

Interlock Skive Ferrules



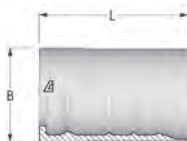
XF1

Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
XF1-10	10	5/8	15.9	35.5	57.5	0.50
XF1-20	20	1 1/4	31.8	64.0	88.1	1.40
XF1-24	24	1 1/2	38.1	69.5	94.1	1.90
XF1-32	32	2	50.8	88.0	99.0	3.24
XF1-40	40	2 1/2	63.0	102.0	110.0	3.95



XF2

Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
XF2-06	06	3/8	9.5	27	49.0	0.19
XF2-08	08	1/2	12.7	30	52.5	0.25
XF2-10	10	5/8	15.9	34	57.5	0.30
XF2-12	12	3/4	19.0	38	60.1	0.32
XF2-16	16	1	25.4	46	74.6	0.59
XF2-20	20	1 1/4	31.8	55	88.1	1.10
XF2-24	24	1 1/2	38.1	62	94.1	1.29
XF2-32	32	2	50.8	78	99.1	1.98



ZF1

Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
ZF1-32	32	2	50.8	88	108.2	3.30
ZF1-40	40	2 1/2	63.0	109	134.0	3.78
ZF1-48	48	3	76.0	122	149.0	4.21

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HOSES

ONE-PIECE
B SERIES

ONE-PIECE
D SERIES

ONE-PIECE
F & P SERIES

TWO-PIECE FERRULES
(A & PFR SERIES)

TWO-PIECE INSERTS
(A SERIES)

TWO-PIECE INTERLOCK
FERRULES & INSERTS
(X & Z SERIES)

QUICK
RELEASE

ASSEMBLY
EQUIPMENT

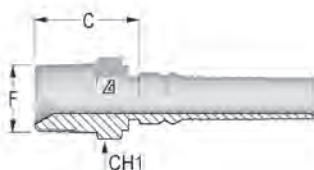
TECHNICAL
INFORMATION

Two-Piece Fittings

- X Series

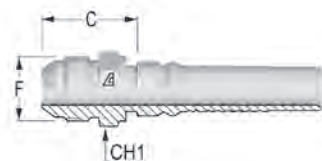


Interlock Inserts – US End Configurations



NPTF Male 60° Seat Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-0606-MNPT	06	3/8	9.5	06	3/8-19	26.0	19	0.17
X-0808-MNPT	08	1/2	12.7	08	1/2-14	32.0	22	0.21
X-1012-MNPT	10	5/8	15.9	12	3/4-14	32.0	27	0.28
X-1212-MNPT	12	3/4	19.0	12	3/4-14	32.0	27	0.35
X-1616-MNPT	16	1	25.4	16	1-11 1/2	41.0	36	0.70
X-2020-MNPT	20	1 1/4	31.8	20	1 1/4-11 1/2	46.2	46	1.21
X-2424-MNPT	24	1 1/2	38.1	24	1 1/2-11 1/2	47.5	50	1.68
X-3232-MNPT	32	2	50.8	32	2-11 1/2	51.0	65	2.48

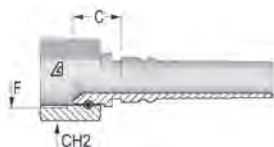


JIC Male 37° Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-0808-MJIC	08	1/2	12.7	08	3/4-16	28.0	19	0.34
X-1212-MJIC	12	3/4	19.0	12	1 1/16-12	39.1	36	0.43
X-1616-MJIC	16	1	25.4	16	1 5/16-12	40.1	36	0.50
X-2020-MJIC	20	1 1/4	31.8	20	1 5/8-12	45.5	46	0.68
X-2424-MJIC	24	1 1/2	38.1	24	1 7/8-12	51.0	50	1.20
X-3232-MJIC	32	2	50.8	32	2 1/2-12	58.9	65	1.76

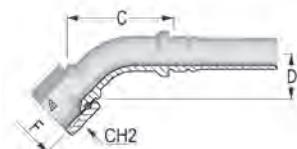
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Interlock Inserts – US End Configurations



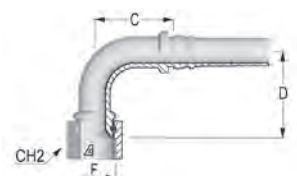
JIC Swivel Female 37° Seat Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-1212-FJSH	12	3/4	19.0	12	1 1/16-12	18.7	32	0.41
X-1616-FJSH	16	1	25.4	16	1 5/16-12	22.5	38	0.66
X-2020-FJSH	20	1 1/4	31.8	20	1 5/8-12	25.7	50	1.24
X-2424-FJSH	24	1 1/2	38.1	24	1 7/8-12	29.0	55	1.72
X-3232-FJSH	32	2	50.8	32	2 1/2-12	34.0	70	2.80



45° JIC Swivel Female 37° Seat Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
X-1212-FJ45	12	3/4	19.0	12	1 1/16-12	66.0	27.5	32	0.69
X-1616-FJ45	16	1	25.4	16	1 5/16-12	79.5	31.0	38	1.24
X-2020-FJ45	20	1 1/4	31.8	20	1 5/8-12	93.7	37.0	50	1.73
X-2424-FJ45	24	1 1/2	38.1	24	1 7/8-12	107.0	38.0	55	2.78
X-3232-FJ45	32	2	50.8	32	2 1/2-12	148.0	51.5	70	4.96



90° JIC Swivel Female 37° Seat Interlock

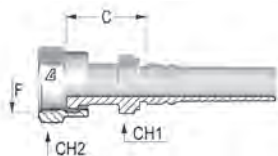
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
X-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	52.0	57.0	32	0.66
X-1616-FJ9M	16	1	25.4	16	1 5/16-12	70.0	67.0	38	0.94
X-2020-FJ9M	20	1 1/4	31.8	20	1 5/8-12	79.2	78.0	50	2.10
X-2424-FJ9M	24	1 1/2	38.1	24	1 7/8-12	94.5	92.0	55	3.09
X-3232-FJ9M	32	2	50.8	32	2 1/2-12	146.0	120.5	70	5.51

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Two-Piece Fittings - X Series

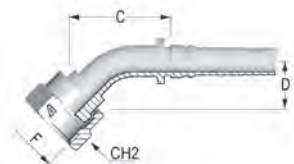


Interlock Inserts – US End Configurations



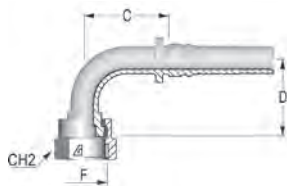
ORFS Straight Female – Double Hex Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
X-1012-F0FS	10	5/8	15.9	12	1 3/16-12	40.0	30	36	0.28
X-1212-F0FS	12	3/4	19.0	12	1 3/16-12	40.0	30	36	0.59
X-1216-F0FS	12	3/4	19.0	16	1 7/16-12	43.0	36	41	0.82
X-1616-F0FS	16	1	25.4	16	1 7/16-12	47.0	36	41	0.90
X-1620-F0FS	16	1	25.4	20	1 11/16-12	49.0	46	50	1.28
X-2020-F0FS	20	1 1/4	31.8	20	1 11/16-12	47.2	46	50	1.46
X-2424-F0FS	24	1 1/2	38.1	24	2-12	52.0	50	60	1.70



45° ORFS Female Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
X-1212-F045	12	3/4	19.0	12	1 3/16-12	77.0	26	36	0.22
X-1216-F045	12	3/4	19.0	16	1 7/16-12	68.4	28	41	0.79
X-1616-F045	16	1	25.4	16	1 7/16-12	75.0	28	41	1.10
X-1620-F045	16	1	25.4	20	1 11/16-12	83.4	28	50	1.35
X-2020-F045	20	1 1/4	31.8	20	1 11/16-12	100.7	33	50	1.89
X-2424-F045	24	1 1/2	38.1	24	2-12	107.0	36.5	60	2.15

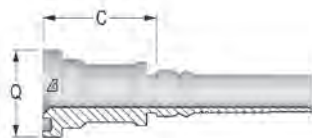


90° ORFS Female Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
X-1012-F09M	10	5/8	15.9	12	1 3/16-12	48.1	58	36	0.23
X-1212-F09M	12	3/4	19.0	12	1 3/16-12	64.2	58	36	0.86
X-1216-F09M	12	3/4	19.0	16	1 7/16-12	66.2	58	41	1.10
X-1616-F09M	16	1	25.4	16	1 7/16-12	75.2	66	41	1.20
X-1620-F09M	16	1	25.4	20	1 11/16-12	73.2	66	50	1.47
X-2020-F09M	20	1 1/4	31.8	20	1 11/16-12	91.7	81	50	1.98
X-2424-F09M	24	1 1/2	38.1	24	2-12	99.0	84	60	2.25

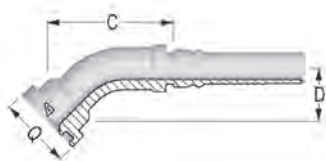
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Interlock Inserts – US End Configurations



O-Ring Flange SAE J518 Code 61 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max Working Pressure (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
X-0808-C61S	08	1/2	12.7	1.19	30.2	39.0	5000	0.32
X-1012-C61S	10	5/8	15.9	1.50	38.1	40.0	5000	0.44
X-1212-C61S	12	3/4	19.0	1.50	38.1	40.0	5000	0.61
X-1216-C61S	12	3/4	19.0	1.75	44.5	48.0	5000	0.66
X-1616-C61S	16	1	25.4	1.75	44.5	49.0	5000	0.93
X-1620-C61S	16	1	25.4	2.00	50.8	51.5	4000	0.95
X-2020-C61S	20	1 1/4	31.8	2.00	50.8	52.7	4000	1.32
X-2024-C61S	20	1 1/4	31.8	2.38	60.3	55.7	3000	1.59
X-2424-C61S	24	1 1/2	38.1	2.38	60.3	56.0	3000	1.81
X-2432-C61S	24	1 1/2	38.1	2.81	71.4	67.5	3000	2.65
X-3232-C61S	32	2	50.8	2.81	71.4	69.0	3000	2.87



45° O-Ring Flange SAE J518 Code 61 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max Working Pressure (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-0808-C614	08	1/2	12.7	1.19	30.2	51.0	22.0	5000	0.39
X-1212-C614	12	3/4	19.0	1.50	38.1	68.0	25.0	5000	0.63
X-1216-C614	12	3/4	19.0	1.75	44.5	92.5	28.0	5000	0.89
X-1616-C614	16	1	25.4	1.75	44.5	82.5	29.0	5000	0.99
X-1620-C614	16	1	25.4	2.00	50.8	95.6	30.0	4000	1.41
X-2020-C614	20	1 1/4	31.8	2.00	50.8	100.9	32.5	4000	0.88
X-2024-C614	20	1 1/4	31.8	2.38	60.3	92.8	40.0	3000	1.76
X-2424-C614	24	1 1/2	38.1	2.38	60.3	103.7	43.0	3000	2.65
X-2432-C614	24	1 1/2	38.1	2.81	71.4	132.7	56.5	3000	2.87
X-3232-C614	32	2	50.8	2.81	71.4	138.1	54.0	3000	3.53

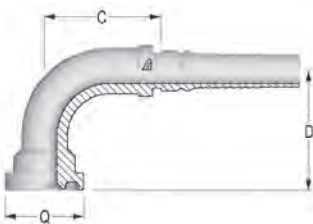
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Two-Piece Fittings

- X Series

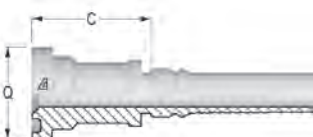


Interlock Inserts – US End Configurations



90° O-Ring Flange SAE J518 Code 61 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1012-C619	10	5/8	15.9	1.50	38.1	53.0	55	5000	0.61
X-1212-C619	12	3/4	19.0	1.50	38.1	58.0	55	5000	0.74
X-1216-C619	12	3/4	19.0	1.75	44.5	64.0	59	5000	0.85
X-1616-C619	16	1	25.4	1.75	44.5	72.2	64	5000	1.10
X-1620-C619	16	1	25.4	2.00	50.8	70.2	69	4000	1.22
X-2020-C619	20	1 1/4	31.8	2.00	50.8	86.2	81	4000	1.65
X-2024-C619	20	1 1/4	31.8	2.38	60.3	81.2	85	3000	2.21
X-2424-C619	24	1 1/2	38.1	2.38	60.3	95.5	93	3000	2.51
X-2432-C619	24	1 1/2	38.1	2.81	71.4	130.3	97	3000	3.26
X-3232-C619	32	2	50.8	2.81	71.4	134.4	130	3000	4.41

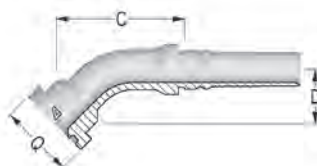


O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
X-1012-C62S	10	5/8	15.9	1.63	41.3	50.0	6000	0.55
X-1212-C62S	12	3/4	19.0	1.63	41.3	50.0	6000	0.64
X-1216-C62S	12	3/4	19.0	1.88	47.6	53.0	6000	0.79
X-1616-C62S	16	1	25.4	1.88	47.6	54.0	6000	0.99
X-1620-C62S	16	1	25.4	2.13	54.0	61.0	6000	1.25
X-2020-C62S	20	1 1/4	31.8	2.13	54.0	62.2	6000	1.48
X-2024-C62S	20	1 1/4	31.8	2.50	63.5	68.2	6000	1.85
X-2424-C62S	24	1 1/2	38.1	2.50	63.5	68.5	6000	2.21
X-2432-C62S	24	1 1/2	38.1	3.13	79.4	80.5	6000	3.75
X-3232-C62S	32	2	50.8	3.13	79.4	87.0	6000	3.11

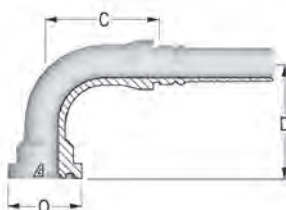
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Interlock Inserts – US End Configurations



45° O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1212-C624	12	3/4	19.0	1.63	41.3	72.1	30.0	6000	0.74
X-1216-C624	12	3/4	19.0	1.88	47.6	76.8	33.0	6000	1.05
X-1616-C624	16	1	25.4	1.88	47.6	94.8	35.0	6000	1.12
X-1620-C624	16	1	25.4	2.13	54.0	91.3	44.0	6000	1.43
X-2020-C624	20	1 1/4	31.8	2.13	54.0	102.0	39.5	6000	2.08
X-2024-C624	20	1 1/4	31.8	2.50	63.5	111.7	48.0	6000	1.98
X-2424-C624	24	1 1/2	38.1	2.50	63.5	136.3	48.0	6000	2.67
X-2432-C624	24	1 1/2	38.1	3.13	79.4	129.1	55.0	6000	3.97
X-3232-C624	32	2	50.8	3.13	79.4	160.6	63.0	6000	5.14



90° O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1008-C629	10	5/8	15.9	1.25	31.8	47.0	55.0	6000	0.63
X-1012-C629	10	5/8	15.9	1.63	41.3	47.0	55.0	6000	0.64
X-1212-C629	12	3/4	19.0	1.63	41.3	61.2	64.0	6000	0.80
X-1216-C629	12	3/4	19.0	1.88	47.6	61.2	66.0	6000	1.06
X-1616-C629	16	1	25.4	1.88	47.6	70.4	74.0	6000	1.54
X-1620-C629	16	1	25.4	2.13	54.0	77.2	80.0	6000	1.62
X-2020-C629	20	1 1/4	31.8	2.13	54.0	88.2	91.0	6000	2.47
X-2024-C629	20	1 1/4	31.8	2.50	63.5	92.9	103.5	6000	3.08
X-2424-C629	24	1 1/2	38.1	2.50	63.5	106.3	109.0	6000	2.69
X-2432-C629	24	1 1/2	38.1	3.13	79.4	106.5	121.5	6000	4.41
X-3232-C629	32	2	50.8	3.13	79.4	149.0	138.5	6000	6.17

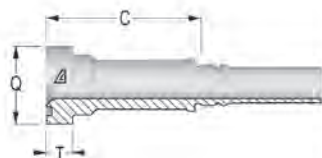
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Two-Piece Fittings

- X Series

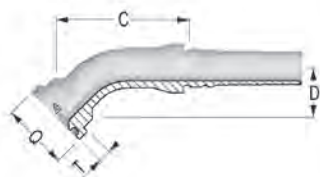


Interlock Inserts – US End Configurations



O-Ring SUPERCAT 6000 PSI Flange Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	T (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
X-1212-CFLS	12	3/4	19.0	1.63	41.3	82.0	14.3	0.64
X-1216-CFLS	12	3/4	19.0	1.88	47.6	82.0	14.3	0.79
X-1616-CFLS	16	1	25.4	1.88	47.6	90.0	14.3	0.99
X-1620-CFLS	16	1	25.4	2.13	54.0	90.0	14.3	1.25
X-2020-CFLS	20	1 1/4	31.8	2.13	54.0	86.2	14.3	1.48
X-2024-CFLS	20	1 1/4	31.8	2.50	63.5	83.2	14.3	1.85

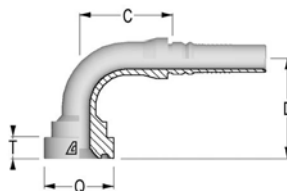


45° O-Ring SUPERCAT 6000 PSI Flange Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	T (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1212-CFL4	12	3/4	19.0	1.63	41.3	83	34.0	14.3	0.74
X-1216-CFL4	12	3/4	19.0	1.88	47.6	87	34.0	14.3	1.05
X-1616-CFL4	16	1	25.4	1.88	47.6	94	40.0	14.3	1.12
X-1620-CFL4	16	1	25.4	2.13	54.0	95	40.0	14.3	1.43
X-2020-CFL4	20	1 1/4	31.8	2.13	54.0	104	43.0	14.3	2.08
X-2024-CFL4	20	1 1/4	31.8	2.50	63.5	110	49.5	14.3	1.98

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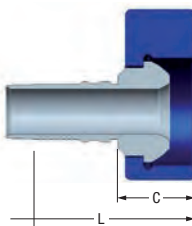
Interlock Inserts – US End Configurations



90° O-Ring SUPERCAT 6000 PSI Flange Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	T (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1212-CFL9	12	3/4	19.0	1.63	41.3	64	67.0	14.3	0.80
X-1216-CFL9	12	3/4	19.0	1.88	47.6	65	70.0	14.3	1.06
X-1616-CFL9	16	1	25.4	1.88	44.5	80	79.0	14.3	1.54
X-1620-CFL9	16	1	25.4	2.13	50.8	75	82.5	14.3	1.62
X-2020-CFL9	20	1 1/4	31.8	2.13	50.8	89	93.0	14.3	2.47
X-2024-CFL9	20	1 1/4	31.8	2.50	60.3	91	101.0	14.3	3.08

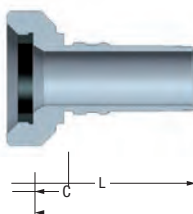
NEW



Male Hammer Union Fig. 1502 integral fitting with Lug Nut – Use with Alfabiotech 5000 and Flexor Rig hoses

Part Number	Dash Size	Hose ID (in)	Hose ID (mm)	C Cut-Off (mm)	L Overall Length (mm)	Weight (lbs/each)
X-3232-MHUN	32	2	50.8	71.0	152	14.11

NEW



Female Hammer Union Fig. 1502 integral fitting with Rubber Ring – Use with Alfabiotech 5000 and Flexor Rig hoses

Part Number	Dash Size	Hose ID (in)	Hose ID (mm)	C Cut-Off (mm)	L Overall Length (mm)	Weight (lbs/each)
X-3232-FHUN	32	2	50.8	67.5	148.5	5.07

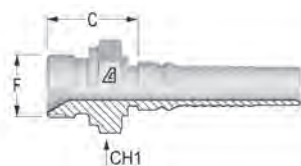
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Two-Piece Fittings

- X Series

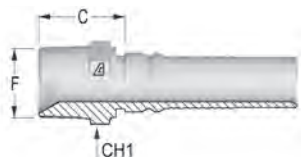


Interlock Inserts – International End Configurations



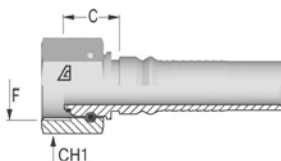
BSP Male Parallel 60° Seat Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-1212-MBPP	12	3/4	19.0	12	3/4-14	32.0	32	0.40
X-1616-MBPP	16	1	25.4	16	1-11	38.0	41	0.75
X-1620-MBPP	16	1	25.4	20	1 1/4-11	44.0	50	1.00
X-2020-MBPP	20	1 1/4	31.8	20	1 1/4-11	44.2	50	1.27
X-2424-MBPP	24	1 1/2	38.1	24	1 1/2-11	46.5	55	1.76
X-3232-MBPP	32	2	50.8	32	2-11	52.5	70	2.80



BSP/JIS Male Tapered Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-1212-MBPT	12	3/4	19.0	12	3/4-14	32.0	27	0.34
X-1616-MBPT	16	1	25.4	16	1-11	41.0	36	0.71
X-2020-MBPT	20	1 1/4	31.8	20	1 1/4-11	46.2	46	1.28
X-2424-MBPT	24	1 1/2	38.1	24	1 1/2-11	48.0	50	1.77
X-3232-MBPT	32	2	50.8	32	2-11	53.2	65	2.77

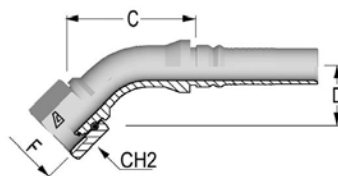


BSP/JIS Swivel Female 60° Cone Interlock

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
X-0808-FBPO	08	1/2	12.7	08	1/2-14	22.5	27	0.32
X-1212-FBPO	12	3/4	19.0	12	3/4-14	25.5	32	0.42
X-1616-FBPO	16	1	25.4	16	1-11	30.2	38	0.71
X-2020-FBPO	20	1 1/4	31.8	20	1 1/4-11	33.5	50	1.29
X-2424-FBPO	24	1 1/2	38.1	24	1 1/2-11	35.0	55	1.79
X-3232-FBPO	32	2	50.8	32	2-11	33.0	70	2.77

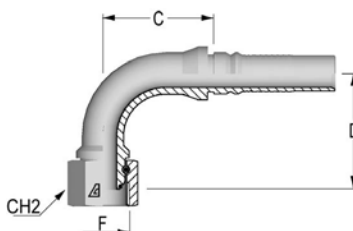
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Interlock Inserts – International End Configurations



45° BSP Swivel Female 60° Cone Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1212-FB04	12	3/4	19.0	12	3/4-14	69.0	30	32	0.71
X-1616-FB04	16	1	25.4	16	1-11	103.5	34	38	0.71
X-2020-FB04	20	1 1/4	31.8	20	1 1/4-11	97.2	40	50	1.87
X-2424-FB04	24	1 1/2	38.1	24	1 1/2-11	108.5	46	55	4.41
X-3232-FB04	32	2	50.8	32	2-11	143.0	60	70	3.97



90° BSP Swivel Female 60° Cone Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
X-1212-FB09	12	3/4	19.0	12	3/4-14	58.0	61	32	0.79
X-1616-FB09	16	1	25.4	16	1-11	71.0	71	38	1.24
X-2020-FB09	20	1 1/4	31.8	20	1 1/4-11	79.2	83	50	2.07
X-2424-FB09	24	1 1/2	38.1	24	1 1/2-11	93.5	96	55	3.22
X-3232-FB09	32	2	50.8	32	2-11	144.0	125	70	5.51

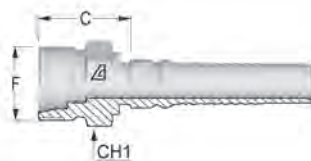
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Two-Piece Fittings

- X Series

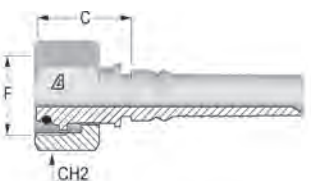


Interlock Inserts – International End Configurations



Metric Male 24° Seat Interlock – DIN 3861 Heavy

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)					
X-0824-MMSH	08	1/2	12.7	M24x1.5	16	27.0	24	0.20
X-1030-MMSH	10	5/8	15.9	M30x2	20	31.0	32	0.33
X-1236-MMSH	12	3/4	19.0	M36x2	25	35.0	36	0.47
X-1642-MMSH	16	1	25.4	M42x2	30	40.0	46	0.86
X-2052-MMSH	20	1 1/4	31.8	M52x2	38	45.2	55	1.41

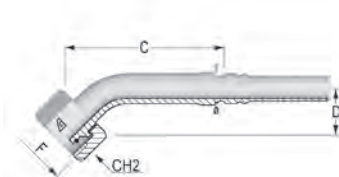


Metric Female O-Ring Swivel Interlock – DIN 3865 Heavy

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	Tube OD (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)					
X-0824-FMOH	08	1/2	12.7	M24x1.5	16	29.8	30	0.48
X-1030-FMOH	10	5/8	15.9	M30x2	20	37.6	36	0.49
X-1230-FMOH	12	3/4	19.0	M30x2	20	37.5	36	0.80
X-1236-FMOH	12	3/4	19.0	M36x2	25	41.0	46	0.84
X-1636-FMOH	16	1	25.4	M36x2	25	38.8	46	0.98
X-1642-FMOH	16	1	25.4	M42x2	30	40.7	50	1.10
X-2052-FMOH	20	1 1/4	31.8	M52x2	38	45.3	60	1.85

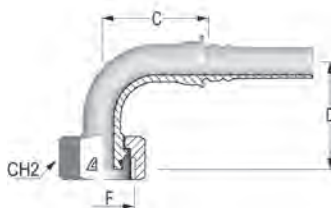
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Interlock Inserts – International End Configurations



45° Metric Female O-Ring Swivel – DIN 3865 Heavy

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)						
X-0824-FM4H	08	1/2	12.7	M24x1.5	16	59.0	29.0	30	0.44
X-1030-FM4H	10	5/8	15.9	M30x2	20	60.5	31.5	36	0.58
X-1230-FM4H	12	3/4	19.0	M30x2	20	74.0	33.0	36	0.85
X-1236-FM4H	12	3/4	19.0	M36x2	25	78.0	36.0	46	0.88
X-1642-FM4H	16	1	25.4	M42x2	30	96.8	38.0	50	1.43
X-2052-FM4H	20	1 1/4	31.8	M52x2	38	112.7	48.0	60	2.21



90° Metric Female O-Ring Swivel – DIN 3865 Heavy

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)						
X-0824-FM9H	08	1/2	12.7	M24x1.5	16	55.0	50.0	30	0.43
X-1030-FM9H	10	5/8	15.9	M30x2	20	51.0	55.0	36	0.64
X-1230-FM9H	12	3/4	19.0	M30x2	20	61.0	67.5	36	1.12
X-1236-FM9H	12	3/4	19.0	M36x2	25	61.7	65.0	46	1.17
X-1642-FM9H	16	1	25.4	M42x2	30	86.4	79.0	50	1.53
X-2052-FM9H	20	1 1/4	31.8	M52x2	38	90.9	101.0	60	2.43

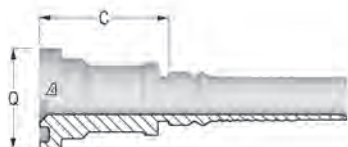
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Two-Piece Fittings

- Z Series

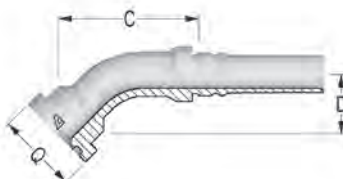


Interlock Inserts – US End Configurations



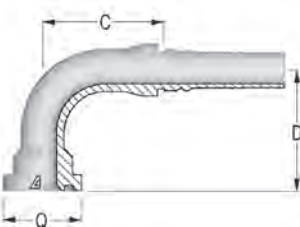
O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
Z-3224-C62S	32	2	50.8	2.50	63.5	106	6000	3.11
Z-3232-C62S	32	2	50.8	3.13	79.4	104	6000	3.75



45° O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	D-Drop (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
Z-3232-C624	32	2	50.8	3.13	79.4	141	63	6000	5.14

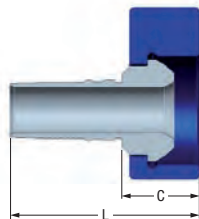


90° O-Ring Flange SAE J518 Code 62 Interlock

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor	D-Drop (mm)	Max WP (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
Z-3224-C629	32	2	50.8	2.50	63.5	134	112	6000	5.41
Z-3232-C629	32	2	50.8	3.13	79.4	132	138	6000	6.17

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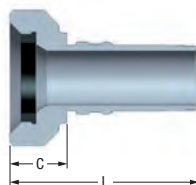
Interlock Inserts – US End Configurations

NEW


Male Hammer Union Fig. 1502 integral fitting with Lug Nut – Use with Alfabiotech 6000 and 10K

Cementing hoses

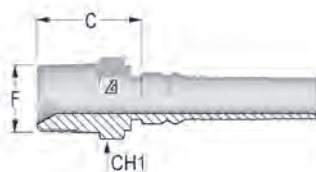
Part Number	Dash Size	Hose ID (in)	Hose ID (mm)	C Cut-Off (mm)	L Overall Length (mm)	Weight (lbs/each)
Z-3232-MHUN	32	2	50.8	60.8	162.2	14.55

NEW


Female Hammer Union Fig. 1502 integral fitting with Rubber Ring – Use with Alfabiotech 6000 and 10K

Cementing hoses

Part Number	Dash Size	Hose ID (in)	Hose ID (mm)	C Cut-Off (mm)	L Overall Length (mm)	Weight (lbs/each)
Z-3232-FHUN	32	2	50.8	57.3	158.7	5.73



API Male NPT

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI			
Z-3232-MAPI	32	2	50.8	32	2 - 11 1/2	114.5	65	4.50

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