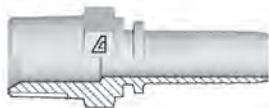


Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations



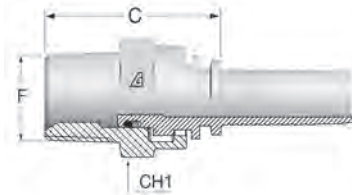
NPTF Male 60° Seat

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			
A-0302-MNPT	03	3/16	4.8	02	1/8-27	19.8	12	0.03
A-0304-MNPT	03	3/16	4.8	04	1/4-18	21.3	17	0.04
A-0402-MNPT	04	1/4	6.4	02	1/8-27	21.3	14	0.04
A-0404-MNPT	04	1/4	6.4	04	1/4-18	26.8	17	0.06
A-0406-MNPT	04	1/4	6.4	06	3/8-18	27.8	19	0.08
A-0408-MNPT	04	1/4	6.4	08	1/2-14	28.6	22	0.20
A-0504-MNPT	05	5/16	7.9	04	1/4-18	26.8	17	0.07
A-0506-MNPT	05	5/16	7.9	06	3/8-18	27.8	19	0.11
A-0604-MNPT	06	3/8	9.5	04	1/4-18	26.8	17	0.07
A-0606-MNPT	06	3/8	9.5	06	3/8-18	27.8	19	0.09
A-0608-MNPT	06	3/8	9.5	08	1/2-14	31.3	22	0.15
A-0806-MNPT	08	1/2	12.7	06	3/8-18	28.6	19	0.12
A-0808-MNPT	08	1/2	12.7	08	1/2-14	32.1	22	0.17
A-0812-MNPT	08	1/2	12.7	12	3/4-14	34.1	27	0.22
A-1008-MNPT	10	5/8	15.9	08	1/2-14	32.1	27	0.23
A-1012-MNPT	10	5/8	15.9	12	3/4-14	34.1	27	0.24
A-1208-MNPT	12	3/4	19.0	08	1/2-14	32.1	19	0.25
A-1212-MNPT	12	3/4	19.0	12	3/4-14	34.6	27	0.26
A-1216-MNPT	12	3/4	19.0	16	1-11 1/2	43.6	36	0.46
A-1416-MNPT	14	7/8	22.0	16	1-11 1/2	43.6	36	0.48
A-1612-MNPT	16	1	25.4	12	3/4-14	34.6	27	0.51
A-1616-MNPT	16	1	25.4	16	1-11 1/2	44.4	36	0.53
A-1620-MNPT	16	1	25.4	20	1 1/4-11 1/2	47.4	46	1.10
A-1820-MNPT	18	1 1/8	29.0	20	1 1/4-11 1/2	49.0	46	1.10
A-2020-MNPT	20	1 1/4	31.8	20	1 1/4-11 1/2	49.0	46	0.90
A-2224-MNPT	22	1 3/8	35.0	24	1 1/2-11 1/2	50.5	50	1.10
A-2424-MNPT	24	1 1/2	38.1	24	1 1/2-11 1/2	50.5	50	1.10
A-2932-MNPT	29	1 13/16	46.0	24	2-11 1/2	54.0	65	2.86
A-3232-MNPT	32	2	50.8	32	2-11 1/2	54.2	65	2.87

NOTE: Also available in stainless steel in some sizes. To order stainless, add -SS to the end of the part number.
Example: A-0606-XXXX-SS

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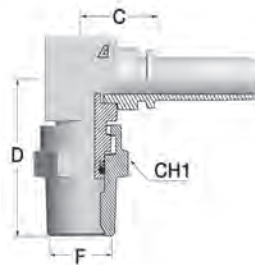
Inserts for two-piece fittings – US End Configurations



NPTF Male Swivel 60° Seat

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			
A-0404-MNPS	04	1/4	6.4	04	1/4-18	37.6	17	0.09
A-0406-MNPS	04	1/4	6.4	06	3/8-18	39.5	22	0.11
A-0604-MNPS	06	3/8	9.5	04	1/4-18	39.6	17	0.12
A-0606-MNPS	06	3/8	9.5	06	3/8-18	37.5	22	0.15
A-0608-MNPS	06	3/8	9.5	08	1/2-14	38.0	25	0.16
A-0806-MNPS	08	1/2	12.7	06	3/8-18	38.3	22	0.17
A-0808-MNPS	08	1/2	12.7	08	1/2-14	42.3	25	0.25
A-1212-MNPS	12	3/4	19.0	12	3/4-14	50.1	32	0.31
A-1616-MNPS	16	1	25.4	16	1-11 1/2	57.9	41	0.63

NOTE: Also available in stainless steel in some sizes. To order stainless, add -SS to the end of the part number.
Example: A-0606-XXXX-SS



90° Compact NPTF Male Swivel 60° Seat

Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-MPS9	04	1/4	6.4	04	1/4-18	17	39	17	0.12
A-0406-MPS9	04	1/4	6.4	06	3/8-18	19	39	22	0.13
A-0604-MPS9	06	3/8	9.5	04	1/4-18	17	41	17	0.15
A-0606-MPS9	06	3/8	9.5	06	3/8-18	20	41	22	0.17
A-0608-MPS9	06	3/8	9.5	08	1/2-14	22	41	25	0.20
A-0806-MPS9	08	1/2	12.7	06	3/8-18	23	48	22	0.25
A-0808-MPS9	08	1/2	12.7	08	1/2-14	23	48	25	0.29
A-1212-MPS9	12	3/4	19.0	12	3/4-14	27	61	32	0.35
A-1616-MPS9	16	1	25.4	16	1-11 1/2	35	70	41	0.70

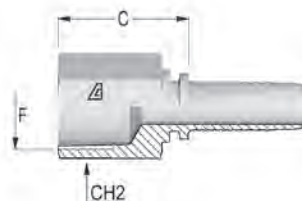
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Two-Piece Fittings

- A Series

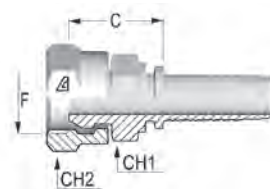


Inserts for two-piece fittings – US End Configurations



NPTF Female Rigid

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			
A-0404-FNPR	04	1/4	6.4	04	1/4-18	27.8	19	0.10
A-0606-FNPR	06	3/8	9.5	06	3/8-18	28.8	22	0.17
A-0808-FNPR	08	1/2	12.7	08	1/2-14	35.6	25	0.20
A-1212-FNPR	12	3/4	19.0	12	3/4-14	38.1	32	0.35
A-1616-FNPR	16	1	25.4	16	1-11 1/2	44.9	38	0.57

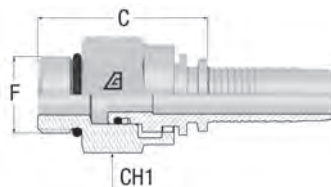


NPSM Female Swivel 60° Seat

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				
A-0404-FPMS	04	1/4	6.4	04	1/4-18	24.3	17	19	0.09
A-0606-FPMS	06	3/8	9.5	06	3/8-18	24.8	19	22	0.14
A-0808-FPMS	08	1/2	12.7	08	1/2-14	26.6	22	27	0.22
A-1012-FPMS	10	5/8	15.9	12	3/4-14	28.6	27	32	0.25
A-1212-FPMS	12	3/4	19.0	12	3/4-14	28.6	30	32	0.26
A-1616-FPMS	16	1	25.4	16	1-11 1/2	35.4	36	38	0.37

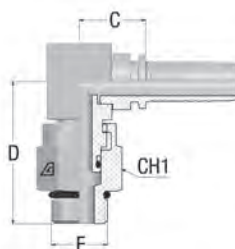
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Inserts for two-piece fittings – US End Configurations



SAE Male O-Ring Boss Swivel

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			
A-0404-MOBS	04	1/4	6.4	04	7/16-20	17.0	17	0.13
A-0405-MOBS	04	1/4	6.4	05	1/2-20	17.0	17	0.14
A-0406-MOBS	04	1/4	6.4	06	9/16-18	17.5	19	0.15
A-0606-MOBS	06	3/8	9.5	06	9/16-18	20.5	22	0.16
A-0608-MOBS	06	3/8	9.5	08	3/4-16	22.0	22	0.18
A-0808-MOBS	08	1/2	12.7	08	3/4-16	23.0	25	0.19
A-0810-MOBS	08	1/2	12.7	10	7/8-14	23.0	25	0.27
A-1212-MOBS	12	3/4	19.0	12	1 1/16-12	49.6	32	0.33
A-1616-MOBS	16	1	25.4	16	1 5/16-12	54.1	38	0.65



90° Compact SAE Male Swivel O-Ring Boss

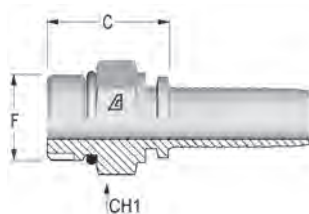
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-MBS9	04	1/4	6.4	04	7/16-20	17	34	17	0.14
A-0405-MBS9	04	1/4	6.4	05	1/2-20	17	34	17	0.17
A-0406-MBS9	04	1/4	6.4	06	9/16-18	18	36	19	0.18
A-0606-MBS9	06	3/8	9.5	06	9/16-18	19	40	22	0.18
A-0608-MBS9	06	3/8	9.5	08	3/4-16	22	44	25	0.19
A-0808-MBS9	08	1/2	12.7	08	3/4-16	23	47	25	0.22
A-0810-MBS9	08	1/2	12.7	10	7/8-14	23	49	25	0.26
A-1012-MBS9	10	5/8	15.9	12	1 1/16-12	27	60	32	0.33
A-1212-MBS9	12	3/4	19.0	12	1 1/16-12	27	61	32	0.37
A-1616-MBS9	16	1	25.4	16	1 5/16-12	34	66	38	0.70

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Two-Piece Fittings - A Series



Inserts for two-piece fittings – US End Configurations

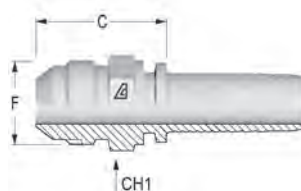


SAE Male O-Ring Boss

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			
A-0404-MORB	04	1/4	6.4	04	7/16-20	20.3	14	0.04
A-0405-MORB	04	1/4	6.4	05	1/2-20	21.3	16	0.05
A-0406-MORB	04	1/4	6.4	06	9/16-18	22.3	17	0.06
A-0606-MORB	06	3/8	9.5	06	9/16-18	23.3	19	0.08
A-0608-MORB	06	3/8	9.5	08	3/4-16	24.3	22	0.12
A-0610-MORB	06	3/8	9.5	10	7/8-14	26.8	27	0.16
A-0808-MORB	08	1/2	12.7	08	3/4-16	25.1	22	0.14
A-0810-MORB	08	1/2	12.7	10	7/8-14	27.6	27	0.19
A-0812-MORB	08	1/2	12.7	12	1 1/16-12	32.1	32	0.28
A-1008-MORB	10	5/8	15.8	08	3/4-16	27.6	22	0.23
A-1010-MORB	10	5/8	15.8	10	7/8-14	27.6	24	0.25
A-1012-MORB	10	5/8	15.8	12	1 1/16-12	32.1	32	0.27
A-1210-MORB	12	3/4	19.0	10	7/8-14	28.1	27	0.24
A-1212-MORB	12	3/4	19.0	12	1 1/16-12	32.6	32	0.31
A-1216-MORB	12	3/4	19.0	16	1 5/16-12	35.7	38	0.44
A-1616-MORB	16	1	25.4	16	1 5/16-12	35.4	38	0.55

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Inserts for two-piece fittings – US End Configurations



JIC Male 37° Seat

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			
A-0304-MJIC	03	3/16	4.8	04	7/16-20	23.4	12	0.03
A-0404-MJIC	04	1/4	6.4	04	7/16-20	25.3	12	0.04
A-0405-MJIC	04	1/4	6.4	05	1/2-20	25.3	14	0.05
A-0406-MJIC	04	1/4	6.4	06	9/16-18	26.3	17	0.06
A-0505-MJIC	05	5/16	7.9	05	1/2-20	25.3	14	0.05
A-0506-MJIC	05	5/16	7.9	06	9/16-18	26.3	17	0.07
A-0605-MJIC	06	3/8	9.5	05	1/2-20	26.3	17	0.07
A-0606-MJIC	06	3/8	9.5	06	9/16-18	26.3	17	0.07
A-0608-MJIC	06	3/8	9.5	08	3/4-16	29.8	19	0.11
A-0808-MJIC	08	1/2	12.7	08	3/4-16	29.8	19	0.12
A-0810-MJIC	08	1/2	12.7	10	7/8-14	34.6	24	0.19
A-0812-MJIC	08	1/2	12.7	12	1 1/16-12	37.1	27	0.23
A-1010-MJIC	10	5/8	15.9	10	7/8-14	34.6	24	0.18
A-1012-MJIC	10	5/8	15.9	12	1 1/16-12	37.1	27	0.23
A-1212-MJIC	12	3/4	19.0	12	1 1/16-12	37.6	27	0.27
A-1214-MJIC	12	3/4	19.0	14	1 3/16-12	40.1	32	0.36
A-1216-MJIC	12	3/4	19.0	16	1 5/16-12	42.6	36	0.54
A-1616-MJIC	16	1	25.4	16	1 5/16-12	43.4	36	0.51
A-1620-MJIC	16	1	25.4	20	1 5/8-12	46.9	46	0.77
A-2020-MJIC	20	1 1/4	31.8	20	1 5/8-12	48.5	46	0.89
A-2024-MJIC	20	1 1/4	31.8	24	1 7/8-12	52.5	50	1.13
A-2424-MJIC	24	1 1/2	38.1	24	1 7/8-12	52.5	50	1.29
A-3232-MJIC	32	2	50.8	32	2 1/2-12	52.0	65	3.97

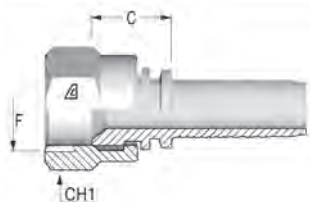
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

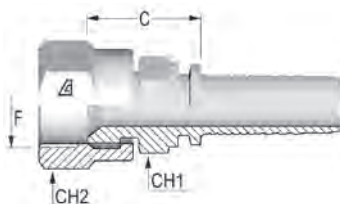


JIC Female 37° Seat

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			
A-0304-FJSH	03	3/16	4.8	04	7/16-20	14.3	16	0.04
A-0404-FJSH	04	1/4	6.4	04	7/16-20	14.6	16	0.04
A-0405-FJSH	04	1/4	6.4	05	1/2-20	15.3	17	0.06
A-0406-FJSH	04	1/4	6.4	06	9/16-18	15.3	19	0.07
A-0505-FJSH	05	5/16	7.9	05	1/2-20	15.3	17	0.07
A-0506-FJSH	05	5/16	7.9	06	9/16-18	15.3	19	0.08
A-0606-FJSH	06	3/8	9.5	06	9/16-18	15.3	19	0.08
A-0608-FJSH	06	3/8	9.5	08	3/4-16	17.8	25	0.14
A-0808-FJSH	08	1/2	12.7	08	3/4-16	18.6	25	0.16
A-0810-FJSH	08	1/2	12.7	10	7/8-14	19.6	27	0.19
A-0812-FJSH	08	1/2	12.7	12	1 1/16-12	22.1	32	0.25
A-1010-FJSH	10	5/8	15.9	10	7/8-14	19.6	27	0.21
A-1012-FJSH	10	5/8	15.9	12	1 1/16-12	20.1	32	0.26
A-1210-FJSH	12	3/4	19.0	10	7/8-14	20.0	27	0.28
A-1212-FJSH	12	3/4	19.0	12	1 1/16-12	20.0	32	0.28
A-1214-FJSH	12	3/4	19.0	14	1 3/16-12	20.0	36	0.33
A-1216-FJSH	12	3/4	19.0	16	1 5/16-12	22.1	38	0.38
A-1616-FJSH	16	1	25.4	16	1 5/16-12	23.9	38	0.46
A-1620-FJSH	16	1	25.4	20	1 5/8-12	26.5	50	0.88
A-2020-FJSH	20	1 1/4	31.8	20	1 5/8-12	28.1	50	0.96
A-2024-FJSH	20	1 1/4	31.8	24	1 7/8-12	30.4	55	1.18
A-2424-FJSH	24	1 1/2	38.1	24	1 7/8-12	31.4	55	1.24
A-3232-FJSH	32	2	50.8	32	2 1/2-12	32.0	70	2.19

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Inserts for two-piece fittings – US End Configurations



JIC Female 37° Seat – Double Hex

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				
A-0304-FJDH	03	3/16	4.8	04	7/16-20	18.1	12	16	0.05
A-0404-FJDH	04	1/4	6.4	04	7/16-20	19.6	14	16	0.06
A-0405-FJDH	04	1/4	6.4	05	1/2-20	20.3	14	17	0.07
A-0406-FJDH	04	1/4	6.4	06	9/16-18	20.3	14	19	0.09
A-0506-FJDH	05	5/16	7.9	06	9/16-18	20.3	14	19	0.08
A-0604-FJDH	06	3/8	9.5	04	7/16-20	20.6	17	16	0.08
A-0605-FJDH	06	3/8	9.5	05	1/2-20	21.3	16	17	0.90
A-0606-FJDH	06	3/8	9.5	06	9/16-18	21.3	17	19	0.10
A-0608-FJDH	06	3/8	9.5	08	3/4-16	24.8	19	25	0.17
A-0610-FJDH	06	3/8	9.5	10	7/8-14	25.8	22	27	0.20
A-0806-FJDH	08	1/2	12.7	06	9/16-18	23.1	19	19	0.15
A-0808-FJDH	08	1/2	12.7	08	3/4-16	25.6	19	25	0.20
A-0810-FJDH	08	1/2	12.7	10	7/8-14	26.6	22	27	0.22
A-0812-FJDH	08	1/2	12.7	12	1 1/16-12	28.1	25	32	0.30
A-1008-FJDH	10	5/8	15.9	08	3/4-16	26.6	24	25	0.30
A-1010-FJDH	10	5/8	15.9	10	7/8-14	27.6	24	27	0.27
A-1012-FJDH	10	5/8	15.9	12	1 1/16-12	28.1	25	32	0.32
A-1210-FJDH	12	3/4	19.0	10	7/8-14	28.1	27	32	0.31
A-1212-FJDH	12	3/4	19.0	12	1 1/16-12	28.6	27	32	0.35
A-1214-FJDH	12	3/4	19.0	14	1 3/16-12	29.9	32	36	0.44
A-1216-FJDH	12	3/4	19.0	16	1 5/16-12	32.1	32	38	0.49
A-1416-FJDH	14	7/8	22.2	16	1 5/16-12	32.1	32	38	0.46
A-1612-FJDH	16	1	25.4	12	1 1/16-12	31.4	32	32	0.55
A-1616-FJDH	16	1	25.4	16	1 5/16-12	32.9	32	38	0.62
A-1820-FJDH	18	1 1/8	29.0	20	1 5/8-12	37.5	41	50	0.63
A-2020-FJDH	20	1 1/4	31.8	20	1 5/8-12	39.1	41	50	0.77
A-2224-FJDH	22	1 3/8	35.0	24	1 7/8-12	43.4	50	55	0.79
A-2424-FJDH	24	1 1/2	38.1	24	1 7/8-12	43.4	50	55	1.98
A-2932-FJDH	29	1 13/16	46.0	32	2 1/2-12	49.0	65	70	2.31
A-3232-FJDH	32	2	50.8	32	2 1/2-12	49.0	65	70	3.09

NOTE: Also available in stainless steel in some sizes. To order stainless, add -SS to the end of the part number.
Example: A-0606-XXXX-SS

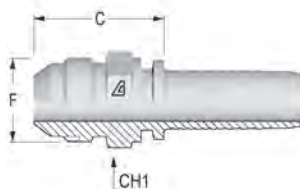
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Two-Piece Fittings - A Series



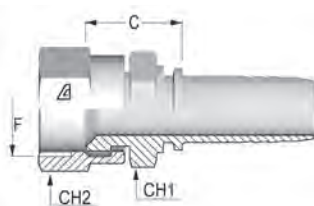
Inserts for two-piece fittings – US End Configurations

NEW



SAE 45° Male

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				
A-0506-MSAE	5	5/16	7.9	6	5/8-18	28	16	n/a	0.08
A-0606-MSAE	6	3/8	9.5	6	5/8-18	28	16	n/a	0.08
A-1012-MSAE	10	5/8	15.9	12	1 1/16-14	43.5	27	n/a	0.31
A-1212-MSAE	12	3/4	19.0	12	1 1/16-14	41	27	n/a	0.32

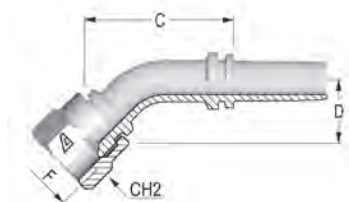


SAE Female 45° Seat – Double Hex

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				
A-0506-FSAE	5	5/16	7.9	6	5/8-18	22.3	16	22	0.13
A-0606-FSAE	6	3/8	9.5	6	5/8-18	22.3	19	22	0.31
A-1012-FSAE	10	5/8	15.9	12	1 1/16-14	28.1	27	32	0.34
A-1212-FSAE	12	3/4	19.0	12	1 1/16-14	29.6	27	32	0.77

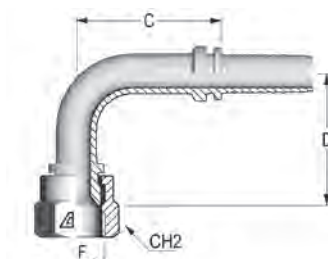
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Inserts for two-piece fittings – US End Configurations

NEW


45° Female SAE 45°

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				
A-0506-FAE4	5	5/16	7.9	6	5/8-18	43	12	22	0.13
A-0606-FAE4	6	3/8	9.5	6	5/8-18	46	12	22	0.14
A-1012-FAE4	10	5/8	15.9	12	1 1/16-14	69	21	32	0.45
A-1212-FAE4	12	3/4	19.0	12	1 1/16-14	68	21	32	0.48

NEW


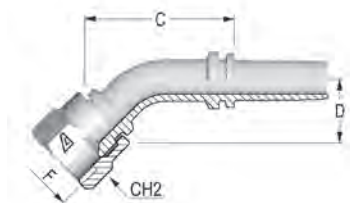
90° Female SAE 45°

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				
A-0506-FAE9	5	5/16	7.9	6	5/8-18	31.5	35	22	0.17
A-0606-FAE9	6	3/8	9.5	6	5/8-18	42.5	24	22	0.18
A-1012-FAE9	10	5/8	15.9	12	1 1/16-14	48	58	32	0.48
A-1212-FAE9	12	3/4	19.0	12	1 1/16-14	48.5	58	32	0.55

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Two-Piece Fittings

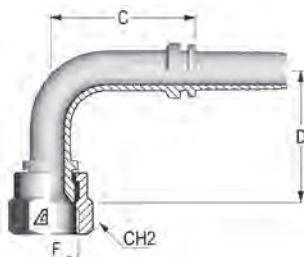
- A Series



45° JIC Female Swivel 37° Seat

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				
A-0404-FJ45	04	1/4	6.4	04	7/16-20	36.6	10.0	16	0.08
A-0405-FJ45	04	1/4	6.4	05	1/2-20	37.2	12.0	17	0.08
A-0406-FJ45	04	1/4	6.4	06	9/16-18	39.4	11.0	19	0.10
A-0506-FJ45	05	5/16	7.9	06	9/16-18	42.8	12.0	19	0.13
A-0606-FJ45	06	3/8	9.5	06	9/16-18	46.3	11.0	19	0.13
A-0608-FJ45	06	3/8	9.5	08	3/4-16	47.2	15.0	25	0.19
A-0808-FJ45	08	1/2	12.7	08	3/4-16	51.6	15.0	25	0.23
A-0810-FJ45	08	1/2	12.7	10	7/8-14	50.7	16.0	27	0.27
A-0812-FJ45	08	1/2	12.7	12	1 1/16-12	57.0	21.0	32	0.39
A-1010-FJ45	10	5/8	15.9	10	7/8-14	62.2	19.0	27	0.39
A-1012-FJ45	10	5/8	15.9	12	1 1/16-12	68.6	21.0	32	0.39
A-1212-FJ45	12	3/4	19.0	12	1 1/16-12	67.5	21.0	32	0.62
A-1214-FJ45	12	3/4	19.0	14	1 3/16-12	67.6	23.0	36	0.51
A-1216-FJ45	12	3/4	19.0	16	1 5/16-12	71.4	26.0	38	0.62
A-1616-FJ45	16	1	25.4	16	1 5/16-12	79.5	24.0	38	0.88
A-1620-FJ45	16	1	25.4	20	1 5/8-12	81.9	37.0	50	1.28
A-2020-FJ45	20	1 1/4	31.8	20	1 5/8-12	97.1	37.0	50	1.56
A-2024-FJ45	20	1 1/4	31.8	24	1 7/8-12	107.0	39.5	55	1.74
A-2424-FJ45	24	1 1/2	38.1	24	1 7/8-12	112.7	43.0	55	2.09
A-3232-FJ45	32	2	50.8	32	2 1/2-12	159.9	67.0	70	2.21

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90° JIC Female Swivel 37° Seat Short Drop

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				
A-0304-FJ9S	03	3/16	4.8	04	7/16-20	26.7	21.0	16	0.08
A-0404-FJ9S	04	1/4	6.4	04	7/16-20	27.0	21.0	16	0.08
A-0405-FJ9S	04	1/4	6.4	05	1/2-20	26.5	23.5	17	0.10
A-0406-FJ9S	04	1/4	6.4	06	9/16-18	31.0	23.0	19	0.10
A-0506-FJ9S	05	5/16	7.9	06	9/16-18	42.7	23.0	19	0.12
A-0606-FJ9S	06	3/8	9.5	06	9/16-18	42.3	23.0	19	0.13
A-0608-FJ9S	06	3/8	9.5	08	3/4-16	48.8	29.0	25	0.20
A-0808-FJ9S	08	1/2	12.7	08	3/4-16	46.4	29.0	25	0.25
A-0810-FJ9S	08	1/2	12.7	10	7/8-14	45.8	32.0	27	0.28
A-0812-FJ9S	08	1/2	12.7	12	1 1/16-12	37.3	46.0	32	0.38
A-1010-FJ9S	10	5/8	15.9	10	7/8-14	36.5	32.0	27	0.41
A-1012-FJ9S	10	5/8	15.9	12	1 1/16-12	47.9	48.0	32	0.46
A-1212-FJ9S	12	3/4	19.0	12	1 1/16-12	58.2	46.0	32	0.63
A-1214-FJ9S	12	3/4	19.0	14	1 3/16-12	52.4	47.0	36	0.64
A-1216-FJ9S	12	3/4	19.0	16	1 5/16-12	53.6	53.0	38	0.73
A-1416-FJ9S	14	7/8	22.2	16	1 5/16-12	53.6	53.0	38	0.77
A-1616-FJ9S	16	1	25.4	16	1 5/16-12	70.9	56.0	38	0.89
A-2020-FJ9S	20	1 1/4	31.8	20	1 5/8-12	82.0	68.0	50	1.20

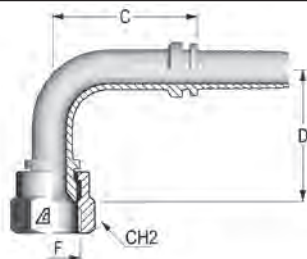
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

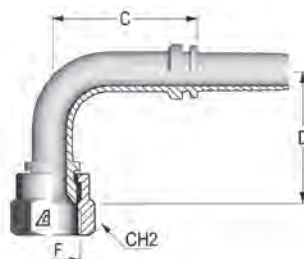


90° JIC Female Swivel 37° Seat Medium Drop

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				
A-0304-FJ9M	03	3/16	4.8	04	7/16-20	33.5	32.0	16	0.10
A-0404-FJ9M	04	1/4	6.4	04	7/16-20	34.2	32.0	16	0.10
A-0405-FJ9M	04	1/4	6.4	05	1/2-20	25.7	30.0	17	0.09
A-0406-FJ9M	04	1/4	6.4	06	9/16-18	28.5	38.0	19	0.11
A-0505-FJ9M	05	5/16	7.9	05	1/2-20	34.7	35.0	17	0.14
A-0506-FJ9M	05	5/16	7.9	06	9/16-18	33.2	35.0	19	0.14
A-0606-FJ9M	06	3/8	9.5	06	9/16-18	31.3	35.0	19	0.15
A-0608-FJ9M	06	3/8	9.5	08	3/4-16	39.5	41.0	25	0.22
A-0808-FJ9M	08	1/2	12.7	08	3/4-16	37.2	40.0	25	0.26
A-0810-FJ9M	08	1/2	12.7	10	7/8-14	43.3	47.0	27	0.30
A-0812-FJ9M	08	1/2	12.7	12	1 1/16-12	47.8	58.0	32	0.40
A-1010-FJ9M	10	5/8	15.9	10	7/8-14	49.4	48.0	27	0.40
A-1012-FJ9M	10	5/8	15.9	12	1 1/16-12	47.9	58.0	32	0.48
A-1212-FJ9M	12	3/4	19.0	12	1 1/16-12	52.4	54.0	32	0.68
A-1214-FJ9M	12	3/4	19.0	14	1 3/16-12	53.5	47.5	36	0.71
A-1216-FJ9M	12	3/4	19.0	16	1 5/16-12	52.6	72.0	38	0.79
A-1616-FJ9M	16	1	25.4	16	1 5/16-12	72.6	71.5	38	1.01
A-1620-FJ9M	16	1	25.4	20	1 5/8-12	72.6	78.5	50	1.48
A-2020-FJ9M	20	1 1/4	31.8	20	1 5/8-12	82.4	78.0	50	1.68
A-2024-FJ9M	20	1 1/4	31.8	24	1 7/8-12	94.0	82.0	55	2.00
A-2424-FJ9M	24	1 1/2	38.1	24	1 7/8-12	95.3	92.0	55	2.38
A-3232-FJ9M	32	2	50.8	32	2 1/2-12	129.5	140.0	70	5.24

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Inserts for two-piece fittings – US End Configurations



90° JIC Female Swivel 37° Seat Long Drop

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				
A-0304-FJ9L	03	3/16	4.8	04	7/16-20	25.5	46	16	0.12
A-0404-FJ9L	04	1/4	6.4	04	7/16-20	30.8	46	16	0.11
A-0405-FJ9L	04	1/4	6.4	05	1/2-20	31.3	45	17	0.13
A-0406-FJ9L	04	1/4	6.4	06	9/16-18	34.3	54	19	0.17
A-0506-FJ9L	05	5/16	7.9	06	9/16-18	36.2	54	19	0.18
A-0606-FJ9L	06	3/8	9.5	06	9/16-18	43.3	54	19	0.19
A-0608-FJ9L	06	3/8	9.5	08	3/4-16	46.8	64	25	0.24
A-0808-FJ9L	08	1/2	12.7	08	3/4-16	49.9	64	25	0.31
A-0810-FJ9L	08	1/2	12.7	10	7/8-14	37.3	65	27	0.33
A-1010-FJ9L	10	5/8	15.9	10	7/8-14	49.9	65	27	0.44
A-1012-FJ9L	10	5/8	15.9	12	1 1/16-12	49.9	96	32	0.58
A-1212-FJ9L	12	3/4	19.0	12	1 1/16-12	54.1	95	32	0.76
A-1216-FJ9L	12	3/4	19.0	16	1 5/16-12	54.0	114	38	0.93
A-1616-FJ9L	16	1	25.4	16	1 5/16-12	78.6	114	38	1.33

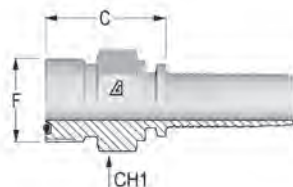
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Two-Piece Fittings

- A Series

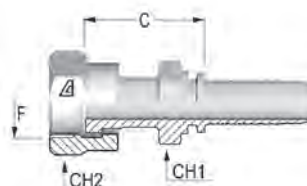


Inserts for two-piece fittings – US End Configurations



ORFS Male

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			
A-0404-MOFS	04	1/4	6.4	04	9/16-18	22.3	17	0.07
A-0406-MOFS	04	1/4	6.4	06	11/16-16	24.3	19	0.09
A-0606-MOFS	06	3/8	9.5	06	11/16-16	24.3	19	0.11
A-0608-MOFS	06	3/8	9.5	08	13/16-16	26.3	22	0.13
A-0610-MOFS	06	3/8	9.5	10	1-14	29.8	27	0.19
A-0808-MOFS	08	1/2	12.7	08	1 3/16-16	27.1	22	0.17
A-0810-MOFS	08	1/2	12.7	10	1-14	30.6	27	0.22
A-0812-MOFS	08	1/2	12.7	12	1 3/16-12	34.1	32	0.24
A-1010-MOFS	10	5/8	15.9	10	1-14	30.6	27	0.23
A-1012-MOFS	10	5/8	15.9	12	1 3/16-12	34.1	32	0.30
A-1210-MOFS	12	3/4	19.0	10	1-14	31.1	27	0.28
A-1212-MOFS	12	3/4	19.0	12	1 3/16-12	34.6	32	0.40
A-1216-MOFS	12	3/4	19.0	16	1 7/16-12	38.1	41	0.58
A-1616-MOFS	16	1	25.4	16	1 7/16-12	37.9	38	0.60
A-1620-MOFS	16	1	25.4	20	1 11/16-12	39.9	46	0.78
A-2020-MOFS	20	1 1/4	31.8	20	1 11/16-12	41.5	46	0.90



ORFS Female – Double Hex

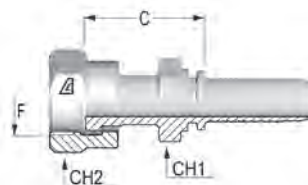
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-FOFS	04	1/4	6.4	04	9/16-18	27.3	14	17	0.08
A-0406-FOFS	04	1/4	6.4	06	11/16-16	30.3	17	22	0.13
A-0506-FOFS	05	5/16	7.9	06	11/16-16	30.3	17	22	0.13
A-0606-FOFS	06	3/8	9.5	06	11/16-16	30.3	17	22	0.14
A-0608-FOFS	06	3/8	9.5	08	13/16-16	35.3	22	24	0.21
A-0806-FOFS	08	1/2	12.7	06	11/16-16	32.1	19	22	0.22
A-0808-FOFS	08	1/2	12.7	08	13/16-16	36.1	22	24	0.22

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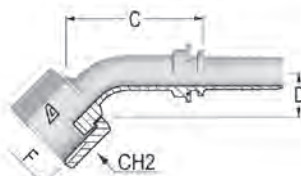
Inserts for two-piece fittings – US End Configurations

(continued)



ORFS Female – Double Hex

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				
A-0810-F0FS	08	1/2	12.7	10	1-14	39.6	24	30	0.32
A-0812-F0FS	08	1/2	12.7	12	1 3/16-12	42.1	30	36	0.32
A-1008-F0FS	10	5/8	15.9	08	13/16-16	39.6	24	24	0.31
A-1010-F0FS	10	5/8	15.9	10	1-14	39.6	24	30	0.32
A-1012-F0FS	10	5/8	15.9	12	1 3/16-12	42.1	30	36	0.50
A-1210-F0FS	12	3/4	19.0	10	1-14	40.1	27	30	0.50
A-1212-F0FS	12	3/4	19.0	12	1 3/16-12	42.6	30	36	0.50
A-1216-F0FS	12	3/4	19.0	16	1 7/16-12	48.6	36	41	0.73
A-1612-F0FS	16	1	25.4	12	1 3/16-12	45.4	32	36	0.73
A-1616-F0FS	16	1	25.4	16	1 7/16-12	49.4	36	41	0.73
A-1620-F0FS	16	1	25.4	20	1 11/16-12	50.4	41	50	0.79
A-2020-F0FS	20	1 1/4	31.8	20	1 11/16-12	52.0	41	50	1.10
A-2424-F0FS	24	1 1/2	38.1	24	2-12	56.5	50	60	1.76



45° ORFS Female Swivel

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				
A-0404-F045	04	1/4	6.4	04	9/16-18	41.1	11.0	17	0.08
A-0406-F045	04	1/4	6.4	06	11/16-16	46.1	11.0	22	0.12
A-0606-F045	06	3/8	9.5	06	11/16-16	47.4	12.0	22	0.14
A-0608-F045	06	3/8	9.5	08	13/16-16	51.2	15.0	24	0.19
A-0808-F045	08	1/2	12.7	08	13/16-16	47.1	16.0	24	0.29
A-0810-F045	08	1/2	12.7	10	1-14	50.4	16.5	30	0.29
A-0812-F045	08	1/2	12.7	12	1 3/16-12	53.1	16.5	36	0.31
A-1010-F045	10	5/8	15.9	10	1-14	57.7	17.0	30	0.33
A-1012-F045	10	5/8	15.9	12	1 3/16-12	60.1	17.0	36	0.38
A-1212-F045	12	3/4	19.0	12	1 3/16-12	63.5	21.0	36	0.60
A-1216-F045	12	3/4	19.0	16	1 7/16-12	70.7	24.0	41	1.01
A-1616-F045	16	1	25.4	16	1 7/16-12	82.4	26.0	41	0.90
A-2020-F045	20	1 1/4	31.8	20	1 11/16-12	97.4	26.0	50	1.25
A-2424-F045	24	1 1/2	38.1	24	2-12	105.5	28.0	60	1.68

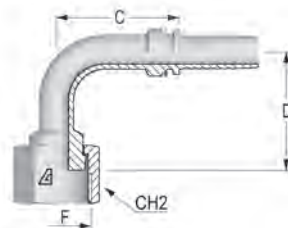
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

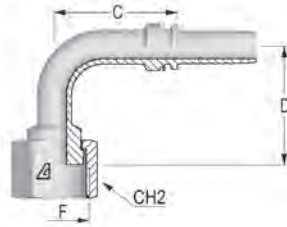


90° ORFS Female Swivel Short Drop

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				
A-0404-F09S	04	1/4	6.4	04	9/16-18	28.5	21.0	17	0.08
A-0406-F09S	04	1/4	6.4	06	11/16-16	32.0	23.0	22	0.13
A-0506-F09S	05	5/16	7.9	06	11/16-16	48.7	26.0	22	0.15
A-0606-F09S	06	3/8	9.5	06	11/16-16	41.8	25.0	22	0.15
A-0608-F09S	06	3/8	9.5	08	13/16-16	41.8	29.0	24	0.19
A-0808-F09S	08	1/2	12.7	08	13/16-16	39.8	29.0	24	0.23
A-0810-F09S	08	1/2	12.7	10	1-14	46.3	32.5	30	0.31
A-0812-F09S	08	1/2	12.7	12	1 3/16-12	56.3	51.0	36	0.37
A-1010-F09S	10	5/8	15.9	10	1-14	52.3	32.5	30	0.37
A-1012-F09S	10	5/8	15.9	12	1 3/16-12	55.4	49.0	36	0.39
A-1212-F09S	12	3/4	19.0	12	1 3/16-12	60.6	51.0	36	0.66
A-1216-F09S	12	3/4	19.0	16	1 7/16-12	61.6	56.0	41	0.84
A-1612-F09S	16	1	25.4	12	1 3/16-12	82.6	58.0	41	0.96
A-1616-F09S	16	1	25.4	16	1 7/16-12	82.6	58.0	41	1.03
A-1620-F09S	16	1	25.4	20	1 11/16-12	82.6	64.0	50	1.48
A-2020-F09S	20	1 1/4	31.8	20	1 11/16-12	95.0	68.0	50	1.57
A-2424-F09S	24	1 1/2	38.1	24	2-12	101.6	78.0	60	2.18

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Inserts for two-piece fittings – US End Configurations



90° ORFS Female Swivel Medium Drop

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				
A-0404-F09M	04	1/4	6.4	04	9/16-18	29.8	32	17	0.10
A-0406-F09M	04	1/4	6.4	06	11/16-16	37.3	38	22	0.15
A-0506-F09M	05	5/16	7.9	06	11/16-16	40.7	34	22	0.18
A-0606-F09M	06	3/8	9.5	06	11/16-16	41.8	38	22	0.16
A-0608-F09M	06	3/8	9.5	08	13/16-16	43.8	41	24	0.22
A-0808-F09M	08	1/2	12.7	08	13/16-16	34.8	42	24	0.25
A-0810-F09M	08	1/2	12.7	10	1-14	48.3	47	30	0.36
A-1010-F09M	10	5/8	15.9	10	1-14	55.4	44	30	0.42
A-1212-F09M	12	3/4	19.0	12	1 3/16-12	61.6	58	36	0.69
A-1216-F09M	12	3/4	19.0	16	1 7/16-12	65.6	71	41	0.88
A-1616-F09M	16	1	25.4	16	1 7/16-12	82.6	66	41	1.08
A-2020-F09M	20	1 1/4	31.8	20	1 11/16-12	97.0	78	50	1.64
A-2424-F09M	24	1 1/2	38.1	24	2-12	107.8	87	60	2.30

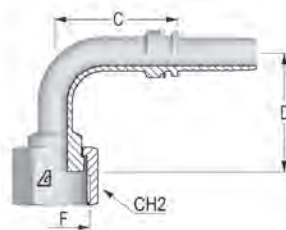
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

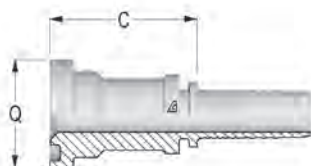


90° ORFS Female Swivel Long Drop

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				
A-0404-F09L	04	1/4	6.4	04	9/16-18	32.8	46	17	0.11
A-0406-F09L	04	1/4	6.4	06	11/16-16	34.8	54	22	0.16
A-0506-F09L	05	5/16	7.9	06	11/16-16	31.5	54	22	0.19
A-0606-F09L	06	3/8	9.5	06	11/16-16	41.8	54	22	0.19
A-0608-F09L	06	3/8	9.5	08	13/16-16	46.8	64	24	0.24
A-0808-F09L	08	1/2	12.7	08	13/16-16	38.3	64	24	0.27
A-0810-F09L	08	1/2	12.7	10	1-14	46.3	70	30	0.39
A-1010-F09L	10	5/8	15.9	10	1-14	55.4	70	30	0.48
A-1012-F09L	10	5/8	15.9	12	1 3/16-12	55.4	96	30	0.41
A-1212-F09L	12	3/4	19.0	12	1 3/16-12	61.6	96	36	0.80
A-1216-F09L	12	3/4	19.0	16	1 7/16-12	61.6	118	41	0.95
A-1616-F09L	16	1	25.4	16	1 7/16-12	82.6	114	41	1.28
A-2020-F09L	20	1 1/4	31.8	20	1 11/16-12	97.0	129	50	1.95
A-2024-F09L	20	1 1/4	31.8	24	2-12	102.0	141	60	1.98
A-2424-F09L	24	1 1/2	38.1	24	2-12	110.8	141	60	2.75

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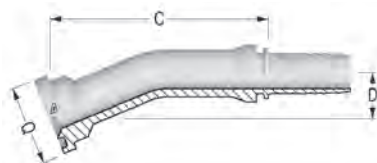
Inserts for two-piece fittings – US End Configurations



For Code 61 Split Flange Clamps, please refer to page 195.

O-Ring Flange SAE J518 Code 61

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)			
A-0808-C61S	08	1/2	12.7	1.19	30.2	41.0	5000	0.25
A-0812-C61S	08	1/2	12.7	1.50	38.1	42.0	5000	0.35
A-1212-C61S	12	3/4	19.0	1.50	38.1	42.5	5000	0.43
A-1216-C61S	12	3/4	19.0	1.75	44.5	50.5	5000	0.56
A-1616-C61S	16	1	25.4	1.75	44.5	51.4	5000	0.75
A-1620-C61S	16	1	25.4	2.00	50.8	53.9	4000	0.77
A-2020-C61S	20	1 1/4	31.8	2.00	50.8	55.5	4000	0.94
A-2024-C61S	20	1 1/4	31.8	2.38	60.3	58.5	3000	1.12
A-2424-C61S	24	1 1/2	38.1	2.38	60.3	58.5	3000	1.27
A-2432-C61S	24	1 1/2	38.1	2.81	71.4	70.0	3000	1.98
A-3232-C61S	32	2	50.8	2.81	71.4	70.0	3000	2.05
A-4040-C61S	40	2 1/2	63.5	3.31	84.1	117.0	2500	2.30



For Code 61 Split Flange Clamps, please refer to page 195.

22° O-Ring Flange SAE J518 Code 61

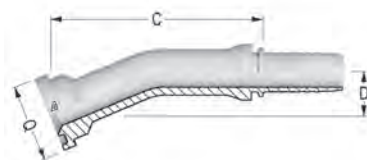
Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
A-1616-C612	16	1	25.4	1.75	44.5	86.4	12.0	1.01
A-2020-C612	20	1 1/4	31.8	2.00	50.8	100.6	16.0	1.29
A-2024-C612	20	1 1/4	31.8	2.38	60.3	117.0	20.5	1.54
A-2424-C612	24	1 1/2	38.1	2.38	60.3	133.5	22.0	1.79

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Two-Piece Fittings - A Series



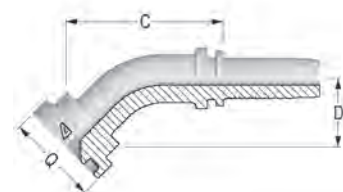
Inserts for two-piece fittings – US End Configurations



For Code 61 Split Flange Clamps,
please refer to page 195.

30° O-Ring Flange SAE J518 Code 61

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
A-1212-C613	12	3/4	19.0	1.50	38.1	67.7	12.0	0.62
A-1216-C613	12	3/4	19.0	1.75	44.5	70.7	12.0	0.74
A-1616-C613	16	1	25.4	1.75	44.5	69.3	12.0	0.84
A-1620-C613	16	1	25.4	2.00	50.8	67.1	12.0	0.93
A-2020-C613	20	1 1/4	31.8	2.00	50.8	74.3	12.0	1.10
A-2024-C613	20	1 1/4	31.8	2.38	60.3	81.5	13.0	1.26
A-2424-C613	24	1 1/2	38.1	2.38	60.3	136.0	23.0	1.90
A-2432-C613	24	1 1/2	38.1	2.81	71.4	136.9	29.5	2.54



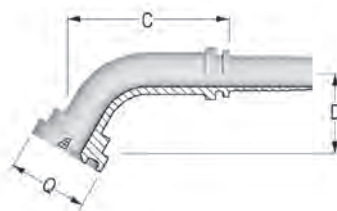
For Code 61 Split Flange Clamps,
please refer to page 195.

45° O-Ring Flange SAE J518 Code 61

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)				
A-0808-C614	08	1/2	12.7	1.19	30.2	43.7	22.0	5000	0.27
A-0812-C614	08	1/2	12.7	1.50	38.1	50.4	26.0	5000	0.38
A-1012-C614	10	5/8	15.9	1.50	38.1	55.1	26.0	5000	0.40
A-1212-C614	12	3/4	19.0	1.50	38.1	63.8	32.0	5000	0.50
A-1216-C614	12	3/4	19.0	1.75	44.5	68.0	29.0	5000	0.60
A-1616-C614	16	1	25.4	1.75	44.5	72.8	33.5	5000	0.85
A-1620-C614	16	1	25.4	2.00	50.8	72.3	36.0	4000	0.92
A-2020-C614	20	1 1/4	31.8	2.00	50.8	85.2	37.5	4000	1.13
A-2024-C614	20	1 1/4	31.8	2.38	60.3	92.8	40.0	3000	1.27
A-2424-C614	24	1 1/2	38.1	2.38	60.3	105.4	48.0	3000	1.32
A-2432-C614	24	1 1/2	38.1	2.81	71.4	124.3	55.5	3000	2.65
A-3232-C614	32	2	50.8	2.81	71.4	129.5	47.5	3000	3.48
A-4040-C614	40	2 1/2	63.5	3.31	84.1	162.0	115.0	2500	3.80

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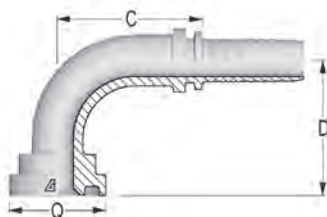
Inserts for two-piece fittings – US End Configurations



For Code 61 Split Flange Clamps, please refer to page 195.

60° O-Ring Flange SAE J518 Code 61

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)				
A-1212-C616	12	3/4	19.0	1.19	30.2	86.0	37.0	5000	0.29
A-1216-C616	12	3/4	19.0	1.75	44.5	102.0	44.0	5000	0.43
A-1616-C616	16	1	25.4	1.75	44.5	101.0	47.0	5000	0.55
A-1620-C616	16	1	25.4	2.00	50.8	106.5	43.5	5000	0.65
A-2020-C616	20	1 1/4	31.8	2.00	50.8	129.5	56.5	5000	0.71
A-2424-C616	24	1 1/2	38.1	2.38	60.3	151.0	57.0	3000	2.95
A-3232-C616	32	2	50.8	2.81	71.4	164.4	92.0	3000	4.30



For Code 61 Split Flange Clamps, please refer to page 195.

90° O-Ring Flange SAE J518 Code 61

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)				
A-0808-C619	08	1/2	12.7	1.19	30.2	45.8	42.0	5000	0.29
A-0812-C619	08	1/2	12.7	1.50	38.1	45.3	51.0	5000	0.43
A-1012-C619	10	5/8	15.9	1.50	38.1	49.4	51.0	5000	0.55
A-1212-C619	12	3/4	19.0	1.50	38.1	57.7	60.0	5000	0.65
A-1216-C619	12	3/4	19.0	1.75	44.5	66.2	64.5	5000	0.71
A-1616-C619	16	1	25.4	1.75	44.5	70.6	67.0	5000	0.88
A-1620-C619	16	1	25.4	2.00	50.8	73.6	71.0	4000	1.02
A-2020-C619	20	1 1/4	31.8	2.00	50.8	88.0	84.0	4000	1.30
A-2024-C619	20	1 1/4	31.8	2.38	60.3	91.5	87.5	3000	1.48
A-2424-C619	24	1 1/2	38.1	2.38	60.3	104.8	91.0	3000	1.26
A-2432-C619	24	1 1/2	38.1	2.81	71.4	104.8	115.0	3000	2.66
A-3232-C619	32	2	50.8	2.81	71.4	127.2	130.0	3000	4.30
A-4040-C619	40	2 1/2	63.5	3.31	84.1	137.0	125.0	2500	4.80

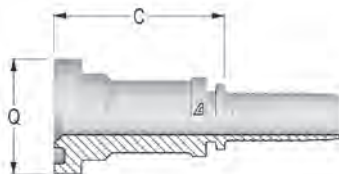
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Two-Piece Fittings

- A Series



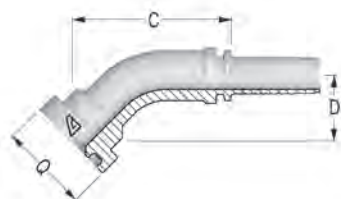
Inserts for two-piece fittings – US End Configurations



For Code 62 Split Flange Clamps, please refer to page 198.

O-Ring Flange SAE J518 Code 62

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)			
A-0808-C62S	08	1/2	12.7	1.25	31.8	46.6	6000	0.50
A-0812-C62S	08	1/2	12.7	1.63	41.3	67.2	6000	0.52
A-1212-C62S	12	3/4	19.0	1.63	41.3	52.5	6000	0.54
A-1216-C62S	12	3/4	19.0	1.88	47.6	55.5	6000	0.70
A-1616-C62S	16	1	25.4	1.88	47.6	56.4	6000	0.81
A-1620-C62S	16	1	25.4	1.88	54.0	63.4	6000	1.08
A-2020-C62S	20	1 1/4	31.8	2.13	54.0	83.0	6000	1.45
A-2024-C62S	20	1 1/4	31.8	2.13	63.5	71.0	6000	1.88
A-2424-C62S	24	1 1/2	38.1	2.50	63.5	101.0	6000	2.05
A-2432-C62S	24	1 1/2	38.1	2.50	79.4	76.0	6000	2.87
A-3232-C62S	32	2	50.8	3.13	79.4	76.0	6000	3.53



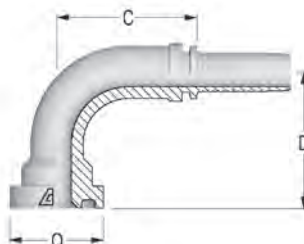
For Code 62 Split Flange Clamps, please refer to page 198.

45° O-Ring Flange SAE J518 Code 62

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)				
A-0808-C624	08	1/2	12.7	1.25	31.8	46.6	23.0	6000	0.30
A-0812-C624	08	1/2	12.7	1.63	41.3	67.2	30.5	6000	0.55
A-1212-C624	12	3/4	19.0	1.63	41.3	71.4	31.0	6000	0.60
A-1216-C624	12	3/4	19.0	1.88	47.6	65.2	33.5	6000	0.78
A-1616-C624	16	1	25.4	1.88	47.6	81.9	36.0	6000	0.94
A-1620-C624	16	1	25.4	2.13	54.0	78.4	39.0	6000	1.22
A-2020-C624	20	1 1/4	31.8	2.13	54.0	90.9	40.0	6000	1.65
A-2024-C624	20	1 1/4	31.8	2.50	63.5	93.6	45.5	6000	1.98
A-2424-C624	24	1 1/2	38.1	2.50	63.5	101.7	45.0	6000	2.43
A-2432-C624	24	1 1/2	38.1	3.13	79.4	106.4	57.5	6000	2.21
A-3232-C624	32	2	50.8	3.13	79.4	129.7	60.0	6000	4.09

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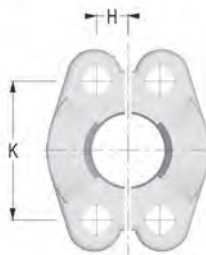
Inserts for two-piece fittings – US End Configurations



For Code 62 Split Flange Clamps, please refer to page 198.

90° O-Ring Flange SAE J518 Code 62

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)				
A-0808-C629	08	1/2	12.7	1.25	31.8	47.8	46	6000	0.33
A-0812-C629	08	1/2	12.7	1.63	41.3	47.8	54	6000	0.88
A-1212-C629	12	3/4	19.0	1.63	41.3	63.2	61	6000	0.62
A-1216-C629	12	3/4	19.0	1.88	47.6	63.2	66	6000	0.93
A-1616-C629	16	1	25.4	1.88	47.6	73.6	75	6000	1.05
A-1620-C629	16	1	25.4	2.13	54.0	77.6	78	6000	1.32
A-2020-C629	20	1 1/4	31.8	2.13	54.0	94.5	89	6000	1.59
A-2024-C629	20	1 1/4	31.8	2.50	63.5	98.0	94	6000	2.09
A-2424-C629	24	1 1/2	38.1	2.50	63.5	99.6	105	6000	2.57
A-2432-C629	24	1 1/2	38.1	3.13	79.4	114.7	123	6000	2.21
A-3232-C629	32	2	50.8	3.13	79.4	143.3	132	6000	2.32



Split Flange Clamps SAE J518 Code 61 – 3000 PSI (2 Halves/Pieces per 1 Part)

Part Number	Flange Size (in)	H (mm)	K (mm)	Max. Working Pressure (psi)	Weight (lbs/each)
C61SF-08	1/2	8.7	38.1	3000	0.22
C61SF-12	3/4	11.1	47.6	3000	0.38
C61SF-16	1	13.1	52.4	3000	0.50
C61SF-20	1 1/4	15.1	58.7	3000	0.67
C61SF-24	1 1/2	17.9	69.9	3000	1.01
C61SF-32	2	21.4	77.8	3000	1.18
C61SF-40	2 1/2	25.5	89.0	2500	1.89

Note: Bolts, washers and o-ring are not included.

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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

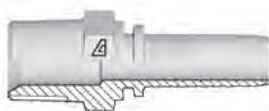
Two-Piece Fittings

- A, V Series



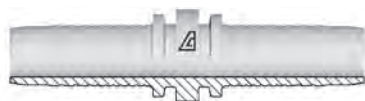
Inserts for two-piece fittings – US End Configurations

NEW



API Male NPT Extended Hex

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				
V-4040-MAPI	40	2 1/2	63.5	40	2 1/2-8	105	80	N/A	4.00
V-4848-MAPI	48	3	76.2	48	3-8	128	100	N/A	5.00



Hose Mender

Part Number	Dash Size	Hose ID Size		Weight (lbs/each)
		(in)	(mm)	
A-0404-HMEN	04	1/4	6.4	0.04
A-0505-HMEN	05	5/16	7.9	0.05
A-0606-HMEN	06	3/8	9.5	0.06
A-0808-HMEN	08	1/2	12.7	0.09
A-1010-HMEN	10	5/8	15.9	0.15
A-1212-HMEN	12	3/4	19.0	0.21
A-1616-HMEN	16	1	25.4	0.28
A-2020-HMEN	20	1 1/4	31.8	0.30
A-2424-HMEN	24	1 1/2	38.1	0.35
A-3232-HMEN	32	2	50.8	0.44

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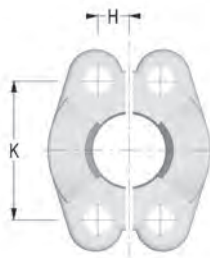
KHCCA1020

Two-Piece Fittings

- A, C62SF Series



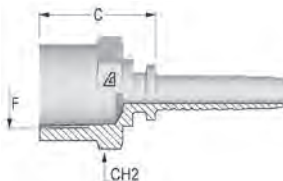
Inserts for two-piece fittings – US End Configurations



Split Flange Clamps SAE J518 Code 62 – 6000 PSI (2 Halves/Pieces per 1 Part)

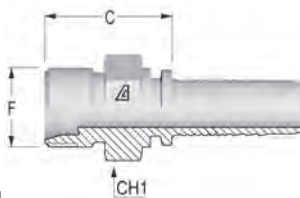
Part Number	Flange Size (in)	H (mm)	K (mm)	Max. Working Pressure (psi)	Weight (lbs/each)
C62SF-08	1/2	9.1	40.5	6000	0.35
C62SF-12	3/4	11.9	50.8	6000	0.71
C62SF-16	1	13.9	57.2	6000	1.43
C62SF-20	1 1/4	15.9	66.7	6000	1.76
C62SF-24	1 1/2	18.3	79.4	6000	3.09
C62SF-32	2	22.2	96.8	6000	4.41

Note: Bolts, washers and o-ring are not included.



Grease Fitting

Part Number	Dash Size	Hose ID Size		F Thread Size (in)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0404-FGRT	04	1/4	6.4	1/2-27	23.3	19	0.07

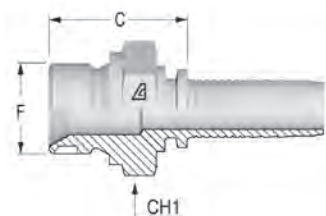


Bite Type Tube Fitting

Part Number	Dash Size	Hose ID Size		F Thread Size (in)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0404-BTTF	04	1/4	6.4	7/16-20	21.8	12	0.06
A-0506-BTTF	05	5/16	7.9	9/16-18	24.2	16	0.08
A-0606-BTTF	06	3/8	9.5	9/16-18	24.2	16	0.09
A-0808-BTTF	08	1/2	12.7	3/4-16	28.4	22	0.14
A-1212-BTTF	12	3/4	19.0	1 1/16-12	33.1	30	0.09

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Inserts for two-piece fittings – International End Configurations



BSP Male Parallel 60° Seat

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			
A-0302-MBPP	03	3/16	4.8	02	1/8-28	21.3	14	0.04
A-0402-MBPP	04	1/4	6.4	02	1/8-28	21.7	14	0.04
A-0404-MBPP	04	1/4	6.4	04	1/4-19	26.3	19	0.07
A-0406-MBPP	04	1/4	6.4	06	3/8-19	27.8	22	0.10
A-0506-MBPP	05	5/16	7.9	06	3/8-19	27.8	22	0.11
A-0604-MBPP	06	3/8	9.5	04	1/4-19	26.3	19	0.11
A-0606-MBPP	06	3/8	9.5	06	3/8-19	27.8	22	0.11
A-0608-MBPP	06	3/8	9.5	08	1/2-14	31.3	27	0.18
A-0806-MBPP	08	1/2	12.7	06	3/8-19	28.6	22	0.14
A-0808-MBPP	08	1/2	12.7	08	1/2-14	32.1	27	0.20
A-0810-MBPP	08	1/2	12.7	10	5/8-14	36.1	30	0.27
A-0812-MBPP	08	1/2	12.7	12	3/4-14	34.1	32	0.27
A-1008-MBPP	10	5/8	15.9	08	1/2-14	34.1	30	0.27
A-1010-MBPP	10	5/8	15.9	10	5/8-14	36.1	30	0.27
A-1012-MBPP	10	5/8	15.9	12	3/4-14	34.1	32	0.29
A-1212-MBPP	12	3/4	19.0	12	3/4-14	34.6	32	0.31
A-1216-MBPP	12	3/4	19.0	16	1-11	39.6	41	0.53
A-1612-MBPP	16	1	25.4	12	3/4-14	40.2	41	0.55
A-1616-MBPP	16	1	25.4	16	1-11	40.4	41	0.58
A-1620-MBPP	16	1	25.4	20	1 1/4-11	42.4	50	0.82
A-2020-MBPP	20	1 1/4	31.8	20	1 1/4-11	47.0	50	0.98
A-2424-MBPP	24	1 1/2	38.1	24	1 1/2-11	49.0	55	1.19
A-3232-MBPP	32	2	50.8	32	2-11	53.5	70	2.01

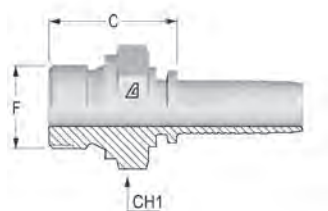
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Two-Piece Fittings

- A Series

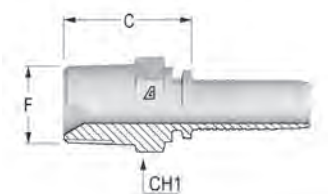


Inserts for two-piece fittings – International End Configurations



BSP Male Flat Seat

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			
A-0404-MBFS	04	1/4	6.4	04	1/4-11	26.3	19	0.09
A-0606-MBFS	06	3/8	9.5	06	3/8-19	27.8	22	0.11
A-0608-MBFS	06	3/8	9.5	08	1/2-14	31.3	27	0.20
A-0808-MBFS	08	1/2	12.7	08	1/2-14	32.1	27	0.13
A-1010-MBFS	10	5/8	15.9	10	5/8-14	36.1	30	0.28
A-1212-MBFS	12	3/4	19.0	12	3/4-14	34.6	32	0.22
A-1616-MBFS	16	1	25.4	16	1-11	40.4	41	0.44

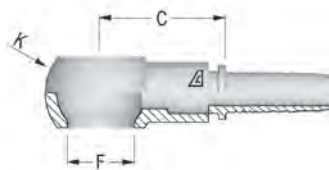


BSPT/JIS Male Tapered

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			
A-0302-MBPT	03	3/16	4.8	02	1/8-28	20.8	12	0.03
A-0402-MBPT	04	1/4	6.4	02	1/8-28	22.3	12	0.04
A-0404-MBPT	04	1/4	6.4	04	1/4-19	26.3	17	0.06
A-0406-MBPT	04	1/4	6.4	06	3/8-19	26.3	19	0.08
A-0506-MBPT	05	5/16	7.9	06	3/8-19	26.3	19	0.09
A-0606-MBPT	06	3/8	9.5	06	3/8-19	26.3	19	0.09
A-0608-MBPT	06	3/8	9.5	08	1/2-14	33.3	22	0.15
A-0808-MBPT	08	1/2	12.7	08	1/2-14	34.1	22	0.17
A-1012-MBPT	10	5/8	15.9	12	3/4-14	34.1	27	0.27
A-1212-MBPT	12	3/4	19.0	12	3/4-14	34.6	27	0.27
A-1216-MBPT	12	3/4	19.0	16	1-11	42.6	36	0.44
A-1616-MBPT	16	1	25.4	16	1-11	43.4	36	0.53
A-2020-MBPT	20	1 1/4	31.8	20	1 1/4-11	49.0	46	0.90
A-2424-MBPT	24	1 1/2	38.1	24	1 1/2-11	49.0	50	1.08
A-3232-MBPT	32	2	50.8	32	2-11	52.0	65	1.76

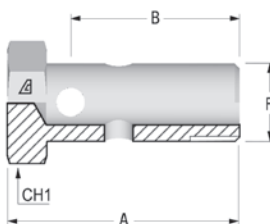
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Inserts for two-piece fittings – International End Configurations



BSP Banjo - RNR

Part Number	Dash Size	Hose ID Size		F Thread Size (in) - TPI	F (mm)	C Cut-Off Factor (mm)	K (mm)	Weight (lbs/each)
		(in)	(mm)					
A-0402-BBAN	04	1/4	6.4	1/8-28	10.1	20.0	17	0.06
A-0404-BBAN	04	1/4	6.4	1/4-19	13.3	26.5	22	0.07
A-0406-BBAN	04	1/4	6.4	3/8-19	16.7	30.5	28	0.08
A-0506-BBAN	05	5/16	7.9	3/8-19	16.7	30.5	28	0.10
A-0606-BBAN	06	3/8	9.5	3/8-19	16.7	30.5	28	0.10
A-0608-BBAN	06	3/8	9.5	1/2-14	21.0	34.5	38	0.19
A-0808-BBAN	08	1/2	12.7	1/2-14	21.0	35.0	38	0.20
A-1010-BBAN	10	5/8	15.9	5/8-14	23.0	38.0	40	0.27
A-1212-BBAN	12	3/4	19.0	3/4-14	26.5	41.5	46	0.44
A-1616-BBAN	16	1	25.4	1-11	33.3	50.5	58	0.82



BSPP Bolt

Part Number	F Thread Size (in) - TPI	A (mm)	B (mm)	CH1 (mm)	Weight (lbs/each)
BBOLT-04	1/4-19	30	25	19	0.08
BBOLT-06	3/8-19	38	31	22	0.13
BBOLT-08	1/2-14	46	38	27	0.21
BBOLT-10	5/8-14	51	42	28	0.21
BBOLT-12	3/4-14	56	47	32	0.37
BBOLT-16	1-11	69	58	38	0.76

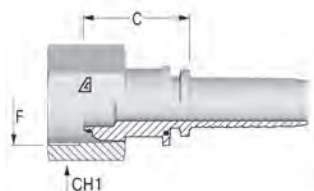
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – International End Configurations

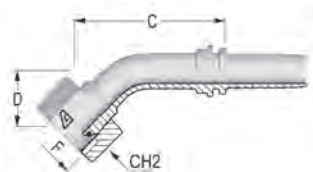


BSP O-Ring Female Swivel 60° Cone

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			
A-0302-FBPO	03	3/16	4.8	02	1/8-28	13.5	14	0.03
A-0304-FBPO	03	3/16	4.8	04	1/4-19	16.0	19	0.04
A-0402-FBPP	04	1/4	6.4	02	1/8-28	14.5	14	0.04
A-0404-FBPO	04	1/4	6.4	04	1/4-19	16.0	19	0.06
A-0406-FBPO	04	1/4	6.4	06	3/8-19	16.0	22	0.09
A-0504-FBPO	05	5/16	7.9	04	1/4-19	17.3	19	0.07
A-0506-FBPO	05	5/16	7.9	06	3/8-19	18.0	22	0.09
A-0604-FBPO	06	3/8	9.5	04	1/4-19	17.3	19	0.09
A-0606-FBPO	06	3/8	9.5	06	3/8-19	17.0	22	0.10
A-0608-FBPO	06	3/8	9.5	08	1/2-14	17.0	27	0.15
A-0806-FBPO	08	1/2	12.7	06	3/8-19	18.6	22	0.13
A-0808-FBPO	08	1/2	12.7	08	1/2-14	18.0	27	0.16
A-0810-FBPO	08	1/2	12.7	10	5/8-14	17.0	27	0.19
A-0812-FBPO	08	1/2	12.7	12	3/4-14	22.0	32	0.22
A-1010-FBPO	10	5/8	15.9	10	5/8-14	17.1	27	0.21
A-1012-FBPO	10	5/8	15.9	12	3/4-14	20.0	32	0.26
A-1212-FBPO	12	3/4	19.0	12	3/4-14	20.6	32	0.26
A-1216-FBPO	12	3/4	19.0	16	1-11	23.0	38	0.02
A-1616-FBPO	16	1	25.4	16	1-11	23.9	38	0.44
A-1620-FBPO	16	1	25.4	20	1 1/4-11	30.5	50	0.90
A-2020-FBPO	20	1 1/4	31.8	20	1 1/4-11	32.0	50	0.98
A-2024-FBPO	20	1 1/4	31.8	24	1 1/2-11	41.9	55	1.32
A-2424-FBPO	24	1 1/2	38.1	24	1 1/2-11	33.8	55	1.65
A-2432-FBPO	24	1 1/2	38.1	32	2-11	36.0	70	1.98
A-3232-FBPO	32	2	50.8	32	2-11	34.0	70	2.12

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Inserts for two-piece fittings – International End Configurations



45° BSP O-Ring Female Swivel 60° Cone

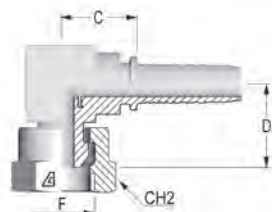
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0302-FBP4	03	3/16	4.8	02	1/8-28	36.0	16.0	14	0.03
A-0402-FBP4	04	1/4	6.4	02	1/8-28	42.0	16.0	14	0.04
A-0404-FB04	04	1/4	6.4	04	1/4-19	44.5	15.0	19	0.10
A-0406-FB04	04	1/4	6.4	06	3/8-19	43.0	16.9	22	0.14
A-0506-FB04	05	5/16	7.9	06	3/8-19	48.0	18.0	22	0.16
A-0606-FB04	06	3/8	9.5	06	3/8-19	50.0	20.5	22	0.15
A-0608-FB04	06	3/8	9.5	08	1/2-14	53.5	21.0	27	0.15
A-0808-FB04	08	1/2	12.7	08	1/2-14	56.0	21.0	27	0.24
A-0810-FB04	08	1/2	12.7	10	5/8-14	61.0	23.0	27	0.34
A-0812-FB04	08	1/2	12.7	12	3/4-14	56.7	23.0	32	0.35
A-1010-FB04	10	5/8	15.9	10	5/8-14	64.0	21.5	27	0.24
A-1012-FB04	10	5/8	15.9	12	3/4-14	69.0	22.5	32	0.44
A-1212-FB04	12	3/4	19.0	12	3/4-14	67.6	28.0	32	0.44
A-1216-FB04	12	3/4	19.0	16	1-11	77.5	31.5	38	0.46
A-1616-FB04	16	1	25.4	16	1-11	72.5	34.0	38	1.00
A-1620-FB04	16	1	25.4	20	1 1/4-11	102.0	47.5	50	0.99
A-2020-FB04	20	1 1/4	31.8	20	1 1/4-11	101.0	40.0	50	1.32
A-2024-FB04	20	1 1/4	31.8	24	1 1/2-11	108.0	46.0	55	1.98
A-2424-FB04	24	1 1/2	38.1	24	1 1/2-14	111.0	46.0	55	2.66
A-2432-FB04	24	1 1/2	38.1	32	2-11	124.0	51.0	70	2.87
A-3232-FB04	32	2	50.8	32	2-11	154.0	60.0	70	3.94

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Two-Piece Fittings - A Series

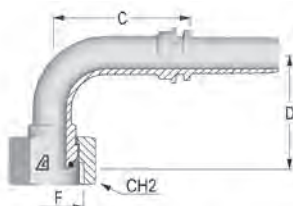


Inserts for two-piece fittings – International End Configurations



90° BSP Compact Female Elbow 60° Cone

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				
A-0404-FBC9	04	1/4	6.4	04	1/4-19	16.8	19.5	19	0.11
A-0506-FBC9	05	5/16	7.9	06	3/8-19	19.5	21.5	22	0.16
A-0606-FBC9	06	3/8	9.5	06	3/8-19	19.5	21.5	22	0.20
A-0608-FBC9	06	3/8	9.5	08	1/2-14	21.5	22.5	27	0.29
A-0808-FBC9	08	1/2	12.7	08	1/2-14	22.2	22.5	27	0.31
A-1212-FBC9	12	3/4	19.0	12	3/4-14	26.7	31.0	32	0.39
A-1616-FBC9	16	1	25.4	16	1-11	34.5	27.5	38	0.47



90° BSP O-Ring Female Swivel 60° Cone

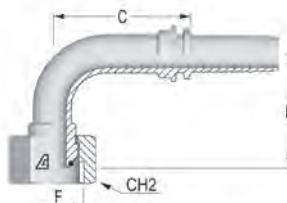
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0302-FBP9	03	3/16	4.8	02	1/8-28	25.0	29.0	14	0.06
A-0402-FBP9	04	1/4	6.4	02	1/8-28	27.0	30.0	14	0.08
A-0404-FB09	04	1/4	6.4	04	1/4-19	29.3	29.0	19	0.10
A-0406-FB09	04	1/4	6.4	06	3/8-19	28.0	30.5	22	0.13
A-0506-FB09	05	5/16	7.9	06	3/8-19	34.0	35.5	22	0.15
A-0606-FB09	06	3/8	9.5	06	3/8-19	39.5	42.0	22	0.15
A-0608-FB09	06	3/8	9.5	08	1/2-14	33.0	36.0	27	0.21
A-0808-FB09	08	1/2	12.7	08	1/2-14	40.0	41.0	27	0.24
A-0810-FB09	08	1/2	12.7	10	5/8-14	42.5	43.0	27	0.24
A-0812-FB09	08	1/2	12.7	12	3/4-14	42.5	43.0	32	0.28
A-1010-FB09	10	5/8	15.9	10	5/8-14	50.2	47.0	27	0.33
A-1012-FB09	10	5/8	15.9	12	3/4-14	48.0	46.0	32	0.42
A-1212-FB09	12	3/4	19.0	12	3/4-14	53.5	53.0	32	0.49
A-1216-FB09	12	3/4	19.0	16	1-11	54.0	50.0	38	0.66
A-1616-FB09	16	1	25.4	16	1-11	73.4	69.0	38	0.92

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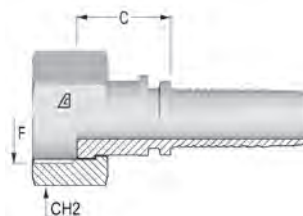
Inserts for two-piece fittings – International End Configurations

(continued)



90° BSP O-Ring Female Swivel 60° Cone

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				
A-1620-FB09	16	1	25.4	20	1 1/4-11	78.5	88.5	50	1.55
A-2020-FB09	20	1 1/4	31.8	20	1 1/4-11	83.0	83.0	50	1.72
A-2024-FB09	20	1 1/4	31.8	24	1 1/2-11	101.5	83.0	55	2.21
A-2424-FB09	24	1 1/2	38.1	24	1 1/2-11	96.0	96.0	55	2.98
A-2432-FB09	24	1 1/2	38.1	32	2-11	114.0	110.0	70	2.82
A-3232-FB09	32	2	50.8	32	2-11	138.0	136.0	70	4.41



BSP Female Swivel Flat Seat

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			
A-0404-FBFS	04	1/4	6.4	04	1/4-19	20.3	19	0.06
A-0606-FBFS	06	3/8	9.5	06	3/8-19	20.3	22	0.09
A-0608-FBFS	06	3/8	9.5	08	1/2-14	20.8	27	0.14
A-0808-FBFS	08	1/2	12.7	08	1/2-14	21.6	27	0.16
A-0812-FBFS	08	1/2	12.7	12	3/4-14	24.6	32	0.23
A-1010-FBFS	10	5/8	15.9	10	5/8-14	15.3	27	0.22
A-1012-FBFS	10	5/8	15.9	12	3/4-14	17.6	32	0.44
A-1212-FBFS	12	3/4	19.0	12	3/4-14	18.0	32	0.26
A-1616-FBFS	16	1	25.4	16	1-11	19.9	38	0.40

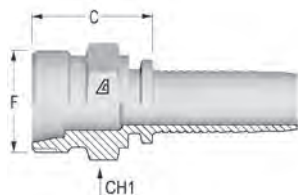
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – International End Configurations

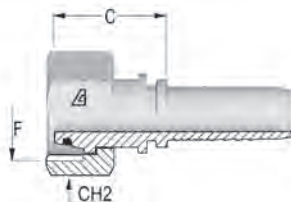


Metric Male 24° Seat – DIN 3853 Light

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)					
A-0414-MMSL	04	1/4	6.4	M14x1.5	8	22.3	14	0.04
A-0416-MMSL	04	1/4	6.4	M16x1.5	10	23.3	17	0.06
A-0516-MMSL	05	5/16	7.9	M16x1.5	10	23.3	17	0.06
A-0518-MMSL	05	5/16	7.9	M18x1.5	12	23.3	19	0.07
A-0616-MMSL	06	3/8	9.5	M16x1.5	10	23.3	17	0.07
A-0618-MMSL	06	3/8	9.5	M18x1.5	12	23.3	19	0.08
A-0622-MMSL	06	3/8	9.5	M22x1.5	15	25.3	22	0.11
A-0822-MMSL	08	1/2	12.7	M22x1.5	15	26.1	22	0.13
A-0826-MMSL	08	1/2	12.7	M26x1.5	18	27.1	27	0.19
A-1026-MMSL	10	5/8	15.9	M26x1.5	18	27.1	27	0.19
A-1230-MMSL	12	3/4	19.0	M30x2	22	29.6	32	0.26
A-1636-MMSL	16	1	25.4	M36x2	28	33.4	36	0.42
A-2045-MMSL	20	1 1/4	31.8	M45x2	35	40.0	46	0.79
A-2452-MMSL	24	1 1/2	38.1	M52x2	42	40.5	60	0.88

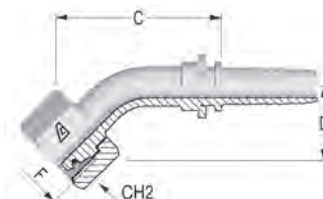
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Inserts for two-piece fittings – International End Inserts



Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light

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)					
A-0412-FMOL	04	1/4	6.4	M12x1.5	6	23.9	14	0.05
A-0414-FMOL	04	1/4	6.4	M14x1.5	8	24.4	17	0.06
A-0416-FMOL	04	1/4	6.4	M16x1.5	10	25.4	19	0.08
A-0516-FMOL	05	5/16	7.9	M16x1.5	10	25.4	19	0.09
A-0616-FMOL	06	3/8	9.5	M16x1.5	10	25.4	19	0.88
A-0618-FMOL	06	3/8	9.5	M18x1.5	12	25.4	22	0.12
A-0622-FMOL	06	3/8	9.5	M22x1.5	15	27.4	27	0.14
A-0822-FMOL	08	1/2	12.7	M22x1.5	15	28.2	27	0.19
A-1026-FMOL	10	5/8	15.9	M26x1.5	18	29.2	32	0.27
A-1226-FMOL	12	3/4	19.0	M26x1.5	18	25.5	32	0.35
A-1230-FMOL	12	3/4	19.0	M30x2	22	31.7	36	0.38
A-1636-FMOL	16	1	25.4	M36x2	28	33.6	41	0.53
A-2045-FMOL	20	1 1/4	31.8	M45x2	35	40.1	50	0.88
A-2452-FMOL	24	1 1/2	38.1	M52x2	42	40.5	60	1.28



45° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light

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)						
A-0414-FM4L	04	1/4	6.4	M14x1.5	8	42.7	17.5	17	0.08
A-0416-FM4L	04	1/4	6.4	M16x1.5	10	42.7	20.0	19	0.10
A-0516-FM4L	05	5/16	7.9	M16x1.5	10	47.5	20.0	19	0.13
A-0616-FM4L	06	3/8	9.5	M16x1.5	10	46.8	20.0	19	0.14
A-0618-FM4L	06	3/8	9.5	M18x1.5	12	46.8	19.5	22	0.15
A-0822-FM4L	08	1/2	12.7	M22x1.5	15	55.0	21.0	27	0.24
A-1026-FM4L	10	5/8	15.9	M26x1.5	18	65.3	24.0	32	0.37
A-1230-FM4L	12	3/4	19.0	M30x2	22	69.4	32.0	36	0.54
A-1636-FM4L	16	1	25.4	M36x2	28	91.4	32.0	41	0.74
A-2045-FM4L	20	1 1/4	31.8	M45x2	35	135.5	45.0	50	1.32
A-2452-FM4L	24	1 1/2	38.1	M52x2	42	114.1	47.0	60	1.93

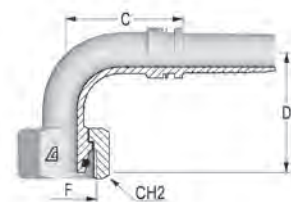
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Two-Piece Fittings

- A Series

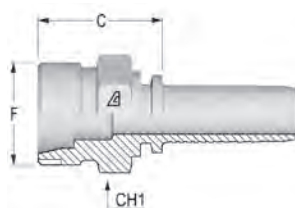


Inserts for two-piece fittings – International End Inserts



90° Metric O-Ring Female Swivel 24° Seat – DIN 3865 Light

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)						
A-0414-FM9L	04	1/4	6.4	M14x1.5	8	28.3	32.5	17	0.09
A-0416-FM9L	04	1/4	6.4	M16x1.5	10	28.3	32.5	19	0.10
A-0516-FM9L	05	5/16	7.9	M16x1.5	10	33.7	38.0	19	0.13
A-0616-FM9L	06	3/8	9.5	M16x1.5	10	32.8	38.0	19	0.14
A-0618-FM9L	06	3/8	9.5	M18x1.5	12	32.8	39.0	22	0.15
A-0622-FM9L	06	3/8	9.5	M22x1.5	15	35.8	38.5	27	0.18
A-0822-FM9L	08	1/2	12.7	M22x1.5	15	39.8	40.5	27	0.24
A-1026-FM9L	10	5/8	15.9	M26x1.5	18	51.4	48.0	32	0.39
A-1230-FM9L	12	3/4	19.0	M30x2	22	52.1	59.0	36	0.57
A-1636-FM9L	16	1	25.4	M36x2	28	77.6	68.0	41	0.86
A-2045-FM9L	20	1 1/4	31.8	M45x2	35	90.5	89.0	50	1.54
A-2452-FM9L	24	1 1/2	38.1	M52x2	42	104.0	100.0	60	2.34

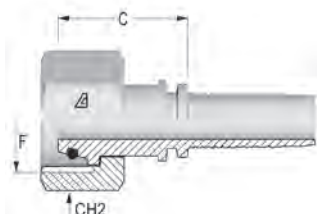


Metric Male 24° Seat – DIN 3853 Heavy

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)					
A-0414-MMSH	04	1/4	6.4	M14x1.5	6	24.3	17	0.06
A-0416-MMSH	04	1/4	6.4	M16x1.5	8	24.3	17	0.06
A-0418-MMSH	04	1/4	6.4	M18x1.5	10	25.3	19	0.07
A-0520-MMSH	05	5/16	7.9	M20x1.5	12	25.3	22	0.10
A-0620-MMSH	06	3/8	9.5	M20x1.5	12	25.3	22	0.11
A-0622-MMSH	06	3/8	9.5	M22x1.5	14	27.3	22	0.12
A-0824-MMSH	08	1/2	12.7	M24x1.5	16	29.1	24	0.15
A-1030-MMSH	10	5/8	15.9	M30x2	20	33.1	32	0.26
A-1236-MMSH	12	3/4	19.0	M36x2	25	37.6	36	0.41
A-1642-MMSH	16	1	25.4	M42x2	30	42.4	46	0.76
A-2052-MMSH	20	1 1/4	31.8	M52x2	38	48.0	55	1.15

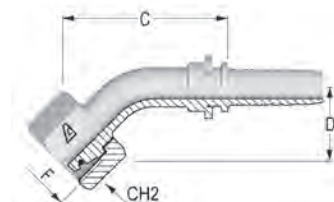
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Inserts for two-piece fittings – International End Inserts



Metric O-Ring Female Swivel 24° Seat – 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)					
A-0414-FMOH	04	1/4	6.4	M14x1.5	6	26.4	17	0.07
A-0416-FMOH	04	1/4	6.4	M16x1.5	8	27.7	19	0.08
A-0418-FMOH	04	1/4	6.4	M18x1.5	10	27.6	22	0.12
A-0518-FMOH	05	5/16	7.9	M18x1.5	10	27.6	22	0.12
A-0520-FMOH	05	5/16	7.9	M20x1.5	12	27.6	24	0.12
A-0620-FMOH	06	3/8	9.5	M20x1.5	12	27.6	24	0.14
A-0622-FMOH	06	3/8	9.5	M22x1.5	14	31.1	27	0.20
A-0824-FMOH	08	1/2	12.7	M24x1.5	16	31.7	30	0.26
A-1030-FMOH	10	5/8	15.9	M30x2	20	36.5	36	0.41
A-1236-FMOH	12	3/4	19.0	M36x2	25	40.2	46	0.75
A-1642-FMOH	16	1	25.4	M42x2	30	43.1	50	0.97
A-2052-FMOH	20	1 1/4	31.8	M52x2	38	48.1	60	1.54



45° Metric O-Ring Female Swivel 24° Seat – 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)						
A-0414-FM4H	04	1/4	6.4	M14x1.5	6	45.6	16.0	17	0.09
A-0418-FM4H	04	1/4	6.4	M18x1.5	10	43.5	19.0	22	0.12
A-0520-FM4H	05	5/16	7.9	M20x1.5	12	48.1	21.0	24	0.18
A-0620-FM4H	06	3/8	9.5	M20x1.5	12	50.6	20.0	24	0.17
A-0622-FM4H	06	3/8	9.5	M22x1.5	14	52.9	21.0	27	0.23
A-0824-FM4H	08	1/2	12.7	M24x1.5	16	55.8	21.5	30	0.29
A-1030-FM4H	10	5/8	15.9	M30x2	20	66.3	30.0	36	0.50
A-1236-FM4H	12	3/4	19.0	M36x2	25	69.5	33.0	46	0.87
A-1642-FM4H	16	1	25.4	M42x2	30	110.3	40.5	50	1.31
A-2052-FM4H	20	1 1/4	31.8	M52x2	38	109.0	45.0	60	1.90

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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

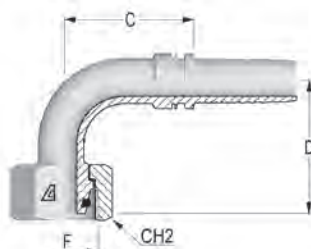
ASSEMBLY
EQUIPMENT

TECHNICAL
INFORMATION

Two-Piece Fittings - A Series

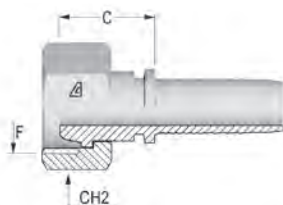


Inserts for two-piece fittings – International End Configurations



90° Metric O-Ring Female Swivel 24° Seat – 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)						
A-0414-FM9H	04	1/4	6.4	M14x1.5	6	27.3	33.0	17	0.11
A-0418-FM9H	04	1/4	6.4	M18x1.5	10	26.8	34.0	22	0.13
A-0520-FM9H	05	5/16	7.9	M20x1.5	12	33.2	39.0	24	0.19
A-0620-FM9H	06	3/8	9.5	M20x1.5	12	34.3	38.5	24	0.18
A-0622-FM9H	06	3/8	9.5	M22x1.5	14	34.3	40.5	27	0.24
A-0822-FM9H	08	1/2	12.7	M22x1.5	14	40.0	45.0	27	0.29
A-0824-FM9H	08	1/2	12.7	M24x1.5	16	39.8	41.5	30	0.31
A-1030-FM9H	10	5/8	15.9	M30x2	20	47.9	55.0	36	0.52
A-1236-FM9H	12	3/4	19.0	M36x2	25	50.6	59.5	46	0.88
A-1642-FM9H	16	1	25.4	M42x2	30	75.6	79.0	50	1.38
A-2052-FM9H	20	1 1/4	31.8	M52x2	38	94.0	92.0	60	2.09

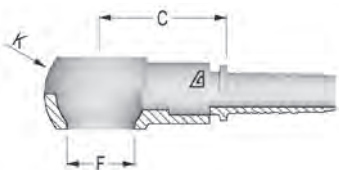


Metric Swivel Female 60° Cone – DIN 3863

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	C Cut-Off Factor (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)				
A-1230-FM6S	12	3/4	19.0	M30x1.5	22.2	36	0.31
A-1638-FM6S	16	1	25.4	M38x1.5	28.0	46	0.49

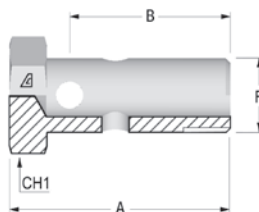
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Inserts for two-piece fittings – International End Inserts



Metric Banjo

Part NuMBANer	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	C Cut-Off Factor (mm)	K (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0412-MBAN	04	1/4	6.4	M12x1.5	28.5	20	0.05
A-0414-MBAN	04	1/4	6.4	M14x1.5	27.5	24	0.06
A-0512-MBAN	05	5/16	7.9	M12x1.5	28.5	24	0.06
A-0514-MBAN	05	5/16	7.9	M14x1.5	27.5	24	0.07
A-0614-MBAN	06	3/8	9.5	M14x1.5	27.5	24	0.08
A-0616-MBAN	06	3/8	9.5	M16x1.5	30.5	28	0.11
A-0618-MBAN	06	3/8	9.5	M18x1.5	31.5	32	0.15
A-0818-MBAN	08	1/2	12.7	M18x1.5	32.0	32	0.17
A-0822-MBAN	08	1/2	12.7	M22x1.5	35.0	39	0.19
A-1022-MBAN	10	5/8	15.9	M22x1.5	35.0	39	0.28
A-1226-MBAN	12	3/4	19.0	M26x1.5	38.5	46	0.42
A-1630-MBAN	16	1	25.4	M30x1.5	42.5	54	0.94



Metric Bolt

Part Number	F Thread Size (in) -TPI	A (mm)	B (mm)	CH1 (mm)	Weight (lbs/each)
MBOLT-10	10x1.5	24	19	14	0.03
MBOLT-12	12x1.5	29	24	17	0.06
MBOLT-14	14x1.5	34	28	19	0.08
MBOLT-16	16x1.5	41	34	22	0.13
MBOLT-18	18x1.5	44	37	24	0.15
MBOLT-22	22x1.5	48	41	27	0.23
MBOLT-26	26x1.5	52	42	32	0.38
MBOLT-30	30x1.5	62	51	38	0.53

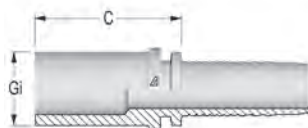
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – International End Inserts



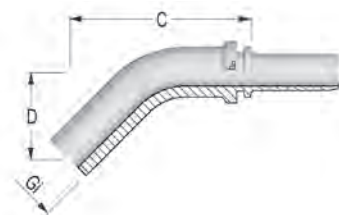
For Nuts & Cutting Rings,
please refer to pages 214-216.

Metric Straight Standpipe

Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	Weight (lbs/each)
		(in)	(mm)			
A-0306-MSPS	03	3/16	4.8	6	27.8	0.02
A-0308-MSPS	03	3/16	4.8	8	29.8	0.03
A-0406-MSPS	04	1/4	6.4	6	28.3	0.02
A-0408-MSPS	04	1/4	6.4	8	30.2	0.03
A-0410-MSPS	04	1/4	6.4	10	32.2	0.04
A-0412-MSPS	04	1/4	6.4	12	31.2	0.06
A-0510-MSPS	05	5/16	7.9	10	30.2	0.04
A-0512-MSPS	05	5/16	7.9	12	32.7	0.06
A-0610-MSPS	06	3/8	9.5	10	30.3	0.04
A-0612-MSPS	06	3/8	9.5	12	29.3	0.05
A-0614-MSPS	06	3/8	9.5	14	35.8	0.09
A-0615-MSPS	06	3/8	9.5	15	34.8	0.09
A-0812-MSPS	08	1/2	12.7	12	32.1	0.10
A-0814-MSPS	08	1/2	12.7	14	36.1	0.10
A-0815-MSPS	08	1/2	12.7	15	32.1	0.10
A-0816-MSPS	08	1/2	12.7	16	37.1	0.12
A-0818-MSPS	08	1/2	12.7	18	36.0	0.12
A-1018-MSPS	10	5/8	15.9	18	34.2	0.14
A-1020-MSPS	10	5/8	15.9	20	44.2	0.20
A-1022-MSPS	10	5/8	15.9	22	37.2	0.18
A-1220-MSPS	12	3/4	19.0	20	45.5	0.20
A-1222-MSPS	12	3/4	19.0	22	36.5	0.21
A-1225-MSPS	12	3/4	19.0	25	48.5	0.77
A-1625-MSPS	16	1	25.4	25	51.4	0.41
A-1628-MSPS	16	1	25.4	28	40.4	0.43
A-1630-MSPS	16	1	25.4	30	54.4	0.23
A-1638-MSPS	16	1	25.4	38	60.4	0.11
A-2030-MSPS	20	1 1/4	31.8	30	56.0	0.66
A-2035-MSPS	20	1 1/4	31.8	35	48.0	0.60
A-2038-MSPS	20	1 1/4	31.8	38	62.0	0.83
A-2438-MSPS	24	1 1/2	38.1	38	62.0	1.03
A-2442-MSPS	24	1 1/2	38.1	42	52.0	0.86

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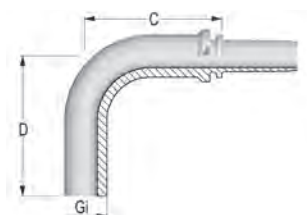
Inserts for two-piece fittings – International End Inserts



For Nuts & Cutting Rings,
please refer to pages 214-216.

45° Metric Bent Tube Standpipe – DIN 2353

Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0406-MSP4	04	1/4	6.4	6	50.1	28.0	0.06
A-0408-MSP4	04	1/4	6.4	8	43.2	23.0	0.05
A-0410-MSP4	04	1/4	6.4	10	48.0	24.0	0.04
A-0610-MSP4	06	3/8	9.5	10	48.5	24.0	0.11
A-0612-MSP4	06	3/8	9.5	12	55.5	28.0	0.11
A-0814-MSP4	08	1/2	12.7	14	56.0	28.5	0.22
A-0815-MSP4	08	1/2	12.7	15	62.6	28.5	0.17
A-0816-MSP4	08	1/2	12.7	16	63.3	32.0	0.18
A-0818-MSP4	08	1/2	12.7	18	72.0	30.5	0.20
A-1018-MSP4	10	5/8	15.9	18	64.0	32.0	0.20
A-1020-MSP4	10	5/8	15.9	20	72.0	37.0	0.20
A-1022-MSP4	10	5/8	15.9	22	72.0	37.0	0.25
A-1220-MSP4	12	3/4	19.0	20	85.0	37.0	0.22
A-1222-MSP4	12	3/4	19.0	22	74.3	37.0	0.27
A-1225-MSP4	12	3/4	19.0	25	83.0	44.0	0.40
A-1625-MSP4	16	1	25.4	25	102.3	55.0	0.44



For Nuts & Cutting Rings,
please refer to pages 214-216.

90° Metric Bent Tube Standpipe – DIN 2353

Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0406-MSP9	04	1/4	6.4	6	25.4	36	0.04
A-0408-MSP9	04	1/4	6.4	8	25.9	44	0.06
A-0410-MSP9	04	1/4	6.4	10	30.6	42	0.08
A-0610-MSP9	06	3/8	9.5	10	30.7	42	0.08
A-0612-MSP9	06	3/8	9.5	12	35.0	50	0.13

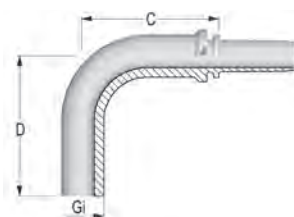
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Two-Piece Fittings - A, MTN Series



Nuts and Cutting Rings for DIN 24° Tube Connections



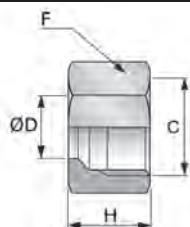
For Nuts & Cutting Rings,
please refer to pages 214-216.

(continued)

90° Metric Bent Tube Standpipe – DIN 2353

Part Number	Dash Size	Hose ID Size		GI Tube OD (mm)	C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0814-MSP9	08	1/2	12.7	14	39.0	52.0	0.16
A-0815-MSP9	08	1/2	12.7	15	44.7	57.0	0.17
A-0816-MSP9	08	1/2	12.7	16	43.7	64.0	0.24
A-0818-MSP9	08	1/2	12.7	18	58.1	59.0	0.37
A-1018-MSP9	10	5/8	15.9	18	52.2	58.0	0.27
A-1020-MSP9	10	5/8	15.9	20	62.6	70.0	0.45
A-1022-MSP9	10	5/8	15.9	22	49.4	64.0	0.35
A-1220-MSP9	12	3/4	19.0	20	63.4	70.0	0.38
A-1222-MSP9	12	3/4	19.0	22	53.1	67.5	0.44
A-1225-MSP9	12	3/4	19.0	25	63.2	85.0	0.77
A-1625-MSP9	16	1	25.4	25	73.1	98.5	0.82
A-1628-MSP9	16	1	25.4	28	73.1	89.5	0.88
A-1630-MSP9	16	1	25.4	30	73.1	102.5	1.47

Nuts and Cutting Rings for DIN 24° Tube Connections

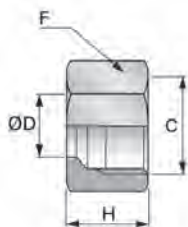


Nut DIN 24° Light Series

Part Number	OD (mm)	C (mm)	F (mm)	H (mm)	Weight (lbs/each)
MTN-6L12X1.5	6	M12X1.5	14	14.5	0.02
MTN-8L14X1.5	8	M14X1.5	17	14.5	0.03
MTN-10L16X1.5	10	M16X1.5	19	15.5	0.04
MTN-12L18X1.5	12	M18X1.5	22	15.5	0.05
MTN-15L22X1.5	15	M22X1.5	27	17.0	0.09
MTN-18L26X1.5	18	M26X1.5	32	18.0	0.13
MTN-22L30X2	22	M30X2	36	20.0	0.17
MTN-28L36X2	28	M36X2	41	21.0	0.20
MTN-35L45X2	35	M45X2	50	24.0	0.30
MTN-42L52X2	42	M52X2	60	24.0	0.48

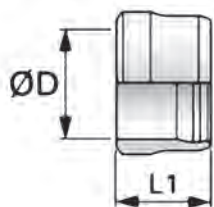
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Nuts and Cutting Rings for DIN 24° Tube Connections



Nut DIN 24° Heavy Series

Part Number	OD (mm)	C (mm)	F (mm)	H (mm)	Weight (lbs/each)
MTN-6H14X1.5	6	M14X1.5	17	16.5	0.04
MTN-8H16X1.5	8	M16X1.5	19	16.5	0.04
MTN-10H18X1.5	10	M18X1.5	22	17.5	0.07
MTN-12H20X1.5	12	M20X1.5	24	17.5	0.08
MTN-14H22X1.5	14	M22X1.5	27	20.5	0.11
MTN-16H24X1.5	16	M24X1.5	30	20.5	0.14
MTN-20H30X2	20	M30X2	36	24.0	0.22
MTN-25H36X2	25	M36X2	46	27.0	0.44
MTN-30H42X2	30	M42X2	50	29.0	0.49
MTN-38H52X2	38	M52X2	60	32.5	0.68



Double Cutting Ring DIN 24° Light Series

Part Number	OD (mm)	L1 (mm)	Weight (lbs/each)
MBS-06LH	6	9.5	0.01
MBS-08LH	8	10.0	0.01
MBS-10LH	10	10.5	0.01
MBS-12LH	12	10.5	0.01
MBS-15L	15	10.5	0.01
MBS-18L	18	10.5	0.02
MBS-22L	22	11.0	0.02
MBS-28L	28	11.0	0.03
MBS-35L	35	13.5	0.05
MBS-42L	42	13.5	0.05

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Two-Piece Fittings

- A, MBS Series



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)

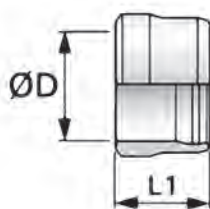
TWO-PIECE INTERLOCK
FERRULES & INSERTS
(X & Z SERIES)

QUICK
RELEASE

ASSEMBLY
EQUIPMENT

TECHNICAL
INFORMATION

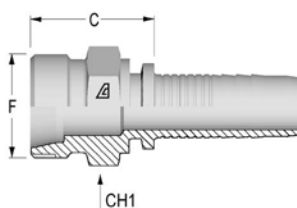
Inserts for two-piece fittings – International End Inserts



Double Cutting Ring DIN 24° Heavy Series

Part Number	OD (mm)	L1 (mm)	Weight (lbs/each)
MBS-14H	14	10.5	0.01
MBS-16H	16	10.5	0.02
MBS-20H	20	13.0	0.03
MBS-25H	25	13.5	0.04
MBS-30H	30	13.5	0.04
MBS-38H	38	13.5	0.05

Inserts for two-piece fittings – International End Inserts

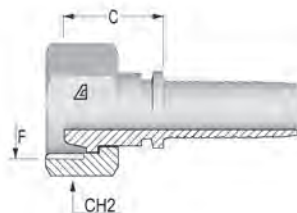


Metric Male French Type (GAZ)

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	Tube OD (mm)	C Cut-Off Factor (mm)	CH1 (mm)	Weight (lbs/each)
		(in)	(mm)					
A-0520-MMFR	05	5/16	7.9	M20x1.5	13.25	25.3	22	0.08
A-0620-MMFR	06	3/8	9.5	M20x1.5	13.25	25.3	22	0.10
A-0824-MMFR	08	1/2	12.7	M24x1.5	16.75	27.1	24	0.15
A-1030-MMFR	10	5/8	15.9	M30x1.5	21.25	31.1	30	0.23
A-1236-MMFR	12	3/4	19.0	M36x1.5	26.75	33.6	36	0.34

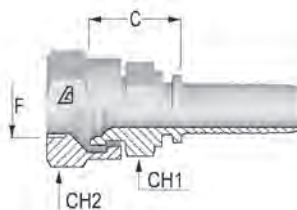
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Inserts for two-piece fittings – International End Inserts



Metric Female French Type (GAZ)

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)					
A-0420-FMFS	04	1/4	6.4	M20x1.5	13.25	23.8	24	0.13
A-0520-FMFS	05	5/16	7.9	M20x1.5	13.25	23.8	24	0.14
A-0620-FMFS	06	3/8	9.5	M20x1.5	13.25	23.8	24	0.14
A-0624-FMFS	06	3/8	9.5	M24x1.5	16.75	26.8	30	0.15
A-0824-FMFS	08	1/2	12.7	M24x1.5	16.75	26.8	30	0.22
A-0830-FMFS	08	1/2	12.7	M30x1.5	21.25	25.6	36	0.33
A-1030-FMFS	10	5/8	15.9	M30x1.5	21.25	26.6	36	0.40
A-1236-FMFS	12	3/4	19.0	M36x1.5	26.75	27.0	42	0.46



JIS Female Swivel 30° Seat – B 8363 Type F

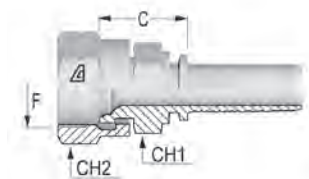
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-FJIS	04	1/4	6.4	04	1/4-19	20.8	17	19	0.09
A-0606-FJIS	06	3/8	9.5	06	3/8-19	21.8	19	22	0.13
A-0808-FJIS	08	1/2	12.7	08	1/2-14	23.6	22	27	0.20
A-1212-FJIS	12	3/4	19.0	12	3/4-14	27.1	30	36	0.41
A-1616-FJIS	16	1	25.4	16	1-11	32.9	36	41	0.62
A-2020-FJIS	20	1 1/4	31.8	20	1 1/4-11	39.5	46	50	1.19
A-2424-FJIS	24	1 1/2	38.1	24	1 1/2-11	41.5	50	55	1.48

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Two-Piece Fittings - A Series

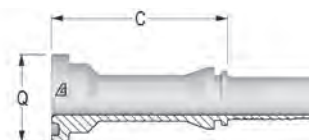


Inserts for two-piece fittings – International End Inserts



Komatsu Female

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)					
A-0414-FKOS	04	1/4	6.4	M14x1.5	20.7	17	19	0.09
A-0618-FKOS	06	3/8	9.5	M18x1.5	22.8	19	22	0.13
A-0822-FKOS	08	1/2	12.7	M22x1.5	24.6	22	27	0.20
A-1024-FKOS	10	5/8	15.9	M24x1.5	29.2	30	32	0.40
A-1230-FKOS	12	3/4	19.0	M30x1.5	27.5	30	36	0.44
A-1633-FKOS	16	1	25.4	M33x1.5	35.7	36	41	0.77
A-2036-FKOS	20	1 1/4	31.8	M36x1.5	43.5	46	46	1.29
A-2442-FKOS	24	1 1/2	38.1	M42x1.5	44.0	55	55	1.93

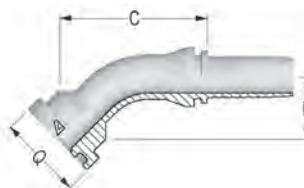


Komatsu Straight O-Ring Flange

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)		
A-1010-KFLS	10	5/8	15.9	1.34	34	46.6	0.30

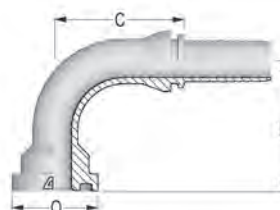
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Inserts for two-piece fittings – International End Inserts



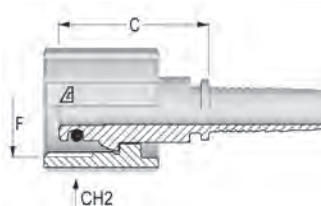
Komatsu 45° O-Ring Flange

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
A-1010-KF45	10	5/8	15.9	1.34	34	59	23	0.33



Komatsu 90° O-Ring Flange

Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
A-1010-KF90	10	5/8	15.9	1.34	34	51	51	0.39



Pressure Wash Female (Type K)

Part Number	Dash Size	Hose ID Size		F Thread Size (mm) x TP (mm)	C Cut-Off Factor (mm)	Hex Dia. 2 (mm)	Weight (lbs/each)
		(in)	(mm)				
A-0422-FPWS	04	1/4	6.4	M22x1.5	34	27	0.15
A-0522-FPWS	05	5/16	7.9	M22x1.5	34	27	0.15
A-0622-FPWS	06	3/8	9.5	M22x1.5	34	27	0.16

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Fitting Configuration Chart



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)

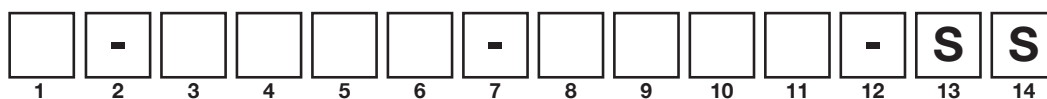
TWO-PIECE INTERLOCK
FERRULES & INSERTS
(X & Z SERIES)

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Fitting Type Hose Size Fitting Size Fitting Configuration Optional for Stainless Steel Fittings



1-Piece Series	
B	
D	
F	
P	
2-Piece Series	
A	
X	
Z	
V	

-02 or 1/8"	-02 or 1/8"
-03 or 3/16"	-03 or 3/16"
-04 or 1/4"	-04 or 1/4"
-05 or 5/16"	-05 or 5/16"
-06 or 3/8"	-06 or 3/8"
-08 or 1/2"	-08 or 1/2"
-10 or 5/8"	-10 or 5/8"
-12 or 3/4"	-12 or 3/4"
-14 or 7/8"	-14 or 7/8"
-16 or 1"	-16 or 1"
-20 or 1 1/4"	-20 or 1 1/4"
-24 or 1 1/2"	-24 or 1 1/2"
-32 or 2"	-32 or 2"
-40 or 2 1/2"	-40 or 2 1/2"
-48 or 3"	-48 or 3"

TYPE	SUFFIX	DESCRIPTION
NPTF	FNPR	Female National Pipe Rigid
	FPMS	Female Pipe Straight Mechanical Swivel
	FNPS	Female National Pipe Swivel
	MNPT	Male Pipe NPTF
	MNPS	Male National Pipe Swivel
	MPS9	Male Pipe Swivel 90 Degree
JIC	FJSH	Female JIC Single Hex Swivel
	FJDH	Female JIC Double Hex Swivel
	FJ45	Female JIC 45 Degree Swivel
	FJ9L	Female JIC 90 Degree Long Swivel
	FJ9M	Female JIC 90 Degree Medium Swivel
	FJ9S	Female JIC 90 Degree Short Swivel
	MJIC	Male JIC
SAE	FSAE	Female SAE Swivel
	FAE4	Female SAE 45 Degree Swivel
	FAE9	Female SAE 90 Degree Swivel
	MORB	Male O-Ring Boss
	MOBS	Male O-Ring Boss Swivel
	MBS9	Male O-Ring Boss Swivel 90 Degree
	MIFL	Male Inverted Flare
	MIF4	Male Inverted Flare 45 Degree
	MIF9	Male Inverted Flare 90 Degree
	MSAE	Male SAE
ORFS	F0FS	Female O-Ring Face Seal Swivel
	F045	Female O-Ring Face Seal 45 Degree Swivel
	F09L	Female O-Ring Face Seal 90 Degree Long Swivel
	F09M	Female O-Ring Face Seal 90 Degree Medium Swivel
	F09S	Female O-Ring Face Seal 90 Degree Short Swivel
	MOFS	Male O-Ring Face Seal
SAE Flange Code 61	C61S	Code 61 Flange Straight
	C612	Code 61 Flange 22.5 Degree
	C613	Code 61 Flange 30 Degree
	C614	Code 61 Flange 45 Degree
	C616	Code 61 Flange 60 Degree
	C619	Code 61 Flange 90 Degree
SAE Flange Code 62	C62S	Code 62 Flange Straight
	C624	Code 62 Flange 45 Degree
	C629	Code 62 Flange 90 Degree

Fitting Configuration Chart – Fitting Type Explanation

B Series – One-piece non-skive crimp fitting for all braided hoses up to 1" ID.

D Series – One-piece non-skive crimp fitting for wire braided hoses above 1" ID and 4 wire spiral hose Alfabiotech 3000 1 1/4" ID thru 2" ID and Alfabiotech 4000 3/8" ID thru 1 1/4" ID.

F Series – One-piece non-skive crimp fitting for Alfabiotech 4000 2" ID, Alfabiotech 5000 3/4" ID thru 2" ID and Alfabiotech 6000 3/4" thru 1 1/4".

P Series – One-piece non-skive crimp fitting for use with Piranhaflex PF321TC hose only.

A Series – Two-piece insert for all wire and textile braided hoses, thermoplastic hose, Flexor 4 and PTFE hose 3/16" thru 2" and Alfabiotech 3000 1 1/4" and 1 1/2", Alfabiotech 4000 3/8" thru 1 1/4" along with some smaller ID spiral wire reinforced hoses.

X Series – Two-piece Interlock insert for spiral wire reinforced hoses. Requires both internal and external skiving and a XF1 or XF2 Interlock ferrule to perform properly.

Z Series – Two-piece Interlock insert for Alfatech 6000 (AT6K) in 2" size only. Requires both internal and external skiving and a ZF1 Interlock ferrule to perform properly.

V Series – Two-piece insert for Flexor Rig/Alfabiotech 2000, 2 1/2" and 3" ID size only. Requires a VS4 skive ferrule to perform properly.

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Hose Ferrule Part Number Configurator



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)

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Ferrule Type				Ferrule Size		Optional for Stainless Steel Fittings		
☐	☐	☐	☐	☐	☐	☐	☐	☐
1	2	3	4	5	6	7	8	9

No Skive Ferrule
AF1
AF2
AF4
AFT
AFX
PFR - Piranhaflex
PFR3 - Piranhaflex
PFR7 - Piranhaflex
Skive Ferrule
AS4
VS4
Interlock Ferrule
XF1
XF2
ZF1

-02 or 1/8"
-03 or 3/16"
-04 or 1/4"
-05 or 5/16"
-06 or 3/8"
-08 or 1/2"
-10 or 5/8"
-12 or 3/4"
-14 or 7/8"
-16 or 1"
-20 or 1 1/4"
-24 or 1 1/2"
-32 or 2"
-40 or 2 1/2"
-48 or 3"

Fitting Configuration Chart – Ferrule Type Explanation

AF1 – Two piece non-skive ferrule for use with “A” insert on single wire braided and compact hydraulic hoses, Flexor 1 (TR1MT, T1SNTT), Flexopak 2 (TF2MT, TF2ST, TF2LT), Alfatech 3000 (AT3KMT, AT3KST), Alfajet 210 (TAJ3BK/BU) and Alfajet 400 (TAJ5BK/BU).

AF2 – Two piece non-skive ferrule for use with “A” insert on double wire braided hydraulic hoses, Flexor 2 (TR2MT, T2SNTT).

AF4 – Two piece non-skive ferrule for use with “A” insert on spiral wire reinforced hoses Alfabiotech ABT3K and ABT4K.

AFT – Two piece non-skive stainless steel ferrule for use with “A” insert on stainless braided PTFE hose (TR14TB).

AFX – Two piece non-skive ferrule for use with “A” insert on textile braided hydraulic hose Flexor 5 (TR5) and Flexor 4 (TR4XF).

PFR, PFR3 and PFR7 – Piranhaflex – Two piece non-skive ferrule for use with “A” insert on all Piranhaflex hydraulic hoses, R7, R8 and R18 styles.

AS4 – Two piece skive ferrule for use with “A” insert on spiral reinforced hoses Alfabiotech ABT4K, ABT5K, ABT6K.

VS4 – Two piece skive ferrule for use with “V” insert on Flexor Rig-40 and 48.

XF1 – Two piece Interlock ferrule for use with “X” Interlock insert on spiral wire reinforced hoses. Requires internal and external skiving.

XF2 – Two piece Interlock ferrule for use with “X” Interlock insert on spiral wire reinforced hoses. Requires internal and external skiving.

ZF1 – Two piece Interlock ferrule for use with “Z” Interlock insert on Alfatech 6000-32, 2” size. Requires internal and external skiving.

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Ferrule Selection Chart

Interlock Ferrule For Interlock Fittings

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)

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Series	Description	Page No.	Size	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
			DIN	10	12	16	19	25	32	38	51	63	76
			(in)	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3
ABT3K	ALFABIOTECH 3000 MINETUFF	30											ZF1
ABT4K	ALFABIOTECH 4000 MINETUFF	31								XF2	XF2		
ABT5K	ALFABIOTECH 5000 MINETUFF	32					XF2	XF2	XF2	XF1	XF1	XF1	
ABT5KST	ALFABIOTECH 5000 SUPERTUFF	39				XF2	XF2	XF2	XF2	XF1	XF1		
ABT6K	ALFABIOTECH 6000 MINETUFF	34				XF1	XF2	XF2	XF1	XF1	ZF1		
ABT6KST	ALFABIOTECH 6000 SUPERTUFF	40			XF2	XF1	XF2	XF2	XF1	XF1	ZF1		
ABTP5K	ALFABIOTECH 5500 MINETUFF	33					XF2	XF2					
AT10KOC	OILWELL CEMENTING SUPERTUFF	71									ZF1		
FLEXOR RIG	FLEXOR RIG MINETUFF ROTARY	69						XF2	XF2	XF1	XF1	XF1	
WB10	WATERBLAST MINETUFF	72			XF2		XF2	XF2					
WB15	WATERBLAST MINETUFF	73			WF9		WF9						
WB20	WATERBLAST MINETUFF	74			WF8								

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