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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
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(X & Z SERIES)

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A Series Ferrules – Skive



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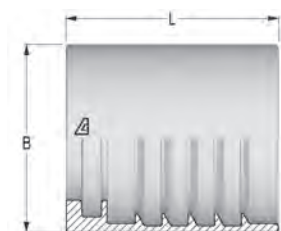


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A Series Non-Skive Ferrules

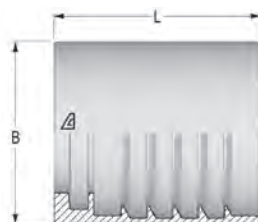
AF1



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AF1-03	03	3/16	4.8	19.0	24.0	0.05
AF1-04	04	1/4	6.4	22	24.7	0.06
AF1-05	05	5/16	7.9	23	24.7	0.07
AF1-06	06	3/8	9.5	26	29.7	0.10
AF1-08	08	1/2	12.7	29	30.5	0.11
AF1-10	10	5/8	15.9	32	30.5	0.12
AF1-12	12	3/4	19.0	36	36.0	0.17
AF1-16	16	1	25.4	44	36.7	0.24
AF1-20	20	1 1/4	31.8	53	48.6	0.40
AF1-24	24	1 1/2	38.1	61	48.6	0.50
AF1-32	32	2	50.8	75	48.6	0.70

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

AF2



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AF2-03	03	3/16	4.8	21	24.0	0.06
AF2-04	04	1/4	6.4	23	24.7	0.07
AF2-05	05	5/16	7.9	25	24.7	0.08
AF2-06	06	3/8	9.5	27	29.7	0.10
AF2-08	08	1/2	12.7	30	30.5	0.12
AF2-10	10	5/8	15.9	33	30.5	0.13
AF2-12	12	3/4	19.0	37	36.0	0.18
AF2-16	16	1	25.4	45	36.7	0.24
AF2-20	20	1 1/4	31.8	56	48.6	0.45
AF2-24	24	1 1/2	38.1	64	48.5	0.55
AF2-32	32	2	50.8	76	48.6	0.70

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

AF4



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AF4-06	06	3/8	9.5	30	28.0	0.11
AF4-08	08	1/2	12.7	34	33.9	0.16
AF4-10	10	5/8	15.9	38	36.6	0.20
AF4-12	12	3/4	19.0	42	39.5	0.28
AF4-16	16	1	25.4	50	45.4	0.51
AF4-20	20	1 1/4	31.8	62	50.1	0.55
AF4-24	24	1 1/2	38.1	68	59.0	0.71

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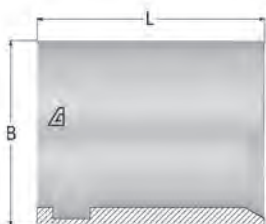
Two-Piece Fittings

- AFT, AFX Series



A Series Non-Skive Ferrules

AFT – Stainless Steel



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AFT-03	03	3/16	4.8	14.0	20	0.02
AFT-04	04	1/4	6.4	15.0	25	0.03
AFT-05	05	5/16	7.9	17.2	25	0.04
AFT-06	06	3/8	9.5	22.0	25	0.07
AFT-08	08	1/2	12.7	25.0	30	0.08
AFT-10	10	5/8	15.9	30.0	33	0.11
AFT-12	12	3/4	19.0	35.0	37	0.15
AFT-16	16	1	25.4	42.0	45	0.26
AFT-20	20	1 1/4	31.8	50.0	48	0.34
AFT-24	24	1 1/2	38.1	57.0	58	0.48
AFT-32	32	2	50.8	73.0	67	0.73

AFX



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AFX-03	03	3/16	4.8	21	21.5	0.05
AFX-04	04	1/4	6.4	23	24.7	0.07
AFX-05	05	5/16	7.9	25	24.7	0.08
AFX-06	06	3/8	9.5	27	29.7	0.10
AFX-08	08	1/2	12.7	30	30.5	0.11
AFX-10	10	5/8	15.9	34	35.5	0.15
AFX-12	12	3/4	19.0	38	36.0	0.17
AFX-16	16	1	25.4	48	42.5	0.28
AFX-20	20	1 1/4	31.8	53	56.5	0.42
AFX-24	24	1 1/2	38.1	60	61.5	0.45
AFX-32	32	2	50.8	76	73.5	0.82
AFX-40	40	2 1/2	63.5	89	85.0	1.29
AFX-48	48	3	76.2	108	111.0	2.40

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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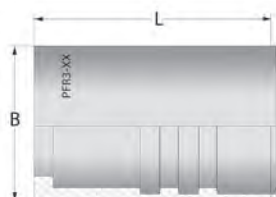
PFR Non-Skive Ferrules



PFR - Piranhaflex™

Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
PFR-03	03	3/16	4.7	14.9	24.0	0.03
PFR-04	04	1/4	6.4	17.0	29.0	0.04
PFR7-05*	05	5/16	7.9	19.0	29.0	0.04
PFR-06	06	3/8	9.5	21.0	31.0	0.05
PFR-08	08	1/2	12.7	25.4	36.0	0.06
PFR-12	12	3/4	19.05	31.8	45.2	0.11

* PFR7-05 ferrules are to be used only with SAE 100R7 hoses!



PFR3 - Piranhaflex™

NEW

Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
PFR3-04	04	1/4	6.4	14.75	28.9	0.03
PFR3-05	05	5/16	7.9	17.4	28.8	0.04
PFR3-06	06	3/8	9.5	19.0	28.8	0.04
PFR3-08	08	1/2	12.7	23.7	36.3	0.06

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Two-Piece Fittings

- AS4, VS4 Series



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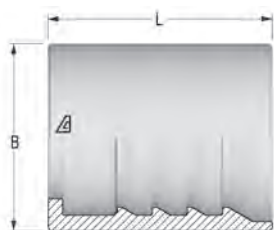
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A Series Skive Ferrules

AS4



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
AS4-04	04	1/4	6.4	22	26.3	0.07
AS4-06	06	3/8	9.5	25	28.5	0.09
AS4-08	08	1/2	12.7	29	34.7	0.14
AS4-10	10	5/8	15.9	32	37.5	0.17
AS4-12	12	3/4	19.0	36	41.5	0.21
AS4-16	16	1	25.4	45	47.7	0.37
AS4-20	20	1 1/4	31.8	58	54.6	0.88
AS4-24	24	1 1/2	38.1	67	61.0	1.08
AS4-32	32	2	50.8	82	75.1	1.76

VS4



Part Number	Dash Size	Hose ID Size		B OD (mm)	L Length (mm)	Weight (lbs/each)
		(in)	(mm)			
VS4-40	40	2 1/2	63.5	95	84.0	3.85
VS4-48	48	3	76.2	95	84.0	4.35

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KHCCA1020

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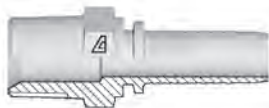
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations



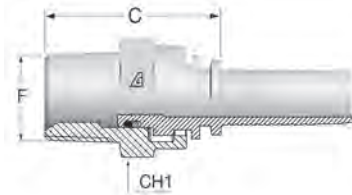
NPTF Male 60° Seat

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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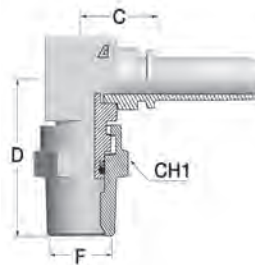
Inserts for two-piece fittings – US End Configurations



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

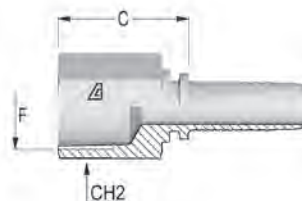
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Two-Piece Fittings

- A Series

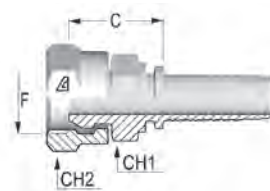


Inserts for two-piece fittings – US End Configurations



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

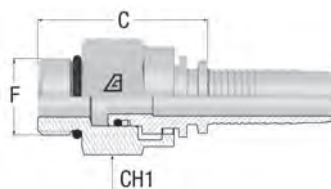


NPSM Female Swivel 60° Seat

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

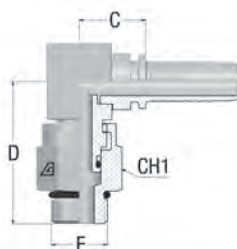
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Inserts for two-piece fittings – US End Configurations



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

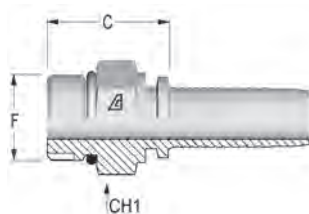
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

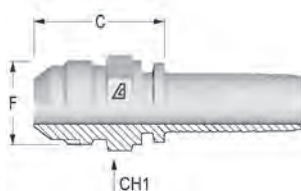


SAE Male O-Ring Boss

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

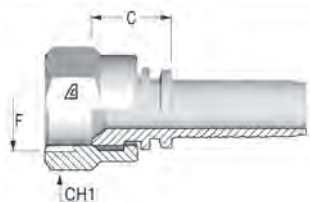
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

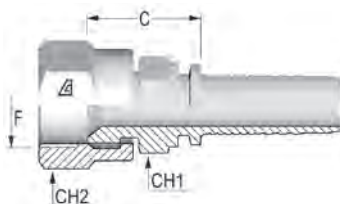


JIC Female 37° Seat

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

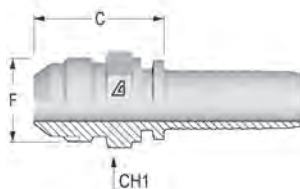
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Two-Piece Fittings - A Series



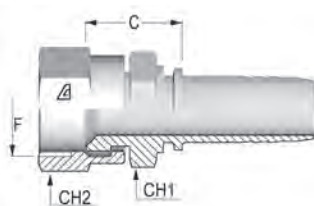
Inserts for two-piece fittings – US End Configurations

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

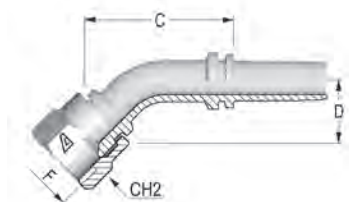


SAE Female 45° Seat – Double Hex

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

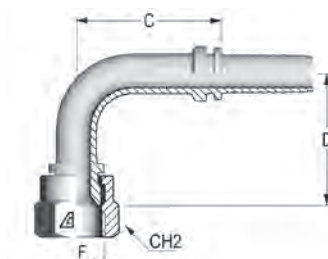
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Inserts for two-piece fittings – US End Configurations

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


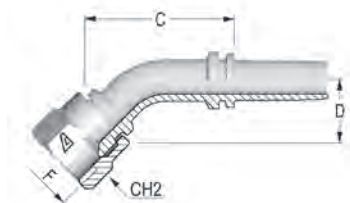
90° Female SAE 45°

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

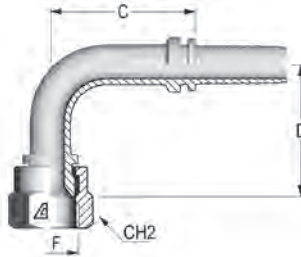
- A Series



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

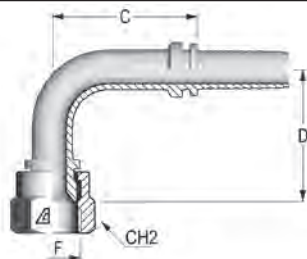
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

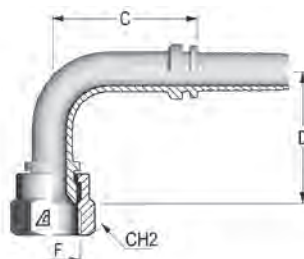


90° JIC Female Swivel 37° Seat Medium Drop

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

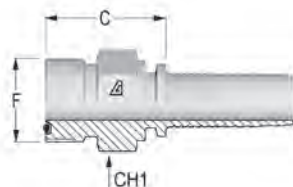
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Two-Piece Fittings

- A Series

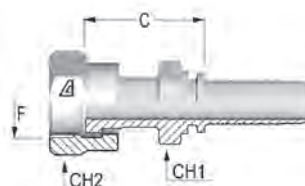


Inserts for two-piece fittings – US End Configurations



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

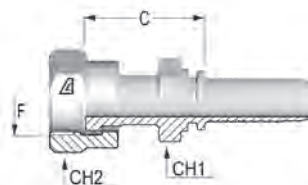
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-FOFS	04	1/4	6.4	04	9/16-18	27.3	14	17	0.08
A-0406-FOFS	04	1/4	6.4	06	11/16-16	30.3	17	22	0.13
A-0506-FOFS	05	5/16	7.9	06	11/16-16	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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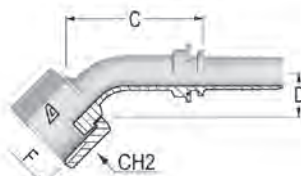
Inserts for two-piece fittings – US End Configurations

(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

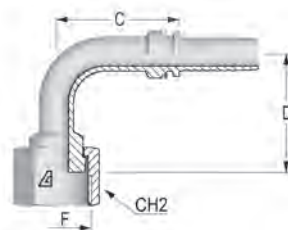
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – US End Configurations

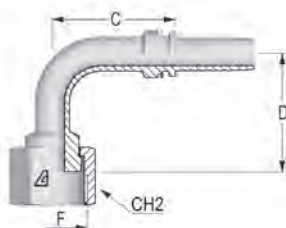


90° ORFS Female Swivel Short Drop

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

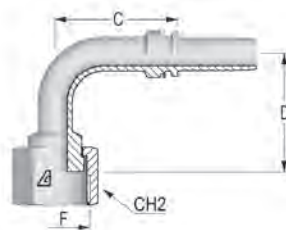
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-F09M	04	1/4	6.4	04	9/16-18	29.8	32	17	0.10
A-0406-F09M	04	1/4	6.4	06	11/16-16	37.3	38	22	0.15
A-0506-F09M	05	5/16	7.9	06	11/16-16	40.7	34	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

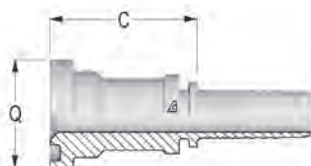


90° ORFS Female Swivel Long Drop

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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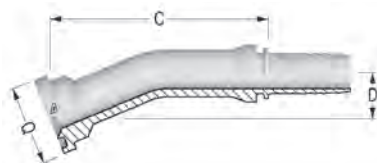
Inserts for two-piece fittings – US End Configurations



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

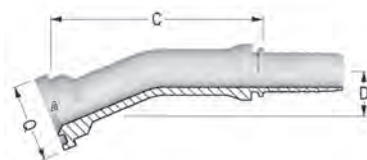
Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)			
A-1616-C612	16	1	25.4	1.75	44.5	86.4	12.0	1.01
A-2020-C612	20	1 1/4	31.8	2.00	50.8	100.6	16.0	1.29
A-2024-C612	20	1 1/4	31.8	2.38	60.3	117.0	20.5	1.54
A-2424-C612	24	1 1/2	38.1	2.38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

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Two-Piece Fittings - A Series



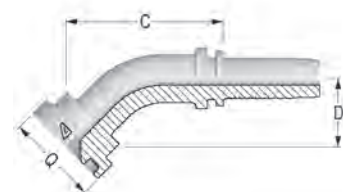
Inserts for two-piece fittings – US End Configurations



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



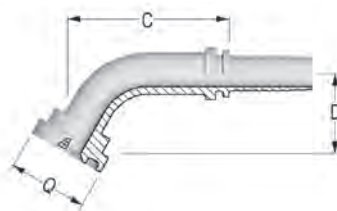
For Code 61 Split Flange Clamps,
please refer to page 195.

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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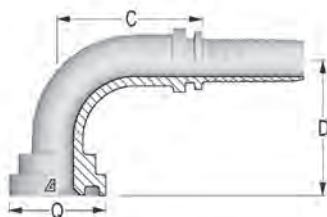
Inserts for two-piece fittings – US End Configurations



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

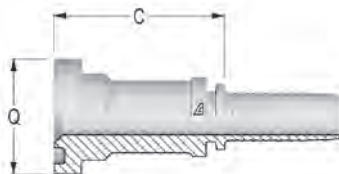
Part Number	Dash Size	Hose ID Size		Q Flange		C Cut-Off Factor (mm)	D Drop (mm)	Max. Working Pressure (psi)	Weight (lbs/each)
		(in)	(mm)	(in)	(mm)				
A-0808-C619	08	1/2	12.7	1.19	30.2	45.8	42.0	5000	0.29
A-0812-C619	08	1/2	12.7	1.50	38.1	45.3	51.0	5000	0.43
A-1012-C619	10	5/8	15.9	1.50	38.1	49.4	51.0	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



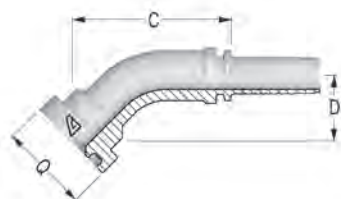
Inserts for two-piece fittings – US End Configurations



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



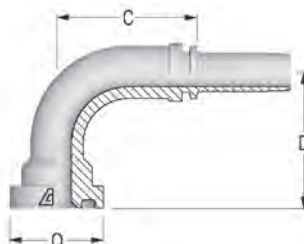
For Code 62 Split Flange Clamps,
please refer to page 198.

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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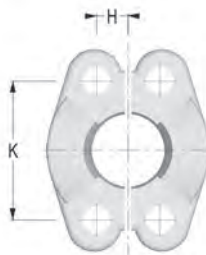
Inserts for two-piece fittings – US End Configurations



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

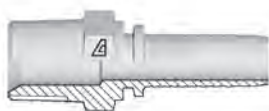
Two-Piece Fittings

- A, V Series



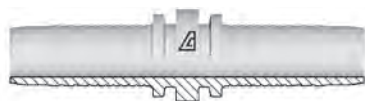
Inserts for two-piece fittings – US End Configurations

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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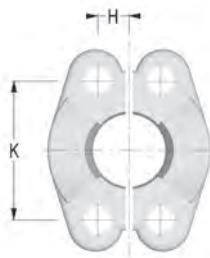
KHCCA1020

Two-Piece Fittings

- A, C62SF Series



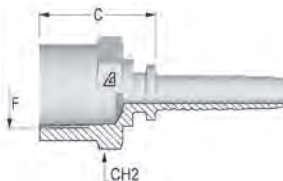
Inserts for two-piece fittings – US End Configurations



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

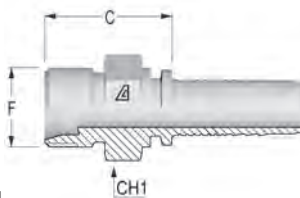
Part Number	Flange Size (in)	H (mm)	K (mm)	Max. Working Pressure (psi)	Weight (lbs/each)
C62SF-08	1/2	9.1	40.5	6000	0.35
C62SF-12	3/4	11.9	50.8	6000	0.71
C62SF-16	1	13.9	57.2	6000	1.43
C62SF-20	1 1/4	15.9	66.7	6000	1.76
C62SF-24	1 1/2	18.3	79.4	6000	3.09
C62SF-32	2	22.2	96.8	6000	4.41

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

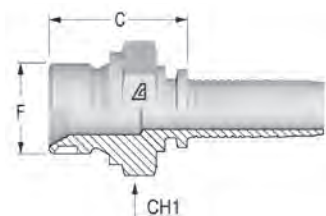


Bite Type Tube Fitting

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

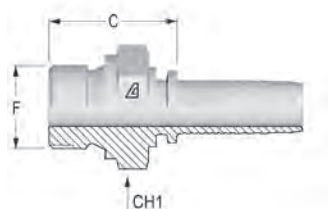
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Two-Piece Fittings

- A Series

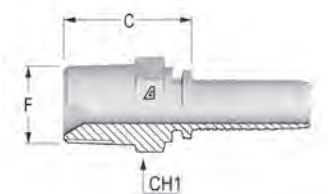


Inserts for two-piece fittings – International End Configurations



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

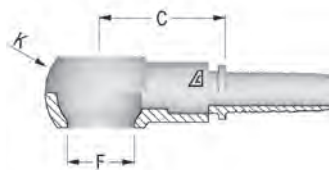


BSPT/JIS Male Tapered

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

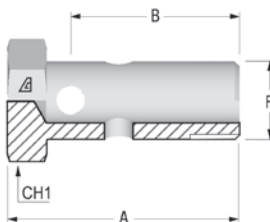
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Inserts for two-piece fittings – International End Configurations



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

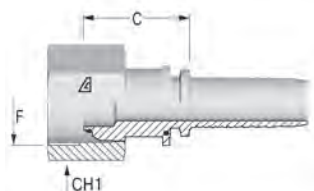
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – International End Configurations

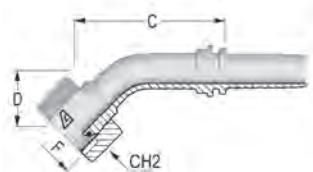


BSP O-Ring Female Swivel 60° Cone

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

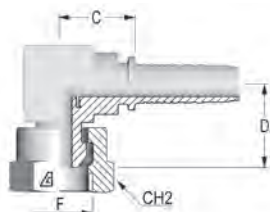
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Two-Piece Fittings

- A Series

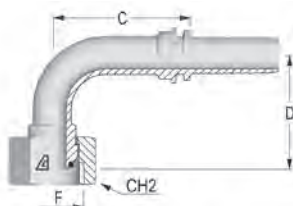


Inserts for two-piece fittings – International End Configurations



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

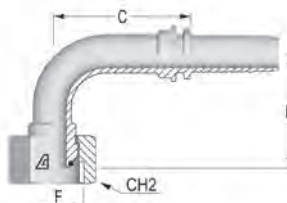
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	D Drop (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0302-FBP9	03	3/16	4.8	02	1/8-28	25.0	29.0	14	0.06
A-0402-FBP9	04	1/4	6.4	02	1/8-28	27.0	30.0	14	0.08
A-0404-FB09	04	1/4	6.4	04	1/4-19	29.3	29.0	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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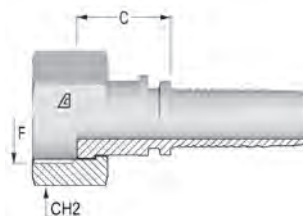
Inserts for two-piece fittings – International End Configurations

(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

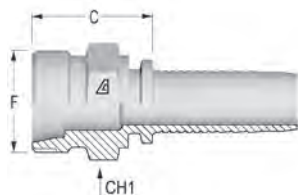
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Two-Piece Fittings

- A Series



Inserts for two-piece fittings – International End Configurations

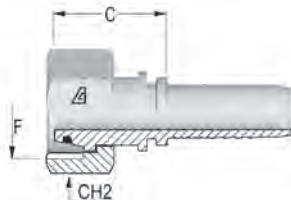


Metric Male 24° Seat – DIN 3853 Light

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

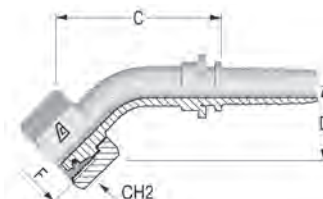
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Inserts for two-piece fittings – International End Inserts



Metric 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

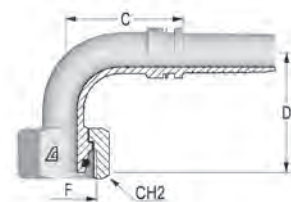
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Two-Piece Fittings

- A Series

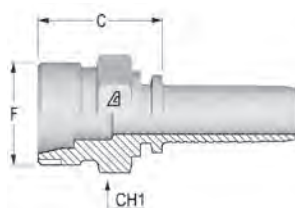


Inserts for two-piece fittings – International End Inserts



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

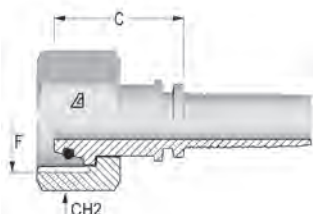


Metric Male 24° Seat – DIN 3853 Heavy

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

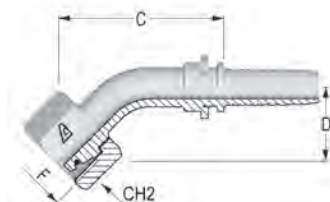
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Inserts for two-piece fittings – International End Inserts



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

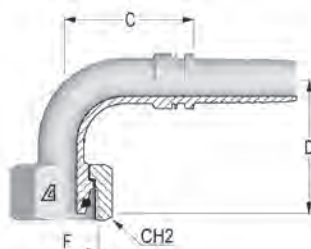
ASSEMBLY
EQUIPMENT

TECHNICAL
INFORMATION

Two-Piece Fittings - A Series

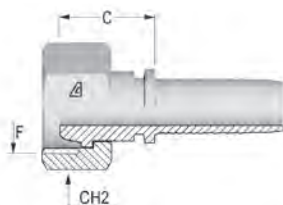


Inserts for two-piece fittings – International End Configurations



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

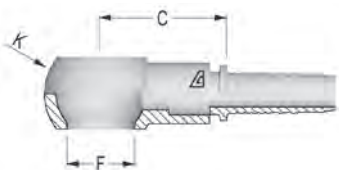


Metric Swivel Female 60° Cone – DIN 3863

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

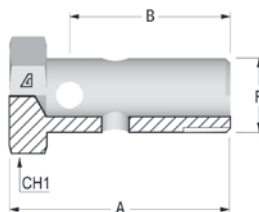
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Inserts for two-piece fittings – International End Inserts



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

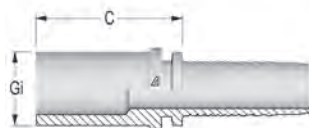
Part Number	F Thread Size (in) -TPI	A (mm)	B (mm)	CH1 (mm)	Weight (lbs/each)
MBOLT-10	10x1.5	24	19	14	0.03
MBOLT-12	12x1.5	29	24	17	0.06
MBOLT-14	14x1.5	34	28	19	0.08
MBOLT-16	16x1.5	41	34	22	0.13
MBOLT-18	18x1.5	44	37	24	0.15
MBOLT-22	22x1.5	48	41	27	0.23
MBOLT-26	26x1.5	52	42	32	0.38
MBOLT-30	30x1.5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

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Two-Piece Fittings - A Series



Inserts for two-piece fittings – International End Inserts



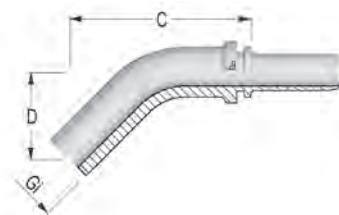
For Nuts & Cutting Rings,
please refer to pages 214-216.

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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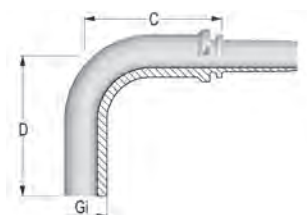
Inserts for two-piece fittings – International End Inserts



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

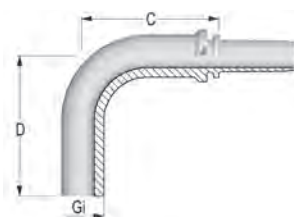
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Two-Piece Fittings - A, MTN Series



Nuts and Cutting Rings for DIN 24° Tube Connections



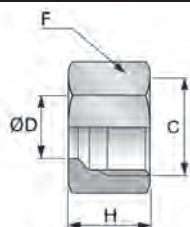
For Nuts & Cutting Rings,
please refer to pages 214-216.

(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

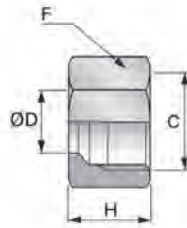


Nut DIN 24° Light Series

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

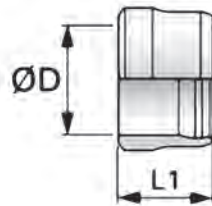
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Nuts and Cutting Rings for DIN 24° Tube Connections



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)

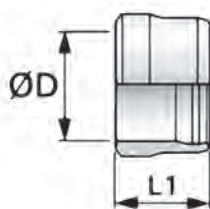
TWO-PIECE INTERLOCK
FERRULES & INSERTS
(X & Z SERIES)

QUICK
RELEASE

ASSEMBLY
EQUIPMENT

TECHNICAL
INFORMATION

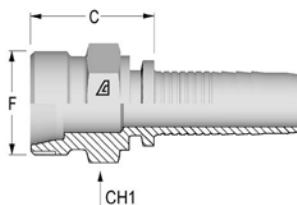
Inserts for two-piece fittings – International End Inserts



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

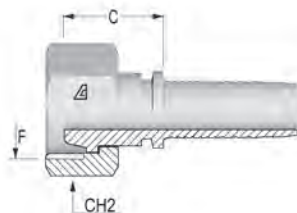


Metric Male French Type (GAZ)

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

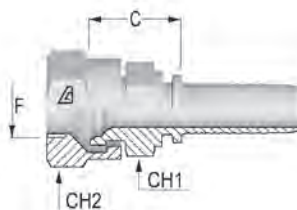
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Inserts for two-piece fittings – International End Inserts



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

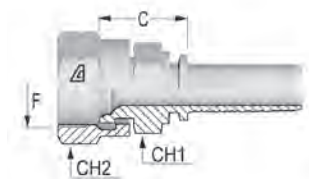
Part Number	Dash Size	Hose ID Size		F Thread		C Cut-Off Factor (mm)	Hex Dia. CH1 (mm)	Hex Dia. CH2 (mm)	Weight (lbs/each)
		(in)	(mm)	Dash Size	Size (in) - TPI				
A-0404-FJIS	04	1/4	6.4	04	1/4-19	20.8	17	19	0.09
A-0606-FJIS	06	3/8	9.5	06	3/8-19	21.8	19	22	0.13
A-0808-FJIS	08	1/2	12.7	08	1/2-14	23.6	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

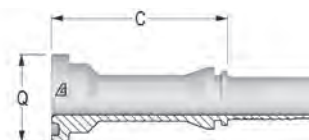


Inserts for two-piece fittings – International End Inserts



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

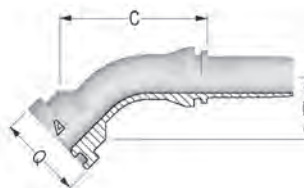


Komatsu Straight O-Ring Flange

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

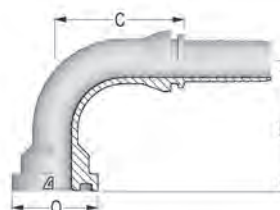
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Inserts for two-piece fittings – International End Inserts



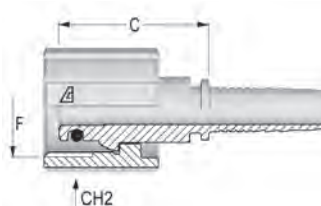
Komatsu 45° O-Ring Flange

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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