF5515x16x14	.844	.718	1.81	2.06	1-3/8
1	1	TF5515x16*	.844	.844	1.81	2.05	1-3/8
1	1-1/4	TF5515x16x20	.844	1.078	2.00	2.25	1-3/4
1-1/4	1	TF5515x20x16	1.078	.844	2.06	2.23	1-3/4
1-1/4	1-1/4	TF5515x20*	1.078	1.078	2.06	2.25	1-3/4
1-1/2	1-1/4	TF5515x24x20	1.312	1.078	2.33	2.37	2
1-1/2	1-1/2	TF5515x24*	1.312	1.312	2.33	2.39	2
2	2	TF5515x32	1.781	1.781	3.06	2.89	2-5/8

\* Available in stainless steel.

# Straight Thread O-Ring

Steel  
Fittings

## 90° Elbow Extra Long - Male JIC 37° to Straight Thread O-Ring



Replacement O-rings page 194.

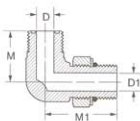
Tube O.D.	Port Size	Catalog Number	D	D1	M	N	Across Flats
3/8	3/8	TF5515x6LL	.297	.297	1.06	2.08	5/8
1/2	1/2	TF5515x8LL	.391	.391	1.25	2.50	13/16
5/8	5/8	TF5515x10LL	.484	.484	1.45	3.25	15/16
3/4	3/4	TF5515x12LL	.609	.609	1.66	3.34	1-1/8

## 90° Elbow - For-Seal® Female Swivel to Male Straight Thread O-Ring (Ref. SAE No. 520281)



Tube O.D.	Port Size	Catalog Number	D	D1	M	M1	Hex C	Across Flats
1/4	1/4	4535x4	.165	.180	1.04	1.29	11/16	9/16
3/8	3/8	4535x6	.264	.300	1.15	1.45	13/16	3/4
1/2	1/2	4535x8	.358	.398	1.49	1.60	15/16	7/8
5/8	5/8	4535x10	.453	.498	1.62	1.97	1-1/8	1-1/16
3/4	3/4	4535x12	.547	.616	1.82	2.17	1-3/8	1-3/8
1	1	4535x16	.783	.852	2.10	2.35	1-5/8	1-5/8
1-1/4	1-1/4	4535x20	1.026	1.090	2.29	2.45	1-7/8	1-5/8
1-1/2	1-1/2	4535x24	1.262	1.326	2.41	2.59	2-1/4	1-7/8

## 90° Elbow - For-Seal® to Straight Thread O-Ring (Ref. SAE No. 520220)



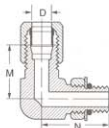
Tube O.D.	Port Size	Catalog Number	D	D1	M	M1	Across Flats
1/4	1/4	4515x4	.172	.172	.85	1.29	9/16
1/4	5/16	4515x4x5	.172	.234	.85	1.29	9/16
1/4	3/8	4515x4x6	.172	.264	.92	1.45	3/4
1/4	1/2	4515x4x8	.172	.390	.97	1.60	3/4
3/8	1/4	4515x6x4	.264	.172	.98	1.37	3/4
3/8	5/16	4515x6x5	.264	.234	.98	1.37	3/4
3/8	3/8	4515x6	.264	.264	.98	1.45	3/4
3/8	1/2	4515x6x8	.264	.390	1.04	1.60	3/4
3/8	5/8	4515x6x10	.264	.484	1.15	1.97	3/4
3/8	3/4	4515x6x12	.264	.609	1.25	2.17	1-3/16
1/2	3/8	4515x8x6	.378	.264	1.10	1.44	3/4
1/2	1/2	4515x8	.378	.390	1.10	1.60	3/4
1/2	5/8	4515x8x10	.378	.484	1.21	1.97	1-1/16
1/2	3/4	4515x8x12	.378	.484	1.32	2.17	1-1/16
5/8	1/2	4515x10x8	.484	.390	1.31	1.80	1-1/16
5/8	5/8	4515x10	.484	.484	1.31	1.97	1-1/16
5/8	3/4	4515x10x12	.484	.609	1.41	2.17	1-3/16
3/4	1/2	4515x12x8	.609	.390	1.47	1.84	1-3/16
3/4	5/8	4515x12x10	.609	.484	1.47	2.01	1-5/16
3/4	3/4	4515x12	.609	.609	1.47	2.17	1-5/16
3/4	1	4515x12x16	.609	.811	1.62	2.35	1-5/16
1	3/4	4515x16x12	.811	.609	1.64	2.32	1-5/8
1	7/8	4515x16x14	.811	.609	1.64	2.32	1-5/8
1	1	4515x16	.811	.811	1.64	2.35	1-5/8
1	1-1/4	4515x16x20	.811	1.081	1.76	2.45	1-5/8
1-1/4	1	4515x20x16	1.024	.811	1.76	2.42	1-5/8
1-1/4	1-1/4	4515x20	1.024	1.081	1.76	2.45	1-7/8
1-1/4	1-1/2	4515x20x24	1.024	1.312	1.92	2.59	1-7/8
1-1/2	1-1/4	4515x24x20	1.312	1.081	1.92	2.59	1-7/8
1-1/2	1-1/2	4515x24	1.312	1.312	1.92	2.59	1-7/8

Replacement Straight Thread O-rings page 194.  
Replacement For-Seal O-rings page 163.

• Available in stainless steel.



## 90° Elbow - Ermeto® to Straight Thread O-Ring Stainless Steel No. 7527x (Ref. SAE No. 080220)



Replacement O-rings page 194.

Tube O.D.	Port Size	Catalog Number	D	M	N	Across Flats
1/4	1/4	7515x4-	.203	.89	1.03	7/16
5/16	5/16	7515x5	.234	.96	1.13	9/16
3/8	3/8	7515x6-	.281	1.05	1.25	9/16
1/2	1/2	7515x8-	.422	1.25	1.45	3/4
5/8	5/8	7515x10-	.500	1.42	1.70	7/8
3/4	3/4	7515x12-	.656	1.58	1.94	1-1/16
1	1	7515x16-	.875	1.73	2.05	1-5/16
1	3/4	7515x16x12	.875	1.73	2.05	1-5/16
1-1/4	1-1/4	7515x20	1.093	1.89	2.25	1-5/8

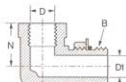
## 90° Elbow - Male Straight Thread O-Ring to Female Pipe Swivel (Ref. SAE No. 140257)



Replacement O-rings page 194.

Port Size	NPSM Swivel Nut	Catalog Number	Hex C	L	L1	Across Flats
1/4	1/4-18	9515x4x4	11/16	1.02	.75	11/16
1/4	3/8-18	9515x4x6	7/8	1.10	.90	7/8
3/8	1/4-18	9515x6x4	11/16	1.19	.78	11/16
3/8	3/8-18	9515x6x6	7/8	1.17	.90	7/8
3/8	1/2-14	9515x6x8	1	1.25	1.02	1
1/2	3/8-18	9515x8x6	1	1.36	1.00	1
1/2	1/2-14	9515x8x8	1	1.36	1.02	1
1/2	3/4-14	9515x8x12	1-1/4	1.66	1.25	1-1/4
5/8	3/8-18	9515x10x6	1	1.64	1.00	1
5/8	1/2-14	9515x10x8	1	1.50	1.02	1
5/8	3/4-14	9515x10x12	1-1/4	1.78	1.25	1-1/4
3/4	1/2-14	9515x12x8	1-1/4	1.92	1.12	1-1/4
3/4	3/4-14	9515x12x12	1-1/4	1.79	1.20	1-1/4
7/8	3/4-14	9515x14x12	1-1/4	1.92	1.25	1-1/4
1	3/4-14	9515x16x12	1-1/2	2.09	1.38	1-1/2
1	1-11/2	9515x16x16	1-1/2	2.09	1.39	1-1/2
1-1/4	3/4-14	9515x20x12	1-7/8	2.48	1.56	1-7/8
1-1/4	1-1/4-11-1/2	9515x20x20	1-7/8	2.48	1.66	1-7/8
1-1/2	1-1/2-11-1/2	9515x24x24	2-1/8	2.61	1.73	2-1/8
2	2-11-1/2	9515x32x32	2-5/8	3.25	2.31	2-5/8

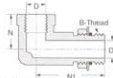
## 90° Elbow - Straight Thread O-Ring to Female Pipe



Replacement O-rings page 194.

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	TF3459x20	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

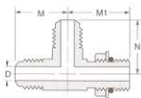
### 90° Elbow Long - Straight Thread O-Ring to Female Pipe



Replacement O-rings page 194.

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

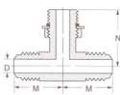
### Male JIC 37° to Straight Thread O-Ring Run Tee (Ref. SAE No. 070428) Example assembly No. C35716x4



Replacement O-rings page 194.

Tube O.D.	Port Size	Catalog Number	D	M	N	M1	Across Flats
1/4	1/4	C5716x4	.172	.89	.89	1.03	7/16
5/16	5/16	C5716x5	.234	.95	.95	1.09	9/16
3/8	3/8	C5716x6	.297	1.06	1.06	1.25	9/16
1/2	1/2	C5716x8	.391	1.25	1.25	1.45	3/4
5/8	5/8	C5716x10	.484	1.45	1.45	1.70	7/8
3/4	3/4	C5716x12	.609	1.66	1.66	1.94	1-1/16
1	1	C5716x16	.844	1.81	1.81	2.05	1-5/16
1-1/4	1-1/4	C5716x20	1.078	2.06	2.06	2.25	1-5/8
1/4	1/4	TF5716x4	.172	.89	.89	1.03	1/2
5/16	5/16	TF5716x5	.234	.95	.95	1.09	9/16
3/8	3/8	TF5716x6	.297	1.06	1.06	1.25	5/8
1/2	1/2	TF5716x8	.391	1.25	1.25	1.45	13/16
5/8	5/8	TF5716x10	.484	1.45	1.45	1.70	15/16
3/4	3/4	TF5716x12	.609	1.66	1.66	1.94	1-1/8
7/8	7/8	TF5716x14	.718	1.73	1.73	2.00	1-1/4
1	1	TF5716x16	.844	1.81	1.81	2.05	1-3/8
1-1/4	1-1/4	TF5716x20	1.078	2.06	2.06	2.25	1-3/4
1-1/2	1-1/2	TF5716x24	1.312	2.33	2.33	2.39	2

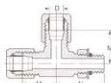
### Male JIC 37° to straight Thread O-Ring Branch Tee (Ref. SAE No. 070429) Example assembly No. C35715x4



Replacement O-rings page 194.  
\*Special order only.

Tube O.D.	Port Size	Catalog Number	D	M	N	Across Flats
1/4	1/4	C5715x4	.172	.89	1.03	7/16
5/16	5/16	C5715x5*	.234	.95	1.09	9/16
3/8	3/8	C5715x6	.297	1.06	1.25	9/16
1/2	1/2	C5715x8	.391	1.25	1.45	3/4
5/8	5/8	C5715x10	.484	1.45	1.70	7/8
3/4	3/4	C5715x12	.609	1.66	1.94	1-1/16
1	1	C5715x16	.844	1.81	2.05	1-5/16
1/4	1/4	TF5715x4	.172	.89	1.03	7/16
5/16	5/16	TF5715x5	.234	.95	1.09	9/16
3/8	3/8	TF5715x6	.297	1.06	1.25	5/8
1/2	1/2	TF5715x8	.391	1.25	1.45	3/4
5/8	5/8	TF5715x10	.484	1.45	1.70	15/16
3/4	3/4	TF5715x12	.609	1.66	1.94	1-1/8
7/8	7/8	TF5715x14	.719	1.73	2.00	1-1/4
1	1	TF5715x16	.844	1.81	2.05	1-3/8
1-1/4	1-1/4	TF5715x20	1.078	2.06	2.25	1-3/4
1-1/2	1-1/2	TF5715x24	1.312	2.33	2.39	2

### Ermeto® Straight Thread O-Ring Run Tee (Stainless Steel No. 7728x) (Ref. SAE No. 080428)



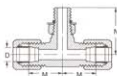
Replacement O-rings page 194.

Tube O.D.	Port Size	Catalog Number	D	M	N	Across Flats
1/4	1/4	7716x4*	.203	.89	1.03	7/16
3/8	3/8	7716x6*	.281	1.05	1.25	9/16
1/2	1/2	7716x8*	.422	1.25	1.45	3/4

\* Available in stainless steel.

## Ermeto® Straight Thread O-Ring Branch Tee

Stainless Steel No. 7727x  
(Ref. SAE No. 080429)

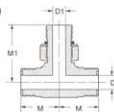


Replacement O-rings see below.

Tube O.D.	Port Size	Catalog Number	D	M	N	Across Flats
1/4	1/4	7715x4	.203	.89	1.03	7/16
3/8	3/8	7715x6	.281	1.05	1.25	9/16
1/2	1/2	7715x8	.422	1.25	1.45	3/4

## For-Seal® to Straight Thread O-Ring Branch Tee

(Ref. SAE No. 520429)

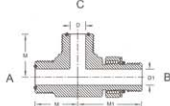


For replacement straight thread O-ring, see below.  
For replacement FOR-SEAL® O-ring, see page 163.

Tube O.D.	Port Size	Catalog Number	D	D1	M	M1	Across Flats
1/4	1/4	4715x4	.172	.172	.85	1.29	9/16
3/8	3/8	4715x6	.264	.264	.98	1.45	3/4
3/8	1/2	4715x6x8	.264	.391	1.04	1.60	3/4
1/2	1/2	4715x8	.378	.390	1.10	1.60	3/4
5/8	5/8	4715x10	.484	.484	1.31	1.97	1-1/16
3/4	3/4	4715x12	.609	.609	1.47	2.17	1-3/16
1	1	4715x16	.811	.811	1.64	2.35	1-1/16

## For-Seal® to Straight Thread Run Tee

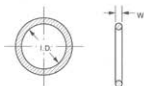
(Ref. SAE No. 520428)



For replacement straight thread O-ring, see below.  
For replacement FOR-SEAL® O-ring, see page 163.

Tube O.D. A	Tube O.D. B	Port Size C	Catalog Number	D	D1	M	M1	Across Flats
1/4	1/4	1/4	4716x4	.172	.172	.85	1.29	9/16
1/4	3/8	1/4	4716x4x4x6	.172	.264	1.39	1.45	3/4
3/8	3/8	3/8	4716x6	.264	.264	.98	1.45	3/4
1/2	1/2	1/2	4716x8	.378	.391	1.10	1.60	7/8
5/8	5/8	5/8	4716x10	.484	.484	1.31	1.97	1-1/16
3/4	3/4	3/4	4716x12	.609	.609	1.47	2.17	1-3/16
3/4	1	3/4	4716x12x12x16	.609	.812	1.62	2.32	1-7/16
3/4	3/4	1	4716x12x16x12	.609	.812	1.62	2.35	1-7/16
1	3/4	1	4716x16x16x12	.812	.609	1.64	2.35	1-7/16
1	1	1	4716x16	.812	.812	1.64	2.35	1-7/16
1-1/4	1-1/4	1-1/4	4716x20	1.046	1.046	1.76	2.45	1-7/8
1-1/2	1-1/2	1-1/2	4716x24	1.313	1.313	1.92	2.59	1-7/8

## 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 J515 Type CH.

Port Size	Catalog Number	W	I.D.
1/16	7629x1	.058 ± .003	.185 ± .005
1/8	7629x2	.064 ± .003	.239 ± .005
3/16	7629x3	.064 ± .003	.301 ± .005
1/4	7629x4	.072 ± .003	.351 ± .005
5/16	7629x5	.072 ± .003	.414 ± .005
3/8	7629x6	.078 ± .003	.468 ± .005
7/16	7629x7	.082 ± .003	.530 ± .005
1/2	7629x8	.087 ± .003	.644 ± .005
5/8	7629x10	.097 ± .003	.755 ± .005
3/4	7629x12	.116 ± .004	.924 ± .006
7/8	7629x14	.116 ± .004	1.048 ± .006
1	7629x16	.116 ± .004	1.171 ± .006
1-1/4	7629x20	.118 ± .004	1.475 ± .010
1-1/2	7629x24	.118 ± .004	1.720 ± .010
2	7629x32	.118 ± .004	2.337 ± .010

• Available in stainless steel.