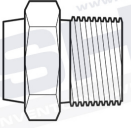
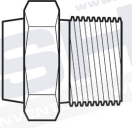
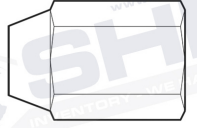
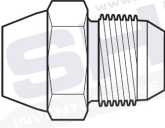
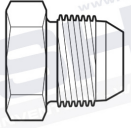
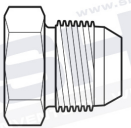
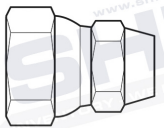
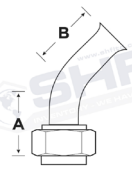
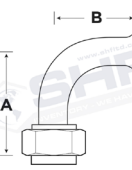
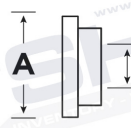
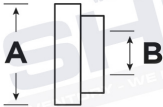
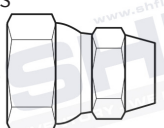
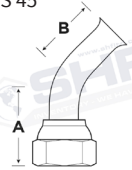
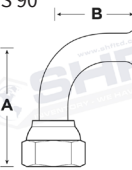
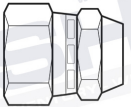
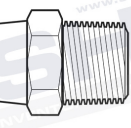
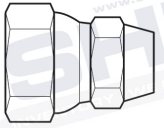
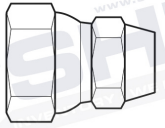
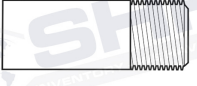


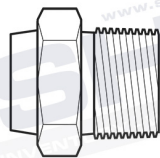
METAL HOSE WELD FITTINGS

SHFWO-MP HEX WELD ON x MALE NPT  p.260	WO-MP316C MALE NPT CAST HEX WELD ON  p.260	SHFWO-FP HEX WELD ON x FEMALE NPT  p.260	SHFWO-MJ HEX WELD ON x MALE JIC  p.261	0402 MJIC x BORE FOR PIPE  p.261
0403 MJIC x BORE FOR TUBING  p.261	SHFWO-FJ HEX WELD ON x FEMALE JIC  p.262	SHFWO-FJ45T HEX WELD ON x FJIC 45°  p.262	SHFWO-FJ90T HEX WELD ON x FJIC 90°  p.262	SHFWO-FL CODE 61 x BORE FOR TUBING  p.263
SHFWO-FH CODE 62 x BORE FOR TUBING  p.263	SHFWO-OFT HEX WELD ON x FEMALE ORFS  p.264	SHFWO-OFT45T HEX WELD ON x FEMALE ORFS 45°  p.264	SHFWO-OFT90T HEX WELD ON x FEMALE ORFS 90°  p.264	SHFWO-BSP HEX WELD ON x FEMALE BSP  p.265
CWO-MP CARBON HEX WELD ON x MALE NPT  p.265	CWO-FJ CARBON HEX WELD ON x FEMALE JIC  p.265	CWO-OFT CARBON HEX WELD ON x FEMALE ORFS  p.266	T SCHEDULE 40 TOE NIPPLE  p.266	



SHFWO-MP - Hex Weld On x Male NPT - Made from Bar Stock

Parts available in 304 and 316 Stainless Steel

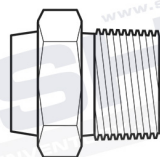


← A →

PART NO	HOSE ID	THREAD	A OAL
SHFWO-04MP	1/4	1/4-18	1.298
SHFWO-06MP	3/8	3/8-18	1.288
SHFWO-08MP	1/2	1/2-14	1.503
SHFWO-12MP	3/4	3/4-14	1.569
SHFWO-16MP	1	1-11 1/2	1.761
SHFWO-20MP	1 1/4	1 1/4-11 1/2	1.756
SHFWO-24MP	1 1/2	1 1/2-11 1/2	1.917
SHFWO-32MP	2	2-11 1/2	1.948

WO-MP316C - Male NPT Cast Hex Weld On

Parts numbers below are for 316 Stainless Steel, 304 SS also available

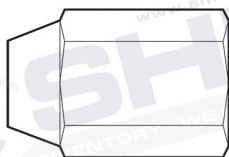


← A →

PART NO	HOSE ID	THREAD	A OAL
WO-04MP316C	1/4	1/4-18	1.180
WO-06MP316C	3/8	3/8-18	1.295
WO-08MP316C	1/2	1/2-14	1.500
WO-12MP316C	3/4	3/4-14	1.460
WO-16MP316C	1	1-11 1/2	1.695
WO-20MP316C	1-1/4	1 1/4-11 1/2	1.775
WO-24MP316C	1 1/2	1 1/2-11 1/2	1.900
WO-32MP316C	2	2-11 1/2	1.97
WO-40MP316C	2 1/2	2 1/2-8	-

SHFWO-FP - Female NPT Cast Hex Weld On

This series is also available in Female NPSM and Female SAE Swivel 45° seat upon request.

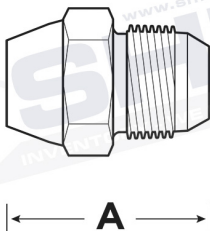


← A →

PART NO	HOSE ID	THREAD	A OAL
SHFWO-04FP	1/4	1/4-18	1.263
SHFWO-06FP	3/8	3/8-18	-
SHFWO-08FP	1/2	1/2-14	-
SHFWO-12FP	3/4	3/4-14	-
SHFWO-16FP	1	1-11 1/2	-
SHFWO-20FP	1 1/4	1 1/4-11 1/2	-
SHFWO-24FP	1 1/2	1 1/2-11 1/2	-
SHFWO-32FP	2	2-11 1/2	-

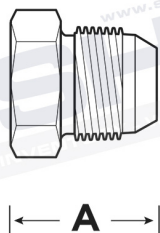
SHFWO-MJ - Hex Weld On x Male JIC 37° Swivel

Parts available in 304 and 316 Stainless Steel



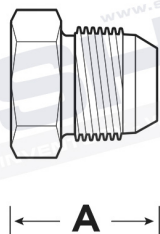
PART NO	HOSE ID	THREAD	A OAL
SHFWO-04MJ	1/4	7/16-20	-
SHFWO-06MJ	3/8	9/16-18	1.321
SHFWO-08MJ	1/2	3/4-16	1.444
SHFWO-10MJ	5/8	7/8-14	-
SHFWO-12MJ	3/4	1 1/16-12	-
SHFWO-16MJ	1	1 5/16-12	-
SHFWO-20MJ	1 1/4	1 5/8-12	-
SHFWO-24MJ	1 1/2	1 7/8-12	-
SHFWO-32MJ	2	2 1/2-12	-

0402 - Male JIC 37° Swivel x Counter Bore for Pipe



PART NO	MJIC-1	THREAD-1	A	B
0402-04	1/4	7/16-20	-	.555
0402-06	3/8	9/16-18	-	.690
0402-08	1/2	3/4-16	.976	.855
0402-12	3/4	1 1/16-12	1.320	1.065
0402-16	1	1 5/16-12	1.365	1.330
0402-20	1-1/4	1 5/8-12	1.501	1.675
0402-24	1-1/2	1 7/8-12	-	1.915
0402-32	2	2 1/2-12	-	2.406

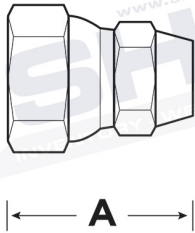
0403 - Male JIC 37° Swivel x Counter Bore for Tubing



PART NO	MJIC-1	THREAD-1	A	B
0403-04	1/4	7/16-20	.800	.250
0403-06	3/8	9/16-18	.844	.375
0403-08	1/2	3/4-16	.944	.500
0403-10	5/8	7/8-14	.965	.625
0403-12	3/4	1 1/16-12	1.280	.750
0403-16	1	1 5/16-12	1.342	1.000
0403-20	1-1/4	1 5/8-12	1.450	1.250
0403-24	1-1/2	1 7/8-12	1.740	1.500
0403-32	2	2 1/2-12	2.055	2.000

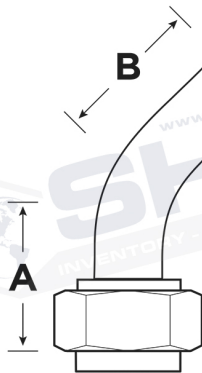
SHFWO-FJ - Hex Weld On x Female JIC 37° Swivel - Straight

Parts available in 304 and 316 Stainless Steel



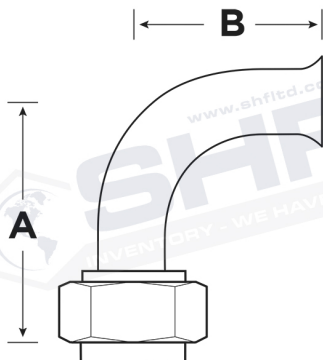
PART NO	HOSE ID	THREAD	A OAL
SHFWO-04FJ	1/4	7/16-20	1.336
SHFWO-06FJ	3/8	9/16-18	1.395
SHFWO-08FJ	1/2	3/4-16	1.488
SHFWO-10FJ	5/8	7/8-14	1.636
SHFWO-12FJ	3/4	1 1/16-12	1.725
SHFWO-16FJ	1	1 5/16-12	1.867
SHFWO-16FJ	1	1 5/16-12	2.973
SHFWO-20FJ	1 1/4	1 5/8-12	2.089
SHFWO-24FJ	1 1/2	1 7/8-12	2.259
SHFWO-32FJ	2	2 1/2-12	2.449
SHFWO-40FJ	2 1/2	3-12	2.774
SHFWO-48FJ	3	3 1/2-12	3.153

SHFWO-FJ45T - Hex Weld On x Female JIC 37° Swivel - 45° Tube Assembly



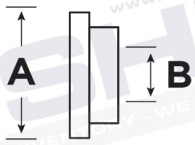
PART NO	HOSE ID	THREAD	A	B
SHFWO-04FJ45T	1/4	7/16-20	0.92	0.75
SHFWO-06FJ45T	3/8	9/16-18	1.11	0.99
SHFWO-08FJ45T	1/2	3/4-16	1.49	1.24
SHFWO-10FJ45T	5/8	7/8-14	-	-
SHFWO-12FJ45T	3/4	1 1/16-12	2.06	1.46
SHFWO-16FJ45T	1	1 5/16-12	2.19	1.84
SHFWO-20FJ45T	1 1/4	1 5/8-12	2.71	2.12
SHFWO-24FJ45T	1 1/2	1 7/8-12	2.91	2.32
SHFWO-32FJ45T	2	2 1/2-12	3.58	3.09

SHFWO-FJ90T - Hex Weld On x Female JIC 37° Swivel - 90° Tube Assembly



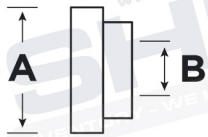
PART NO	HOSE ID	THREAD	A	B
SHFWO-04FJ90T	1/4	7/16-20	1.13	1.00
SHFWO-06FJ90T	3/8	9/16-18	1.50	1.24
SHFWO-08FJ90T	1/2	3/4-16	2.11	1.82
SHFWO-10FJ90T	5/8	7/8-14	-	-
SHFWO-12FJ90T	3/4	1 1/16-12	3.11	2.35
SHFWO-16FJ90T	1	1 5/16-12	3.85	3.13
SHFWO-20FJ90T	1 1/4	1 5/8-12	3.89	3.50
SHFWO-24FJ90T	1 1/2	1 7/8-12	3.94	3.75
SHFWO-32FJ90T	2	2 1/2-12	4.88	4.91

SHFWO-FL - Code 61 Flange x Counter Bore for Tubing



PART NO	FLANGE SIZE	A FLANGE OD	B COUNTER BORE
SHFWO-08FL	1/2	1.19	.500
SHFWO-12FL	3/4	1.50	.750
SHFWO-16FL	1	1.75	1.000
SHFWO-20FL	1 1/4	2.00	1.250
SHFWO-24FL	1 1/2	2.38	1.500
SHFWO-32FL	2	2.81	2.000
SHFWO-40FL	2 1/2	3.31	2.500

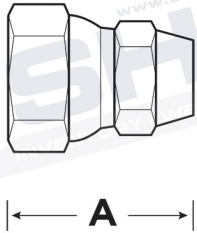
SHFWO-FH - Code 62 Flange x Counter Bore for Tubing



PART NO	FLANGE SIZE	A FLANGE OD	B COUNTER BORE
SHFWO-08FH	1/2	1.25	.500
SHFWO-12FH	3/4	1.63	.750
SHFWO-16FH	1	1.88	1.000
SHFWO-20FH	1 1/4	2.13	1.250
SHFWO-24FH	1 1/2	2.50	1.500
SHFWO-32FH	2	3.13	2.000

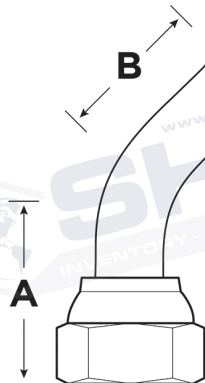


SHFWO-OFT - Hex Weld On x Female O-Ring Face Seal



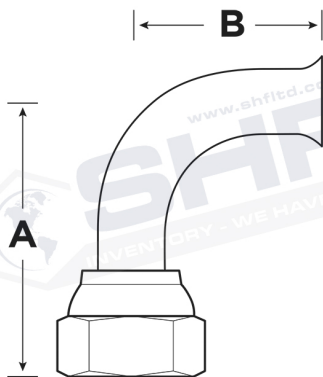
PART NO	HOSE ID	THREAD	A OAL
SHFWO-04OFT	1/4	9/16-18	-
SHFWO-06OFT	3/8	11/16-16	-
SHFWO-08OFT	1/2	13/16-16	1.619
SHFWO-10OFT	5/8	1-14	-
SHFWO-12OFT	3/4	1 13/16-12	1.84
SHFWO-16OFT	1	1 7/16-12	1.980
SHFWO-20OFT	1 1/4	1 11/16-12	-
SHFWO-24OFT	1 1/2	2-12	-
SHFWO-32OFT	2	2 1/2-12	-

SHFWO-OFT45T - Hex Weld On x Female O-Ring Face Seal - 45° Tube Assembly



PART NO	HOSE ID	THREAD	A OAL	B DROP
SHFWO-04OFT45T	1/4	9/16-18	-	-
SHFWO-06OFT45T	3/8	11/16-16	-	-
SHFWO-08OFT45T	1/2	13/16-16	-	-
SHFWO-10OFT45T	5/8	1-14	-	-
SHFWO-12OFT45T	3/4	1 13/16-12	-	-
SHFWO-16OFT45T	1	1 7/16-12	-	-
SHFWO-20OFT45T	1 1/4	1 11/16-12	-	-
SHFWO-24OFT45T	1 1/2	2-12	-	-
SHFWO-32OFT45T	2	2 1/2-12	-	-

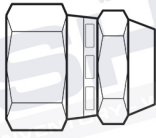
SHFWO-OFT90T - Hex Weld On x Female O-Ring Face Seal - 90° Tube Assembly



PART NO	HOSE ID	THREAD	A OAL	B DROP
SHFWO-04OFT90T	1/4	9/16-18	-	-
SHFWO-06OFT90T	3/8	11/16-16	-	-
SHFWO-08OFT90T	1/2	13/16-16	-	-
SHFWO-10OFT90T	5/8	1-14	-	-
SHFWO-12OFT90T	3/4	1 13/16-12	-	-
SHFWO-16OFT45T	1	1 7/16-12	-	-
SHFWO-20OFT45T	1 1/4	1 11/16-12	-	-
SHFWO-24OFT45T	1 1/2	2-12	-	-
SHFWO-32OFT45T	2	2 1/2-12	-	-

SHFWO-BSP - Hex Weld On x Swivel Female BSP 60° Cone

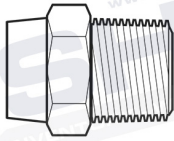
Parts available in 304 and 316 Stainless Steel



← A →

PART NO	HOSE ID	THREAD	A OAL
SHFWO-04BSP	1/4	1/4-19	-
SHFWO-06BSP	3/8	3/8-19	-
SHFWO-08BSP	1/2	1/2-14	1.698
SHFWO-12BSP	3/4	3/4-14	1.803
SHFWO-16BSP	1	1-11	1.839
SHFWO-20BSP	1 1/4	1 1/4-11	2.104
SHFWO-24BSP	1 1/2	1 1/2-11	2.236
SHFWO-32BSP	2	2-11	-

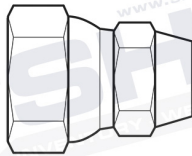
CWO-MP - Carbon Hex Weld On x Male NPT



← A →

PART NO	HOSE ID	THREAD	A OAL
CWO-04MP	1/4	1/4-18	1.298
CWO-06MP	3/8	3/8-18	1.288
CWO-08MP	1/2	1/2-14	1.503
CWO-12MP	3/4	3/4-14	1.569
CWO-16MP	1	1-11 1/2	1.761
CWO-20MP	1 1/4	1 1/4-11 1/2	1.756
CWO-24MP	1 1/2	1 1/2-11 1/2	1.917
CWO-32MP	2	2-11 1/2	1.948

CWO-FJ - Carbon Hex Weld On x Female JIC 37° Swivel

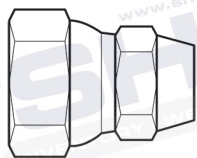


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PART NO	HOSE ID	THREAD	A OAL
CWO-04FJ	1/4	7/16-20	1.315
CWO-06FJ	3/8	9/16-18	1.396
CWO-08FJ	1/2	3/4-16	1.545
CWO-10FJ	5/8	7/8-14	1.636
CWO-12FJ	3/4	1 1/16-12	1.710
CWO-16FJ	1	1 5/16-12	1.888
CWO-20FJ	1 1/4	1 5/8-12	2.006
CWO-24FJ	1 1/2	1 7/8-12	2.321
CWO-32FJ	2	2 1/2-12	2.494

CWO-OFT - Carbon Hex Weld On x Female O-Ring Face Seal

Parts made of carbon steel.



PART NO	HOSE ID	THREAD	A OAL
CWO-08OFT	1/2	13/16-16	1.581
CWO-12OFT	3/4	1 13/16-12	1.870
CWO-16OFT	1	1 7/16-12	1.986
CWO-20OFT	1 1/4	1 11/16-12	2.073
CWO-24OFT	1 1/2	2-12	-

Schedule 40 Toe Nipple - 304 Stainless Steel

Schedule 40 pipe butt weld x Male NPT Toe Nipple.
Parts made of either 304 or 316 Stainless Steel.



PART NO	MP-1	MATERIAL	THREAD-1	A
T08x2 304	1/2	304	1/2-14	2
T08x2 316	1/2	316	1/2-14	2
T12x2 304	3/4	304	3/4-14	2
T12x2 316	3/4	316	3/4-14	2
T12x3 304	3/4	304	3/4-14	3
T16x2 304	1	304	1-11 1/2	2
T16x2 316	1	316	1-11 1/2	2
T16x3 304	1	304	1-11 1/2	3
T20x2 1/2 304	1-1/4	304	1 1/4-11 1/2	2 1/2
T20x2-1/2 316	1-1/4	316	1 1/4-11 1/2	2 1/2
T24x2 1/2 304	1-1/2	304	1 1/2-11	2 1/2
T24x2-1/2 316	1-1/2	316	1 1/2-11	2 1/2
T24x3 1/2 304	1-1/2	304	1 1/2-11	3 1/2
T32x2 1/2 304	2	304	2-11 1/2	2 1/2
T32x2-1/2 316	2	316	2-11 1/2	2 1/2
T32x3 1/2 304	2	304	2-11 1/2	3 1/2
T40x3 304	2-1/2	304	2 1/2-8	3
T40x3 316	2-1/2	316	2 1/2-8	3
T48x3 304	3	304	3-8	3
T48x3 316	3	316	3-8	3
T64x3 304	4	304	4-8	3
T64x3 316	4	316	4-8	3