intertraco

One Piece Fittings



One Piece Fittings

GSIF1P210

One Piece Fittings Catalogue

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COMPATIBILITY CHART BETWEEN INTERTRACO ONE PIECE FITTINGS AND WIRE BRAIDED HOSES

hose sizes	Intertraco hose type	hose standard	assembling style
-04 / -48	***Flexit 1T***	EN 853 1SN SAE 100 R1AT	●
-04 / -48	***Flexit 2T***	EN 853 2SN SAE 100 R2AT	●
-04 / -16	***Flexit SC117***	EN 857 1SC SAE 100 R17 (sizes -04 / -08)	●
-04 / -16	***Flexit SK117***	exceeds EN 857 1SC SAE SAE 100 R17 (sizes -04 / -08)	●
-04 / -48	***Flexit SC216***	EN 857 2SC SAE 100 R16	●
-04 / -20	***Flexit SK216*** (2 wire compact high pressure)	exceeds EN 857 2SC SAE 100 R17 (sizes -10 / -16)	●
-04 / -16	***Flexit SK119 - Flexit SK219***	exceeds SAE 100 R19	●
-06 / -16	***Flexit 3T*** (3 wire thin cover)	-	●
-03 / -08	***Flexit PT***	Pilot Hose	●
-	***Flexit R5***	SAE 100 R5	●
-04 / -16	***Flexit EZ-Lock***	SAE 100 R6	●
-12 / -48	***Flexit XF R4***	SAE 100 R4	●
-03 / -16	***Flexit T7***	exceeds SAE 100 R7	●
-02 / -16	***Flexit T14***	SAE 100 R14	●
-04 / -16	***BRIDGESTONE R1K***	-	●
-04 / -16	***BRIDGESTONE R2K***	-	●

NOTES:

The approved Intertraco hose and coupling combinations have been extensively tested and validated according to the relevant industry standard.
Different combinations should be fully tested before being utilized; the above information are guide lines only.

Please refer to our crimping chart for more detailed information.
For SAE R8 and EN 854 1TE, 2TE, 3TE, please contact our Technical Dept.
R5 hoses and couplings follow different bore sizes. Please refer to specific catalogues and consult our Technical Dept.

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The letters identify the one piece series.

ø mm	3	5	6	8	10	12	16	19	25	31	38	51	63	76
ø inch	1/8”	3/16”	1/4”	5/16”	3/8”	1/2”	5/8”	3/4”	1”	1 1/4”	1 1/2”	2”	2.1/2”	3”
size	-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
			K											
					J									
			K											
					J									
			K											
			K											
			T											
			K											
					J									
			K											
					J									
			K											
					J									
					J									
		T												
		R-04	R-05	R-06	R-08 (13/32”)	R-10	R-12	R-16 (7/8”)		R-20 (1 1/8”)	R-24 (1 3/8”)	R-32 (1 3/16”)		
			T											
								K						
										J				
		T												
	T													
			K											
			K											

ASSEMBLING STYLE:

- No skive
- External skive

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COMPATIBILITY CHART BETWEEN INTERTRACO ONE PIECE FITTINGS AND WIRE MULTISPIRAL HOSES

hose sizes	Intertraco hose type	hose standard	assembling style
-04 / -32	Flexit SHP	exceeds EN 856 4SP exceeds SAE 100 R12	● ■
-10 / -32	Flexit H4	EN 856 4SH	● ■
-10 / -48	Flexit 5000	SAE 100 R13 ISO 18752 - class 350	● ■
-06 / -32	Flexit 6000	SAE 100 R15 ISO 18752 - class 420	● ■
-10 / -40	BRIDGESTONE 4ST	exceeds EN 856 4SH	● ■
-06 / -20	BRIDGESTONE 4ST+	exceeds SAE 100 R15	● ■
-20 / -40	BRIDGESTONE 6ST	exceeds SAE 100 R15	● ■

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R5 hoses and couplings follow different bore sizes. Please refer to specific catalogues and consult our Technical Dept.

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ø mm	3	5	6	8	10	12	16	19	25	31	38	51	63	76
ø inch	1/8”	3/16”	1/4”	5/16”	3/8”	1/2”	5/8”	3/4”	1”	1 1/4”	1 1/2”	2”	2.1/2”	3”
size	-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48
					J									
								X						
								J						
								X						
							J					H/HLZ		
										X				
					J					H		HLZ		
								X						
							J							
										X			J	
					J									
								X						
										H		HLZ		
										X				

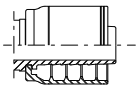
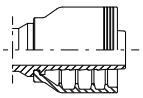
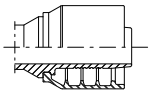
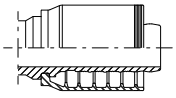
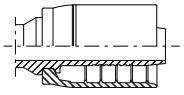
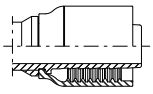
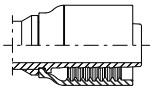
The letters identify the one piece series.

ASSEMBLING STYLE:

- No skive
- External skive

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ONE PIECE FITTINGS APPLICATION CHART AND MATCHING POSSIBILITIES FOR WIRE BRAIDED AND MULTISPIRAL HOSES

series			EN 853 1SN / SAE 100 R1AT	EN 853 2SN / SAE 100 R2AT	EN 857 1SC	exceeds EN 857 1SC	SAE 100 R17	SAE 100 R17	EN 857 2SC / SAE 100 R16
			Flexit 1T	Flexit 2T	Flexit SC117	Flexit SK117	Flexit SC117	Flexit SK117	Flexit SC216
FOR WIRE BRAID HOSES	**K**		-04 / -16	-04 / -16	-04 / -16	-04 / -16	-04 / -08	-04 / -08	-04 / -16
FOR MULTISPIRAL AND WIRE BRAID HOSES	**J**		-06 / -48	-06 / -48					-06 / -48
FOR 6 SPIRAL HOSES	**H**								
FOR 6 SPIRAL HOSES	**HLZ**								
FOR 4 AND 6 SPIRAL HOSES	**X**[1]								
FOR SAE 100 R7 AND R14 HOSES	**T**					-04 / -08		-04 / -08	
FOR SAE 100 R5 HOSES	**R**[2]								

[1] for more detailed information please make reference to X range catalogue

[2] for more detailed information please contact our Technical Dept.

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exceeds EN 857 2SC	SAE 100 R17	exceeds SAE 100 R19	3 WB Hose	Pilot Hose	SAE 100 R5	SAE 100 R6	SAE 100 R4	exceeds SAE 100 R7	SAE 100 R14	-	-	EN 856 4SP	exceeds SAE 100 R12	EN 856 4SH	SAE 100 R13 / ISO 18752 - class 350	SAE 100 R15 / ISO 18752 - class 420	exceeds EN 856 4SP / SAE 100 R12	exceeds EN 856 4SH	exceeds SAE 100 R15	
Flexit SK216 *		Flexit SK119 Flexit SK219	Flexit 3T **	Flexit PT	Flexit R5	Flexit Ez-lock	Flexit XF R4	Flexit T7	Flexit T14	BRIDGESTONE RK1	BRIDGESTONE RK2	Flexit SHP		Flexit H4	Flexit 5000	Flexit 6000	BRIDGESTONE 4ST		BRIDGESTONE 4ST+	BRIDGESTONE 6ST
-04 / -16	-10 / -16	-04 / -16					-12 / -16			-04 / -16	-04 / -16									
-06 / -20	-10 / -16	- 06 / -16	-06 / -16				-20 / -48					-06 / -16	-20 / -32	-12 / -32	-10 / -24	-06 / -16	-10 / -16	-20 / -32 -40	-06 / -20	
															-32	-20 / -24				-20 / -24
															-32	-32				-32
												-12 / -16	-20 / -32	-12 / -32	-20 / -32	-12 / -32	-16	-20 / -32	-12 / -20	-20 / -32
				-03 / -08		-04 / -16		-03 / -16	-02 / -16											
					-04 / -32															

The numbers identify the coupling size

*2 wire compact high pressure **3 wire thin cover

ASSEMBLING STYLE: No skive External skive

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K

For wire braid hoses
No skive

pag - 11

J

For multispiral and
wire braid hoses
No skive

pag - 99

H

For 6 spiral hoses
No skive

pag - 195

T

For SAE 100 R7
thermoplastic
and R14 teflon hoses
No skive

pag - 243

K

SERIES

For wire braid hoses
No skive

intertraco

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product	standard	code	description	page
Fitting	NPTF NPSM	MN10K	NPTF male (60° cone seat)	17
		MNA10K	NPTF male (60° cone seat) - long nose “API” style version	18
		MG10K	NPTF male swivel (60° cone seat)	19
		MG90K	NPTF male swivel - 90° elbow (60° cone seat)	20
		KG91K	NPTF male swivel - 90° compact elbow	21
		FN10K	NPTF female rigid	22
		FN11K	NPTF female swivel (60° cone seat)	23
	JIC	MJ10K	JIC 37° male	24
		FJ11K	JIC 37° female swivel	26
		FJ41K	JIC 37° female swivel - 45° elbow	28
		FJ91K	JIC 37° female swivel - 90° elbow	30
		FJ91K-M	JIC 37° female swivel - 90° elbow (medium drop)	32
		FJ91K-L	JIC 37° female swivel - 90° elbow (long drop)	33
		KJ91K	JIC 37° female swivel - 90° compact elbow	34
	ORFS	OM10K	ORFS male	35
		OR13K	ORFS female swivel	36
		OR11K	ORFS short female swivel	37
		OR44K	ORFS female swivel - 45° elbow	38
		OR94K	ORFS female swivel - 90° elbow	39
		OR94K-M	ORFS female swivel - 90° elbow (medium drop)	40
		OR94K-L	ORFS female swivel - 90° elbow (long drop)	41
	SAE	MU10K	SAE 45° male	42
		FU11K	SAE 45° female swivel	43
		ME10K	O-ring boss male	44
		MV10K	O-ring boss male swivel	45
		MV40K	O-ring boss male swivel - 45° elbow	46
		MV90K	O-ring boss male swivel - 90° elbow	47
		KV91K	O-ring boss male swivel - 90° compact elbow	48
		MZ10K	SAE inverted flare male swivel	49
		MZ40K	SAE inverted flare male swivel - 45° elbow	50
		MZ90K	SAE inverted flare male swivel - 90° elbow	51
		MFA10K	SAE flareless male assembly	52
	GREASE	FGR10K	Female grease	53
	JIS	FT11K	Japanese “T” style termination female swivel 60° cone	54

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product	standard	code	description	page
Fitting	JIS	FK11K	Japanese “KOM” style termination female swivel 60° cone	55
		FK41K	Japanese “KOM” style termination female swivel 60° cone - 45° elbow	56
		FK91K	Japanese “KOM” style termination female swivel 60° cone - 90° elbow	57
		AK10K	Japanese “KOM” style termination straight flange (for metric O-ring)	58
		AK40K	Japanese “KOM” style termination - 45° elbow flange (for metric O-ring)	59
		AK90K	Japanese “KOM” style termination - 90° elbow flange (for metric O-ring)	60
	BSP BSPT	MT10K	BSPT tapered male 60° cone	61
		MB10K	BSP male 60° cone	62
		FB13K	BSP female swivel 60° cone	64
		FB43K	BSP female swivel 60° cone - 45° elbow	66
		FB93K	BSP female swivel 60° cone - 90° elbow	67
		FB93K-L	BSP female swivel 60° cone - 90° elbow (long drop)	68
		KM91K	BSP female swivel 60° cone - 90° compact elbow	69
		FO13K	BSP O-ring female swivel 60° cone	70
		FO43K	BSP O-ring female swivel 60° cone - 45° elbow	71
		FO93K	BSP O-ring female swivel 60° cone - 90° elbow	72
		FP11K	BSP flat face female swivel	73
		BB10K	BSP banjo	74
		VB10B	BSP banjo bolt	75
	METRIC	KW15K	Jet wash female swivel “K” type	76
		FQ13K	Metric female swivel (multiseal 24°/60° cone seat)	77
		FQ93K	Metric female swivel - 90° elbow (multiseal 24°/60° cone seat)	78
		SM10K	Metric standpipe	79
		SM40K	Metric standpipe - 45° elbow	80
		SM90K	Metric standpipe - 90° elbow	81
		BM10K	Metric banjo	82
		VM10B	Metric banjo bolt	83
		ML10K	Metric light male (24° cone seat)	84
		FL13K	Metric light female swivel (24° cone seat)	85
		FL43K	Metric light female swivel - 45° elbow (24° cone seat)	86
		FL93K	Metric light female swivel - 90° elbow (24° cone seat)	87
		MS10K	Metric heavy male (24° cone seat)	88
		FS13K	Metric heavy female swivel (24° cone seat)	89
		FS43K	Metric heavy female swivel - 45° elbow (24° cone seat)	90

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product	standard	code	description	page
Fitting	METRIC	FS93K	Metric heavy female swivel - 90° elbow (24° cone seat)	91
	SAE 3000 CODE 61	AX10K	SAE 3000 code 61 straight flange	92
		AX40K	SAE 3000 code 61 - 45° elbow flange	93
		AX60K	SAE 3000 code 61 - 60° elbow flange	94
		AX90K	SAE 3000 code 61 - 90° elbow flange	95
	STAPLE LOCK	ST11K	Staple lock male	96
	-	WO10K	Brazing tail	97

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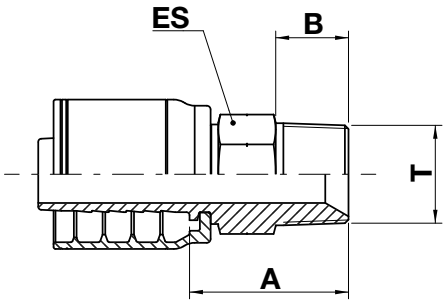
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MN10K

NPTF male (60° cone seat)

NO SKIVE

SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MN10K-04-02	6	1/4”	04	1/8”-27	22,0	0,87	9,5	0,37	14,0	0,551	9/16”
MN10K-04-04	6	1/4”	04	1/4”-18	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MN10K-04-06	6	1/4”	04	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10K-04-08	6	1/4”	04	1/2”-14	33,0	1,30	19,0	0,75	22,0	0,866	7/8”
MN10K-05-04	8	5/16”	05	1/4”-18	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MN10K-05-06	8	5/16”	05	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10K-06-04	10	3/8”	06	1/4”-18	26,5	1,04	14,0	0,55	17,0	0,669	11/16”
MN10K-06-06	10	3/8”	06	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10K-06-08	10	3/8”	06	1/2”-14	33,0	1,30	19,0	0,75	22,0	0,866	7/8”
MN10K-08-04	12	1/2”	08	1/4”-18	28,5	1,12	14,0	0,55	22,0	0,866	7/8”
MN10K-08-06	12	1/2”	08	3/8”-18	28,5	1,12	14,0	0,55	19,0	0,748	3/4”
MN10K-08-08	12	1/2”	08	1/2”-14	33,5	1,32	19,0	0,75	22,0	0,866	7/8”
MN10K-08-12	12	1/2”	08	3/4”-14	34,0	1,34	19,0	0,75	27,0	1,063	1.1/16”
MN10K-10-08	16	5/8”	10	1/2”-14	33,5	1,32	19,0	0,75	24,0	0,945	15/16”
MN10K-10-12	16	5/8”	10	3/4”-14	41,0	1,61	19,0	0,75	27,0	1,063	1.1/16”
MN10K-12-08	19	3/4”	12	1/2”-14	34,5	1,36	19,0	0,75	27,0	1,063	1.1/16”
MN10K-12-12	19	3/4”	12	3/4”-14	41,5	1,63	19,0	0,75	27,0	1,063	1.1/16”
MN10K-12-16	19	3/4”	12	1”-11.1/2	46,5	1,83	24,0	0,94	36,0	1,417	1.7/16”
MN10K-16-12	25	1”	16	3/4”-14	43,0	1,69	19,0	0,75	32,0	1,260	1.1/4”
MN10K-16-16	25	1”	16	1”-11.1/2	48,0	1,89	24,0	0,94	36,0	1,417	1.7/16”
MN10K-16-20	25	1”	16	1.1/4”-11.1/2	60,0	2,36	24,5	0,96	46,0	1,811	1.13/16”

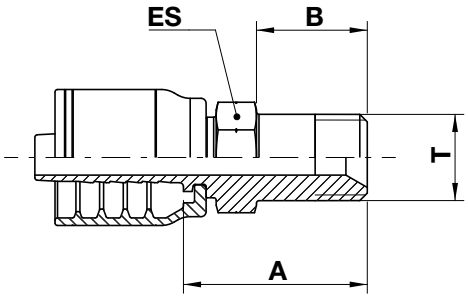
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For wire braid hoses

MNA10K

NPTF male (60° cone seat) - long nose “API” style version

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MNA10K-04-04	6	1/4”	04	1/4”-18	36,0	1,42	22,0	0,87	14,0	0,551	9/16”
MNA10K-04-06	6	1/4”	04	3/8”-18	36,0	1,42	22,0	0,87	19,0	0,748	3/4”
MNA10K-06-06	10	3/8”	06	3/8”-18	36,5	1,44	22,0	0,87	19,0	0,748	3/4”

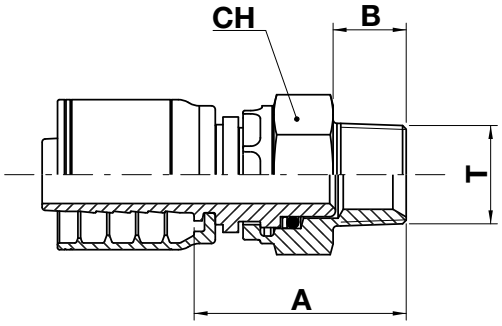
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MG10K MG16K

NPTF male swivel (60° cone seat)

NO SKIVE

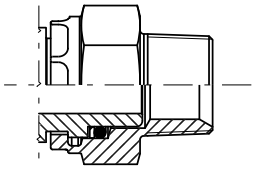
SAE J514



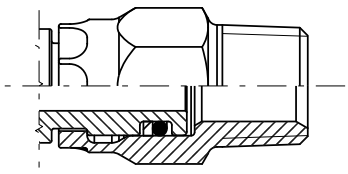
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
MG10K-04-02	6	1/4”	04	1/8”-27	36,5	1,44	9,5	0,37	17,0	0,669	11/16”
MG10K-04-04	6	1/4”	04	1/4”-18	36,5	1,44	14,0	0,55	17,0	0,669	11/16”
MG16K-04-06	6	1/4”	04	3/8”-18	46,5	1,83	14,0	0,55	19,0	0,750	3/4”
MG16K-05-06	8	5/16”	05	3/8”-18	46,5	1,83	14,0	0,55	19,0	0,750	3/4”
MG10K-06-04	10	3/8”	06	1/4”-18	33,5	1,32	14,0	0,55	17,0	0,669	11/16”
MG16K-06-06	10	3/8”	06	3/8”-18	44,5	1,75	14,0	0,55	19,0	0,750	3/4”
MG10K-06-08	10	3/8”	06	1/2”-14	41,5	1,63	19,0	0,75	27,0	1,063	1.1/16”
MG16K-08-06	12	1/2”	08	3/8”-18	48,0	1,89	14,0	0,55	19,0	0,750	3/4”
MG10K-08-08	12	1/2”	08	1/2”-14	42,0	1,65	19,0	0,75	27,0	1,063	1.1/16”
MG10K-10-12	16	5/8”	10	3/4”-14	54,5	2,15	19,4	0,76	36,0	1,417	1.7/16”
MG10K-12-08	19	3/4”	12	1/2”-14	56,5	2,22	19,0	0,75	27,0	1,063	1.1/16”
MG10K-12-12	19	3/4”	12	3/4”-14	55,0	2,17	19,4	0,76	36,0	1,417	1.7/16”
MG10K-16-16	25	1”	16	1”-11.1/2	62,5	2,46	24,2	0,95	38,0	1,496	1.1/2”

Nut type

MG10



MG16 (imperial nut)



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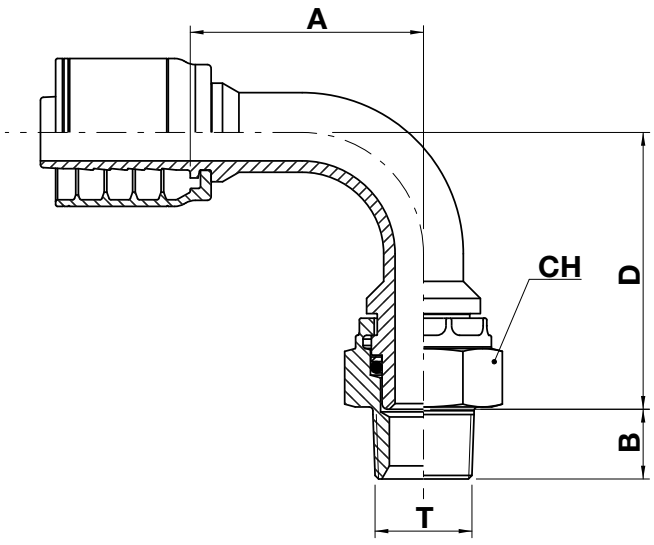
For wire braid hoses

MG90K MG96K

NPTF male swivel 90° elbow (60° cone seat)

NO SKIVE

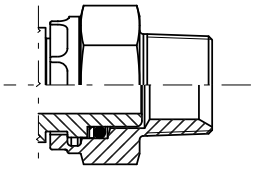
SAE J514



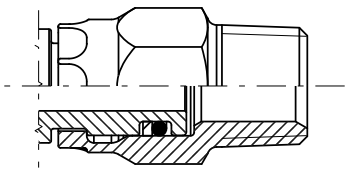
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MG90K-04-04	6	1/4”	04	1/4”-18	28,0	1,10	14,0	0,55	37,0	1,46	17,0	0,669	11/16”
MG96K-04-06	6	1/4”	04	3/8”-18	28,0	1,10	14,0	0,55	46,2	1,82	19,0	0,750	3/4”
MG96K-06-06	10	3/8”	06	3/8”-18	34,5	1,36	14,0	0,55	47,7	1,88	19,0	0,750	3/4”
MG90K-06-08	10	3/8”	06	1/2”-14	34,5	1,36	19,0	0,75	54,5	2,15	27,0	1,063	1.1/16”
MG90K-08-08	12	1/2”	08	1/2”-14	44,5	1,75	19,0	0,75	59,5	2,34	27,0	1,063	1.1/16”
MG90K-12-12	19	3/4”	12	3/4”-14	61,5	2,42	19,4	0,76	91,4	3,60	36,0	1,417	1.7/16”
MG90K-16-16	25	1”	16	1”-11.1/2	72,0	2,83	24,2	0,95	84,5	3,33	38,0	1,496	1.1/2”

Nut type

MG90



MG96 (imperial nut)



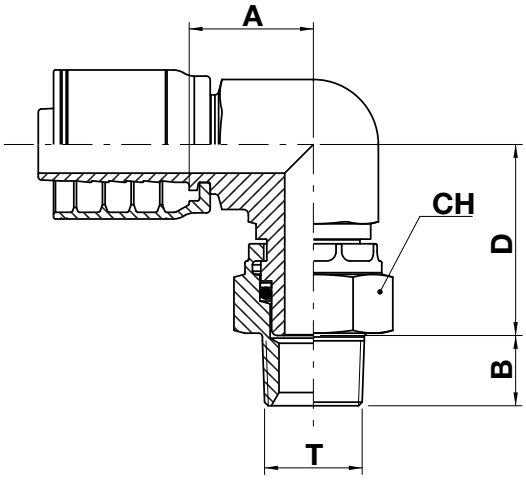
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KG91K KG96K

NPTF male swivel - 90° compact elbow

NO SKIVE

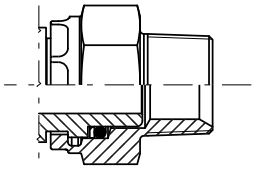
SAE J514



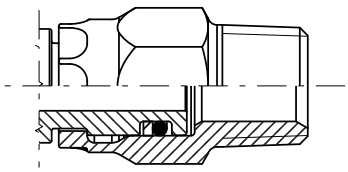
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KG91K-04-04	6	1/4”	04	1/4”-18	18,5	0,73	14,0	0,55	28,0	1,10	17,0	0,669	11/16”
KG96K-04-06	6	1/4”	04	3/8”-18	19,5	0,77	14,0	0,55	37,0	1,46	19,0	0,748	3/4”
KG96K-06-06	10	3/8”	06	3/8”-18	21,5	0,85	14,0	0,55	40,0	1,57	19,0	0,748	3/4”
KG91K-06-08	10	3/8”	06	1/2”-14	25,0	0,98	19,0	0,75	45,5	1,79	27,0	1,063	1.1/16”
KG91K-08-08	12	1/2”	08	1/2”-14	26,5	1,04	19,0	0,75	45,5	1,79	27,0	1,063	1.1/16”
KG91K-12-12	19	3/4”	12	3/4”-14	32,5	1,28	19,0	0,75	49,5	1,95	36,0	1,417	1.7/16”
KG91K-16-16	25	1”	16	1”-11.1/2	34,0	1,34	24,2	0,95	52,5	2,07	38,0	1,496	1.1/2”

Nut type

KG91



KG96 (imperial nut)



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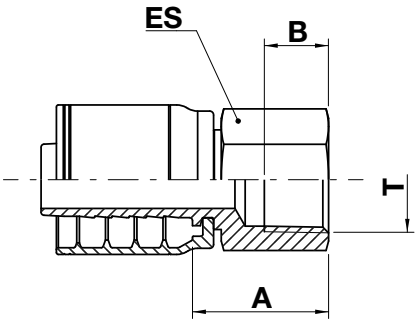
For wire braid hoses

FN10K

NPTF female rigid

NO SKIVE

SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
FN10K-04-02	6	1/4”	04	1/8”-27	21,5	0,85	7,87	0,31	17,0	0,669	11/16”
FN10K-04-04	6	1/4”	04	1/4”-18	26,5	1,04	11,9	0,47	19,0	0,748	3/4”
FN10K-04-06	6	1/4”	04	3/8”-18	28,0	1,10	12,7	0,50	22,0	0,866	7/8”
FN10K-06-04	10	3/8”	06	1/4”-18	26,5	1,04	12,0	0,47	19,0	0,748	3/4”
FN10K-06-06	10	3/8”	06	3/8”-18	28,0	1,10	12,7	0,50	22,0	0,866	7/8”
FN10K-06-08	10	3/8”	06	1/2”-14	33,0	1,30	16,8	0,66	27,0	1,063	1.1/16”
FN10K-08-06	12	1/2”	08	3/8”-18	28,5	1,12	12,7	0,50	22,0	0,866	7/8”
FN10K-08-08	12	1/2”	08	1/2”-14	33,5	1,32	17,0	0,67	27,0	1,063	1.1/16”
FN10K-12-12	19	3/4”	12	3/4”-14	35,5	1,40	16,8	0,66	32,0	1,260	1.1/4”
FN10K-16-16	25	1”	16	1”	44,0	1,73	21,3	0,84	38,0	1,496	1.1/2”

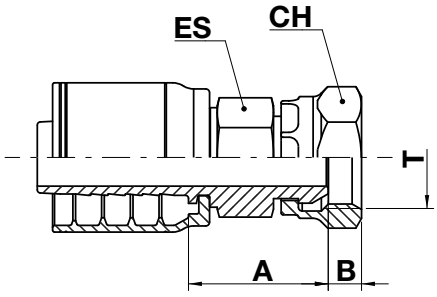
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FN11K FN12K

NPTF female swivel (60° cone seat)

NO SKIVE

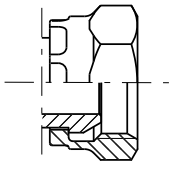
SAE J514



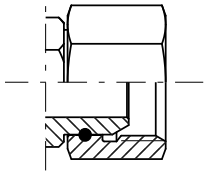
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FN11K-04-04	6	1/4”	04	1/4”-18	24,0	0,94	4,2	0,17	14,0	0,551	9/16”	19,0	0,748	3/4”
FN11K-04-06	6	1/4”	04	3/8”-18	26,5	1,04	5,7	0,22	22,0	0,886	7/8”	22,0	0,886	7/8”
FN11K-05-04	8	5/16”	05	1/4”-18	24,0	0,94	4,2	0,17	19,0	0,748	3/4”	19,0	0,748	3/4”
FN11K-06-06	10	3/8”	06	3/8”-18	26,5	1,04	5,7	0,22	22,0	0,866	7/8”	22,0	0,866	7/8”
FN11K-06-08	10	3/8”	06	1/2”-14	28,5	1,12	6,9	0,27	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FN11K-08-08	12	1/2”	08	1/2”-14	29,0	1,14	6,9	0,27	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FN11K-08-12	19	3/4”	08	3/4”-14	37,0	1,46	8,7	0,34	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FN11K-12-12	19	3/4”	12	3/4”-14	36,8	1,45	8,7	0,34	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FN12K-16-16	25	1”	16	1”-11.1/2	40,5	1,59	10,5	0,41	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”

Nut type

FN11



FN12



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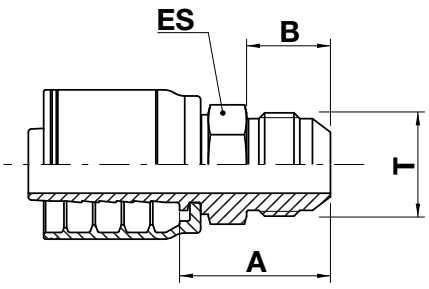
For wire braid hoses

MJ10K

JIC 37° male

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MJ10K-04-04	6	1/4”	04	7/16”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10K-04-05	6	1/4”	04	1/2”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10K-04-06	6	1/4”	04	9/16”-18	27,5	1,08	14,0	0,55	17,0	0,669	11/16”
MJ10K-04-08	6	1/4”	04	3/4”-16	30,5	1,20	16,7	0,66	19,0	0,748	3/4”
MJ10K-05-05	8	5/16”	05	1/2”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10K-05-06	8	5/16”	05	9/16”-18	27,5	1,08	14,0	0,55	17,0	0,669	11/16”
MJ10K-06-06	10	3/8”	06	9/16”-18	27,5	1,08	14,1	0,56	17,0	0,669	11/16”
MJ10K-06-08	10	3/8”	06	3/4”-16	30,2	1,19	16,7	0,66	19,0	0,748	3/4”
MJ10K-06-10	10	3/8”	06	7/8”-14	34,8	1,37	19,3	0,76	24,0	0,945	15/16”
MJ10K-08-06	12	1/2”	08	9/16”-18	28,1	1,11	14,1	0,56	19,0	0,748	3/4”
MJ10K-08-08	12	1/2”	08	3/4”-16	30,7	1,21	16,7	0,66	19,0	0,748	3/4”
MJ10K-08-10	12	1/2”	08	7/8”-14	35,0	1,38	19,3	0,76	24,0	0,945	15/16”
MJ10K-08-12	12	1/2”	08	1.1/16”-12	39,0	1,54	21,9	0,86	27,0	1,063	1.1/16”
MJ10K-10-08	16	5/8”	10	3/4”-16	33,7	1,33	16,7	0,66	24,0	0,945	15/16”
MJ10K-10-10	16	5/8”	10	7/8”-14	35,3	1,39	19,3	0,76	24,0	0,945	15/16”
MJ10K-10-12	16	5/8”	10	1.1/16”-12	38,9	1,53	21,9	0,86	27,0	1,063	1.1/16”
MJ10K-12-10	19	3/4”	12	7/8”-14	36,8	1,45	19,3	0,76	27,0	1,063	1.1/16”
MJ10K-12-12	19	3/4”	12	1.1/16”-12	39,4	1,55	21,9	0,86	27,0	1,063	1.1/16”
MJ10K-12-14	19	3/4”	12	1.3/16”-12	40,1	1,58	22,6	0,89	32,0	1,260	1.1/4”

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← MJ10K

NO SKIVE

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MJ10K-12-16	19	3/4”	12	1.5/16”-12	45,6	1,80	23,1	0,91	36,0	1,417	1.7/16”
MJ10K-16-16	25	1”	16	1.5/16”-12	47,1	1,85	23,1	0,91	36,0	1,417	1.7/16”
MJ10K-16-20	25	1”	16	1.5/8”-12	58,5	2,30	24,3	0,96	46,0	1,811	1.13/16”

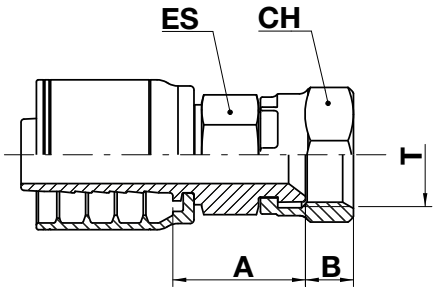
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FJ11K FJ13K FJ16K FJ12K

JIC 37° female swivel

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ11K-03-04	5	3/16”	03	7/16”-20	19,6	0,77	8,7	0,34	11,1	0,437	7/16”	14,0	0,551	9/16”
FJ11K-04-04	6	1/4”	04	7/16”-20	20,8	0,82	8,7	0,34	14,0	0,551	9/16”	14,0	0,551	9/16”
FJ11K-04-05	6	1/4”	04	1/2”-20	21,5	0,85	9,5	0,37	14,0	0,551	9/16”	17,0	0,669	11/16”
FJ11K-04-06	6	1/4”	04	9/16”-18	23,0	0,91	9,5	0,37	14,0	0,551	9/16”	19,0	0,748	3/4”
FJ16K-04-06	6	1/4”	04	9/16”-18	21,5	0,85	9,5	0,37	14,0	0,551	9/16”	17,46	0,687	11/16”
FJ13K-04-08	6	1/4”	04	3/4”-16	18,5	0,73	10,3	0,41	-	-	-	22,0	0,866	7/8”
FJ11K-05-05	8	5/16”	05	1/2”-20	15,5	0,61	9,5	0,37	-	-	-	17,0	0,669	11/16”
FJ11K-05-06	8	5/16”	05	9/16”-18	21,0	0,83	9,5	0,37	14,0	0,551	9/16”	19,0	0,748	3/4”
FJ16K-05-06	8	5/16”	05	9/16”-18	21,0	0,83	9,5	0,37	14,0	0,551	9/16”	17,46	0,687	11/16”
FJ11K-06-04	10	3/8”	06	7/16”-20	22,0	0,87	8,7	0,34	17,0	0,669	11/16”	14,0	0,551	9/16”
FJ11K-06-05	10	3/8”	06	1/2”-20	22,5	0,89	10,5	0,41	17,0	0,669	11/16”	17,0	0,669	11/16”
FJ11K-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	19,0	0,748	3/4”
FJ16K-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	17,46	0,687	11/16”
FJ11K-06-08	10	3/8”	06	3/4”-16	26,0	1,02	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ11K-06-10	10	3/8”	06	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FJ11K-08-06	12	1/2”	08	9/16”-18	26,5	1,04	9,5	0,37	19,0	0,748	3/4”	19,0	0,748	3/4”
FJ16K-08-06	12	1/2”	08	9/16” -18	26,5	1,04	9,5	0,37	19,0	0,748	3/4”	17,46	0,687	11/16”
FJ11K-08-08	12	1/2”	08	3/4”-16	26,5	1,04	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ11K-08-10	12	1/2”	08	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”

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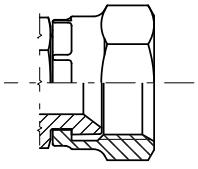
← **FJ11K** FJ13K FJ16K FJ12K

NO SKIVE

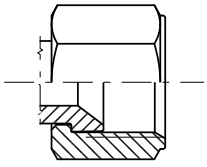
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ11K-08-12	12	1/2”	08	1.1/16”-12	34,0	1,34	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11K-10-08	16	5/8”	10	3/4”-16	28,5	1,12	10,7	0,42	22,0	0,866	7/8”	22,0	0,866	7/8”
FJ11K-10-10	16	5/8”	10	7/8”- 14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FJ11K-10-12	16	5/8”	10	1.1/16”-12	34,0	1,34	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11K-12-10	19	3/4”	12	7/8”-14	35,0	1,38	12,7	0,50	27,0	1,063	1.1/16”	27,0	1,063	1.1/16”
FJ11K-12-12	19	3/4”	12	1.1/16”-12	34,5	1,36	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11K-12-14	19	3/4”	12	1.3/16”-12	31,0	1,22	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
FJ11K-12-16	19	3/4”	12	1.5/16”-12	38,5	1,51	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ11K-16-12	25	1”	16	1.1/16”-12	38,0	1,50	14,3	0,56	32,0	1,260	1.1/4”	32,0	1,260	1.1/4”
FJ11K-16-16	25	1”	16	1.5/16”-12	38,0	1,50	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ12K-16-20	25	1”	16	1.5/8”-12	30,0	1,18	15,9	0,63	-	-	-	50,0	1,969	2”

Nut type

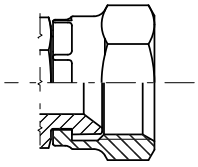
FJ11



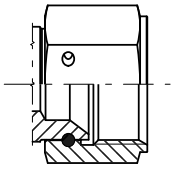
FJ13



FJ16 (imperial nut)



FJ12



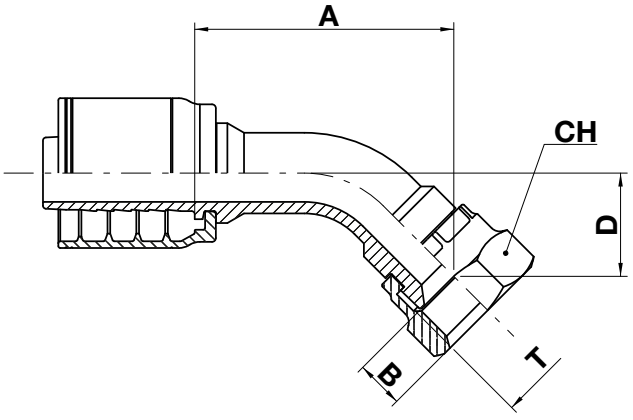
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FJ41K FJ43K FJ46K

JIC 37° female swivel - 45° elbow

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ41K-04-04	6	1/4”	04	7/16”-20	32,0	1,26	8,7	0,34	11,1	0,44	14,0	0,551	9/16”
FJ41K-04-05	6	1/4”	04	1/2”-20	34,5	1,36	10,5	0,41	14,8	0,58	17,0	0,669	11/16”
FJ43K-04-06	6	1/4”	04	9/16”-18	33,1	1,30	9,5	0,37	13,4	0,53	19,0	0,748	3/4”
FJ46K-04-06	6	1/4”	04	9/16”-18	33,1	1,30	9,5	0,37	13,4	0,53	17,46	0,687	11/16”
FJ41K-05-05	8	5/16”	05	1/2”-20	38,5	1,52	9,5	0,37	14,8	0,59	17,0	0,669	11/16”
FJ41K-05-06	8	5/16”	05	9/16”-18	30,9	1,22	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ41K-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ46K-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	17,46	0,687	11/16”
FJ43K-06-08	10	3/8”	06	3/4”-16	42,5	1,67	10,7	0,42	15,0	0,59	22,0	0,866	7/8”
FJ43K-06-10	10	3/8”	06	7/8”-14	50,5	1,99	12,5	0,49	19,4	0,76	27,0	1,063	1.1/16”
FJ41K-08-08	12	1/2”	08	3/4”-16	40,7	1,60	10,7	0,42	13,8	0,54	22,0	0,866	7/8”
FJ43K-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	16,0	0,63	27,0	1,063	1.1/16”
FJ41K-10-10	16	5/8”	10	7/8”-14	54,0	2,13	12,7	0,50	16,0	0,63	27,0	1,063	1.1/16”
FJ41K-10-12	16	5/8”	10	1.1/16”-12	60,5	2,38	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41K-12-12	19	3/4”	12	1.1/16”-12	64,5	2,54	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41K-12-14	19	3/4”	12	1.3/16”-12	63,9	2,52	14,5	0,57	23,2	0,91	36,0	1,417	1.7/16”
FJ41K-12-16	19	3/4”	12	1.5/16”-12	71,5	2,81	15,1	0,59	31,8	1,25	38,0	1,496	1.1/2”
FJ41K-16-16	25	1”	16	1.5/16”-12	86,0	3,38	15,1	0,59	34,5	1,36	38,0	1,496	1.1/2”

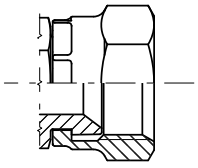
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← **FJ41K** FJ43K FJ46K

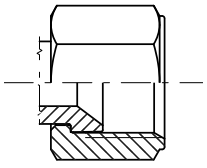
NO SKIVE

Nut type

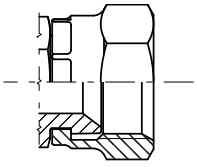
FJ41



FJ43



FJ46 (imperial nut)



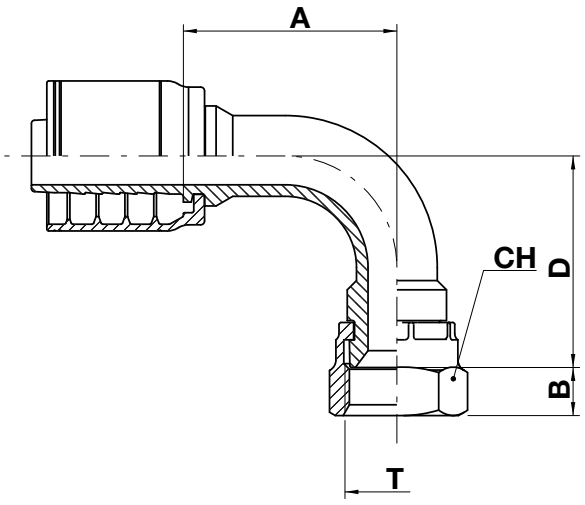
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FJ91K FJ93K FJ96K FJ92K

JIC 37° female swivel - 90° elbow

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91K-04-04	6	1/4”	04	7/16”-20	27,0	1,06	8,7	0,34	21,0	0,83	14,0	0,551	9/16”
FJ91K-04-05	6	1/4”	04	1/2”-20	30,8	1,21	9,5	0,37	30,0	1,18	17,0	0,669	11/16”
FJ93K-04-06	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	28,0	1,10	19,0	0,748	3/4”
FJ96K-04-06	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ91K-05-05	8	5/16”	05	1/2”-20	32,8	1,26	9,5	0,37	30,0	1,18	17,0	0,669	11/16”
FJ91K-05-06	8	5/16”	05	9/16”-18	26,8	1,06	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ91K-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ96K-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ93K-06-08	10	3/8”	06	3/4”-16	35,0	1,38	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ93K-06-10	10	3/8”	06	7/8”-14	37,1	1,46	12,5	0,49	38,0	1,50	27,0	1,063	1.1/16”
FJ91K-08-06	12	1/2”	08	9/16”-18	33,5	1,32	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ91K-08-08	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ93K-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	32,0	1,26	27,0	1,063	1.1/16”
FJ91K-08-12	12	1/2”	08	1.1/16”-12	44,0	1,73	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91K-10-10	16	5/8”	10	7/8”-14	48,5	1,91	12,5	0,49	32,0	1,26	27,0	1,063	1.1/16”
FJ91K-10-12	16	5/8”	10	1.1/16”-12	56,0	2,26	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91K-12-12	19	3/4”	12	1.1/16”-12	61,0	2,41	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91K-12-16	19	3/4”	12	1.5/16”-12	55,5	2,19	15,1	0,61	62,0	2,44	38,0	1,496	1.1/2”
FJ91K-16-16	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,61	71,0	2,80	38,0	1,496	1.1/2”

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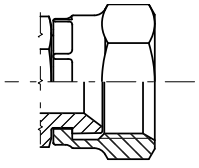
← **FJ91K** FJ93K FJ96K FJ92K

NO SKIVE

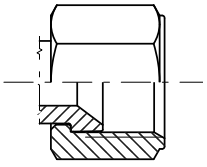
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ92K-16-20	25	1”	16	1.5/8”-12	79,5	3,13	16,0	0,63	79,5	3,13	50,0	1,969	2”

Nut type

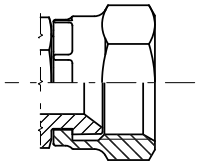
FJ91



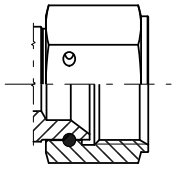
FJ93



FJ96 (imperial nut)



FJ92



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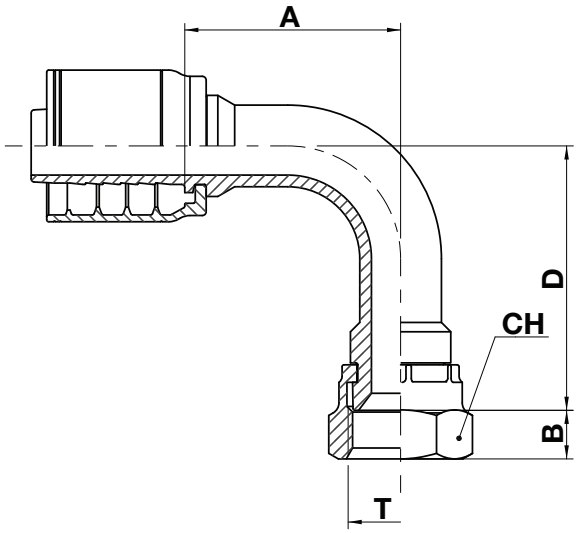
For wire braid hoses

FJ91K-M FJ93K-M

JIC 37° female swivel - 90° elbow (medium drop)

NO SKIVE

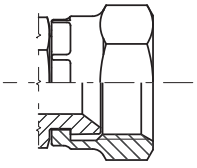
ISO 8434-2 / SAE J514



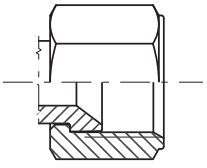
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91K-04-04-M	6	1/4”	04	7/16”-20	27,0	1,06	8,7	0,34	32,0	1,26	14,0	0,551	9/16”
FJ93K-04-06-M	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	38,0	1,50	19,0	0,748	3/4”
FJ91K-06-06-33	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	33,0	1,30	19,0	0,748	3/4”
FJ91K-06-06-M	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	38,0	1,50	19,0	0,748	3/4”
FJ91K-06-08-M	10	3/8”	06	3/4”-16	33,5	1,32	10,7	0,42	41,0	1,73	22,0	0,866	7/8”
FJ91K-08-08-M	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	41,0	1,73	22,0	0,866	7/8”
FJ93K-08-10-M	16	5/8”	10	7/8”-14	44,0	1,73	12,5	0,49	47,0	1,85	27,0	1,062	1.1/16”
FJ91K-08-12-M	12	1/2”	08	1.1/16”-12	46,5	1,83	14,3	0,56	58,0	2,28	32,0	1,260	-
FJ91K-10-10-M	16	5/8”	10	7/8”-14	48,5	1,91	12,5	0,49	47,0	1,85	27,0	1,062	1.1/16”
FJ91K-10-12-M	16	5/8”	10	1.1/16”-12	55,0	2,17	14,3	0,56	58,0	2,28	32,0	1,260	-
FJ91K-12-12-M	19	3/4”	12	1.1/16”-12	60,5	2,38	14,3	0,56	58,0	2,28	32,0	1,260	-

Nut type

FJ91



FJ93



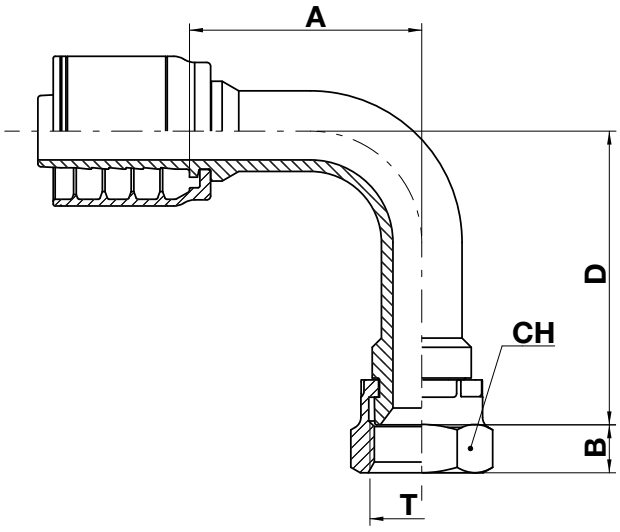
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FJ91K-L FJ93K-L FJ96K-L

JIC 37° female swivel - 90° elbow (long drop)

NO SKIVE

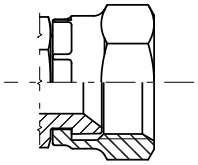
ISO 8434-2 / SAE J514



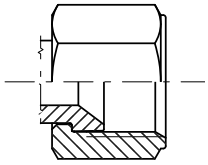
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91K-04-04-L	6	1/4”	04	7/16”-20	27,0	1,06	8,7	0,34	46,0	1,81	14,0	0,551	9/16”
FJ91K-04-05-L	6	1/4”	04	1/2”-20	30,8	1,21	9,5	0,37	46,0	1,81	17,0	0,669	11/16”
FJ93K-04-06-L	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	56,0	2,20	19,0	0,748	3/4”
FJ96K-04-06-L	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	56,0	2,20	17,46	0,687	11/16”
FJ91K-06-06-L	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	56,0	2,20	19,0	0,748	3/4”
FJ93K-06-08-L	10	3/8”	06	3/4”-16	35,0	1,38	10,7	0,42	62,0	2,44	22,0	0,866	7/8”
FJ91K-08-08-L	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	62,0	2,44	22,0	0,866	7/8”
FJ93K-08-10-65	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	65,0	2,56	27,0	1,063	1.1/16”
FJ93K-08-10-L	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	70,0	2,76	27,0	1,063	1.1/16”
FJ91K-10-10-65	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	65,0	2,56	27,0	1,063	1.1/16”
FJ91K-10-10-L	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	70,0	2,76	27,0	1,063	1.1/16”
FJ91K-10-12-L	16	5/8”	10	1.1/16”-12	55,0	2,16	14,3	0,56	96,0	3,78	32,0	1,260	1.1/4”
FJ91K-12-12-L	19	3/4”	12	1.1/16”-12	55,5	2,19	14,3	0,56	96,0	3,78	32,0	1,260	1.1/4”
FJ91K-16-16-110	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,61	110,0	4,33	38,0	1,496	1.1/2”
FJ91K-16-16-L	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,61	114,0	4,49	38,0	1,496	1.1/2”

Nut type

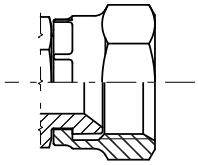
FJ91



FJ93



FJ96 (imperial nut)



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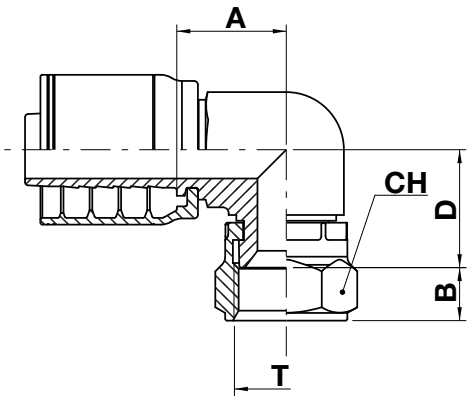
For wire braid hoses

KJ91K KJ96K

JIC 37° female swivel - 90° compact elbow

NO SKIVE

ISO 8434-2 / SAE J514

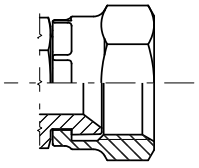


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

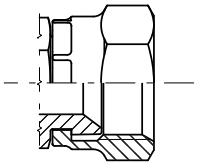
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KJ91K-04-04	6	1/4”	04	7/16”-20	18,5	0,73	8,7	0,34	19,6	0,77	17,0	0,669	11/16”
KJ91K-04-06	6	1/4”	04	9/16”-18	18,5	0,73	9,5	0,37	21,5	0,85	19,0	0,748	3/4”
KJ96K-04-06	6	1/4”	04	9/16”-18	18,5	0,73	8,5	0,33	21,8	0,86	17,46	0,687	11/16”
KJ91K-06-06	10	3/8”	06	9/16”-18	21,5	0,85	8,5	0,33	24,0	0,94	19,0	0,748	3/4”
KJ96K-06-06	10	3/8”	06	9/16”-18	21,5	0,85	8,5	0,33	23,0	0,91	17,46	0,687	11/16”
KJ91K-06-08	10	3/8”	06	3/4”-16	21,5	0,85	10,5	0,41	24,9	0,98	22,0	0,866	7/8”
KJ91K-08-08	12	1/2”	08	3/4”-16	25,0	0,98	9,5	0,37	26,9	1,06	22,0	0,866	7/8”
KJ91K-08-10	12	1/2”	08	7/8”-14	25,0	0,98	13,0	0,51	28,3	1,11	27,0	1,063	1.1/16”
KJ91K-10-10	16	5/8”	10	7/8”-14	26,0	1,02	13,0	0,51	27,7	1,09	27,0	1,063	1.1/16”
KJ91K-10-12	16	5/8”	10	1.1/16”-12	29,0	1,14	14,5	0,57	30,0	1,18	32,0	1,260	1.1/4”
KJ91K-12-12	19	3/4”	12	1.1/16”-12	28,5	1,12	14,3	0,56	30,7	1,21	32,0	1,260	1.1/4”
KJ91K-16-16	25	1”	16	1.5/16”-12	34,0	1,34	14,5	0,5 7	32,5	1,28	38,0	1,496	1.1/2”

Nut type

KJ91



KJ96 (imperial nut)



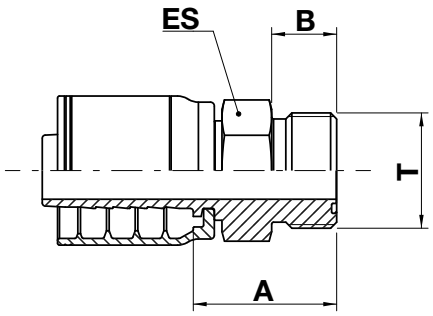
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OM10K*

ORFS male

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
OM10K-04-04	6	1/4”	04	9/16”-18	24,0	0,94	10,0	0,40	15,0	0,591	5/8”
OM10K-04-06	6	1/4”	04	11/16”-16	26,5	1,04	11,2	0,44	19,0	0,748	3/4”
OM10K-06-06	10	3/8”	06	11/16”-16	26,5	1,04	11,2	0,44	19,0	0,748	3/4”
OM10K-06-08	10	3/8”	06	13/16”-16	29,0	1,14	13,2	0,52	22,0	0,866	7/8”
OM10K-08-08	12	1/2”	08	13/16”-16	29,5	1,16	13,2	0,52	22,0	0,866	7/8”
OM10K-08-10	12	1/2”	08	1”-14	34,0	1,34	15,7	0,62	27,0	1,063	1.1/16”
OM10K-08-12	12	1/2”	08	1.3/16”-12	37,0	1,46	17,0	0,67	32,0	1,260	1.1/4”
OM10K-10-08	16	5/8”	10	1.3/16”-16	29,5	1,16	13,2	0,52	22,0	0,866	7/8”
OM10K-10-10	16	5/8”	10	1”-14	34,0	1,34	15,7	0,62	27,0	1,063	1.1/16”
OM10K-10-12	16	5/8”	10	1.3/16”-12	37,0	1,46	17,0	0,67	32,0	1,260	1.1/4”
OM10K-12-10	19	3/4”	12	1”-14	34,5	1,36	15,7	0,62	27,0	1,063	1.1/16”
OM10K-12-12	19	3/4”	12	1.3/16”-12	37,5	1,48	17,0	0,67	32,0	1,260	1.1/4”
OM10K-12-16	19	3/4”	12	1.7/16”-12	40,0	1,57	17,5	0,69	41,0	1,614	1.5/8”
OM10K-16-16	25	1”	16	1.7/16”-12	41,5	1,63	17,5	0,69	41,0	1,614	1.5/8”

* OM13K complete with O-ring

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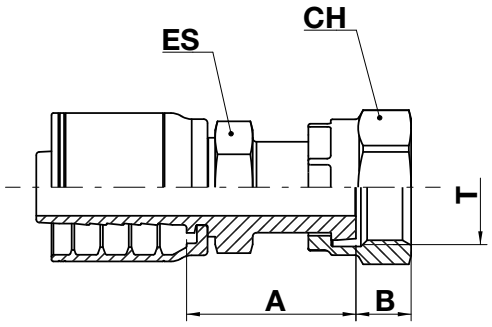
For wire braid hoses

OR13K

ORFS female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR13K-04-04	6	1/4”	04	9/16”-18	28,0	1,10	8,0	0,31	14,0	0,551	9/16”	17,0	0,669	11/16”
OR13K-04-06	6	1/4”	04	11/16”-16	31,5	1,24	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13K-05-06	8	5/16”	05	11/16”-16	32,0	1,26	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13K-06-04	10	3/8”	06	9/16”-18	30,5	1,2,0	8,0	0,31	17,0	0,669	11/16”	17,0	0,669	11/16”
OR13K-06-06	10	3/8”	06	11/16”-16	32,0	1,26	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13K-06-08	10	3/8”	06	13/16”-16	36,5	1,44	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13K-08-06	12	1/2”	08	11/16”-16	31,5	1,24	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
OR13K-08-08	12	1/2”	08	13/16”-16	35,0	1,38	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13K-08-10	12	1/2”	08	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR13K-08-12	12	1/2”	08	1.3/16”-12	44,0	1,73	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13K-10-10	16	5/8”	10	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,118	1.3/16”
OR13K-10-12	16	5/8”	10	1.3/16”-12	44,0	1,73	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13K-12-10	19	3/4”	12	1”-14	42,0	1,65	13,5	0,53	27,0	1,063	1.1/16”	30,0	1,181	1.3/16”
OR13K-12-12	19	3/4”	12	1.3/16”-12	44,6	1,76	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13K-12-16	19	3/4”	12	1.7/16”-12	51,5	2,03	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”
OR13K-16-16	25	1”	16	1.7/16”-12	52,5	2,07	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”

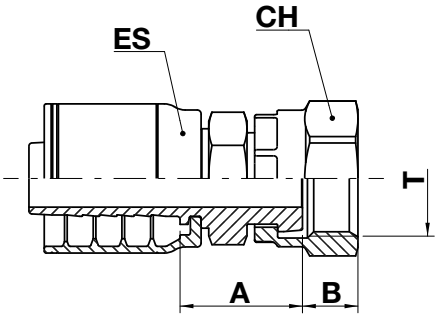
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OR11K

ORFS short female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR11K-04-04	6	1/4”	04	9/16”-18	22,0	0,87	8,0	0,31	14,0	0,551	9/16”	17,0	0,669	11/16”
OR11K-04-06	6	1/4”	04	11/16”-16	23,5	0,92	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR11K-06-04	10	3/8”	06	9/16”-18	23,0	0,90	8,0	0,31	17,0	0,669	11/16”	17,0	0,669	11/16”
OR11K-06-06	10	3/8”	06	11/16”-16	23,5	0,92	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR11K-06-08	10	3/8”	06	13/16”-16	27,0	1,06	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11K-08-06	12	1/2”	08	11/16”-16	25,0	0,98	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
OR11K-08-08	12	1/2”	08	13/16”-16	27,5	1,08	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11K-08-10	12	1/2”	08	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11K-10-08	16	5/8”	10	13/16”-16	28,5	1,12	11,0	0,43	24,0	0,945	15/16”	24,0	0,945	15/16”
OR11K-10-10	16	5/8”	10	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11K-10-12	16	5/8”	10	1.3/16”-12	31,5	1,24	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11K-12-12	19	3/4”	12	1.3/16”-12	32,0	1,26	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11K-12-16	19	3/4”	12	1.7/16”-12	38,5	1,52	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”
OR11K-16-16	25	1”	16	1.7/16”-12	40,0	1,57	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”

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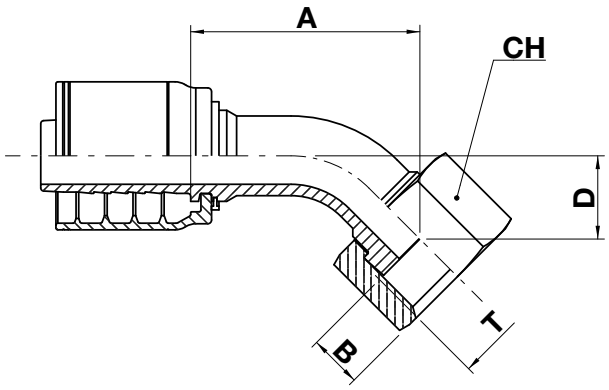
For wire braid hoses

OR44K OR43K

ORFS female swivel - 45° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR44K-04-04	6	1/4”	04	9/16”-18	29,5	1,16	8,0	0,31	10,0	0,39	17,0	0,669	11/16”
OR44K-04-06	6	1/4”	04	11/16”-16	29,0	1,14	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44K-05-06	8	5/16”	05	11/16”-16	35,5	1,40	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR43K-06-04	10	3/8”	06	13/16”-16	32,5	1,28	8,0	0,31	10,0	0,39	17,0	0,669	11/16”
OR44K-06-06	10	3/8”	06	11/16”-16	35,5	1,40	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44K-06-08	10	3/8”	06	13/16”-16	38,5	1,51	11,0	0,43	15,0	0,59	24,0	0,945	15/16”
OR43K-08-06	12	1/2”	08	11/16”-16	38,5	1,51	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44K-08-08	12	1/2”	08	13/16”-16	43,0	1,69	11,0	0,43	15,0	0,59	24,0	0,945	15/16”
OR44K-08-10	12	1/2”	08	1”-14	43,5	1,71	13,5	0,53	16,0	0,63	30,0	1,181	1.3/16”
OR43K-08-12	12	1/2”	08	1.3/16”-12	56,5	2,22	14,5	0,57	18,9	0,74	36,0	1,417	1.7/16”
OR44K-10-10	16	5/8”	10	1”-14	48,5	1,91	13,5	0,53	16,0	0,63	30,0	1,181	1.3/16”
OR44K-10-12	16	5/8”	10	1.3/16”-12	60,5	2,38	14,5	0,57	21,0	0,83	36,0	1,417	1.7/16”
OR43K-12-10	19	3/4”	12	1”-14	67,5	2,65	13,5	0,53	15,0	0,59	30,0	1,181	1.3/16”
OR44K-12-12	19	3/4”	12	1.3/16”-12	62,0	2,44	14,5	0,57	21,0	0,83	36,0	1,417	1.7/16”
OR44K-12-16	19	3/4”	12	1.7/16”-12	63,0	2,48	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”
OR44K-16-16	25	1”	16	1.7/16”-12	73,0	2,87	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”

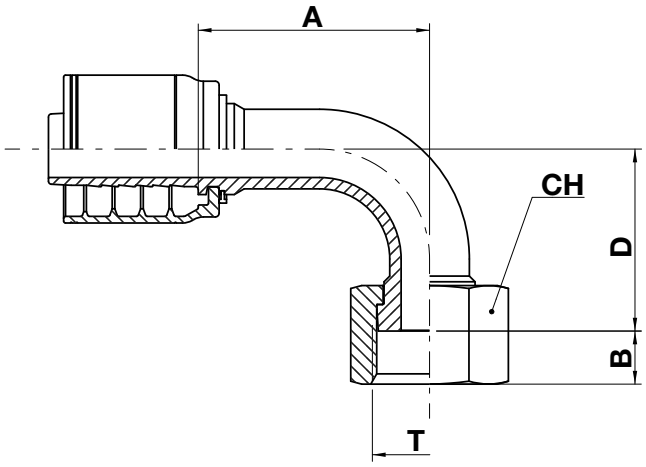
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OR94K OR93K

ORFS female swivel - 90° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94K-04-04	6	1/4”	04	9/16”-18	27,5	1,08	8,0	0,31	22,0	0,87	17,0	0,669	11/16”
OR94K-04-06	6	1/4”	04	11/16”-16	27,5	1,08	9,5	0,37	23,0	0,90	22,0	0,866	7/8”
OR94K-05-06	8	5/16”	05	11/16”-16	31,5	1,24	9,5	0,37	24,0	0,94	22,0	0,866	7/8”
OR93K-06-04	10	3/8”	06	9/16”-18	27,8	1,09	8,0	0,31	21,0	0,83	17,0	0,669	11/16”
OR94K-06-06	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	24,0	0,94	22,0	0,866	7/8”
OR94K-06-08	10	3/8”	06	13/16”-16	31,5	1,24	11,0	0,43	30,0	1,18	24,0	0,945	15/16”
OR93K-08-06	12	1/2”	08	11/16”-16	37,0	1,46	11,0	0,43	23,0	0,91	22,0	0,866	7/8”
OR94K-08-08	12	1/2”	08	13/16”-16	44,5	1,75	11,0	0,43	29,0	1,14	24,0	0,945	15/16”
OR94K-08-10	12	1/2”	08	1”-14	37,5	1,48	13,5	0,53	33,0	1,30	30,0	1,181	1.3/16”
OR94K-08-12	12	1/2”	08	1.3/16”-12	42,5	1,67	14,5	0,57	48,0	1,61	36,0	1,417	1.7/16”
OR94K-10-10	16	5/8”	10	1”-14	46,5	1,83	13,5	0,53	32,0	1,26	30,0	1,181	1.3/16”
OR94K-10-12	16	5/8”	10	1.3/16”-12	53,5	2,11	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR93K-12-10	19	3/4”	12	1”-14	50,5	2,00	13,5	0,53	32,0	1,26	30,0	1,181	1.3/16”
OR94K-12-12	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR94K-12-16	19	3/4”	12	1.7/16”-12	57,0	2,24	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”
OR94K-16-16	25	1”	16	1.7/16”-12	71,0	2,80	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”

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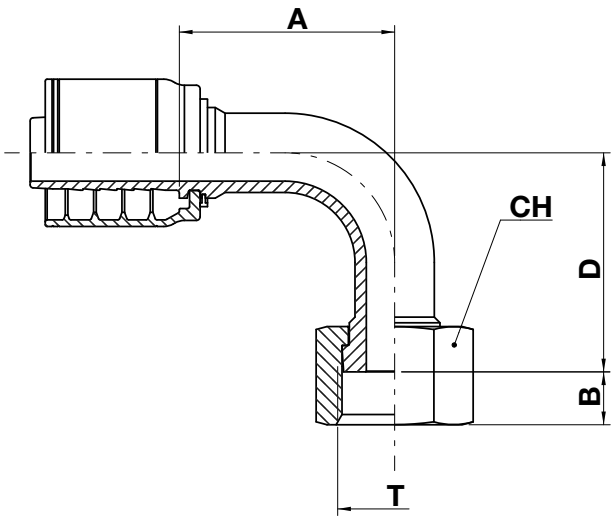
For wire braid hoses

OR94K-M

ORFS female swivel - 90° elbow (medium drop)

NO SKIVE

ISO 8434-3 / SAE J1453



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94K-04-04-M	6	1/4”	04	9/16”-18	29,5	1,16	8,0	0,31	33,0	1,30	17,0	0,669	11/16”
OR94K-04-06-M	6	1/4”	04	11/16”-16	31,5	1,24	9,5	0,37	38,0	1,50	22,0	0,866	7/8”
OR94K-06-06-M	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	38,0	1,50	22,0	0,866	7/8”
OR94K-06-08-M	10	3/8”	06	13/16”-16	34,0	1,34	11,0	0,43	41,0	1,61	24,0	0,945	15/16”
OR94K-08-08-M	12	1/2”	08	13/16”-16	40,0	1,57	11,0	0,43	41,0	1,61	24,0	0,945	15/16”
OR94K-10-10-M	16	5/8”	10	1”-14	53,5	2,10	13,5	0,53	47,0	1,85	30,0	1,181	1.3/16”
OR94K-12-12-M	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	58,0	2,28	36,0	1,417	1.7/16”
OR94K-16-16-M	25	1”	16	1.7/16”-12	74,0	2,91	13,8	0,54	71,0	2,79	41,0	1,614	1.5/8”

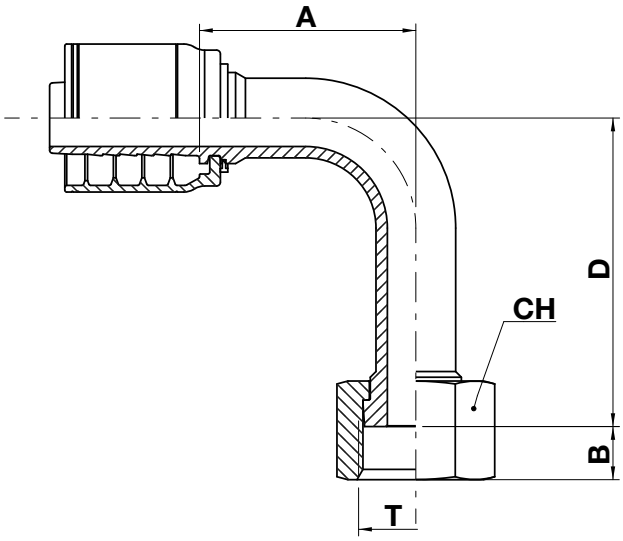
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OR94K-L

ORFS female swivel - 90° elbow (long drop)

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94K-04-04-L	6	1/4”	04	9/16”-18	29,5	1,16	8,0	0,31	46,0	1,81	17,0	0,669	11/16”
OR94K-04-06-L	6	1/4”	04	11/16”-16	31,5	1,24	9,5	0,37	54,0	2,12	22,0	0,866	7/8”
OR94K-06-06-L	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	54,0	2,12	22,0	0,866	7/8”
OR94K-06-08-L	10	3/8”	06	13/16”-16	31,5	1,24	11,0	0,43	64,0	2,52	24,0	0,945	15/16”
OR94K-08-08-L	12	1/2”	08	13/16”-16	40,0	1,57	11,0	0,43	64,0	2,52	24,0	0,945	15/16”
OR94K-10-10-L	16	5/8”	10	1”-14	53,5	2,10	13,5	0,53	70,0	2,75	30,0	1,181	1.3/16”
OR94K-12-12-L	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	96,0	3,78	36,0	1,417	1.7/16”
OR94K-16-16-L	25	1”	16	1.7/16”-12	70,3	2,77	13,8	0,54	114,0	4,49	41,0	1,614	1.5/8”

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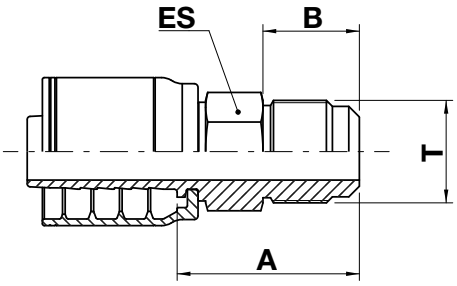
For wire braid hoses

MU10K

SAE 45° male

NO SKIVE

SAE J512



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MU10K-04-04	6	1/4”	04	7/16”-20	25,0	0,98	12,7	0,50	14,0	0,551	9/16”
MU10K-06-06	10	3/8”	06	5/8”-18	29,0	1,14	15,7	0,62	17,0	0,669	11/16”
MU10K-08-08	12	1/2”	08	3/4”-16	33,5	1,32	19,0	0,75	19,0	0,748	3/4”
MU10K-08-10	12	1/2”	08	7/8”-14	38,5	1,52	22,4	0,88	24,0	0,945	15/16”
MU10K-10-10	16	5/8”	10	7/8”-14	39,5	1,55	22,4	0,88	24,0	0,945	15/16”
MU10K-12-12	19	3/4”	12	1.1/16”-14	48,0	1,89	25,4	1,00	27,0	1,063	1.1/16”

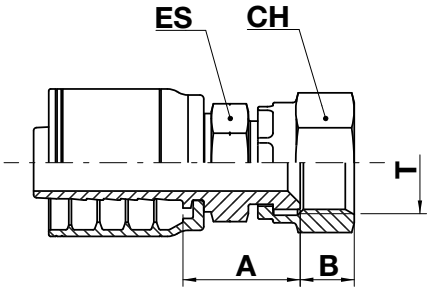
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FU11K

SAE 45° female swivel

NO SKIVE

SAE J512



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FU11K-04-04	6	1/4”	04	7/16”-20	20,5	0,80	8,7	0,34	14,0	0,551	9/16”	15,0	0,591	5/8”
FU11K-04-05	6	1/4”	04	1/2”-20	21,5	0,85	9,5	0,37	14,0	0,551	9/16”	17,0	0,669	11/16”
FU11K-04-06	6	1/4”	04	5/8”-18	24,0	0,94	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11K-06-06	10	3/8”	06	5/8”-18	24,0	0,94	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11K-06-08	10	3/8”	06	3/4”-16	26,5	1,04	10,8	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
FU11K-06-10	10	3/8”	06	7/8”-14	29,3	1,15	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FU11K-08-08	12	1/2”	08	3/4”-16	28,0	1,10	10,8	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
FU11K-08-10	12	1/2”	08	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FU11K-10-10	16	5/8”	10	7/8”-14	29,5	1,16	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FU11K-10-12	16	5/8”	10	1.1/16”-14	30,5	1,20	14,4	0,57	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FU11K-12-12	19	3/4”	12	1.1/16”-14	31,0	1,22	14,4	0,57	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”

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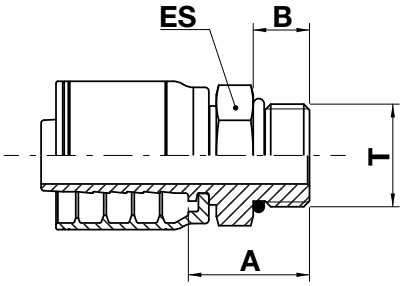
For wire braid hoses

ME10K*

O-ring boss male

NO SKIVE

SAE J1926



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
ME10K-04-04	6	1/4”	04	7/16”-20	22,0	0,87	9,15	0,36	14,0	0,551	9/16”
ME10K-04-05	6	1/4”	04	1/2”-20	23,5	0,93	9,15	0,36	17,0	0,669	11/16”
ME10K-04-06	6	1/4”	04	9/16”-18	24,5	0,96	10,0	0,39	17,0	0,669	11/16”
ME10K-06-06	10	3/8”	06	9/16”-18	24,5	0,96	9, 9	0,39	17,0	0,669	11/16”
ME10K-06-08	10	3/8”	06	3/4”-16	26,5	1,04	11,1	0,44	22,0	0,866	7/8”
ME10K-06-10	10	3/8”	06	7/8”-14	28,5	1,12	12,7	0,50	27,0	1,063	1.1/16”
ME10K-08-08	12	1/2”	08	3/4”-16	27,0	1,06	11,1	0,44	22,0	0,866	7/8”
ME10K-08-10	12	1/2”	08	7/8”-14	29,0	1,14	12,7	0,50	27,0	1,063	1.1/16”
ME10K-08-12	12	1/2”	08	1.1/16”-12	32,0	1,26	15,1	0,59	32,0	1,260	1.1/4”
ME10K-10-08	16	5/8”	10	3/4”-16	27,5	1,08	11,1	0,44	24,0	0,945	15/16”
ME10K-10-10	16	5/8”	10	7/8”-14	29,0	1,14	12,7	0,50	27,0	1,063	1.1/16”
ME10K-10-12	16	5/8”	10	1.1/16”-12	32,0	1,26	15,0	0,59	32,0,	1,260	1.1/4”
ME10K-12-12	19	3/4”	12	1.1/16”-12	32,5	1,28	15,0	0,59	32,0	1,260	1.1/4”
ME10K-12-14	19	3/4”	12	1.3/16”-12	37,5	1,48	15,1	0,59	36,0	1,417	1.7/16”
ME10K-12-16	19	3/4”	12	1.5/16”-12	38,5	1,52	15,1	0,59	36,0	1,417	1.7/16”
ME10K-16-16	25	1”	16	1.5/16”-12	39,1	1,54	15,1	0,59	38,0	1,496	1.1/2”

* Complete with O-ring

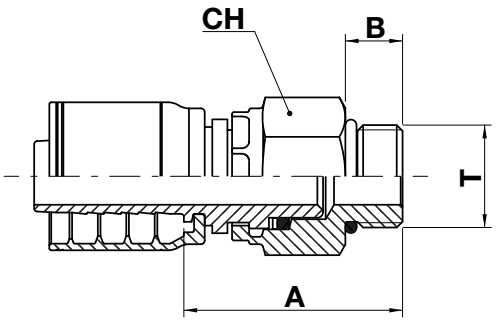
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MV10K MV16K

O-ring boss male swivel

NO SKIVE

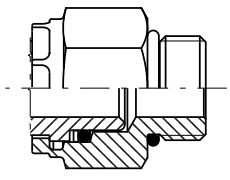
SAE J1926



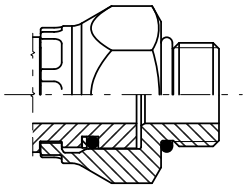
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
MV10K-04-04	6	1/4”	04	7/16”-20	36,5	1,44	9,1	0,36	17,0	0,669	11/16”
MV16K-04-06	6	1/4”	04	9/16”-18	44,5	1,75	9,9	0,39	19,0	0,750	3/4”
MV16K-06-06	10	3/8”	06	9/16”-18	42,5	1,67	9,9	0,39	19,0	0,750	3/4”
MV10K-06-08	10	3/8”	06	3/4”-16	47,5	1,87	11,1	0,44	27,0	1,063	1.1/16”
MV10K-08-08	12	1/2”	08	3/4”-16	48,0	1,89	11,1	0,44	27,0	1,063	1.1/16”
MV10K-08-10	12	1/2”	08	7/8”-14	51,0	2,01	12,7	0,50	27,0	1,063	1.1/16”
MV10K-08-12	12	1/2”	08	1.1/16”-12	57,5	2,26	15,1	0,59	36,0	1,417	1.7/16”
MV10K-10-10	16	5/8”	10	7/8”-14	51,0	2,01	12,7	0,50	27,0	1,063	1.1/16”
MV10K-12-12	19	3/4”	12	1.1/16”-12	57,5	2,26	15,1	0,59	36,0	1,417	1.7/16”
MV10K-16-16	25	1”	16	1.5/16”-12	62,0	2,44	15,1	0,59	38,0	1,496	1.1/2”

Nut type

MV10



MV16



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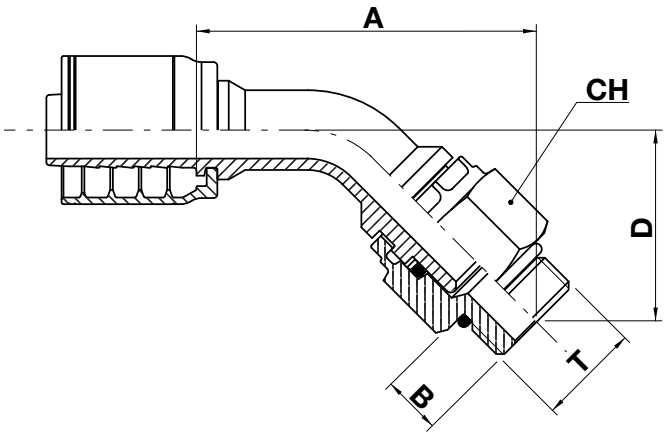
For wire braid hoses

MV40K MV46K

O-ring boss male swivel - 45° elbow

NO SKIVE

SAE J1926

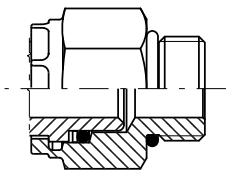


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

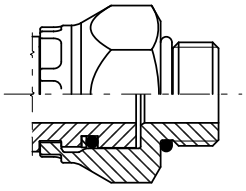
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MV40K-04-04	6	1/4”	04	7/16”-20	58,5	2,30	9,1	0,36	27,5	1,08	17,0	0,67	11/16”
MV46K-04-06	6	1/4”	04	9/16”-18	65,8	2,59	9,9	0,39	35,2	1,38	19,0	0,750	3/4”
MV46K-06-06	10	3/8”	06	9/16”-18	72,5	2,85	9,9	0,39	35,2	1,38	19,0	0,750	3/4”
MV40K-06-08	10	3/8”	06	3/4”-16	73,0	2,87	11,1	0,44	38,5	1,52	27,0	1,06	1.1/16”
MV40K-06-10	10	3/8”	06	7/8”-14	74,0	2,91	12,7	0,50	39,5	1,56	27,0	1,06	1.1/16”
MV40K-08-08	12	1/2”	08	3/4”-16	81,8	3,22	11,1	0,44	40,7	1,60	27,0	1,06	1.1/16”
MV40K-08-10	12	1/2”	08	7/8”-14	83,0	3,27	12,7	0,50	42,0	1,65	27,0	1,06	1.1/16”
MV40K-08-12	12	1/2”	08	1.1/16”-12	103,0	4,06	15,1	0,59	51,7	2,04	36,0	1,42	1.7/16”
MV40K-12-12	19	3/4”	12	1.1/16”-12	117,0	4,61	15,1	0,59	49,0	1,93	36,0	1,42	1.7/16”
MV40K-16-16	25	1”	16	1.5/16”-12	93,4	3,68	15,1	0,59	43,6	1,72	38,0	1,496	1.1/2”

Nut type

MV40



MV46



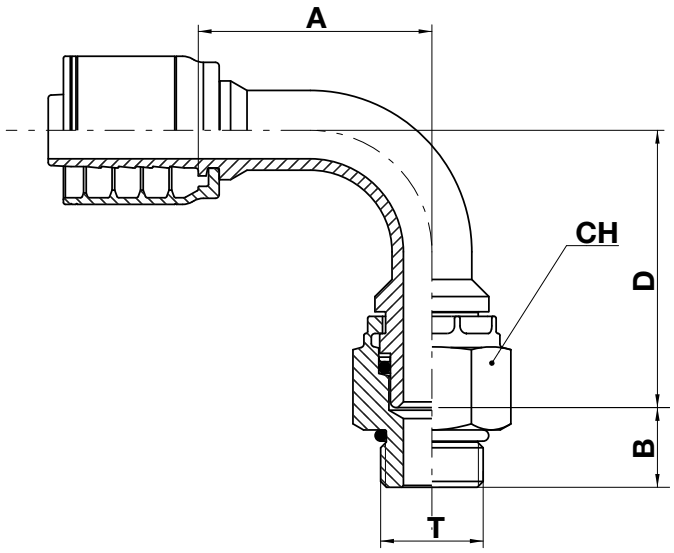
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MV90K MV96K

O-ring boss male swivel - 90° elbow

NO SKIVE

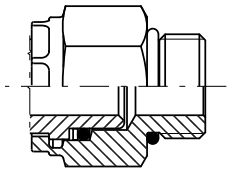
SAE J1926



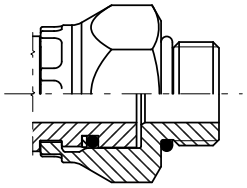
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MV90K-04-04	6	1/4”	04	7/16”-20	28,0	1,10	9,1	0,36	38,5	1,52	17,0	0,669	11/16”
MV96K-04-06	6	1/4”	04	9/16”-18	28,0	1,10	9,9	0,39	48,3	1,90	19,0	0,750	3/4”
MV96K-06-06	10	3/8”	06	9/16”-18	34,5	1,36	9,9	0,39	49,8	1,96	19,0	0,750	3/4”
MV90K-06-08	10	3/8”	06	3/4”-16	31,5	1,24	11,1	0,44	52,0	2,05	27,0	1,063	1.1/16”
MV90K-06-10	10	3/8”	06	7/8”-14	31,5	1,24	12,7	0,50	52,0	2,05	27,0	1,063	1.1/16”
MV90K-08-08	12	1/2”	08	3/4”-16	37,5	1,48	11,1	0,44	57,0	2,24	27,0	1,063	1.1/16”
MV90K-08-10	12	1/2”	08	7/8”-14	37,5	1,48	12,7	0,50	57,0	2,24	27,0	1,063	1.1/16”
MV90K-08-12	12	1/2”	08	1.1/16”-12	46,5	1,83	15,1	0,59	72,0	2,83	36,0	1,417	1.7/16”
MV90K-12-12	19	3/4”	12	1.1/16”-12	61,5	2,42	15,1	0,59	73,0	2,88	36,0	1,417	1.7/16”
MV90K-16-16	25	1”	16	1.5/16”-12	72,0	2,83	15,1	0,59	84,5	3,33	38,0	1,496	1.1/2”

Nut type

MV90



MV96



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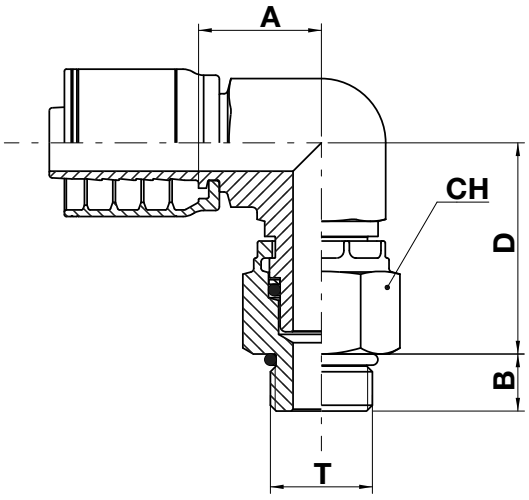
For wire braid hoses

KV91K KV96K

O-ring boss male swivel - 90° compact elbow

NO SKIVE

SAE J1926

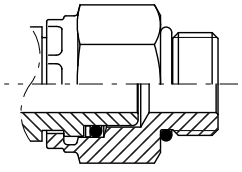


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

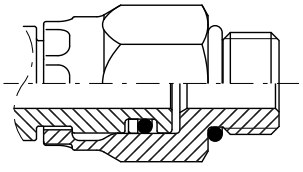
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KV91K-04-04	6	1/4”	04	7/16”-20	18,5	0,73	9,2	0,36	32,8	1,29	17,0	0,669	11/16”
KV96K-04-06	6	1/4”	04	9/16”-18	19,5	0,77	10,0	0,39	39,0	1,54	19,0	0,748	3/4”
KV96K-06-06	10	3/8”	06	9/16”-18	21,5	0,85	10,0	0,39	42,0	1,65	19,0	0,748	3/4”
KV91K-06-08	10	3/8”	06	3/4”-16	25,0	0,98	11,1	0,44	47,4	1,87	27,0	1,063	1.1/16”
KV91K-06-10	10	3/8”	06	7/8”-14	25,0	0,98	12,7	0,50	48,8	1,92	27,0	1,063	1.1/16”
KV91K-08-08	12	1/2”	08	3/4”-16	26,5	1,04	11,1	0,44	47,4	1,87	27,0	1,063	1.1/16”
KV91K-08-10	12	1/2”	08	7/8”-14	26,5	1,04	12,7	0,50	48,8	1,92	27,0	1,063	1.1/16”
KV91K-12-12	19	3/4”	12	1.1/16”-12	32,5	1,28	15,1	0,59	55,9	2,20	36,0	1,417	1.7/16”
KV91K-16-16	25	1”	16	1.5/16”-12	34,0	1,34	15,1	0,59	52,5	2,07	38,0	1,496	1.1/2”

Nut type

KV91



KV96



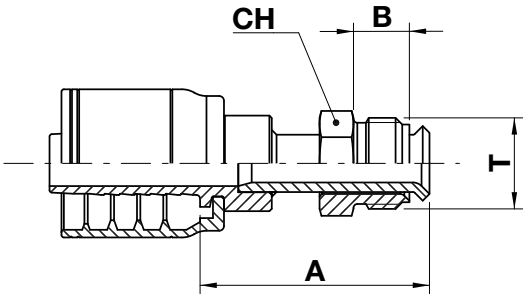
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MZ10K

SAE inverted flare male swivel

NO SKIVE

SAE J512



code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
MZ10K-04-04	6	1/4”	04	7/16”-24	48,0	1,89	9,1	0,36	11,0	0,433	7/16”
MZ10K-04-05	6	1/4”	04	1/2”-20	48,0	1,89	10,2	0,40	16,0	0,630	5/8”
MZ10K-06-05	10	3/8”	06	1/2”-20	48,0	1,89	10,2	0,40	16,0	0,630	5/8”
MZ10K-06-06	10	3/8”	06	5/8”-18	48,0	1,89	10,2	0,40	16,0	0,630	5/8”
MZ10K-08-08	12	1/2”	08	3/4”-18	48,0	1,89	11,7	0,46	19,0	0,748	3/4”

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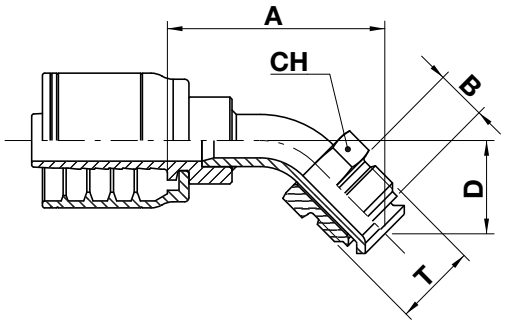
For wire braid hoses

MZ40K

SAE inverted flare male swivel - 45° elbow

NO SKIVE

SAE J512



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MZ40K-04-04	6	1/4”	04	7/16”-24	40,1	1,58	9,1	0,36	14,7	0,58	11,0	0,433	7/16”
MZ40K-04-05	6	1/4”	04	1/2”-20	44,0	1,73	10,2	0,40	18,0	0,71	16,0	0,630	5/8”
MZ40K-06-05	10	3/8”	06	1/2”-20	44,0	1,73	10,2	0,40	18,0	0,71	16,0	0,630	5/8”
MZ40K-06-06	10	3/8”	06	5/8”-18	47,5	1,87	10,2	0,40	19,0	0,75	16,0	0,630	5/8”
MZ40K-08-08	12	1/2”	08	3/4”-18	50,5	1,99	11,7	0,46	21,5	0,85	19,0	0,748	3/4”

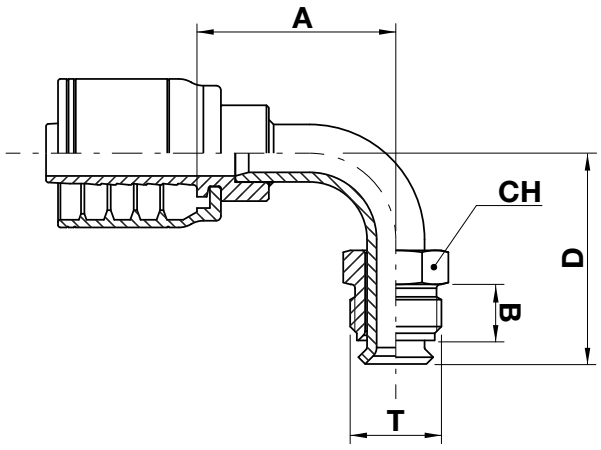
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MZ90K

SAE inverted flare male swivel - 90° elbow

NO SKIVE

SAE J512



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MZ90K-04-04	6	1/4”	04	7/16”-24	30,0	1,18	9,1	0,36	26,0	1,02	11,0	0,433	7/16”
MZ90K-04-05	6	1/4”	04	1/2”-20	31,0	1,22	10,2	0,40	32,0	1,26	16,0	0,630	5/8”
MZ90K-06-05	10	3/8”	06	1/2”-20	31,0	1,22	10,2	0,40	32,0	1,26	16,0	0,630	5/8”
MZ90K-06-06	10	3/8”	06	5/8”-18	36,0	1,42	10,2	0,40	35,0	1,38	16,0	0,630	5/8”
MZ90K-08-08	12	1/2”	08	3/4”-18	41,5	1,63	11,7	0,46	44,0	1,73	19,0	0,748	3/4”

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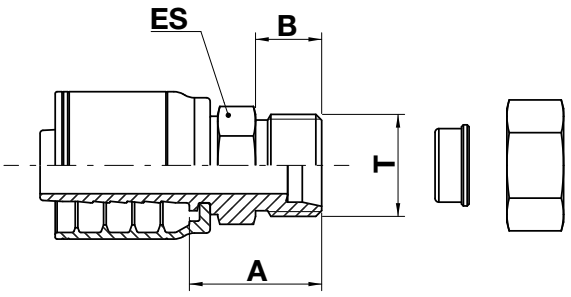
For wire braid hoses

MFA10K

SAE flareless male assembly

NO SKIVE

SAE J514



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

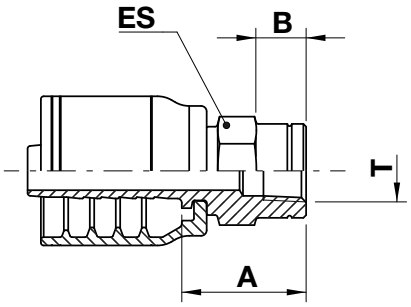
code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MFA10K-04-04	6	1/4”	04	7/16”-20	24,0	0,94	11,5	0,45	14,0	0,551	9/16”
MFA10K-04-05	6	1/4”	04	1/2”-20	25,0	0,98	11,5	0,45	17,0	0,669	11/16”
MFA10K-06-05	10	3/8”	06	1/2”-20	25,0	0,98	11,5	0,45	17,0	0,669	11/16”
MFA10K-06-06	10	3/8”	06	9/16”-18	25,5	1,00	11,9	0,47	17,0	0,669	11/16”
MFA10K-06-08	10	3/8”	06	3/4”-16	27,8	1,09	14,3	0,56	19,0	0,748	3/4”
MFA10K-08-08	12	1/2”	08	3/4”-16	28,5	1,12	14,3	0,56	19,0	0,748	3/4”
MFA10K-08-10	12	1/2”	08	7/8”-14	32,0	1,26	15,9	0,63	24,0	0,945	15/16”
MFA10K-10-10	16	5/8”	10	7/8”-14	32,0	1,26	15,9	0,63	24,0	0,945	15/16”
MFA10K-12-12	19	3/4”	12	1.1/16”-12	35,0	1,38	17,5	0,69	27,0	1,063	1.1/16”
MFA10K-12-16	19	3/4”	12	1.1/16”-12	40,0	1,57	17,5	0,69	36,0	1,417	1.7/16”
MFA10K-16-16	25	1”	16	1.5/16”-12	41,5	1,63	17,5	0,69	36,0	1,417	1.7/16”

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FGR10K

Female grease

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
FGR10K-04-08	6	1/4”	04	1/2”-27	22,5	0,89	7,70	0,30	17,0	0,669	11/16”
FGR10K-06-08	10	3/8”	06	1/2”-27	22,5	0,89	7,70	0,30	17,0	0,669	11/16”

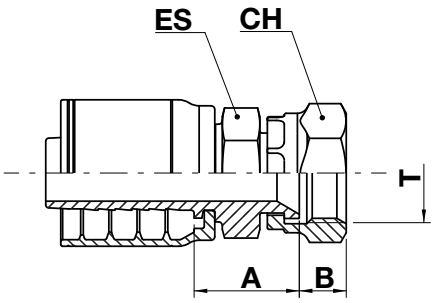
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For wire braid hoses

FT11K

Japanese “T” style termination female swivel 60° cone

NO SKIVE



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

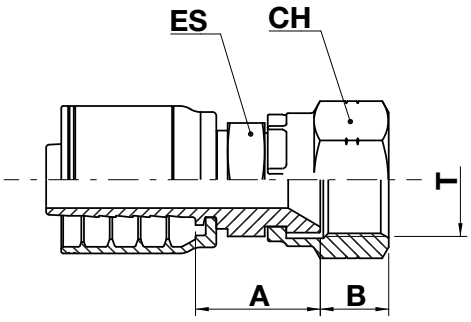
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FT11K-04-04	6	1/4”	04	1/4”-19	21,0	0,83	8,0	0,31	19,0	0,748	3/4”	19,0	0,748	3/4”
FT11K-06-06	10	3/8”	06	3/8” -19	22,0	0,87	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FT11K-08-08	12	1/2”	08	1/2”-14	25,0	0,98	11,0	0,43	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FT11K-12-12	19	3/4”	12	3/4”-14	28,0	1,10	12,5	0,49	30,0	1,181	1.3/16”	32,0	1,260	1.1/4”
FT11K-16-16	25	1”	16	1”-11	33,0	1,30	14,0	0,55	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”

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FK11K

Japanese “KOM” style termination female swivel 60° cone

NO SKIVE



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FK11K-04-12	6	1/4”	04	M12X1,5	23,0	0,91	8,7	0,34	14,0	0,551	9/16”	17,0	0,669	11/16”
FK11K-04-14	6	1/4”	04	M14X1,5	24,0	0,94	10,0	0,39	19,0	0,748	3/4”	19,0	0,748	3/4”
FK11K-06-14	10	3/8”	06	M14X1,5	25,0	0,98	10,0	0,39	19,0	0,748	3/4”	19,0	0,748	3/4”
FK11K-06-16	10	3/8”	06	M16X1,5	23,0	0,91	9,3	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FK11K-06-18	10	3/8”	06	M18X1,5	24,0	0,94	11,5	0,45	19,0	0,748	3/4”	24,0	0,945	15/16”
FK11K-06-20	10	3/8”	06	M20X1,5	25,5	1,00	11,2	0,44	19,0	0,748	3/4”	27,0	1,063	1,1/16”
FK11K-06-22	10	3/8”	06	M22X1,5	25,5	1,00	14,0	0,55	19,0	0,748	3/4”	27,0	1,063	1,1/16”
FK11K-08-22	12	1/2”	08	M22X1,5	27,0	1,06	14,0	0,55	22,0	0,866	7/8”	27,0	1,063	1,1/16”
FK11K-08-24	12	1/2”	08	M24X1,5	28,5	1,12	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1,1/4”
FK11K-10-24	16	5/8”	10	M24X1,5	28,5	1,12	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1,1/4”
FK11K-12-24	19	3/4”	12	M24X1,5	29,9	1,18	15,1	0,59	27,0	1,063	1,1/16”	32,0	1,260	1,1/4”
FK11K-12-30	19	3/4”	12	M30X1,5	33,0	1,30	18,3	0,72	30,0	1,181	1.3/16”	36,0	1,417	1,7/16”
FK11K-12-33	19	3/4”	12	M33X1,5	32,0	1,26	21,3	0,84	32,0	1,260	1.1/4”	41,0	1,614	1,5/8”
FK11K-16-33	25	1”	16	M33X1,5	34,7	1,37	21,3	0,84	32,0	1,260	1.1/4”	41,0	1,614	1,5/8”
FK11K-16-36	25	1”	16	M36X1,5	36,0	1,42	16,0	0,63	41,0	1,614	1.5/8”	46,0	1,811	1,13/16”

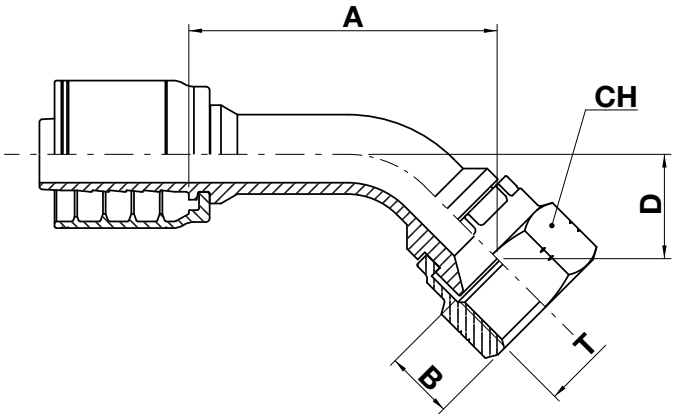
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For wire braid hoses

FK41K

Japanese “KOM” style termination female swivel 60° cone - 45° elbow

NO SKIVE



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

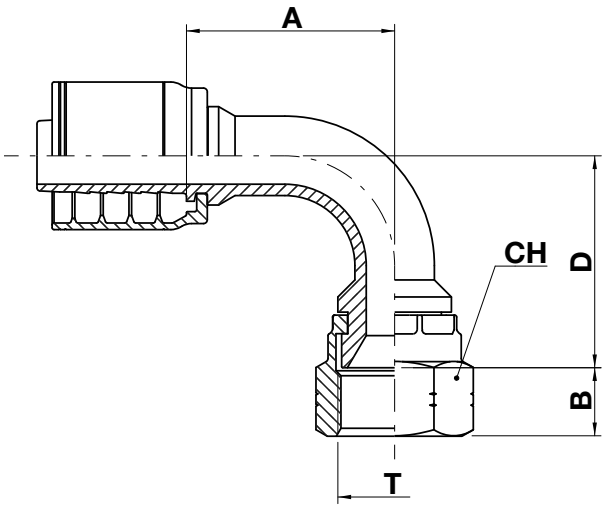
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FK41K-04-14	6	1/4”	04	M14X1,5	42,5	1,67	10,0	0,39	16,1	0,63	19,0	0,748	3/4”
FK41K-06-18	10	3/8”	06	M18X1,5	51,5	2,03	11,5	0,45	19,5	0,77	24,0	0,945	15/16”
FK41K-08-22	12	1/2”	08	M22X1,5	54,0	2,13	14,0	0,55	20,0	0,79	27,0	1,063	1.1/16”
FK41K-10-24	16	5/8”	10	M24X1,5	70,5	2,78	15,1	0,59	27,0	1,06	32,0	1,260	1.1/4”
FK41K-12-30	19	3/4”	12	M30X1,5	81,5	3,21	18,3	0,72	27,6	1,09	36,0	1,417	1.7/16”
FK41K-16-36	25	1”	16	M36X1,5	84,5	3,33	16,0	0,63	32,5	1,28	46,0	1,811	1,13/16”

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FK91K

Japanese “KOM” style termination female swivel 60° cone - 90° elbow

NO SKIVE



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FK91K-04-14	6	1/4”	04	M14X1,5	29,0	1,14	10,0	0,39	31,5	1,24	19,0	0,748	3/4”
FK91K-06-16	10	3/8”	06	M16X1,5	36,0	1,42	9,3	0,37	31,5	1,24	22,0	0,866	7/8”
FK91K-06-18	10	3/8”	06	M18X1,5	35,5	1,40	11,5	0,45	38,0	1,50	24,0	0,945	15/16”
FK91K-08-22	12	1/2”	08	M22X1,5	47,5	1,87	14,0	0,55	43,0	1,69	27,0	1,063	1.1/16”
FK91K-10-24	16	5/8”	10	M24X1,5	55,5	2,19	15,1	0,59	55,0	2,17	32,0	1,260	1,1/4”
FK91K-12-30	19	3/4”	12	M30X1,5	55,0	2,17	18,3	0,72	56,0	2,20	36,0	1,417	1.7/16”
FK91K-16-36	25	1”	16	M36X1,5	74,0	2,91	16,0	0,63	68,0	2,68	46,0	1,811	1,13/16”

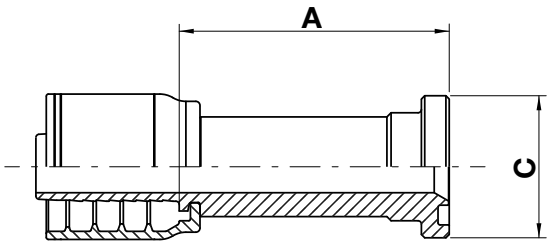
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For wire braid hoses

AK10K

Japanese “KOM” style termination straight flange (for metric O-ring)

NO SKIVE



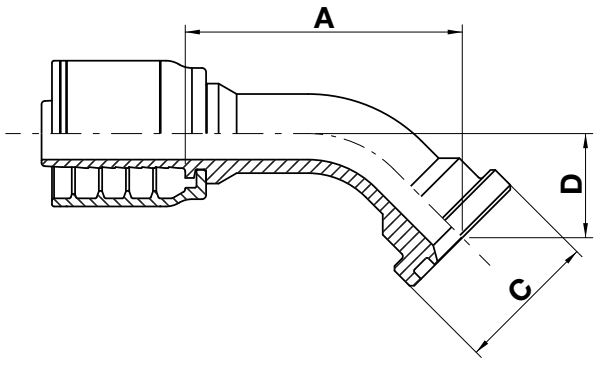
code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AK10K-10-10	16	5/8”	10	5/8”	65,0	2,56	34,2	1,35

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AK40K

Japanese “KOM” style termination - 45° elbow flange (for metric O-ring)

NO SKIVE



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK40K-10-10	16	5/8”	10	5/8”	66,5	2,62	34,2	1,35	25,0	0,98

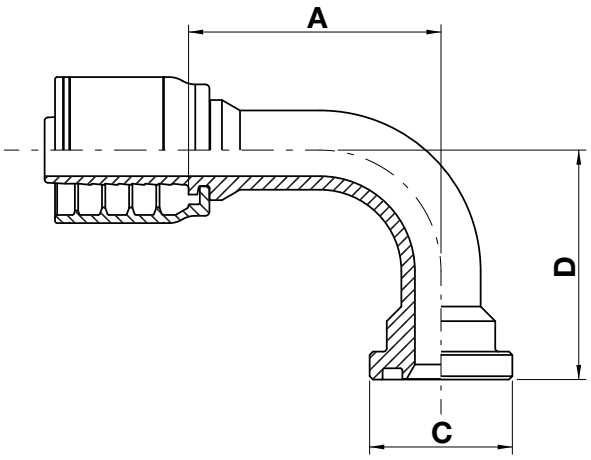
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For wire braid hoses

AK90K

Japanese “KOM” style termination - 90° elbow flange (for metric O-ring)

NO SKIVE



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

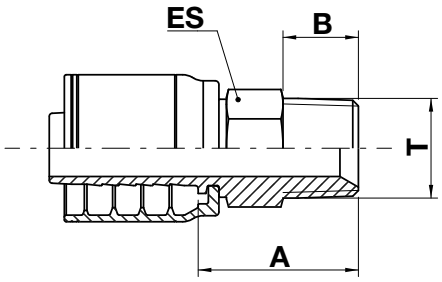
code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK90K-10-10	16	5/8”	10	5/8”	60,5	2,38	34,2	1,35	55,0	2,17

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MT10K

BSPT tapered male 60° cone

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MT10K-04-02	6	1/4”	04	1/8”-28	24,5	0,89	12,0	0,47	12,0	0,472	1/2”
MT10K-04-04	6	1/4”	04	1/4”-19	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MT10K-04-06	6	1/4”	04	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10K-05-06	8	5/16”	05	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10K-06-04	10	3/8”	06	1/4”-19	24,5	0,96	14,0	0,55	14,0	0,551	9/16”
MT10K-06-06	10	3/8”	06	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10K-06-08	10	3/8”	06	1/2”-14	32,0	1,26	18,0	0,71	22,0	0,866	7/8”
MT10K-08-06	12	1/2”	08	3/8”-19	27,5	1,08	15,0	0,59	19,0	0,748	3/4”
MT10K-08-08	12	1/2”	08	1/2”-14	32,5	1,28	18,0	0,71	22,0	0,866	7/8”
MT10K-08-12	12	1/2”	08	3/4”-14	37,0	1,46	20,0	0,79	27,0	1,063	1.1/16”
MT10K-10-10	16	5/8”	10	5/8”-14	36,0	1,42	19,0	0,75	24,0	0,945	15/16”
MT10K-10-12	16	5/8”	10	3/4”-14	42,0	1,65	20,0	0,79	27,0	1,063	1.1/16”
MT10K-12-12	19	3/4”	12	3/4”-14	42,5	1,67	20,0	0,79	27,0	1,063	1.1/16”
MT10K-16-16	25	1”	16	1”-11	47,0	1,85	23,0	0,91	36,0	1,417	1.7/16”

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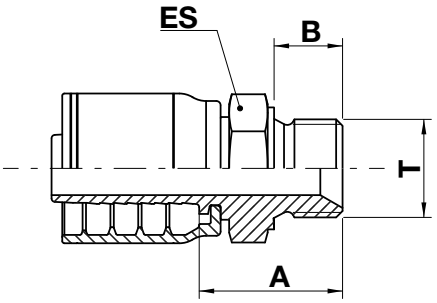
For wire braid hoses

MB10K

BSP male 60° cone

NO SKIVE

ISO 8434-6 / BS 5200



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MB10K-04-02	6	1/4”	04	1/8”-28	22,0	0,87	8,0	0,31	14,0	0,551	9/16”
MB10K-04-04	6	1/4”	04	1/4”-19	26,5	1,04	11,0	0,43	19,0	0,748	3/4”
MB10K-04-06	6	1/4”	04	3/8”-19	28,0	1,10	12,0	0,47	22,0	0,866	7/8”
MB10K-04-08	6	1/4”	04	1/2”-14	35,5	1,40	14,0	0,55	27,0	1,063	1.1/16”
MB10K-05-04	8	5/16”	05	1/4”-19	26,0	1,02	11,0	0,43	19,0	0,748	3/4”
MB10K-05-06	8	5/16”	05	3/8”-19	28,5	1,12	12,0	0,47	22,0	0,866	7/8”
MB10K-05-08	8	5/16”	05	1/2”-14	33,0	1,30	14,0	0,55	27,0	1,063	1.1/16”
MB10K-06-04	10	3/8”	06	1/4”-19	26,5	1,04	11,0	0,43	19,0	0,748	3/4”
MB10K-06-06	10	3/8”	06	3/8”-19	28,5	1,12	12,0	0,47	22,0	0,866	7/8”
MB10K-06-08	10	3/8”	06	1/2”-14	33,5	1,32	14,0	0,55	27,0	1,063	1.1/16”
MB10K-08-06	12	1/2”	08	3/8”-19	29,0	1,14	12,0	0,47	22,0	0,866	7/8”
MB10K-08-08	12	1/2”	08	1/2”-14	34,0	1,34	14,0	0,55	27,0	1,063	1.1/16”
MB10K-08-10	12	1/2”	08	5/8”-14	36,5	1,44	16,0	0,63	30,0	1,181	1.3/16”
MB10K-08-12	12	1/2”	08	3/4”-14	39,0	1,54	16,0	0,63	32,0	1,260	1.1/4”
MB10K-10-08	16	5/8”	10	1/2”-14	33,0	1,30	14,0	0,55	27,0	1,063	1.1/16”
MB10K-10-10	16	5/8”	10	5/8”-14	33,5	1,32	16,0	0,63	30,0	1,181	1.3/16”
MB10K-10-12	16	5/8”	10	3/4”-14	36,0	1,42	16,0	0,63	32,0	1,260	1.1/4”
MB10K-12-08	19	3/4”	12	1/2”-14	34,5	1,36	14,0	0,55	27,0	1,063	1.1/16”
MB10K-12-12	19	3/4”	12	3/4”-14	36,5	1,44	16,0	0,63	32,0	1,260	1.1/4”

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← MB10K

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MB10K-12-16	19	3/4”	12	1”-11	40,5	1,59	19,0	0,75	41,0	1,614	1.5/8”
MB10K-16-16	25	1”	16	1”-11	42,0	1,65	19,0	0,75	41,0	1,614	1.5/8”
MB10K-16-20	25	1”	16	1.1/4”-11	47,0	1,85	20,0	0,79	50,0	1,969	2”

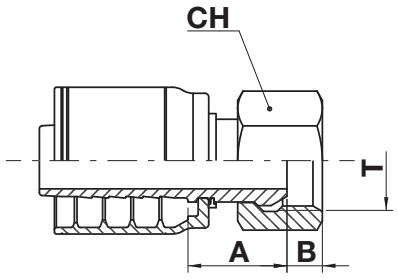
Intertraco (Italia) S.p.A. - All rights reserved

FB13K FB11K FB12K

BSP female swivel 60° cone

NO SKIVE

ISO 8434-6 / BS 5200



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

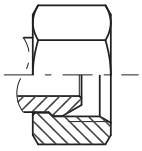
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FB11K-04-02	6	1/4”	04	1/8”-28	15,0	0,59	5,5	0,22	14,0	0,551	9/16”
FB13K-04-04	6	1/4”	04	1/4”-19	17,5	0,69	4,2	0,17	19,0	0,748	3/4”
FB13K-04-06	6	1/4”	04	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB11K-05-04	8	5/16”	05	1/4”-19	17,8	0,70	4,2	0,17	19,0	0,748	3/4”
FB13K-05-06	8	5/16”	05	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB11K-05-08	8	5/16”	05	1/2”-14	21,5	0,85	7,0	0,28	27,0	1,063	1.1/16”
FB11K-06-04	10	3/8”	06	1/4”-19	17,5	0,69	4,2	0,17	19,0	0,748	3/4”
FB13K-06-06	10	3/8”	06	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB13K-06-08	10	3/8”	06	1/2”-14	20,5	0,81	6,5	0,26	27,0	1,063	1.1/16”
FB11K-08-06	12	1/2”	08	3/8”-19	19,0	0,75	6,0	0,24	22,0	0,866	7/8”
FB13K-08-08	12	1/2”	08	1/2”-14	21,0	0,83	6,5	0,26	27,0	1,063	1.1/16”
FB11K-08-10	12	1/2”	08	5/8”-14	18,0	0,71	9,5	0,37	27,0	1,063	1.1/16”
FB11K-08-12	12	1/2”	08	3/4”-14	23,0	0,91	8,7	0,34	32,0	1,260	1.1/4”
FB11K-10-10	16	5/8”	10	5/8”-14	18,0	0,71	9,5	0,37	27,0	1,063	1.1/16”
FB11K-10-12	16	5/8”	10	3/4”-14	21,3	0,84	8,7	0,34	32,0	1,260	1.1/4”
FB11K-12-12	19	3/4”	12	3/4”-14	21,8	0,86	8,7	0,34	32,0	1,260	1.1/4”
FB12K-12-16	19	3/4”	12	1”-11	29,0	1,14	10,5	0,41	38,0	1,496	1.1/2”
FB12K-16-16	25	1”	16	1”-11	30,5	1,20	10,5	0,41	38,0	1,496	1.1/2”
FB12K-16-20	25	1”	16	1.1/4”-11	37,0	1,46	10,0	0,39	50,0	1,969	2”

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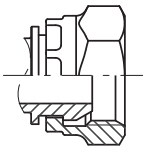
← **FB13K** FB11K FB12K

Nut type

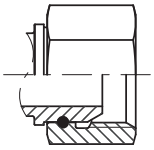
FB13



FB11



FB12



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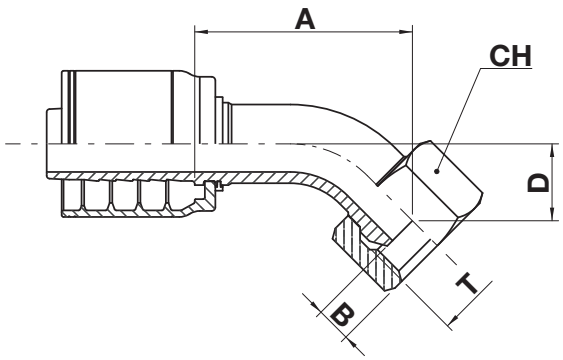
For wire braid hoses

FB43K FB41K FB42K

BSP female swivel 60° cone - 45° elbow

NO SKIVE

ISO 8434-6 / BS 5200

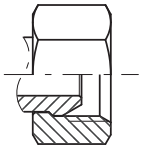


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

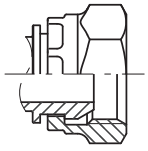
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB43K-04-04	6	1/4”	04	1/4”-19	32,5	1,28	4,2	0,17	13,0	0,51	19,0	0,748	3/4”
FB43K-04-06	6	1/4”	04	3/8”-19	34,2	1,34	6,0	0,24	14,4	0,57	22,0	0,866	7/8”
FB41K-05-06	8	5/16”	05	3/8”-19	42,5	1,67	6,0	0,24	19,0	0,75	22,0	0,866	7/8”
FB43K-05-06	8	5/16”	05	3/8”-19	38,0	1,49	6,0	0,24	15,0	0,59	22,0	0,866	7/8”
FB43K-06-06	10	3/8”	06	3/8”-19	37,6	1,48	6,0	0,24	14,6	0,58	22,0	0,866	7/8”
FB43K-06-08	10	3/8”	06	1/2”-14	38,6	1,52	6,5	0,26	15,8	0,62	27,0	1,063	1.1/16”
FB43K-08-08	12	1/2”	08	1/2”-14	48,0	1,89	6,5	0,26	18,0	0,71	27,0	1,063	1.1/16”
FB41K-10-10	16	5/8”	10	5/8”-14	60,5	2,38	9,5	0,37	23,3	0,92	30,0	1,181	1.3/16”
FB41K-10-12	16	5/8”	10	3/4”-14	64,0	2,52	8,7	0,34	26,9	1,06	32,0	1,260	1.1/4”
FB41K-12-12	19	3/4”	12	3/4”-14	67,4	2,66	8,7	0,34	26,9	1,06	32,0	1,260	1.1/4”
FB42K-16-16	25	1”	16	1”-11	85,0	3,35	10,5	0,41	35,2	1,39	38,0	1,496	1.1/2”

Nut type

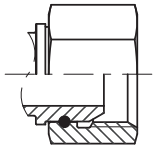
FB43



FB41



FB42



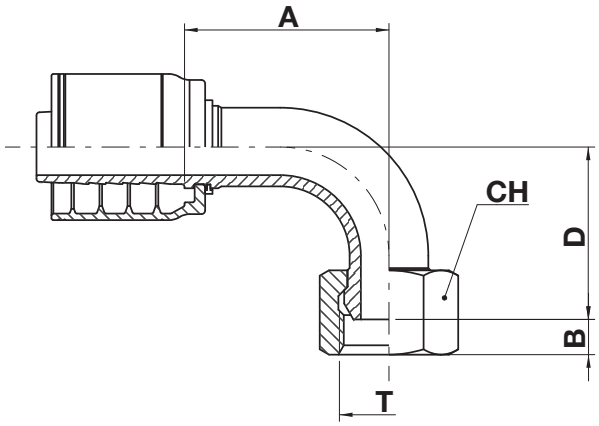
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FB93K FB91K FB92K

BSP female swivel 60° cone - 90° elbow

NO SKIVE

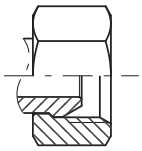
ISO 8434-6 / BS 5200



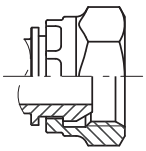
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB93K-04-04	6	1/4”	04	1/4”-19	27,6	1,09	4,2	0,17	27,5	1,08	19,0	0,748	3/4”
FB93K-04-06	6	1/4”	04	3/8”-19	28,0	1,10	6,0	0,24	29,5	1,16	22,0	0,866	7/8”
FB93K-05-06	8	5/16”	05	3/8”-19	32,5	1,28	6,0	0,24	30,0	1,18	22,0	0,866	7/8”
FB93K-06-06	10	3/8”	06	3/8”-19	31,5	1,24	6,0	0,24	29,5	1,16	22,0	0,866	7/8”
FB93K-06-08	10	3/8”	06	1/2”-14	30,3	1,19	6,5	0,26	31,2	1,23	27,0	1,063	1.1/16”
FB93K-08-08	12	1/2”	08	1/2”-14	37,2	1,47	6,5	0,26	36,0	1,42	27,0	1,063	1.1/16”
FB91K-08-10	12	1/2”	08	5/8”-14	45,0	1,77	9,5	0,37	42,3	1,67	30,0	1,181	1.3/16”
FB91K-10-10	16	5/8”	10	5/8”-14	54,0	2,13	9,5	0,37	50,0	1,97	30,0	1,181	1.3/16”
FB91K-10-12	16	5/8”	10	3/4”-14	54,0	2,13	8,7	0,34	55,0	2,17	32,0	1,260	1.1/4”
FB91K-12-12	19	3/4”	12	3/4”-14	55,5	2,19	8,7	0,34	55,0	2,17	32,0	1,260	1.1/4”
FB92K-12-16	19	3/4”	12	1”-11	60,5	2,38	10,5	0,41	66,0	2,60	38,0	1,496	1.1/2”
FB92K-16-16	25	1”	16	1”-11	72,0	2,83	10,5	0,41	73,0	2,89	38,0	1,496	1.1/2”

Nut type

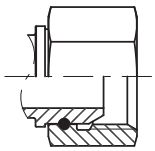
FB93



FB91



FB92



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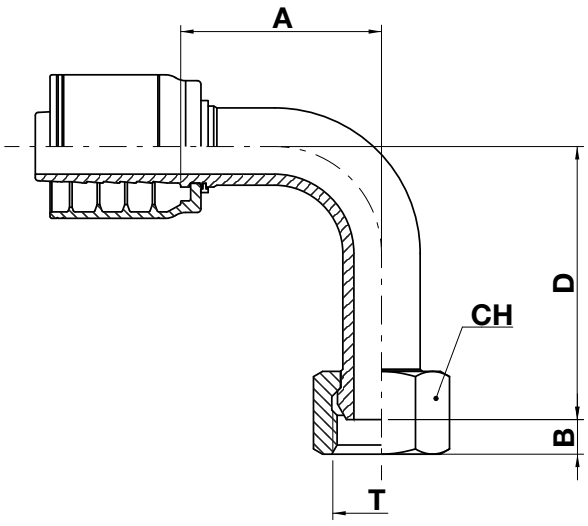
For wire braid hoses

FB93K-L

BSP female swivel 60° cone - 90° elbow (long drop)

NO SKIVE

ISO 8434-6 / BS 5200



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB93K-04-04-61	6	1/4”	04	1/4”-19	27,6	1,09	4,2	0,17	61,0	2,40	19,0	0,748	3/4”
FB93K-06-06-63	10	3/8”	06	3/8”-19	31,5	1,24	6,0	0,24	63,0	2,48	22,0	0,866	7/8”
FB93K-08-08-71	12	1/2”	08	1/2”-14	37,2	1,47	6,5	0,26	71,0	2,80	27,0	1,063	1.1/16”

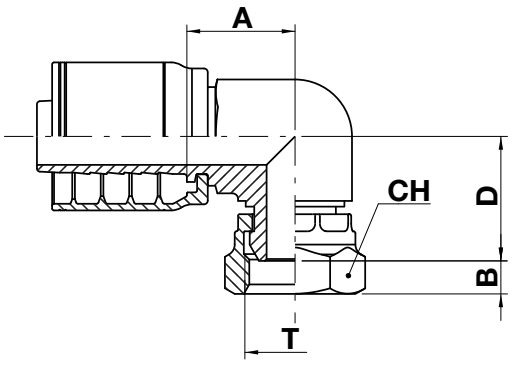
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KM91K

BSP female swivel 60° cone - 90° compact elbow

NO SKIVE

ISO 8434-6 / BS 5200



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KM91K-04-04	6	1/4”	04	1/4”-19	18,5	0,73	4,2	0,17	22,6	0,89	19,0	0,748	3/4”
KM91K-06-06	10	3/8”	06	3/8”-19	21,5	0,85	5,7	0,22	25,5	1,00	22,0	0,866	7/8”
KM91K-08-08	12	1/2”	08	1/2”-14	25,0	0,98	6,9	0,27	28,5	1,12	27,0	1,063	1.1/16”
KM91K-10-10	16	5/8”	10	5/8”-14	27,0	1,06	9,0	0,35	27,5	1,08	30,0	1,181	1.3/16”
KM91K-12-12	19	3/4”	12	3/4”-14	28,5	1,12	8,7	0,34	32,8	1,29	32,0	1,260	1.1/4”
KM91K-16-16	25	1”	16	1”-11	34,0	1,34	10,5	0,41	37,5	1,48	41,0	1,614	1.5/8”

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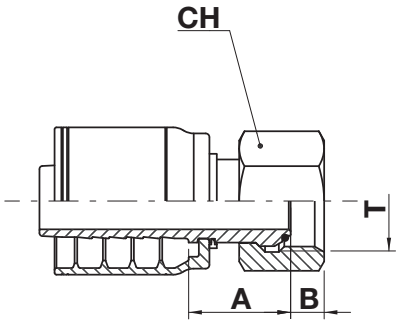
For wire braid hoses

FO13K FO12K

BSP O-ring female swivel 60° cone

NO SKIVE

ISO 8434-6 / BS 5200

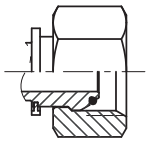


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

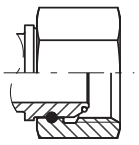
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FO13K-04-04	6	1/4”	04	1/4”-19	17,5	0,69	4,2	0,17	19,0	0,748	3/4”
FO13K-06-06	10	3/8”	06	3/8”-19	19,0	0,75	6,1	0,24	22,0	0,866	7/8”
FO13K-08-08	12	1/2”	08	1/2”-14	21,0	0,83	6,5	0,26	27,0	1,063	1.1/16”
FO12K-10-10	16	5/8”	10	5/8”-14	21,5	0,85	9,5	0,37	30,0	1,181	1.3/16”
FO12K-12-12	19	3/4”	12	3/4”-14	24,0	0,94	8,7	0,34	32,0	1,260	1.1/4”
FO12K-16-16	25	1”	16	1”-11	30,5	1,20	10,5	0,41	38,0	1,496	1.1/2”

Nut type

FO13



FO12



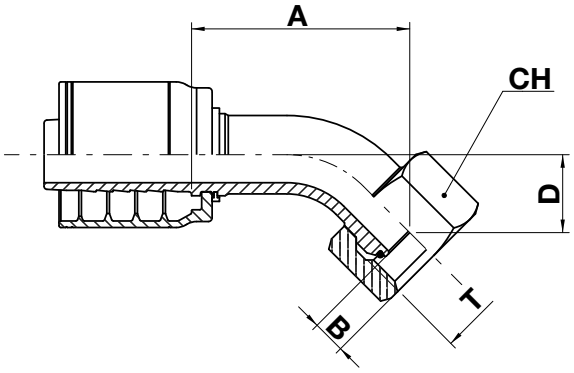
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FO43K FO42K

BSP O-ring female swivel 60° cone - 45° elbow

NO SKIVE

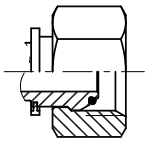
ISO 8434-6 / BS 5200



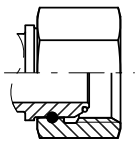
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FO43K-04-04	6	1/4”	04	1/4”-19	32,5	1,28	4,2	0,17	13,0	0,51	19,0	0,748	3/4”
FO43K-06-06	10	3/8”	06	3/8”-19	37,7	1,48	6,1	0,24	15,0	0,59	22,0	0,866	7/8”
FO43K-08-08	12	1/2”	08	1/2”-14	46,0	1,81	6,5	0,26	18,0	0,71	27,0	1,063	1.1/16”
FO42K-10-10	16	5/8”	10	5/8”-14	63,0	2,48	9,5	0,37	26,0	1,02	30,0	1,181	1.3/16”
FO42K-12-12	19	3/4”	12	3/4”-14	68,9	2,71	8,7	0,34	28,3	1,11	32,0	1,260	1.1/4”
FO42K-16-16	25	1”	16	1”-11	83,6	3,29	10,5	0,41	33,8	1,33	38,0	1,496	1.1/2”

Nut type

FO43



FO42



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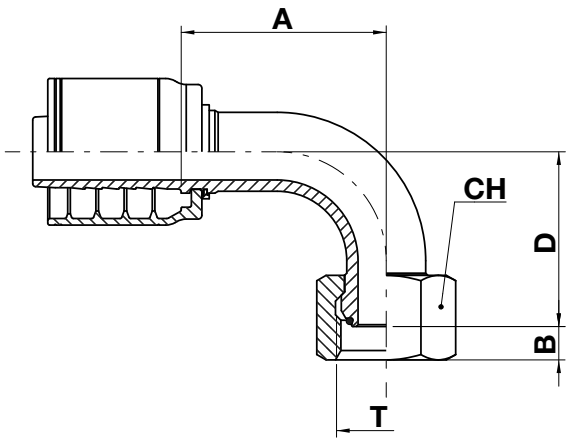
For wire braid hoses

FO93K FO92K

BSP O-ring female swivel 60° cone - 90° elbow

NO SKIVE

ISO 8434-6 / BS 5200

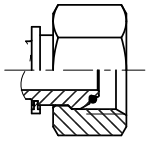


FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

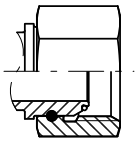
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FO93K-04-04	6	1/4”	04	1/4”-19	27,5	1,08	4,2	0,17	27,5	1,08	19,0	0,748	3/4”
FO93K-06-06	10	3/8”	06	3/8”-19	31,5	1,24	6,1	0,24	30,0	1,18	22,0	0,866	7/8”
FO93K-08-08	12	1/2”	08	1/2”-14	37,3	1,47	6,5	0,26	36,0	1,42	27,0	1,063	1.1/16”
FO92K-10-10	16	5/8”	10	5/8”-14	54,0	2,13	9,5	0,37	53,5	2,10	30,0	1,181	1.3/16”
FO92K-12-12	19	3/4”	12	3/4”-14	58,0	2,28	8,7	0,34	57,0	2,24	32,0	1,260	1.1/4”
FO92K-16-16	25	1”	16	1”-11	72,0	2,83	10,5	0,41	71,0	2,80	38,0	1,496	1.1/2”

Nut type

FO93



FO92

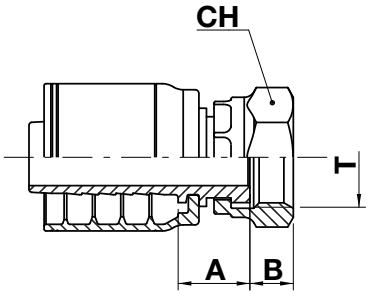


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FP11K FP13K FP12K

BSP flat face female swivel

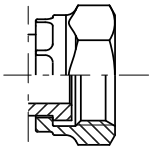
NO SKIVE



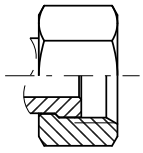
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FP13K-04-04	06	1/4”	04	1/4”-19	21,5	0,85	6,5	0,26	19,0	0,748	3/4”
FP11K-06-06	10	3/8”	06	3/8”-19	15,5	0,61	9,0	0,35	22,0	0,866	7/8”
FP11K-06-08	10	3/8”	06	1/2”-14	16,0	0,63	10,5	0,41	27,0	1,063	1.1/16”
FP11K-08-08	12	1/2”	08	1/2”-14	16,5	0,65	10,5	0,41	27,0	1,063	1.1/16”
FP11K-08-12	12	1/2”	08	3/4”-14	21,5	0,85	11,5	0,45	32,0	1,260	1.1/4”
FP11K-12-12	19	3/4”	12	3/4”-14	19,0	0,75	11,5	0,45	32,0	1,260	1.1/4”
FP12K-16-16	25	1”	16	1”-11	26,0	1,02	13,0	0,51	38,0	1,496	1.1/2”

Nut type

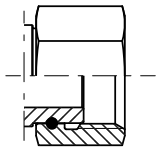
FP11



FP13



FP12



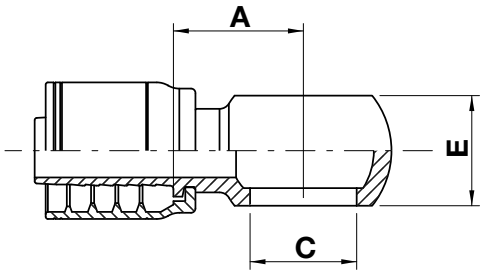
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For wire braid hoses

BB10K

BSP banjo

NO SKIVE



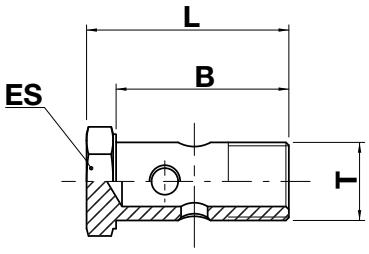
code	ø hose			flange	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
BB10K-04-02	6	1/4”	04	1/8”-28	22,0	0,87	10,2	0,40	10,0	0,39
BB10K-04-04	6	1/4”	04	1/4”-19	22,0	0,87	13,3	0,52	14,0	0,55
BB10K-04-06	6	1/4”	04	3/8”-19	23,0	0,91	16,8	0,66	18,0	0,71
BB10K-05-06	8	5/16”	05	3/8”-19	23,0	0,91	16,8	0,66	18,0	0,71
BB10K-06-06	10	3/8”	06	3/8”-19	24,0	0,94	16,8	0,66	18,0	0,71
BB10K-06-08	10	3/8”	06	1/2”-14	26,0	1,02	21,0	0,83	22,0	0,87
BB10K-08-08	12	1/2”	08	1/2”-14	27,0	1,06	21,0	0,83	22,0	0,87
BB10K-10-10	16	5/8”	10	5/8”-14	28,0	1,10	23,1	0,91	24,0	0,94
BB10K-12-12	19	3/4”	12	3/4”-14	36,5	1,44	26,5	1,04	29,0	1,14
BB10K-16-16	25	1”	16	1”-11	44,5	1,75	33,5	1,32	37,0	1,46

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VB10B

BSP banjo bolt

NO SKIVE



code	T	B		L		ES		
		mm	in	mm	in	mm	in	in
VB10B-02	1/8”-28	19,0	0,75	24,0	0,94	14,0	0,551	9/16”
VB10B-04	1/4”-19	25,0	0,98	32,0	1,26	19,0	0,748	3/4”
VB10B-06	3/8”-19	31,0	1,22	38,0	1,50	22,0	0,866	7/8”
VB10B-08	1/2”-14	38,0	1,50	46,0	1,81	27,0	1,063	1.1/16”
VB10B-10	5/8”-14	41,0	1,61	49,0	1,93	30,0	1,181	1.3/16”
VB10B-12	3/4”-14	46,0	1,81	56,0	2,20	32,0	1,260	1.1/4”
VB10B-16	1”-11	58,0	2,28	69,0	2,72	41,0	1,614	1.5/8”

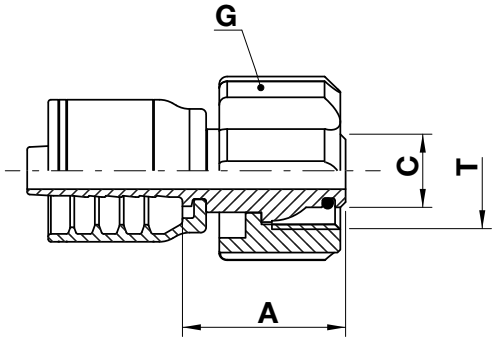
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For wire braid hoses

KW15K

Jet wash female swivel “K” type

NO SKIVE



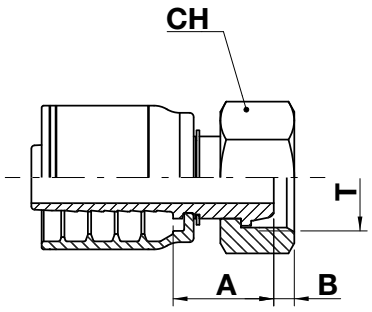
code	ø hose			T	A		C		G	
	dn	inch	size		mm	in	mm	in	mm	in
KW15K-04-22	6	1/4”	04	M22X1,5	31,0	1,22	14,0	0,55	36,0	1,42
KW15K-05-22	8	5/16”	05	M22X1,5	31,0	1,22	14,0	0,55	36,0	1,42
KW15K-06-22	10	3/8”	06	M22X1,5	31,0	1,22	14,0	0,55	36,0	1,42

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FQ13K

Metric female swivel (multiseal 24°/60° cone seat)

NO SKIVE



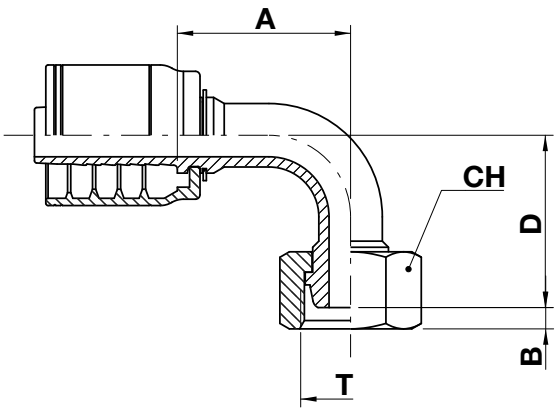
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FQ13K-04-14	6	1/4”	04	M14X1,5	20,5	0,81	3,5	0,14	17,0	0,669	11/16”
FQ13K-04-16	6	1/4”	04	M16X1.5	22,0	0,87	5,0	0,20	19,0	0,748	3/4”
FQ13K-05-16	8	5/16”	05	M16X1,5	21,0	0,83	5,0	0,20	19,0	0,748	3/4”
FQ13K-05-18	8	5/16”	05	M18X1,5	21,0	0,83	5,0	0,20	22,0	0,866	7/8”
FQ13K-06-16	10	3/8”	06	M16X1,5	21,6	0,85	5,0	0,20	22,0	0,866	7/8”
FQ13K-06-18	10	3/8”	06	M18X1,5	21,0	0,83	5,0	0,20	22,0	0,866	7/8”
FQ13K-08-22	12	1/2”	08	M22X1,5	24,5	0,96	5,0	0,20	27,0	1,063	1.1/16”
FQ13K-10-26	16	5/8”	10	M26X1,5	24,5	0,96	6,0	0,24	32,0	1,260	1.1/4”

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FQ93K

Metric female swivel - 90° elbow (multiseal 24°/60° cone seat)

NO SKIVE



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FQ93K-04-14	6	1/4”	04	M14X1,5	28,0	1,10	3,5	0,14	29,5	1,16	17,0	0,669	11/16”
FQ93K-04-16	6	1/4”	04	M16X1,5	29,5	2,03	5,0	0,20	30,0	1,18	19,0	0,748	3/4”
FQ93K-05-16	8	5/16”	05	M16X1,5	31,5	1,24	5,0	0,20	33,0	1,30	19,0	0,748	3/4”
FQ93K-06-16	10	3/8”	06	M16X1,5	35,5	1,39	5,0	0,20	33,5	1,31	22,0	0,866	7/8”
FQ93K-06-18	10	3/8”	06	M18X1,5	30,5	1,20	5,0	0,20	33,5	1,32	22,0	0,866	7/8”
FQ93K-08-22	12	1/2”	08	M22X1,5	38,2	1,50	5,0	0,20	38,0	1,50	27,0	1,063	1.1/16”
FQ93K-10-26	16	5/8”	10	M26X1,5	54,0	2,13	6,0	0,24	52,5	2,07	32,0	1,260	1.1/4”

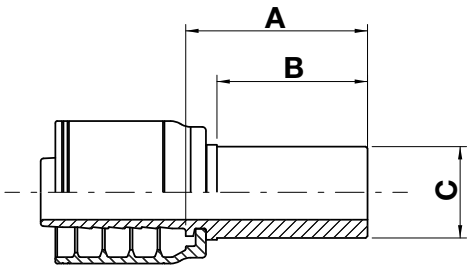
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SM10K

Metric standpipe

NO SKIVE

ISO 8434-1 / (DIN 2353)



code	ø hose			C		A		B	
	dn	inch	size	mm	in	mm	in	mm	in
SM10K-04-06	6	1/4”	04	6,0	0,24	28,0	1,10	22,0	0,87
SM10K-04-08	6	1/4”	04	8,0	0,31	29,5	1,16	23,0	0,91
SM10K-04-10	6	1/4”	04	10,0	0,39	33,0	1,30	27,0	1,06
SM10K-05-10	8	5/16”	05	10,0	0,39	30,5	1,20	24,0	0,94
SM10K-06-10	10	3/8”	06	10,0	0,39	30,5	1,20	24,0	0,94
SM10K-06-12	10	3/8”	06	12,0	0,47	30,5	1,20	24,0	0,94
SM10K-08-15	12	1/2”	08	15,0	0,59	32,0	1,26	25,0	0,98
SM10K-08-16	12	1/2”	08	16,0	0,63	37,0	1,46	30,0	1,18
SM10K-10-18	16	5/8”	10	18,0	0,71	34,0	1,34	27,0	1,06
SM10K-10-20	16	5/8”	10	20,0	0,79	43,0	1,69	36,0	1,42
SM10K-12-18	19	3/4”	12	18,0	0,71	34,5	1,36	27,0	1,06
SM10K-12-20	19	3/4”	12	20,0	0,79	44,5	1,75	36,0	1,42
SM10K-12-22	19	3/4”	12	22,0	0,87	36,5	1,44	28,0	1,10
SM10K-12-25	19	3/4”	12	25,0	0,98	49,5	1,95	41,0	1,61
SM10K-16-25	25	1”	16	25,0	0,98	51,0	2,01	41,0	1,61
SM10K-16-28	25	1”	16	28,0	1,10	40,0	1,57	30,0	1,18
SM10K-16-30	25	1”	16	30,0	1,18	54,0	2,13	44,0	1,73

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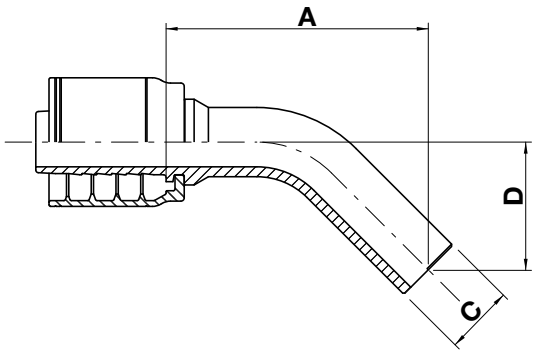
For wire braid hoses

SM40K

Metric standpipe - 45° elbow

NO SKIVE

ISO 8434-1 / (DIN 2353)



code	ø hose			C		A		D	
	dn	inch	size	mm	in	mm	in	mm	in
SM40K-04-06	6	1/4”	04	6,0	0,24	45,0	1,77	22,0	0,87
SM40K-04-08	6	1/4”	04	8,0	0,31	41,5	1,63	22,6	0,89
SM40K-04-10	6	1/4”	04	10,0	0,39	58,0	2,28	25,8	1,02
SM40K-05-10	8	5/16”	05	10,0	0,39	57,0	2,24	24,5	0,96
SM40K-05-12	8	5/16”	05	12,0	0,47	56,0	2,20	29,0	1,14
SM40K-06-10	10	3/8”	06	10,0	0,39	45,5	1,79	22,0	0,87
SM40K-06-12	10	3/8”	06	12,0	0,47	56,0	2,20	29,0	1,14
SM40K-08-15	12	1/2”	08	15,0	0,59	60,5	2,38	28,0	1,10
SM40K-08-16	12	1/2”	08	16,0	0,63	53,0	2,09	34,0	1,34
SM40K-10-18	16	5/8”	10	18,0	0,71	72,0	2,83	35,4	1,39
SM40K-10-20	16	5/8”	10	20,0	0,79	87,9	3,46	46,0	1,81
SM40K-12-22	19	3/4”	12	22,0	0,87	77,4	3,05	37,7	1,48
SM40K-12-25	19	3/4”	12	25,0	0,98	88,5	3,48	47,0	1,85
SM40K-16-28	25	1”	16	28,0	1,10	95,0	3,74	45,5	1,79
SM40K-16-30	25	1”	16	30,0	1,18	96,0	3,78	47,2	1,86

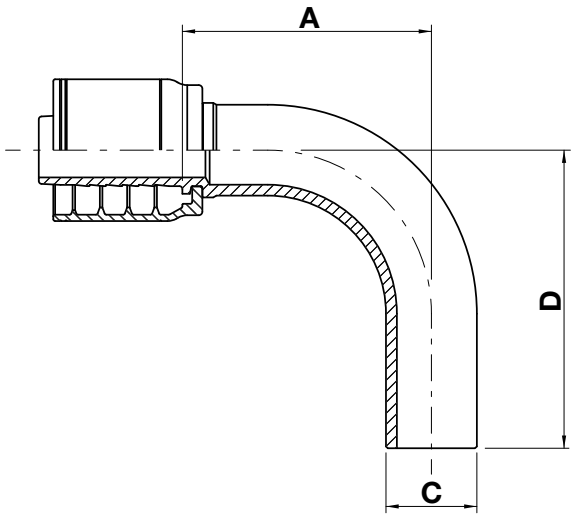
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SM90K

Metric standpipe - 90° elbow

NO SKIVE

ISO 8434-1 / (DIN 2353)



code	ø hose			C		A		D	
	dn	inch	size	mm	in	mm	in	mm	in
SM90K-04-06	6	1/4”	04	6,0	0,24	26,0	1,02	34,0	1,34
SM90K-04-08	6	1/4”	04	8,0	0,31	26,0	1,02	39,0	1,54
SM90K-04-10	6	1/4”	04	10,0	0,39	45,5	1,77	36,0	1,42
SM90K-05-10	8	5/16”	05	10,0	0,39	36,0	1,42	39,0	1,54
SM90K-06-10	10	3/8”	06	10,0	0,39	37,0	1,46	50,0	1,97
SM90K-06-12	10	3/8”	06	12,0	0,47	32,5	1,28	47,0	1,85
SM90K-08-15	12	1/2”	08	15,0	0,59	43,5	1,71	54,0	2,13
SM90K-08-16	12	1/2”	08	16,0	0,63	42,5	1,67	53,5	2,11
SM90K-10-18	16	5/8”	10	18,0	0,71	58,5	2,30	63,0	2,48
SM90K-10-20	16	5/8”	10	20,0	0,79	59,5	2,34	68,0	2,68
SM90K-12-20	19	3/4”	12	20,0	0,79	55,5	2,19	77,0	3,03
SM90K-12-22	19	3/4”	12	22,0	0,87	53,0	2,09	70,5	2,78
SM90K-12-25	19	3/4”	12	25,0	0,98	68,5	2,70	82,0	3,23
SM90K-16-25	25	1”	16	25,0	0,98	68,5	2,70	89,0	3,50
SM90K-16-28	25	1”	16	28,0	1,10	68,0	2,68	89,0	3,50

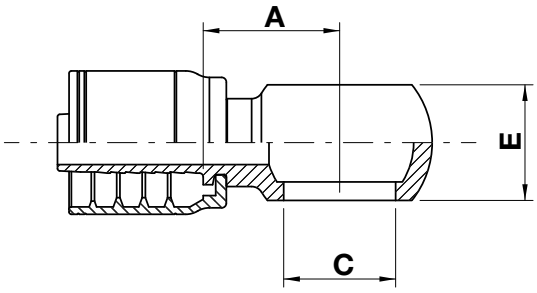
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For wire braid hoses

BM10K

Metric banjo

NO SKIVE



code	ø hose			T	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
BM10K-04-10	6	1/4”	04	M10X1	22,0	0,87	10,2	0,40	10,0	0,39
BM10K-04-12	6	1/4”	04	M12X1,5	21,0	0,83	12,2	0,48	12,0	0,47
BM10K-04-14	6	1/4”	04	M14X1,5	21,0	0,83	14,2	0,56	14,0	0,55
BM10K-04-16	6	1/4”	04	M16X1,5	23,0	0,91	16,2	0,63	18,0	0,71
BM10K-05-12	8	5/16”	05	M12X1,5	21,0	0,83	12,2	0,47	12,0	0,47
BM10K-05-14	8	5/16”	05	M14X1,5	23,2	0,91	14,2	0,56	14,0	0,55
BM10K-05-16	8	5/16”	05	M16X1,5	23,0	0,91	16,2	0,64	18,0	0,71
BM10K-06-14	10	3/8”	06	M14X1,5	24,5	0,96	14,2	0,56	14,0	0,55
BM10K-06-16	10	3/8”	06	M16X1,5	24,0	0,94	16,2	0,64	18,0	0,71
BM10K-06-18	10	3/8”	06	M18X1,5	27,5	1,08	18,2	0,72	20,0	0,79
BM10K-06-22	10	3/8”	06	M22X1,5	26,5	1,04	22,2	0,87	22,0	0,87
BM10K-08-16	12	1/2”	08	M16X1,5	24,5	0,96	16,2	0,63	18,0	0,71
BM10K-08-18	12	1/2”	08	M18X1,5	28,1	1,11	18,2	0,72	20,0	0,79
BM10K-08-22	12	1/2”	08	M22X1,5	27,0	1,06	22,2	0,87	22,0	0,87
BM10K-08-24	12	1/2”	08	M24X1,5	29,5	1,16	24,2	0,94	25,0	0,98
BM10K-10-22	16	5/8”	10	M22X1,5	28,0	1,10	22,2	0,87	22,0	0,87
BM10K-12-26	19	3/4”	12	M26X1,5	36,5	1,44	26,2	1,03	29,0	1,14
BM10K-16-30	25	1”	16	M30X1,5	44,5	1,75	30,2	1,19	37,0	1,46

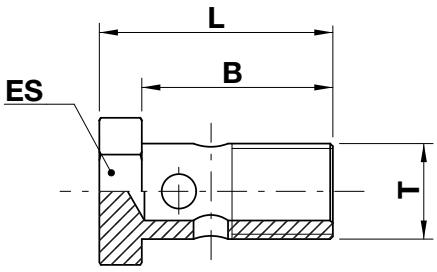
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VM10B

Metric banjo bolt

NO SKIVE

DIN 7643



code	T	B		L		ES		
		mm	in	mm	in	mm	in	in
VM10B-08	M8X1	16	0,63	21,0	0,83	12,0	0,472	1/2”
VM10B-10	M10X1	19	0,75	24,0	0,94	14,0	0,551	9/16”
VM10B-12	M12X1,5	23	0,91	28,0	1,10	17,0	0,669	11/16”
VM10B-14	M14X1,5	25	0,98	32,0	1,26	19,0	0,748	3/4”
VM10B-16	M16X1,5	31	1,22	37,0	1,46	22,0	0,866	7/8”
VM10B-18	M18X1,5	36	1,42	44,0	1,73	24,0	0,945	15/16”
VM10B-22	M22X1,5	38	1,50	46,0	1,81	27,0	1,063	1.1/16”
VM10B-24	M24X1,5	41	1,61	49,0	1,93	30,0	1,181	1.3/16”
VM10B-26	M26X1,5	46	1,81	56,0	2,20	32,0	1,260	1.1/4”
VM10B-30	M30X1,5	58	2,28	69,0	2,72	38,0	1,496	1.1/2”

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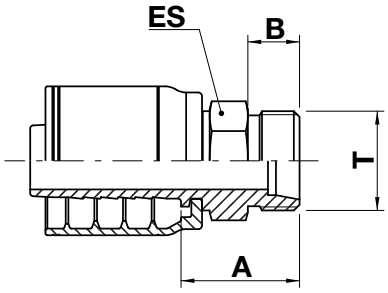
For wire braid hoses

ML10K

Metric light male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
ML10K-04-12	6	1/4”	04	M12X1,5	L6	22,5	0,89	10,0	0,39	14,0	0,551	9/16”
ML10K-04-14	6	1/4”	04	M14X1,5	L8	22,5	0,89	10,0	0,39	14,0	0,551	9/16”
ML10K-04-16	6	1/4”	04	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10K-05-16	8	5/16”	05	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10K-05-18	8	5/16”	05	M18X1,5	L12	25,0	0,98	11,0	0,43	19,0	0,748	3/4”
ML10K-06-16	10	3/8”	06	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10K-06-18	10	3/8”	06	M18X1,5	L12	25,0	0,98	11,0	0,43	19,0	0,748	3/4”
ML10K-06-22	10	3/8”	06	M22X1,5	L15	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
ML10K-08-18	12	1/2”	08	M18X1,5	L12	25,5	1,00	11,0	0,43	19,0	0,748	3/4”
ML10K-08-22	12	1/2”	08	M22X1,5	L15	26,5	1,04	12,0	0,47	22,0	0,866	7/8”
ML10K-08-26	12	1/2”	08	M26X1,5	L18	29,0	1,14	12,0	0,47	27,0	1,063	1.1/16”
ML10K-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	12,0	0,47	27,0	1,063	1.1/16”
ML10K-12-26	19	3/4”	12	M26X1,5	L18	29,5	1,16	12,0	0,47	27,0	1,063	1.1/16”
ML10K-12-30	19	3/4”	12	M30X2	L22	31,5	1,24	14,0	0,55	30,0	1,181	1.3/16”
ML10K-16-36	25	1”	16	M36X2	L28	34,0	1,34	14,0	0,55	36,0	1,417	1.7/16”

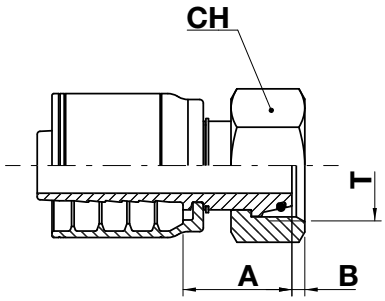
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FL13K FL11K FL12K

Metric light female swivel (24° cone seat)

NO SKIVE

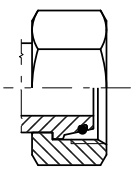
ISO 8434-1 / DIN 3865



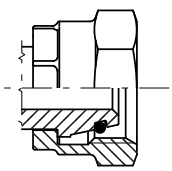
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FL11K-04-12	6	1/4”	04	M12X1,5	L6	20,9	0,82	2,6	0,10	16,0	0,630	-
FL13K-04-14	6	1/4”	04	M14X1,5	L8	25,0	0,98	1,5	0,06	17,0	0,669	11/16”
FL13K-04-16	6	1/4”	04	M16X1,5	L10	27,5	1,08	1,5	0,06	19,0	0,748	3/4”
FL13K-04-18	6	1/4”	04	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL13K-05-16	8	5/16”	05	M16X1,5	L10	27,5	1,08	1,5	0,06	19,0	0,748	3/4”
FL13K-05-18	8	5/16”	05	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL12K-06-16	10	3/8”	06	M16X1,5	L10	23,0	0,91	3,5	0,14	19,0	0,748	3/4”
FL13K-06-18	10	3/8”	06	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL13K-06-22	10	3/8”	06	M22X1,5	L15	28,5	1,12	2,5	0,10	27,0	1,063	1.1/16”
FL13K-08-22	12	1/2”	08	M22X1,5	L15	28,5	1,12	2,5	0,10	27,0	1,063	1.1/16”
FL13K-08-26	12	1/2”	08	M26X1,5	L18	30,0	1,18	2,0	0,08	32,0	1,260	1.1/4”
FL13K-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	2,0	0,08	32,0	1,260	1.1/4”
FL13K-12-30	19	3/4”	12	M30X2	L22	29,5	1,16	3,5	0,14	36,0	1,417	1.7/16”
FL13K-16-36	25	1”	16	M36X2	L28	32,0	1,26	3,5	0,14	41,0	1,614	1.5/8”

Nut type

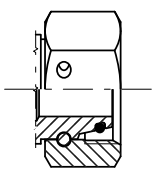
FL13



FL11



FL12



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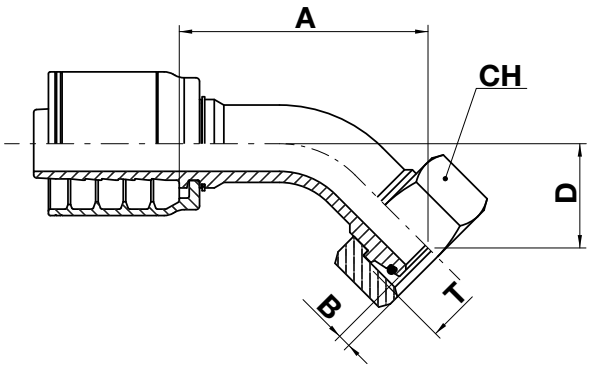
For wire braid hoses

FL43K FL41K FL42K

Metric light female swivel - 45° elbow (24° cone seat)

NO SKIVE

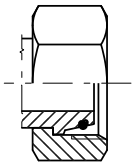
ISO 8434-1 / DIN 3865



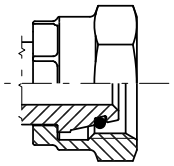
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL41K-04-12	6	1/4”	04	M12X1,5	L6	39,0	1,54	2,6	0,10	14,8	0,58	16,0	0,630	-
FL43K-04-14	6	1/4”	04	M14X1,5	L8	35,2	1,39	1,5	0,06	15,5	0,61	17,0	0,669	11/16”
FL43K-04-16	6	1/4”	04	M16X1,5	L10	36,3	1,43	1,5	0,06	16,6	0,65	19,0	0,748	3/4”
FL43K-04-18	6	1/4”	04	M18X1,5	L12	42,5	1,67	1,5	0,06	18,0	0,71	22,0	0,866	7/8”
FL43K-05-16	8	5/16”	05	M16X1,5	L10	39,0	1,54	1,5	0,06	17,1	0,67	19,0	0,748	3/4”
FL42K-06-16	10	3/8”	06	M16X1,5	L10	44,6	1,76	3,5	0,14	21,7	0,86	19,0	0,748	3/4”
FL43K-06-18	10	3/8”	06	M18X1,5	L12	42,6	1,68	1,5	0,06	19,2	0,76	22,0	0,866	7/8”
FL43K-06-22	10	3/8”	06	M22X1,5	L15	45,0	1,77	2,5	0,10	22,1	0,87	27,0	1,063	1.1/16”
FL43K-08-22	12	1/2”	08	M22X1,5	L15	48,2	1,90	2,5	0,10	20,8	0,82	27,0	1,063	1.1/16”
FL43K-08-26	12	1/2”	08	M26X1,5	L18	69,0	2,72	2,0	0,08	27,2	1,07	32,0	1,260	1,1/4”
FL43K-10-26	16	5/8”	10	M26X1,5	L18	62,5	2,46	2,0	0,08	25,5	1,00	32,0	1,260	1.1/4”
FL43K-12-30	19	3/4”	12	M30X2	L22	67,5	2,66	3,5	0,14	28,3	1,11	36,0	1,417	1.7/16”
FL43K-16-36	25	1”	16	M36X2	L28	85,0	3,35	3,5	0,14	33,1	1,30	41,0	1,614	1.5/8”

Nut type

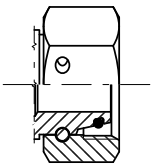
FL43



FL41



FL42



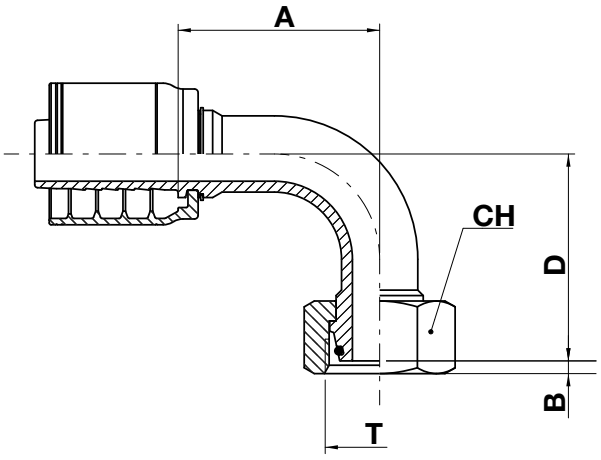
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FL93K FL91K FL92K

Metric light female swivel - 90° elbow (24° cone seat)

NO SKIVE

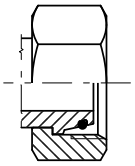
ISO 8434-1 / DIN 3865



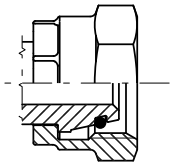
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL91K-04-12	6	1/4”	04	M12X1,5	L6	30,7	1,21	2,6	0,10	30,0	1,18	16,0	0,630	-
FL93K-04-14	6	1/4”	04	M14X1,5	L8	28,0	1,10	1,5	0,06	31,0	1,22	17,0	0,669	11/16”
FL93K-04-16	6	1/4”	04	M16X1,5	L10	28,2	1,11	1,5	0,06	32,5	1,28	19,0	0,748	3/4”
FL93K-04-18	6	1/4”	04	M18X1,5	L12	29,5	1,16	1,5	0,06	34,5	1,35	22,0	0,866	7/8”
FL93K-05-16	8	5/16”	05	M16X1,5	L10	30,5	1,20	1,5	0,06	33,0	1,30	19,0	0,748	3/4”
FL93K-05-18	8	5/16”	05	M18X1,5	L12	31,5	1,24	1,5	0,06	36,0	1,42	22,0	0,866	7/8”
FL92K-06-16	10	3/8”	06	M16X1,5	L10	34,0	1,34	3,5	0,14	39,5	1,56	19,0	0,748	3/4”
FL93K-06-18	10	3/8”	06	M18X1,5	L12	30,5	1,20	1,5	0,06	36,0	1,42	22,0	0,866	7/8”
FL93K-06-22	10	3/8”	06	M22X1,5	L15	31,5	1,24	2,5	0,10	40,0	1,57	27,0	1,063	1.1/16”
FL93K-08-22	12	1/2”	08	M22X1,5	L15	38,2	1,50	2,5	0,10	40,0	1,57	27,0	1,063	1.1/16”
FL93K-08-26	12	1/2”	08	M26X1,5	L18	39,0	1,54	2,0	0,08	49,0	1,93	32,0	1,260	1,1/4”
FL93K-10-26	16	5/8”	10	M26X1,5	L18	54,0	2,13	2,0	0,08	53,0	2,09	32,0	1,260	1.1/4”
FL93K-12-30	19	3/4”	12	M30X2	L22	55,5	2,19	3,5	0,14	57,0	2,24	36,0	1,417	1.7/16”
FL93K-16-36	25	1”	16	M36X2	L28	74,0	2,91	3,5	0,14	69,0	2,72	41,0	1,614	1.5/8”

Nut type

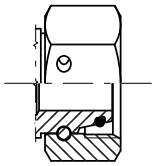
FL93



FL91



FL92



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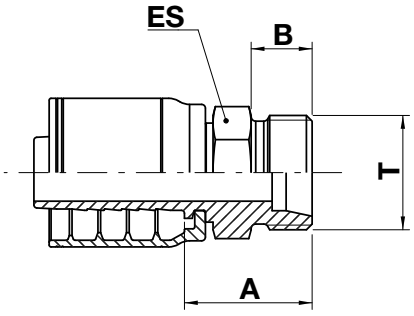
For wire braid hoses

MS10K

Metric heavy male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
MS10K-04-14	6	1/4”	04	M14X1,5	S6	24,5	0,96	12,0	0,47	14,0	0,551	9/16”
MS10K-04-16	6	1/4”	04	M16X1,5	S8	26,0	1,02	12,0	0,47	17,0	0,669	11/16”
MS10K-04-18	6	1/4”	04	M18X1,5	S10	26,0	1,02	12,0	0,47	19,0	0,748	3/4”
MS10K-04-20	6	1/4”	04	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10K-05-18	8	5/16”	05	M18X1,5	S10	26,0	1,02	12,0	0,47	19,0	0,748	3/4”
MS10K-05-20	8	5/16”	05	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10K-06-18	10	3/8”	06	M18X1,5	S10	26,0	1,02	12,0	0,47	19,0	0,748	3/4”
MS10K-06-20	10	3/8”	06	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10K-06-22	10	3/8”	06	M22X1,5	S14	28,0	1,10	14,0	0,55	22,0	0,866	7/8”
MS10K-06-24	10	3/8”	06	M24X1,5	S16	28,0	1,10	14,0	0,55	24,0	0,945	15/16”
MS10K-08-24	12	1/2”	08	M24X1,5	S16	28,5	1,12	14,0	0,55	24,0	0,945	15/16”
MS10K-10-30	16	5/8”	10	M30X2	S20	33,0	1,30	16,0	0,63	30,0	1,181	1.3/16”
MS10K-12-30	19	3/4”	12	M30X2	S20	33,5	1,32	16,0	0,63	30,0	1,181	1.3/16”
MS10K-12-36	19	3/4”	12	M36X2	S25	36,5	1,44	18,0	0,71	36,0	1,417	1.7/16”
MS10K-16-36	25	1”	16	M36X2	S25	38,0	1,50	18,0	0,71	36,0	1,417	1.7/16”
MS10K-16-42	25	1”	16	M42X2	S30	41,0	1,61	20,0	0,79	46,0	1,811	1.13/16”

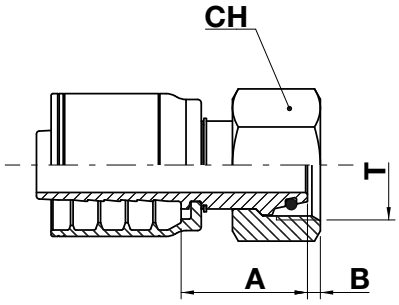
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FS13K FS12K

Metric heavy female swivel (24° cone seat)

NO SKIVE

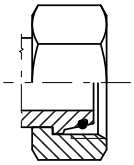
ISO 8434-1 / DIN 3865



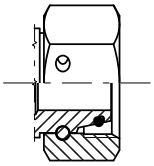
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FS13K-04-14	6	1/4”	04	M14X1,5	S6	22,0	0,87	2,5	0,10	17,0	0,669	11/16”
FS13K-04-16	6	1/4”	04	M16X1,5	S8	26,5	1,04	2,5	0,10	19,0	0,748	3/4”
FS13K-04-18	6	1/4”	04	M18X1,5	S10	33,5	1,32	2,0	0,08	22,0	0,866	7/8”
FS13K-05-20	8	5/16”	05	M20X1,5	S12	26,5	1,04	2,0	0,08	24,0	0,945	15/16”
FS12K-06-18	10	3/8”	06	M18X1,5	S10	24,0	0,94	2,0	0,08	22,0	0,866	7/8”
FS13K-06-18	10	3/8”	06	M18X1.5	S10	24,0	0,94	2,0	0,08	22,0	0,866	7/8”
FS13K-06-20	10	3/8”	06	M20X1,5	S12	26,5	1,04	2,0	0,08	24,0	0,945	15/16”
FS13K-06-22	10	3/8”	06	M22X1,5	S14	29,5	1,16	4,0	0,16	27,0	1,063	1.1/16”
FS13K-08-24	12	1/2”	08	M24X1,5	S16	33,0	1,30	3,0	0,12	30,0	1,181	1.3/16”
FS13K-10-30	16	5/8”	10	M30X2	S20	34,0	1,34	3,5	0,14	36,0	1,417	1.7/16”
FS13K-12-30	19	3/4”	12	M30X2	S20	34,5	1,36	3,5	0,14	36,0	1,417	1.7/16”
FS13K-12-36	19	3/4”	12	M36X2	S25	39,5	1,56	3,0	0,12	46,0	1,811	1.13/16”
FS13K-16-36	25	1”	16	M36X2	S25	42,0	1,65	3,0	0,12	46,0	1,811	1.13/16”
FS13K-16-42	25	1”	16	M42X2	S30	43,0	1,69	6,0	0,24	50,0	1,969	2”

Nut type

FS13



FS12



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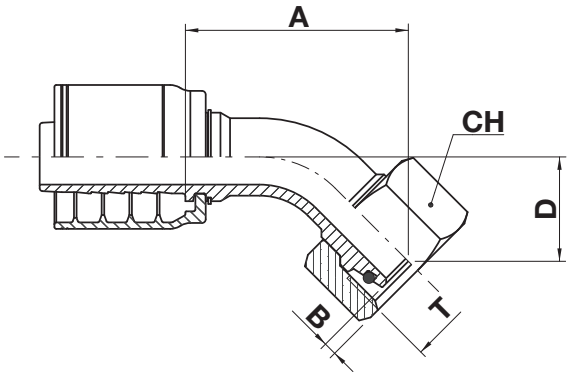
For wire braid hoses

FS43K

Metric heavy female swivel - 45° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS43K-04-14	6	1/4”	04	M14X1,5	S6	35,6	1,40	2,5	0,10	16,0	0,63	17,0	0,669	11/16”
FS43K-04-16	6	1/4”	04	M16X1,5	S8	36,3	1,43	2,5	0,10	16,6	0,65	19,0	0,748	3/4”
FS43K-04-18	6	1/4”	04	M18X1,5	S10	37,7	1,48	2,0	0,08	18,0	0,71	22,0	0,866	7/8”
FS43K-05-20	8	5/16”	05	M20X1,5	S12	41,0	1,61	2,0	0,08	19,2	0,76	24,0	0,945	15/16”
FS43K-06-20	10	3/8”	06	M20X1,5	S12	42,0	1,65	2,0	0,08	19,2	0,76	24,0	0,945	15/16”
FS43K-06-22	10	3/8”	06	M22X1,5	S14	45,0	1,77	4,0	0,16	22,0	0,87	27,0	1,063	1.1/16”
FS43K-08-24	12	1/2”	08	M24X1,5	S16	50,0	1,97	3,0	0,12	22,6	0,89	30,0	1,181	1.3/16”
FS43K-10-30	16	5/8”	10	M30X2	S20	64,0	2,52	3,5	0,14	26,9	1,06	36,0	1,417	1.7/16”
FS43K-12-30	19	3/4”	12	M30X2	S20	67,5	2,66	3,5	0,14	28,3	1,11	36,0	1,417	1.7/16”
FS43K-12-36	19	3/4”	12	M36X2	S25	68,9	2,71	3,0	0,12	30,4	1,20	46,0	1,811	1.13/16”
FS43K-16-36	25	1”	16	M36X2	S25	87,0	3,43	3,0	0,12	34,8	1,37	46,0	1,811	1.13/16”
FS43K-16-42	25	1”	16	M42X2	S30	89,0	3,50	6,0	0,24	37,3	1,47	50,0	1,969	2”

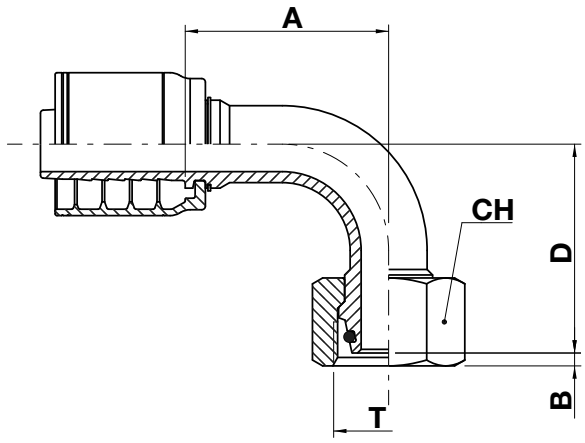
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FS93K

Metric heavy female swivel - 90° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS93K-04-14	6	1/4”	04	M14X1,5	S6	28,0	1,10	2,5	0,10	31,8	1,25	17,0	0,669	11/16”
FS93K-04-16	6	1/4”	04	M16X1,5	S8	28,2	1,11	2,5	0,10	32,5	1,28	19,0	0,748	3/4”
FS93K-04-18	6	1/4”	04	M18X1,5	S10	28,2	1,11	2,0	0,08	34,5	1,36	22,0	0,866	7/8”
FS93K-05-20	8	5/16”	05	M20X1,5	S12	30,5	1,20	2,0	0,08	36,0	1,42	24,0	0,945	15/16”
FS93K-06-18	10	3/8”	06	M18X1.5	S10	30,5	1,20	2,0	0,08	36,0	1,42	22,0	0,866	7/8”
FS93K-06-20	10	3/8”	06	M20X1,5	S12	30,5	1,20	2,0	0,08	36,0	1,42	24,0	0,945	15/16”
FS93K-06-22	10	3/8”	06	M22X1,5	S14	31,5	1,24	4,0	0,16	41,0	1,61	27,0	1,063	1.1/16”
FS93K-08-24	12	1/2”	08	M24X1,5	S16	38,2	1,50	3,0	0,12	42,5	1,67	30,0	1,181	1.3/16”
FS93K-10-30	16	5/8”	10	M30X2	S20	54,0	2,13	3,5	0,14	55,0	2,17	36,0	1,417	1.7/16”
FS93K-12-30	19	3/4”	12	M30X2	S20	55,5	2,19	3,5	0,14	57,0	2,24	36,0	1,417	1.7/16”
FS93K-12-36	19	3/4”	12	M36X2	S25	55,5	2,19	3,0	0,12	60,0	2,36	46,0	1,811	1.13/16”
FS93K-16-36	25	1”	16	M36X2	S25	74,0	2,91	3,0	0,12	75,0	2,95	46,0	1,811	1.13/16”
FS93K-16-42	25	1”	16	M42X2	S30	74,0	2,91	6,0	0,24	75,0	2,95	50,0	1,969	2”

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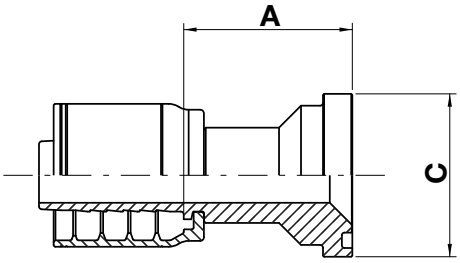
For wire braid hoses

AX10K

SAE 3000 code 61 straight flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AX10K-08-08	12	1/2”	08	1/2”	38,0	1,50	30,2	1,19
AX10K-08-12	12	1/2”	08	3/4”	39,0	1,54	38,1	1,50
AX10K-10-12	16	5/8”	10	3/4”	39,0	1,54	38,1	1,50
AX10K-12-12	19	3/4”	12	3/4”	39,5	1,56	38,1	1,50
AX10K-12-16	19	3/4”	12	1”	46,0	1,81	44,5	1,75
AX10K-16-16	25	1”	16	1”	47,6	1,87	44,5	1,75
AX10K-16-20	25	1”	16	1.1/4”	48,5	1,91	50,0	2,00

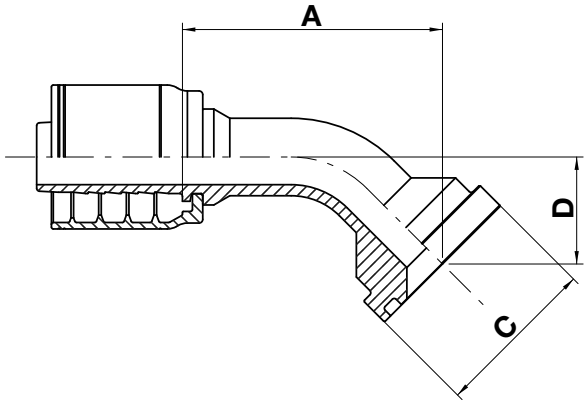
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AX40K

SAE 3000 code 61 - 45° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX40K-08-08	12	1/2”	08	1/2”	55,2	2,17	30,2	1,19	21,9	0,86
AX40K-08-12	12	1/2”	08	3/4”	60,1	2,37	38,1	1,50	24,3	0,96
AX40K-10-12	16	5/8”	10	3/4”	66,0	2,60	38,1	1,50	26,9	1,06
AX40K-12-12	19	3/4”	12	3/4”	68,5	2,70	38,1	1,50	27,9	1,10
AX40K-12-16	19	3/4”	12	1”	70,5	2,77	44,5	1,75	29,0	1,14
AX40K-16-16	25	1”	16	1”	74,4	2,93	44,5	1,75	27,0	1,06
AX40K-16-20	25	1”	16	1.1/4”	76,2	3,00	50,8	2,00	29,0	1,14

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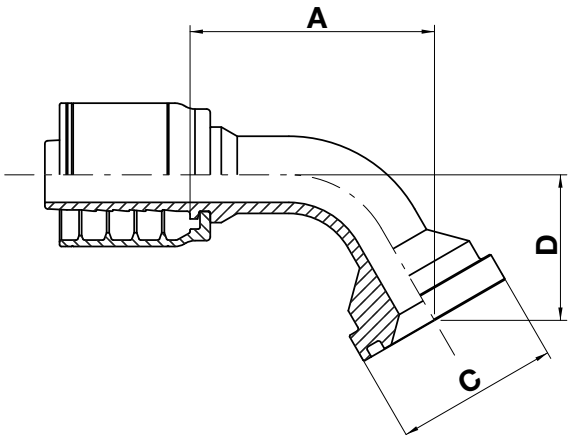
For wire braid hoses

AX60K

SAE 3000 code 61 - 60° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTING
NPTF-NPSM
JIC
ORFS
SAE
GREASE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
STAPLE LOCK

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX60K-12-12	19	3/4”	12	3/4”	69,3	2,73	38,1	1,50	38,3	1,51
AX60K-12-16	19	3/4”	12	1”	66,5	2,62	44,5	1,75	39,6	1,56
AX60K-16-16	25	1”	16	1”	78,7	3,10	44,5	1,75	40,0	1,58
AX60K-16-20	25	1”	16	1.1/4”	84,0	3,31	50,8	2,00	40,0	1,57

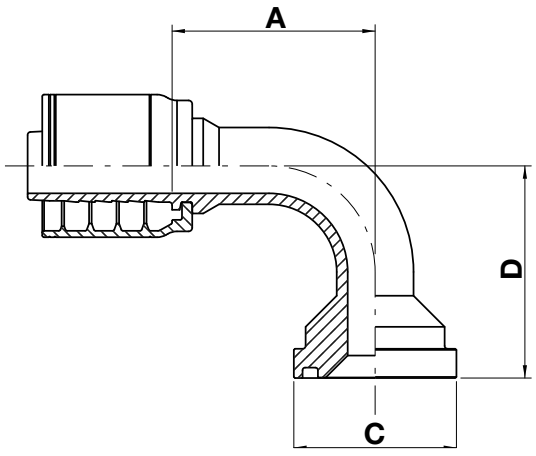
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AX90K

SAE 3000 code 61 - 90° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX90K-08-08	12	1/2”	08	1/2”	46,5	1,83	30,2	1,19	45,0	1,77
AX90K-08-12	12	1/2”	08	3/4”	49,0	1,93	38,1	1,50	49,5	1,95
AX90K-10-12	16	5/8”	10	3/4”	55,5	2,19	38,1	1,50	55,0	2,17
AX90K-12-12	19	3/4”	12	3/4”	55,5	2,19	38,1	1,50	56,5	2,22
AX90K-12-16	19	3/4”	12	1”	55,5	2,19	44,5	1,75	58,0	2,28
AX90K-16-16	25	1”	16	1”	70,0	2,76	44,5	1,75	61,0	2,40
AX90K-16-20	25	1”	16	1.1/4”	69,9	2,75	50,8	2,00	61,0	2,40

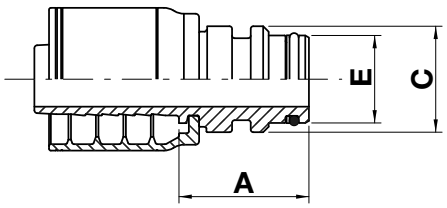
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For wire braid hoses

ST11K

Staple lock male

NO SKIVE



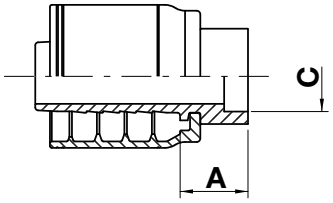
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
ST11K-04-04	6	1/4”	04	35,5	1,40	14,9	0,59	9,9	0,39
ST11K-04-06	6	1/4”	04	34,5	1,36	19,9	0,78	13,9	0,55
ST11K-06-06	10	3/8”	06	34,5	1,36	19,9	0,79	13,9	0,55
ST11K-08-08	12	1/2”	08	35,0	1,38	23,9	0,94	17,9	0,70
ST11K-10-10	16	5/8”	10	36,0	1,42	25,9	1,02	20,9	0,82
ST11K-12-12	19	3/4”	12	35,5	1,40	28,9	1,14	23,9	0,94
ST11K-16-16	25	1”	16	44,0	1,73	38,8	1,53	30,9	1,22

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WO10K

Brazing tail

NO SKIVE



code	ø hose			A		C	
	dn	inch	size	mm	in	mm	in
WO10K-04-04	6	1/4”	04	14,5	0,57	6,5	0,26
WO10K-06-06	10	3/8”	06	16,5	0,65	9,5	0,38
WO10K-08-08	12	1/2”	08	17,0	0,67	12,8	0,51
WO10K-08-10	12	1/2”	08	20,0	0,79	16,0	0,63
WO10K-10-10	16	5/8”	10	17,0	0,67	16,0	0,63
WO10K-12-12	19	3/4”	12	18,5	0,73	19,2	0,76
WO10K-16-16	25	1”	16	23	0,91	25,6	1,01

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J

SERIES

For multispiral and
wire braid hoses
No skive

intertraco

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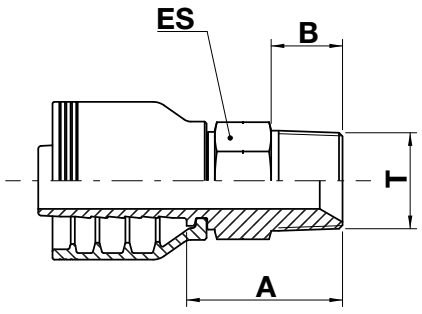
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MN10J

NPTF male (60° cone seat)

NO SKIVE

SAE J514



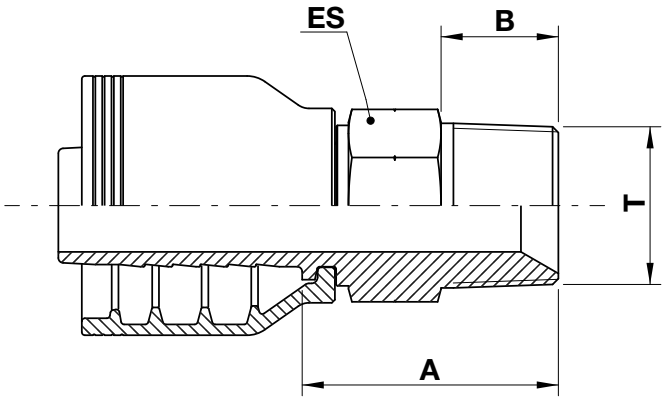
code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MN10J-06-04	10	3/8”	06	1/4”-18	26,5	1,04	14,0	0,55	17,0	0,669	11/16”
MN10J-06-06	10	3/8”	06	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10J-06-08	10	3/8”	06	1/2”-14	33,0	1,30	19,0	0,75	22,0	0,866	7/8”
MN10J-08-06	12	1/2”	08	3/8”-18	28,5	1,12	14,0	0,55	19,0	0,748	3/4”
MN10J-08-08	12	1/2”	08	1/2”-14	33,5	1,32	19,0	0,75	22,0	0,866	7/8”
MN10J-08-12	12	1/2”	08	3/4”-14	34,0	1,34	19,0	0,75	27,0	1,063	1.1/16”
MN10J-10-08	16	5/8”	10	1/2”-14	33,5	1,32	19,0	0,75	24,0	0,945	15/16”
MN10J-10-12	16	5/8”	10	3/4”-14	41,0	1,61	19,0	0,75	27,0	1,063	1.1/16”
MN10J-12-12	19	3/4”	12	3/4”-14	41,5	1,63	19,0	0,75	27,0	1,063	1.1/16”
MN10J-12-16	19	3/4”	12	1”-11.1/2	46,5	1,83	24,0	0,94	36,0	1,417	1.7/16”
MN10J-16-12	25	1”	16	3/4”-14	43,0	1,69	19,0	0,75	32,0	1,260	1.1/4”
MN10J-16-16	25	1”	16	1”-11.1/2	48,0	1,89	24,0	0,94	36,0	1,417	1.7/16”
MN10J-16-20	25	1”	16	1.1/4”-11.1/2	60,0	2,36	24,5	0,96	46,0	1,811	1.13/16”
MN10J-20-20	31	1.1/4”	20	1.1/4”-11.1/2	63,0	2,48	24,5	0,96	46,0	1,811	1.13/16”
MN10J-20-24	31	1.1/4”	20	1.1/2”-11.1/2	63,5	2,5	25,5	1,00	50,0	1,969	2”
MN10J-24-24	38	1.1/2”	24	1.1/2”-11.1/2	64,0	2,52	25,5	1,00	50,0	1,969	2”
MN10J-32-32	51	2”	32	2”-11.1/2	79,0	3,11	26,0	1,02	65,0	2,559	2.9/16”

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MNA10J

NPTF male (60° cone seat) - long nose “API” style version

NO SKIVE



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MNA10J-32-32	51	2”	32	2”-11.1/2	111,0	4,37	51,0	2,01	65,0	2,559	2.9/16”

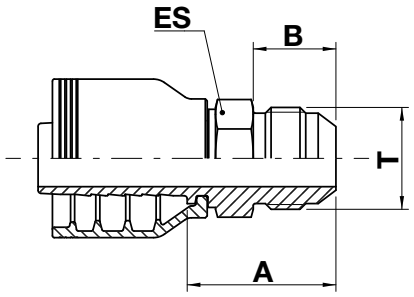
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MJ10J

JIC 37° male

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MJ10J-06-06	10	3/8”	06	9/16”-18	27,5	1,08	14,1	0,56	17,0	0,669	11/16”
MJ10J-06-08	10	3/8”	06	3/4”-16	30,2	1,19	16,7	0,66	19,0	0,748	3/4”
MJ10J-06-10	10	3/8”	06	7/8”-14	34,8	1,37	19,3	0,76	24,0	0,945	15/16”
MJ10J-08-08	12	1/2”	08	3/4”-16	30,7	1,21	16,7	0,66	19,0	0,748	3/4”
MJ10J-08-10	12	1/2”	08	7/8”-14	35,0	1,38	19,3	0,76	24,0	0,945	15/16”
MJ10J-08-12	12	1/2”	08	1.1/16”-12	39,0	1,54	21,9	0,86	27,0	1,063	1.1/16”
MJ10J-10-08	16	5/8”	10	3/4”-16	33,5	1,32	16,7	0,66	24,0	0,945	15/16”
MJ10J-10-10	16	5/8”	10	7/8”-14	35,0	1,38	19,3	0,76	24,0	0,945	15/16”
MJ10J-10-12	16	5/8”	10	1.1/16”-12	39,0	1,54	21,9	0,86	27,0	1,063	1.1/16”
MJ10J-12-10	19	3/4”	12	7/8”-14	36,5	1,44	19,3	0,76	27,0	1,063	1.1/16”
MJ10J-12-12	19	3/4”	12	1.1/16”-12	39,4	1,55	21,9	0,86	27,0	1,063	1.1/16”
MJ10J-12-14	19	3/4”	12	1.3/16”-12	40,0	1,57	22,6	0,89	32,0	1,260	1.1/4”
MJ10J-12-16	19	3/4”	12	1.5/16”-12	45,5	1,79	23,1	0,91	36,0	1,417	1.7/16”
MJ10J-16-16	25	1”	16	1.5/16”-12	47,1	1,85	23,1	0,91	36,0	1,417	1.7/16”
MJ10J-16-20	25	1”	16	1.5/8”-12	58,5	2,30	24,3	0,96	46,0	1,811	1.13/16”
MJ10J-20-20	31	1.1/4”	20	1.5/8”-12	62,8	2,47	24,3	0,96	46,0	1,811	1.13/16”
MJ10J-24-24	38	1.1/2”	24	1.7/8”-12	66,0	2,60	27,5	1,08	50,0	1,969	2”
MJ10J-32-32	51	2”	32	2.1/2”-12	86,5	3,40	33,9	1,33	65,0	2,559	2.9/16”

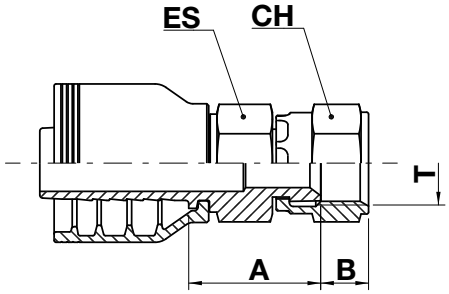
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FJ11J FJ16J FJ12J

JIC 37° female swivel

NO SKIVE

ISO 8434-2 / SAE J514



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ11J-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	19,0	0,748	3/4”
FJ16J-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	17,46	0,687	11/16”
FJ11J-06-08	10	3/8”	06	3/4”-16	26,0	1,02	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ11J-06-10	10	3/8”	06	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FJ11J-08-06	12	1/2”	08	9/16”-18	26,5	1,04	9,5	0,37	19,0	0,748	3/4”	19,0	0,748	3/4”
FJ11J-08-08	12	1/2”	08	3/4”-16	26,5	1,04	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ11J-08-10	12	1/2”	08	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FJ11J-08-12	12	1/2”	08	1.1/16”-12	34,0	1,34	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11J-10-08	16	5/8”	10	3/4”-16	28,5	1,12	10,7	0,42	22,0	0,866	7/8”	22,0	0,866	7/8”
FJ11J-10-10	16	5/8”	10	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,060	1.1/16”
FJ11J-10-12	16	5/8”	10	1.1/16”-12	34,0	1,38	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11J-12-10	19	3/4”	12	7/8”-14	35,0	1,49	12,7	0,50	27,0	1,063	1.1/16”	27,0	1,063	1.1/16”
FJ11J-12-12	19	3/4”	12	1.1/16”-12	34,5	1,36	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11J-12-14	19	3/4”	12	1.3/16”-12	31,0	1,22	14,5	0,57	36,0	1,181	1.3/16”	36,0	1,417	1.7/16”
FJ11J-12-16	19	3/4”	12	1.5/16”-12	38,5	1,51	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ11J-16-12	25	1”	16	1.1/16”-12	38,0	1,50	14,3	0,56	32,0	1,260	1.1/4”	32,0	1,260	1.1/4”
FJ11J-16-16	25	1”	16	1.5/16”-12	38,0	1,50	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ12J-16-20	25	1”	16	1.5/8”-12	52,6	2,07	16,0	0,63	41,0	1,614	1.5/8”	50,0	1,969	2”
FJ11J-20-16	31	1.1/4”	20	1.5/16”-12	51,5	2,03	16,0	0,63	41,0	1,614	1.5/8”	38,0	1,496	1.1/2”

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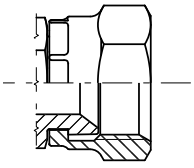
← **FJ11J** FJ16J FJ12J

NO SKIVE

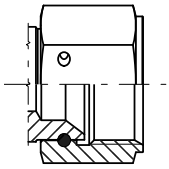
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ12J-20-20	31	1.1/4”	20	1.5/8”-12	51,5	2,03	16,0	0,63	41,0	1,614	1.5/8”	50,0	1,969	2”
FJ12J-20-24	31	1.1/4”	20	1.7/8”-12	56,5	2,22	18,5	0,73	50,0	1,969	2”	55,0	2,165	2.3/16”
FJ12J-24-24	38	1.1/2”	24	1.7/8”-12	56,9	2,24	18,5	0,73	50,0	1,969	2”	55,0	2,165	2.3/16”
FJ12J-32-32	51	2”	32	2.1/2”-12	74,0	2,91	24,0	0,94	65,0	2,559	2.9/16”	75,0	2,953	-
FJ12J-40-40	63	2.1/2”	40	3”-12	87,5	3,44	20,0	0,79	75,0	2,953	-	90,0	3,54	-

Nut type

FJ11



FJ12



←

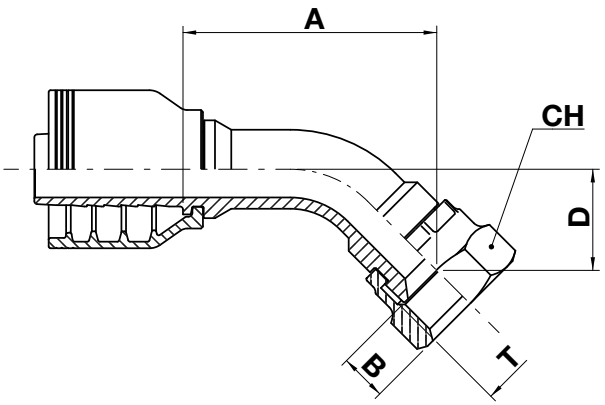
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FJ41J FJ46J FJ43J FJ42J

JIC 37° female swivel - 45° elbow

NO SKIVE

ISO 8434-2 / SAE J514

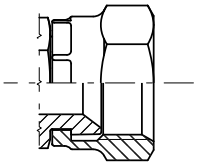


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

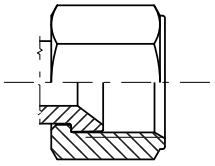
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ41J-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ46J-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	17,46	0,687	11/16”
FJ43J-06-08	10	3/8”	06	3/4”-16	42,5	1,67	10,7	0,42	15,0	0,59	22,0	0,866	7/8”
FJ41J-08-08	12	1/2”	08	3/4”-16	40,7	1,60	10,7	0,42	13,8	0,54	22,0	0,866	7/8”
FJ43J-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	16,0	0,63	27,0	1,063	1.1/16”
FJ41J-10-10	16	5/8”	10	7/8”-14	54,0	2,13	12,7	0,50	16,0	0,63	27,0	1,063	1.1/16”
FJ41J-10-12	16	5/8”	10	1.1/16”-12	60,5	2,38	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41J-12-12	19	3/4”	12	1.1/16”-12	64,5	2,54	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41J-12-16	19	3/4”	12	1.5/16”-12	71,5	2,81	15,1	0,59	31,8	1,25	38,0	1,496	1.1/2”
FJ41J-16-16	25	1”	16	1.5/16”-12	86,0	3,38	15,1	0,59	34,5	1,36	38,0	1,496	1.1/2”
FJ42J-16-20	25	1”	16	1.5/8”-12	92,2	3,63	16,0	0,63	39,2	1,54	50,0	1,969	2”
FJ42J-20-20	31	1.1/4”	20	1.5/8”-12	97,0	3,82	16,0	0,63	37,5	1,48	50,0	1,969	2”
FJ42J-24-24	38	1.1/2”	24	1.7/8”-12	119,0	4,69	18,5	0,73	49,2	1,94	55,0	2,165	2.3/16”
FJ42J-32-32	51	2”	32	2.1/2”-12	152,6	6,01	24,0	0,94	68,8	2,71	75,0	2,953	-

Nut type

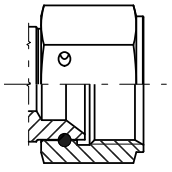
FJ41



FJ43



FJ42



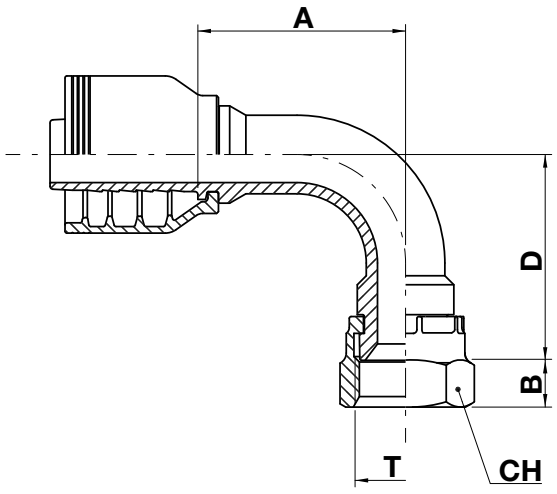
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FJ91J FJ96J FJ93J FJ92J

JIC 37° female swivel - 90° elbow

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91J-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ96J-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ93J-06-08	10	3/8”	06	3/4”-16	35,0	1,38	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ91J-08-08	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ93J-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	32,0	1,26	27,0	1,063	1.1/16”
FJ91J-10-10	16	5/8”	10	7/8”-14	48,5	1,91	12,5	0,49	32,0	1,26	27,0	1,063	1.1/16”
FJ91J-10-12	16	5/8”	10	1.1/16”-12	56,0	2,20	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91J-12-12	19	3/4”	12	1.1/16”-12	61,0	2,41	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91J-12-16	19	3/4”	12	1.5/16”-12	55,5	2,19	15,1	0,61	62,0	2,44	38,0	1,496	1.1/2”
FJ91J-16-16	19	3/4”	12	1.5/16”-12	75,5	2,97	15,1	0,61	71,0	2,80	38,0	1,496	1.1/2”
FJ92J-16-20	25	1”	16	1.5/8”-12	79,5	3,13	16,0	0,63	79,5	3,13	50,0	1,969	2”
FJ92J-20-20	31	1.1/4”	20	1.5/8”-12	87,5	3,44	16,0	0,63	77,0	3,03	50,0	1,969	2”
FJ92J-20-24	31	1.1/4”	20	1.7/8”-12	85,5	3,37	18,5	0,73	88,0	3,46	55,0	2,165	2.3/16”
FJ92J-24-24	38	1.1/2”	24	1.7/8”-12	102,0	4,02	18,5	0,73	100,0	3,94	55,0	2,165	2.3/16”
FJ92J-32-32	51	2”	32	2.1/2”-12	130,5	5,14	24,0	0,94	140,0	5,51	75,0	2,953	-

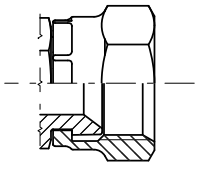
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← **FJ91J** FJ96J FJ93J FJ92J

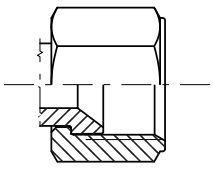
NO SKIVE

Nut type

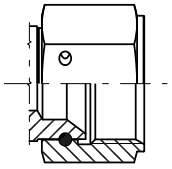
FJ91



FJ93



FJ92



←

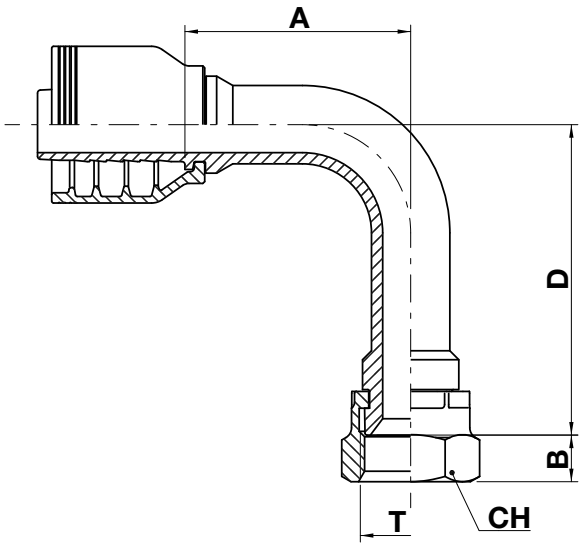
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FJ91J-L FJ96J-L FJ93J-L FJ92J-L

JIC 37° female swivel - 90° elbow (long drop)

NO SKIVE

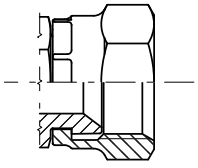
ISO 8434-2 / SAE J514



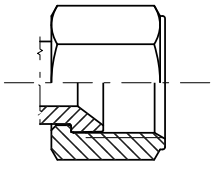
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91J-06-06-L	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	56,0	2,20	19,0	0,748	3/4”
FJ96J-06-06-L	10	3/8”	06	9/16”-18	35,5	1,40	9,5	0,37	56,0	2,20	17,46	0,687	11/16”
FJ93J-06-08-L	10	3/8”	06	3/4”-16	35,0	1,38	10,7	0,42	62,0	2,44	22,0	0,866	7/8”
FJ91J-08-08-L	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	62,0	2,44	22,0	0,866	7/8”
FJ91J-10-10-65	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	65,0	2,56	27,0	1,063	1.1/16”
FJ91J-10-10-L	16	5/8”	10	7/8”-14	54,0	2,13	12,5	0,49	70,0	2,76	27,0	1,063	1.1/16”
FJ91J-10-12-L	16	5/8”	10	1.1/16”-12	55,0	2,16	14,3	0,56	96,0	3,78	32,0	1,260	1.1/4”
FJ91J-12-12-L	19	3/4”	12	1.1/16”-12	55,5	2,19	14,3	0,56	96,0	3,78	32,0	1,260	1.1/4”
FJ91J-16-16-110	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,61	110,0	4,33	38,0	1,496	1.1/2”
FJ91J-16-16-L	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,61	114,0	4,49	38,0	1,496	1.1/2”
FJ92J-16-20-L	25	1”	16	1.5/8”-12	79,5	3,13	16,0	0,63	129,0	5,07	50,0	1,969	2”
FJ92J-20-20-L	31	1.1/4”	20	1.5/8”-12	87,5	3,44	16,0	0,63	129,0	5,07	50,0	1,969	2”

Nut type

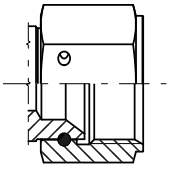
FJ91



FJ93



FJ92



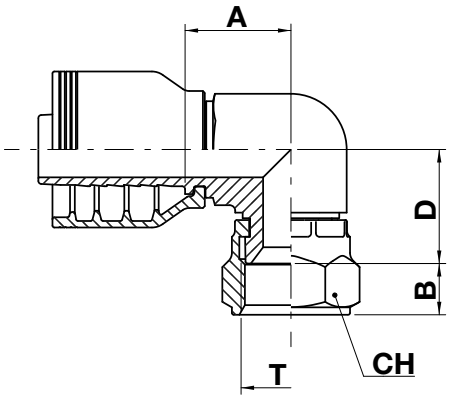
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KJ91J

JIC 37° female swivel - 90° compact elbow

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KJ91J-06-06	10	3/8”	06	9/16”-18	21,5	0,85	8,5	0,33	23,0	0,91	19,0	0,748	3/4”
KJ91J-06-08	10	3/8”	06	3/4”-16	21,5	0,85	10,5	0,41	24,9	0,98	22,0	0,866	7/8”
KJ91J-08-08	12	1/2”	08	3/4”-16	25,5	1,00	9,5	0,37	26,9	1,06	22,0	0,866	7/8”
KJ91J-08-10	12	1/2”	08	7/8”-14	25,5	1,00	13,0	0,51	28,3	1,11	27,0	1,063	1.1/16”
KJ91J-10-10	16	5/8”	10	7/8”-14	25,5	1,00	13,0	0,51	27,7	1,09	27,0	1,063	1.1/16”
KJ91J-12-12	19	3/4”	12	1.1/16”-12	28,5	1,12	14,3	0,56	30,7	1,21	32,0	1,260	1.1/4”
KJ91J-16-16	25	1”	16	1.5/16”-12	34,0	1,34	14,5	0,57	32,5	1,28	38,0	1,496	1.1/2”

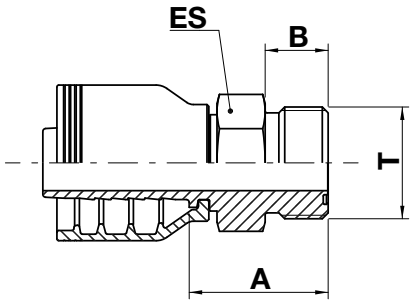
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OM10J*

ORFS male

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
OM10J-06-06	10	3/8”	06	11/16”-16	26,5	1,04	11,2	0,44	19,0	0,748	3/4”
OM10J-06-08	10	3/8”	06	13/16”-16	29,0	1,14	13,2	0,52	22,0	0,866	7/8”
OM10J-08-08	12	1/2”	08	13/16”-16	29,5	1,16	13,2	0,52	22,0	0,866	7/8”
OM10J-08-10	12	1/2”	08	1”-14	34,0	1,34	15,7	0,62	27,0	1,063	1.1/16”
OM10J-08-12	12	1/2”	08	1.3/16”-12	37,0	1,46	17,0	0,67	32,0	1,260	1.1/4”
OM10J-10-08	16	5/8”	10	1.3/16”-12	29,5	1,16	13,2	0,52	22,0	0,866	7/8”
OM10J-10-10	16	5/8”	10	1”-14	34,0	1,34	15,7	0,62	27,0	1,063	1.1/16”
OM10J-10-12	16	5/8”	10	1.3/16”-12	37,0	1,46	17,0	0,67	32,0	1,260	1.1/4”
OM10J-12-10	19	3/4”	12	1”-14	34,5	1,36	15,7	0,62	27,0	1,063	1.1/16”
OM10J-12-12	19	3/4”	12	1.3/16”-12	37,5	1,48	17,0	0,67	32,0	1,260	1.1/4”
OM10J-12-16	19	3/4”	12	1.7/16”-12	40,0	1,57	17,5	0,69	41,0	1,614	1.5/8”
OM10J-16-16	25	1”	16	1.7/16”-12	41,5	1,63	17,5	0,69	41,0	1,614	1.5/8”
OM10J-16-20	25	1”	16	1.11/16”-12	41,5	1,63	17,5	0,69	46,0	1,811	1.13/16”
OM10J-20-16	31	1.1/4”	20	1.7/16”-12	43,5	1,71	17,5	0,69	41,0	1,614	1.5/8”
OM10J-20-20	31	1.1/4”	20	1.11/16”-12	43,5	1,71	17,5	0,69	46,0	1,811	1.13/16”
OM10J-24-24	38	1.1/2”	24	2”-12	425	1,67	17,5	0,69	55,0	2,165	2.3/16”

* OM13J complete with O-ring

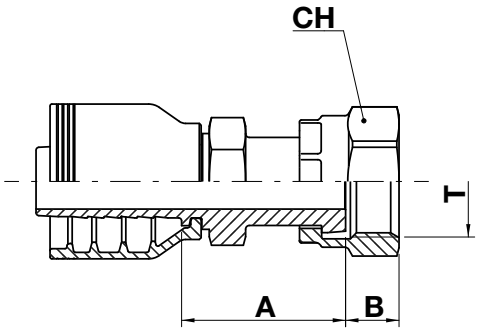
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OR13J OR12J

ORFS female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR13J-06-06	10	3/8”	06	11/16”-16	32,0	1,26	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13J-06-08	10	3/8”	06	13/16”-16	36,5	1,44	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13J-08-06	12	1/2”	08	11/16”-16	31,5	1,24	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
OR13J-08-08	12	1/2”	08	13/16”-16	35,0	1,38	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13J-08-10	12	1/2”	08	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR13J-08-12	12	1/2”	08	1.3/16”-12	44,0	1,73	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13J-10-10	16	5/8”	10	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR13J-10-12	16	5/8”	10	1.3/16”-12	44,0	1,73	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13J-12-10	19	3/4”	12	1”-14	42,0	1,65	13,5	0,53	27,0	1,063	1.1/16”	30,0	1,181	1.3/16”
OR13J-12-12	19	3/4”	12	1.3/16”-12	44,6	1,76	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13J-12-16	19	3/4”	12	1.7/16”-12	51,5	2,03	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”
OR13J-16-12	25	1”	16	1.3/16”-12	51,0	2,01	14,5	0,57	36,0	1,417	1.7/16”	36,0	1,417	1.7/16”
OR13J-16-16	25	1”	16	1.7/16”-12	52,5	2,07	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”
OR12J-16-20	25	1”	16	1.11/16”-12	55,0	2,17	14,8	0,58	41,0	1,614	1.5/8”	50,0	1,969	2”
OR12J-20-20	31	1.1/4”	20	1.11/16”-12	56,0	2,20	14,8	0,58	41,0	1,614	1.5/8”	50,0	1,969	2”
OR12J-20-24	31	1.1/4”	20	2”-12	56,0	2,20	14,8	0,58	50,0	1,969	2”	60,0	2,362	2.3/8”
OR12J-24-24	38	1.1/2”	24	2”-12	60,0	2,36	14,8	0,58	50,0	1,969	2”	60,0	2,362	2.3/8”

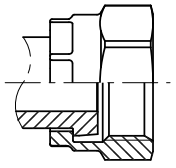
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← **OR13J** OR12J

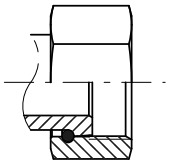
NO SKIVE

Nut type

OR13



OR12



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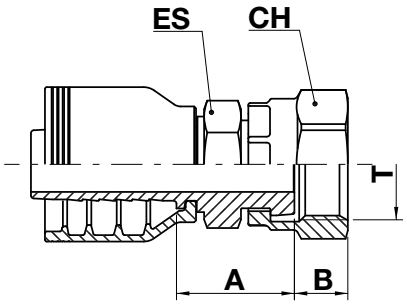
OR11J

ORFS short female swivel

NO SKIVE

ISO 8434-3 / SAE J1453

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR11J-06-06	10	3/8”	06	11/16”-16	23,5	0,92	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR11J-06-08	10	3/8”	06	13/16”-16	27,0	1,06	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11J-08-08	12	1/2”	08	13/16”-16	27,5	1,08	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11J-08-10	12	1/2”	08	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11J-10-10	16	5/8”	10	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11J-10-12	16	5/8”	10	1.3/16”-12	31,5	1,24	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11J-12-12	19	3/4”	12	1.3/16”-12	32,0	1,26	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11J-12-16	19	3/4”	12	1.7/16”-12	38,5	1,52	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”
OR11J-16-16	25	1”	16	1.7/16”-12	40,0	1,57	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”

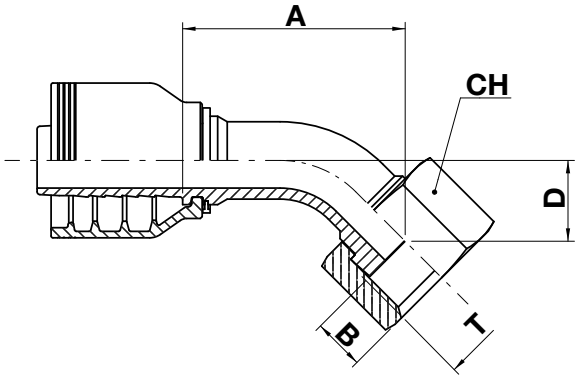
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OR44J OR43J OR42J

ORFS female swivel - 45° elbow

NO SKIVE

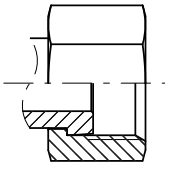
ISO 8434-3 / SAE J1453



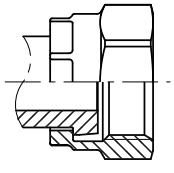
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR44J-06-06	10	3/8”	6	11/16”-16	35,5	1,40	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44J-06-08	10	3/8”	6	13/16”-16	38,5	1,51	11,0	0,43	15,0	0,59	24,0	0,945	15/16”
OR43J-08-06	12	1/2”	08	11/16”-16	38,5	1,51	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44J-08-08	12	1/2”	08	13/16”-16	43,0	1,69	11,0	0,43	15,0	0,59	24,0	0,945	15/16”
OR44J-08-10	12	1/2”	08	1”-14	43,5	1,71	13,5	0,53	16,0	0,63	30,0	1,181	1.3/16”
OR43J-08-12	12	1/2”	08	1.3/16”-12	56,5	2,22	14,5	0,57	18,9	0,74	36,0	1,417	1.7/16”
OR44J-10-10	16	5/8”	10	1”-14	48,5	1,91	13,5	0,53	16,0	0,63	30,0	1,181	1.3/16”
OR44J-10-12	16	5/8”	10	1.3/16”-12	60,5	2,38	14,5	0,57	21,0	0,83	36,0	1,417	1.7/16”
OR43J-12-10	19	3/4”	12	1”-14	67,5	2,65	13,5	0,53	15,0	0,59	30,0	1,181	1.3/16”
OR44J-12-12	19	3/4”	12	1.3/16”-12	62,0	2,44	14,5	0,57	21,0	0,83	36,0	1,417	1.7/16”
OR44J-12-16	19	3/4”	12	1.7/16”-12	63,0	2,48	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”
OR44J-16-16	25	1”	16	1.7/16”-12	73,0	2,87	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”
OR42J16-20	25	1”	16	1.11/16”-12	91,5	3,60	14,8	0,58	37,0	1,45	50,0	1,969	2”
OR42J-20-20	31	1.1/4”	20	1.11/16”-12	97,0	3,82	14,8	0,58	37,0	1,45	50,0	1,969	2”
OR42J-24-24	38	1.1/2”	24	2”-12	120,5	4,74	14,8	0,58	44,0	1,73	60,0	2,362	2.3/8”

Nut type

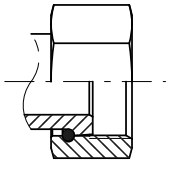
OR44



OR43



OR42



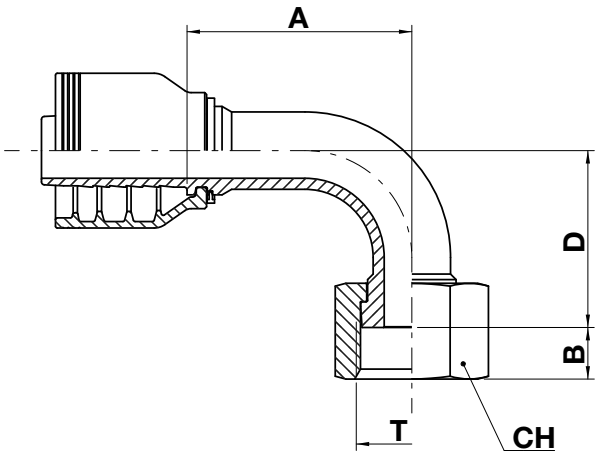
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OR94J OR93J OR92J

ORFS female swivel - 90° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

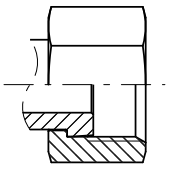
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94J-06-06	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	24,0	0,94	22,0	0,866	7/8”
OR94J-06-08	10	3/8”	06	13/16”-16	31,5	1,24	11,0	0,43	30,0	1,18	24,0	0,945	15/16”
OR93J-08-06	12	1/2”	08	11/16”-16	37,0	1,46	11,0	0,43	23,0	0,91	22,0	0,866	7/8”
OR94J-08-08	12	1/2”	08	13/16”-16	44,5	1,75	11,0	0,43	29,0	1,14	24,0	0,945	15/16”
OR94J-08-10	12	1/2”	08	1”-14	37,5	1,48	13,5	0,53	33,0	1,30	30,0	1,181	1.3/16”
OR94J-08-12	12	1/2”	08	1.3/16”-12	42,5	1,67	14,5	0,57	48,0	1,61	36,0	1,417	1.7/16”
OR93J-10-08	16	5/8”	10	13/16”-16	42,5	1,67	11,0	0,43	29,0	1,14	24,0	0,945	15/16”
OR94J-10-10	16	5/8”	10	1”-14	46,5	1,83	13,5	0,53	32,0	1,26	30,0	1,181	1.3/16”
OR94J-10-12	16	5/8”	10	1.3/16”-12	53,5	2,11	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR93J-12-10	19	3/4”	12	1”-14	50,5	2,00	13,5	0,53	32,0	1,26	30,0	1,181	1.3/16”
OR94J-12-12	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR94J-12-16	19	3/4”	12	1.7/16”-12	57,0	2,24	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”
OR93J-16-12	25	1”	16	1.3/16”-12	63,0	2,48	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR94J-16-16	25	1”	16	1.7/16”-12	71,0	2,80	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”
OR93J-20-16	31	1.1/4”	20	1.7/16”-12	79,0	3,11	14,5	0,57	56,0	2,16	41,0	1,614	1.5/8”
OR92J-20-20	31	1.1/4”	20	1.11/16”-12	82,0	3,22	14,8	0,58	66,0	2,60	50,0	1,969	2”
OR92J-24-24	38	1.1/2”	24	2”-12	105,0	4,13	14,8	0,58	94,0	3,70	60,0	2,362	2.3/8”

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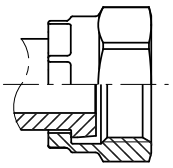
← **OR94J** OR93J OR92J

Nut type

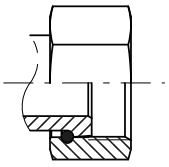
OR94



OR93



OR92



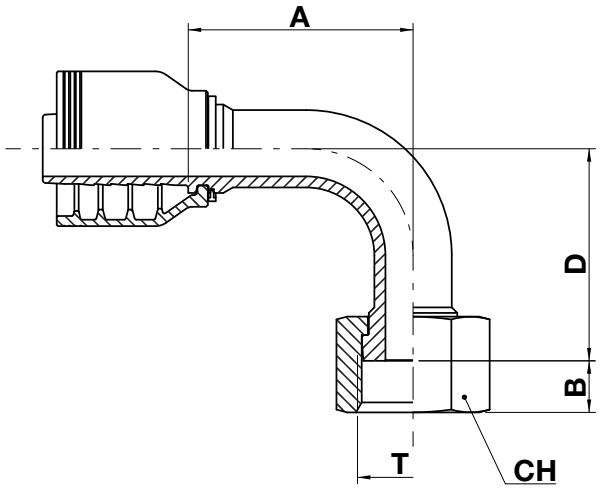
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OR94J-M OR92J-M

ORFS female swivel - 90° elbow (medium drop)

NO SKIVE

ISO 8434-3 / SAE J1453

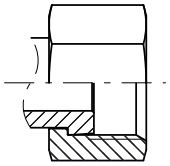


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

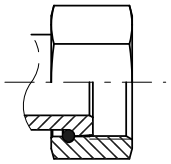
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94J-06-06-M	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	38,0	1,50	22,0	0,866	7/8”
OR94J-06-08-M	10	3/8”	06	13/16”-16	34,0	1,34	11,0	0,43	41,0	1,61	24,0	0,945	15/16”
OR94J-08-08-M	12	1/2”	08	13/16”-16	40,0	1,57	11,0	0,43	41,0	1,61	24,0	0,945	15/16”
OR94J-10-10-M	16	5/8”	10	1”-14	53,5	2,10	13,5	0,53	47,0	1,85	30,0	1,181	1.3/16”
OR94J-12-12-M	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	58,0	2,28	36,0	1,417	1.7/16”
OR94J-16-16-M	25	1”	16	1.7/16”-12	74,0	2,91	13,8	0,54	71,0	2,79	41,0	1,614	1.5/8”
OR92J-20-20-M	31	1.1/2”	20	1.11/16”-12	85,5	3,36	14,8	0,58	78,0	3,07	50,0	1,969	2”

Nut type

OR94



OR92



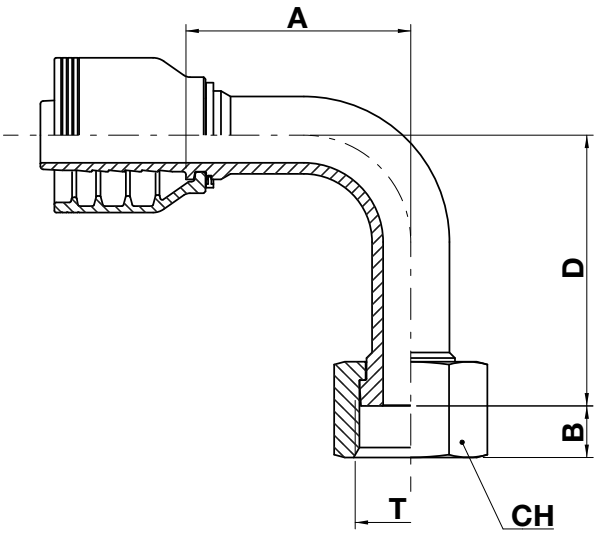
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OR94J-L OR92J-L

ORFS female swivel - 90° elbow (long drop)

NO SKIVE

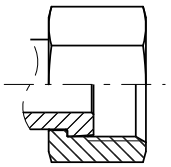
ISO 8434-3 / SAE J1453



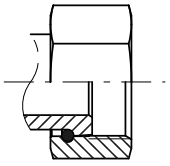
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94J-06-06-L	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	54,0	2,12	22,0	0,866	7/8”
OR94J-06-08-L	10	3/8”	06	13/16”-16	31,5	1,24	11,0	0,43	64,0	2,52	24,0	0,945	15/16”
OR94J-08-08-L	12	1/2”	08	13/16”-16	40,0	1,57	11,0	0,43	64,0	2,52	24,0	0,945	15/16”
OR94J-10-10-L	16	5/8”	10	1”-14	53,5	2,10	13,5	0,53	70,0	2,75	30,0	1,181	1.3/16”
OR94J-12-12-L	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	96,0	3,78	36,0	1,417	1.7/16”
OR94J-16-16-L	25	1”	16	1.7/16”-12	70,3	2,77	13,8	0,54	114,0	4,49	41,0	1,614	1.5/8”
OR92J-20-20-L	31	1.1/2”	20	1.11/16”-12	85,5	3,36	14,8	0,58	129,0	5,08	50,0	1,969	2”

Nut type

OR94



OR92



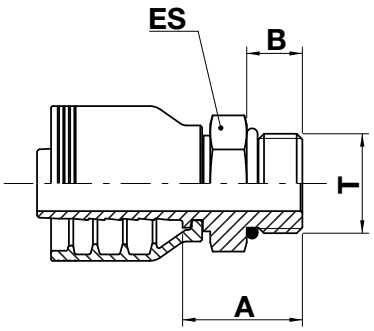
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ME10J*

O-ring boss male

NO SKIVE

SAE J1926



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
ME10J-06-06	10	3/8”	06	9/16”-18	24,5	0,96	9,95	0,39	17,0	0,669	11/16”
ME10J-06-08	10	3/8”	06	3/4”-16	26,5	1,04	11,1	0,44	22,0	0,866	7/8”
ME10J-08-08	12	1/2”	08	3/4”-16	27,0	1,06	11,1	0,44	22,0	0,866	7/8”
ME10J-10-10	16	5/8”	10	7/8”-14	29,0	1,14	12,7	0,50	27,0	1,063	1.1/16”
ME10J-10-12	16	5/8”	10	1.1/16”-12	32,0	1,26	15,0	0,59	32,0	1,260	1.1/4”
ME10J-12-12	19	3/4”	12	1.1/16”-12	32,5	1,28	15,1	0,59	32,0	1,260	1.1/4”
ME10J-16-16	25	1”	16	1.5/16”-12	39,1	1,54	15,1	0,59	38,0	1,496	1.1/2”

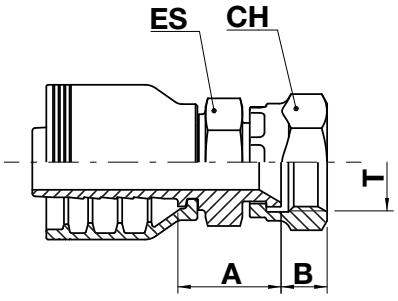
* Complete with O-ring

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FT11J

Japanese “T” style termination female swivel 60° cone

NO SKIVE



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FT11J-06-06	10	3/8”	06	3/8”-19	22,0	0,87	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FT11J-08-08	12	1/2”	08	1/2”-14	25,8	1,02	11,0	0,43	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FT11J-12-12	19	3/4”	12	3/4”-14	29,5	1,16	12,5	0,49	30,0	1,181	1.3/16”	32,0	1,260	1.1/4”
FT11J-16-16	25	1”	16	1”-11	33,0	1,30	14,0	0,55	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”

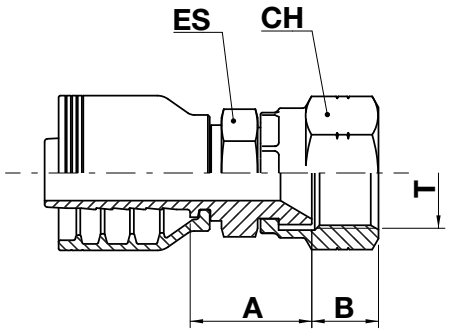
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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FK11J FK12J

Japanese “KOM” style termination female swivel 60° cone

NO SKIVE



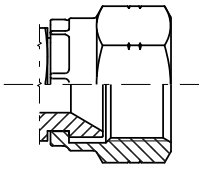
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FK11J-06-14	10	3/8”	06	M14X1,5	25,0	0,98	10,0	0,39	19,0	0,748	3/4”	19,0	0,748	3/4”
FK11J-06-16	10	3/8”	06	M16X1,5	23,0	0,91	9,3	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FK11J-06-18	10	3/8”	06	M18X1,5	24,0	0,94	11,5	0,45	19,0	0,748	3/4”	24,0	0,945	15/16”
FK11J-06-20	10	3/8”	06	M20X1,5	25,5	1,00	11,2	0,44	19,0	0,748	3/4”	27,0	1,063	1.1/16”
FK11J-06-22	10	3/8”	06	M22X1,5	25,5	1,00	14,0	0,55	19,0	0,748	3/4”	27,0	1,063	1.1/16”
FK11J-08-22	12	1/2”	08	M22X1,5	27,0	1,06	14,0	0,55	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FK11J-08-24	12	1/2”	08	M24X1,5	30,2	1,19	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1.1/4”
FK11J-10-24	16	5/8”	10	M24X1,5	28,5	1,12	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1.1/4”
FK11J-12-24	19	3/4”	12	M24X1,5	31,0	1,22	15,1	0,59	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FK11J-12-30	19	3/4”	12	M30X1,5	33,0	1,29	18,3	0,72	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
FK11J-12-33	19	3/4”	12	M33X1,5	33,7	1,33	21,3	0,84	32,0	1,260	1.1/4”	41,0	1,614	1.5/8”
FK11J-12-36	19	3/4”	12	M36X1,5	34,7	1,37	20,0	0,79	41,0	1,614	1.5/8”	46,0	1,811	1.13/16”
FK11J-16-33	25	1”	16	M33X1,5	34,7	1,37	21,3	0,84	32,0	1,260	1.1/4”	41,0	1,614	1.5/8”
FK11J-16-36	25	1”	16	M36X1,5	36,0	1,42	16,0	0,63	41,0	1,614	1.5/8”	46,0	1,811	1.13/16”
FK11J-20-36	31	1.1/4”	20	M36X1,5	40,0	1,57	20,0	0,79	41,0	1,614	1.5/8”	46,0	1,811	1.13/16”
FK12J-20-42	31	1.1/4”	20	M42X1,5	47,0	1,85	18,8	0,74	50,0	1,969	2”	55,0	2,165	2.3/16”
FK12J-24-42	38	1.1/2”	24	M42X1,5	44,0	1,73	18,8	0,74	50,0	1,969	2”	55,0	2,165	2.3/16”

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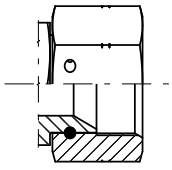
← **FK11J** FK12J

Nut type

FK11



FK12



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

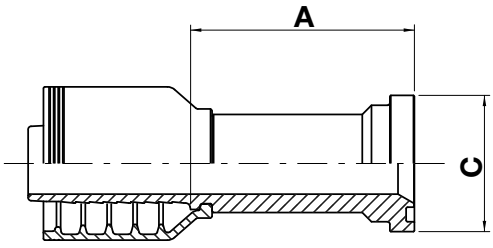
←

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AK10J

Japanese “KOM” style termination straight flange (for metric O-ring)

NO SKIVE



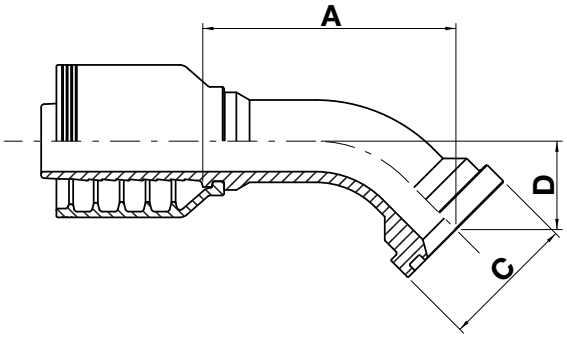
code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AK10J-10-10	16	5/8”	10	5/8”	65,0	2,56	34,2	1,35
AK10J-12-12	19	3/4”	12	3/4”	70,5	2,78	38,0	1,50
AK10J-12-16	19	3/4”	12	1”	72,5	2,86	44,5	1,75
AK10J-16-16	25	1”	16	1”	73,0	2,87	44,5	1,75
AK10J-16-20	25	1”	16	1.1/4”	80,0	3,15	50,8	2,00
AK10J-20-20	31	1.1/4”	20	1.1/4”	83,0	3,27	50,8	2,00
AK10J-24-24	38	1.1/2”	24	1.1/2”	91,0	3,58	60,3	2,37
AK10J-32-32	51	2”	32	2”	125,0	4,92	71,4	2,81

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AK40J

Japanese “KOM” style termination - 45° elbow flange (for metric O-ring)

NO SKIVE



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK40J-10-10	16	5/8”	10	5/8”	66,5	2,61	34,2	1,35	25,0	0,98
AK40J-12-12	19	3/4”	12	3/4”	69,0	2,72	38,0	1,50	27,0	1,06
AK40J-12-16	19	3/4”	12	1”	71,5	2,81	44,5	1,75	32,0	1,26
AK40J-16-16	25	1”	16	1”	83,0	3,27	44,4	1,75	29,0	1,14
AK40J-16-20	25	1”	16	1.1/4”	86,0	3,38	50,8	2,00	31,0	1,22
AK40J-20-20	31	1.1/4”	20	1.1/4”	89,0	3,50	50,8	2,00	31,0	1,22
AK40J-24-24	38	1.1/2”	24	1.1/2”	105,0	4,13	60,3	2,37	39,4	1,55
AK40J-32-32	51	2”	32	2”	164,0	6,46	71,4	2,81	52,5	2,07

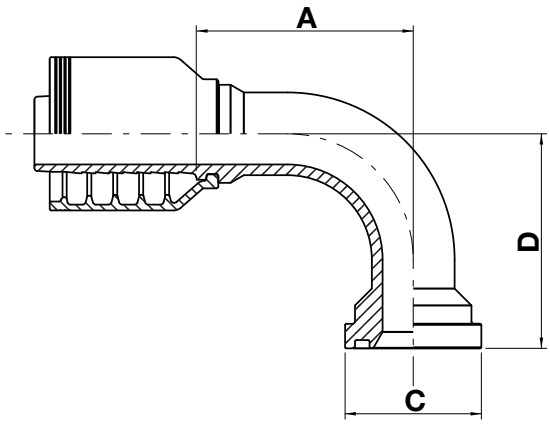
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AK90J

Japanese “KOM” style termination - 90° elbow flange (for metric O-ring)

NO SKIVE



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

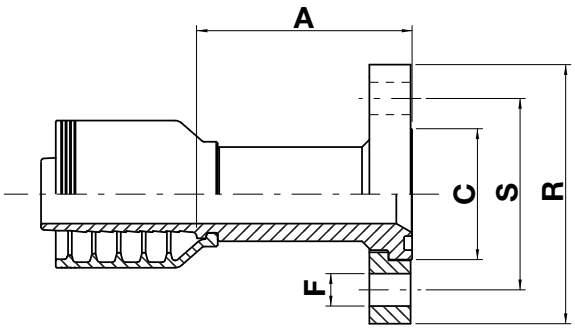
code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK90J-10-10	16	5/8”	10	5/8”	60,5	2,38	34,2	1,35	55,0	2,17
AK90J-12-12	19	3/4”	12	3/4”	62,5	2,46	38,0	1,50	56,5	2,22
AK90J-12-16	19	3/4”	12	1”	76,5	3,01	44,5	1,75	61,0	2,40
AK90J-16-16	25	1”	16	1”	70,6	2,78	44,4	1,75	70,0	2,76
AK90J-20-20	31	1.1/4”	20	1.1/4”	102,9	4,05	50,8	2,00	80,0	3,15
AK90J-24-24	38	1.1/2”	24	1.1/2”	118,0	4,65	60,3	2,37	110,0	4,33
AK90J-32-32	51	2”	32	2”	154,0	6,06	71,4	2,81	140,0	5,51

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AK13J

Japanese “KOM” style termination straight flange with 2 bolt pre-assembled counterflange (for metric O-ring)

NO SKIVE



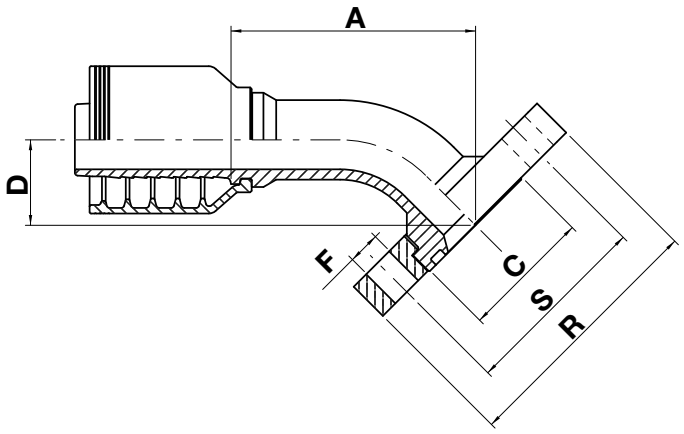
code	ø hose			flange	A		C		R		S		F	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	mm	in
AK13J-16-16	25	1”	16	1”	73,0	2,87	44,5	1,75	88,0	3,46	65,0	2,56	11,0	0,43
AK13J-20-20	31	1.1/4”	20	1.1/4”	83,0	3,27	50,8	2,00	102,0	4,02	75,0	2,95	13,5	0,53
AK13J-24-24	38	1.1/2”	24	1.1/2”	91,0	3,58	60,3	2,37	111,0	4,37	85,0	3,35	13,5	0,53

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AK43J

Japanese “KOM” style termination - 45° elbow flange with 2 bolt pre-assembled counterflange (for metric O-ring)

NO SKIVE



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

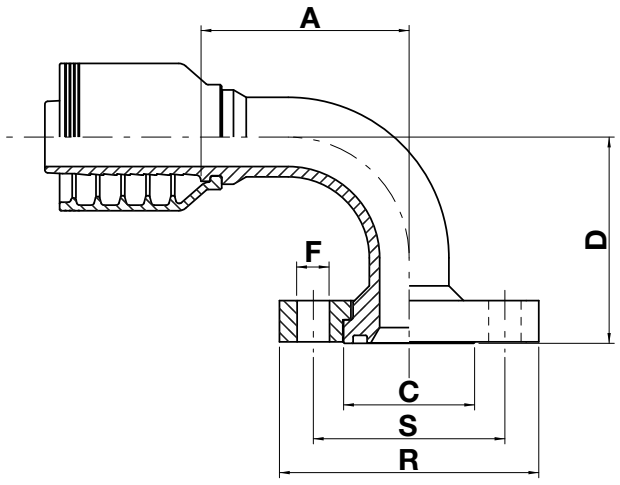
code	ø hose			flange	A		C		D		R		S		F	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
AK43J-16-16	25	1”	16	1”	83,0	3,27	44,4	1,75	29,0	1,14	88,0	3,46	65,0	2,56	11,0	0,43
AK43J-20-20	31	1.1/4”	20	1.1/4”	89,0	3,50	50,8	2,00	31,0	1,22	102,0	4,02	75,0	2,95	13,5	0,53
AK43J-24-24	38	1.1/2”	24	1.1/2”	105,0	4,13	60,3	2,37	39,4	1,55	111,0	4,37	85,0	3,35	13,5	0,53

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AK93J

Japanese “KOM” style termination - 90° elbow flange with 2 bolt pre-assembled counterflange (for metric O-ring)

NO SKIVE



code	ø hose			flange	A		C		D		R		S		F	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
AK93J-16-16	25	1”	16	1”	70,6	2,78	44,4	1,75	70,0	2,76	88,0	3,46	65,0	2,56	11,0	0,43
AK93J-20-20	31	1.1/4”	20	1.1/4”	102,9	4,05	50,8	2,00	80,0	3,15	102,0	4,02	75,0	2,95	13,5	0,53
AK93J-24-24	38	1.1/2”	24	1.1/2”	118,0	4,65	60,3	2,37	110,0	4,33	111,0	4,37	85,0	3,35	13,5	0,53

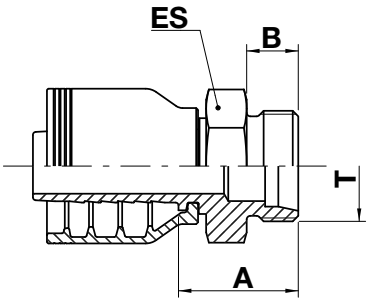
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J

KC10J

“KOB” style male (24° cone seat)

NO SKIVE



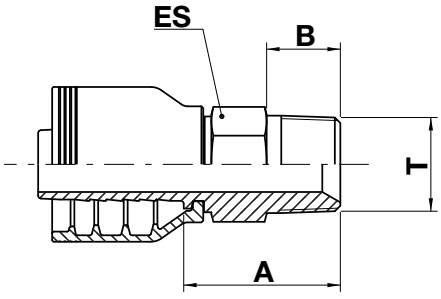
code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
KC10J-12-30	19	3/4”	12	M30x1,5	32,5	1,28	14,0	0,55	36,0	1,417	1.7/16”
KC10J-12-36	19	3/4”	12	M36x1,5	36,5	1,44	16,0	0,63	41,0	1,614	1.5/8”
KC10J-16-36	25	1”	16	M36x1,5	38,0	1,50	16,0	0,63	41,0	1,614	1.5/8”
KC10J-16-45	25	1”	16	M45x1,5	40,0	1,57	16,0	0,63	50,0	1,969	2”

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MT10J

BSPT tapered male 60° cone

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MT10J-06-04	10	3/8”	06	1/4”-19	24,5	0,96	14,0	0,55	14,0	0,551	9/16”
MT10J-06-06	10	3/8”	06	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10J-06-08	10	3/8”	06	1/2”-14	32,0	1,26	18,0	0,71	22,0	0,866	7/8”
MT10J-08-08	12	1/2”	08	1/2”-14	32,5	1,28	18,0	0,71	22,0	0,866	7/8”
MT10J-10-10	16	5/8”	10	5/8”-14	36,0	1,42	16,0	0,63	24,0	0,945	15/16”
MT10J-12-12	19	3/4”	12	3/4”-14	42,5	1,67	20,0	0,79	27,0	1,063	1.1/16”
MT10J-12-16	19	3/4”	12	1”-11	45,5	1,79	23,0	0,91	36,0	1,417	1.7/16”
MT10J-16-16	25	1”	16	1”-11	47,0	1,85	23,0	0,91	36,0	1,417	1.7/16”
MT10J-20-16	31	1.1/4”	20	1”-11	51,0	2,00	23,0	0,91	41,0	1,614	1.5/8”
MT10J-20-20	31	1.1/4”	20	1.1/4”-11	50,0	1,97	25,0	0,98	46,0	1,811	1.13/16”
MT10J-24-24	38	1.1/2”	24	1.1/2”-11	53,0	2,09	28,0	1,10	50,0	1,969	2”
MT10J-32-32	51	2”	32	2”-11	60,0	2,36	28,0	1,10	60,0	2,362	2.3/8”

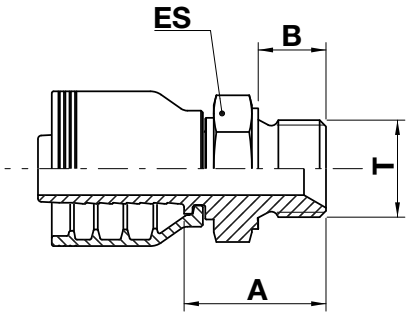
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MB10J

BSP male 60° cone

NO SKIVE

ISO 8434-6 / BS 5200



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MB10J-06-06	10	3/8”	06	3/8”-19	28,5	1,12	12,0	0,47	22,0	0,866	7/8”
MB10J-06-08	10	3/8”	06	1/2”-14	33,5	1,32	14,0	0,55	27,0	1,063	1.1/16”
MB10J-08-08	12	1/2”	08	1/2”-14	34,0	1,34	14,0	0,55	27,0	1,063	1.1/16”
MB10J-10-10	16	5/8”	10	5/8”-14	33,5	1,32	16,0	0,63	30,0	1,181	1.3/16”
MB10J-10-12	16	5/8”	10	3/4”-14	36,0	1,42	16,0	0,63	32,0	1,260	1.1/4”
MB10J-12-12	19	3/4”	12	3/4”-14	36,5	1,44	16,0	0,63	32,0	1,260	1.1/4”
MB10J-16-16	25	1”	16	1”-11	42,0	1,65	19,0	0,75	41,0	1,614	1.5/8”
MB10J-20-20	31	1.1/4”	20	1.1/4”-11	48,0	1,89	20,0	0,79	50,0	1,969	2”
MB10J-24-24	38	1.1/2”	24	1.1/2”-11	50,0	1,97	22,0	0,87	55,0	2,165	2.3/16”
MB10J-32-32	51	2”	32	2”-11	63,5	2,50	25,0	0,98	70,0	2,756	2.3/4”

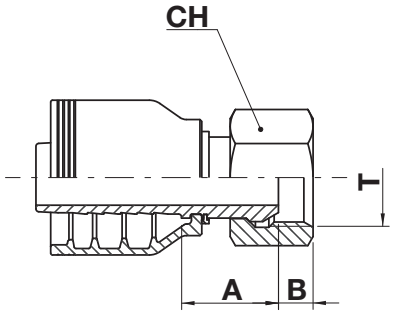
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FB13J FB11J FB12J

BSPT female swivel 60° cone

NO SKIVE

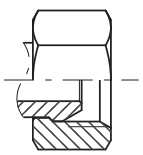
ISO 8434-6 / BS 5200



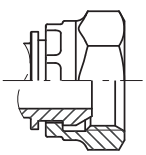
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FB13J-06-06	10	3/8”	06	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB13J-06-08	10	3/8”	06	1/2”-14	20,5	0,81	6,5	0,26	27,0	1,063	1.1/16”
FB13J-08-08	12	1/2”	08	1/2”-14	21,0	0,83	6,5	0,26	27,0	1,063	1.1/16”
FB11J-08-10	12	1/2”	08	5/8”-14	18,0	0,71	9,5	0,37	27,0	1,063	1.1/16”
FB11J-10-10	16	5/8”	10	5/8”-14	18,0	0,71	9,5	0,37	27,0	1,063	1.1/16”
FB11J-10-12	16	5/8”	10	3/4”-14	21,3	0,84	8,7	0,34	32,0	1,260	1.1/4”
FB11J-12-12	19	3/4”	12	3/4”-14	21,8	0,86	8,7	0,34	32,0	1,260	1.1/4”
FB12J-12-16	19	3/4”	12	1”-11	29,0	1,14	10,5	0,41	38,0	1,496	1.1/2”
FB12J-16-16	25	1”	16	1”-11	30,5	1,20	10,5	0,41	38,0	1,496	1.1/2”
FB12J-16-20	25	1”	16	1.1/4”-11	37,0	1,46	10,0	0,39	50,0	1,969	2”
FB12J-20-16	31	1.1/4”	20	1”-11	31,0	1,22	10,5	0,41	38,0	1,496	1.1/2”
FB12J-20-20	31	1.1/4”	20	1.1/4”-11	36,0	1,42	10,0	0,39	50,0	1,969	2”
FB12J-24-24	38	1.1/2”	24	1.1/2”-11	35,8	1,41	12,0	0,47	55,0	2,165	2.3/16”
FB12J-32-32	51	2”	32	2”-11	40,0	1,57	16,0	0,63	70,0	2,756	2.3/4”

Nut type

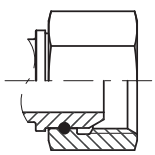
FB13



FB11



FB12



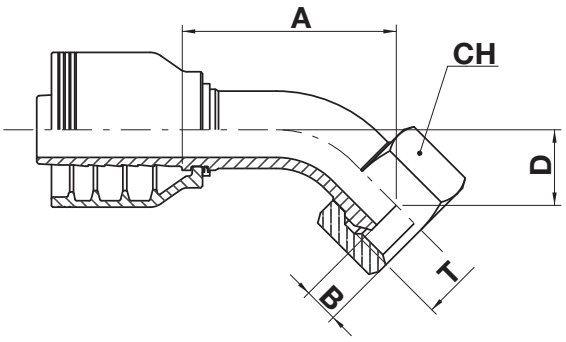
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FB43J FB41J FB42J

BSP female swivel 60° cone - 45° elbow

NO SKIVE

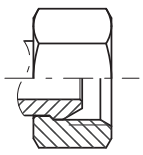
ISO 8434-6 / BS 5200



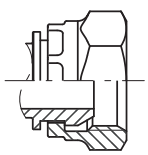
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB43J-06-06	10	3/8”	06	3/8”-19	37,6	1,48	6,0	0,24	14,7	0,58	22,0	0,866	7/8”
FB43J-06-08	10	3/8”	06	1/2”-14	38,6	1,52	6,5	0,26	16,0	0,63	27,0	1,063	1.1/16”
FB43J-08-08	12	1/2”	08	1/2”-14	48,0	1,89	6,5	0,26	18,0	0,71	27,0	1,063	1.1/16”
FB41J-10-10	16	5/8”	10	5/8”-14	60,5	2,38	9,5	0,37	23,3	0,92	30,0	1,181	1.3/16”
FB41J-10-12	16	5/8”	10	3/4”-14	64,0	2,52	8,7	0,34	26,9	1,06	32,0	1,260	1.1/4”
FB41J-12-12	19	3/4”	12	3/4”-14	67,4	2,66	8,7	0,34	26,9	1,06	32,0	1,260	1.1/4”
FB42J-16-16	25	1”	16	1”-11	85,0	3,35	10,5	0,41	35,2	1,39	38,0	1,496	1.1/2”
FB42J-20-20	31	1.1/4”	20	1.1/4”-11	97,0	3,82	10,0	0,39	37,5	1,48	50,0	1,969	2”
FB42J-24-24	38	1.1/2”	24	1.1/2”-11	119,0	4,69	12,0	0,47	51,5	2,03	55,0	2,165	2.3/16”
FB42J-32-32	51	2”	32	2”-11	149,8	5,90	16,0	0,63	60,0	2,36	70,0	2,756	2.3/4”

Nut type

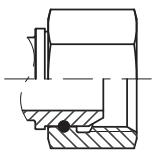
FB43



FB41



FB42



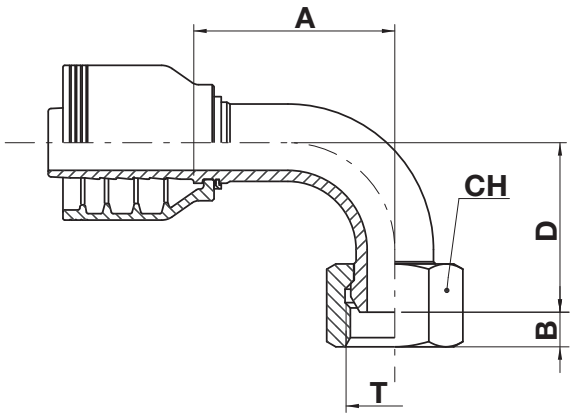
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FB93J FB91J FB92J

BSP female swivel 60° cone - 90° elbow

NO SKIVE

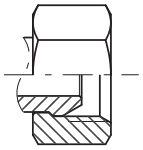
ISO 8434-6 / BS 5200



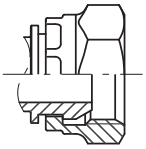
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB93J-06-06	10	3/8”	06	3/8”-19	31,5	1,24	6,0	0,24	29,5	1,16	22,0	0,866	7/8”
FB93J-06-08	10	3/8”	06	1/2”-14	30,3	1,19	6,5	0,26	31,0	1,22	27,0	1,063	1.1/16”
FB93J-08-08	12	1/2”	08	1/2”-14	37,2	1,46	6,5	0,26	36,0	1,41	27,0	1,063	1.1/16”
FB91J-10-10	16	5/8”	10	5/8”-14	54,0	2,13	9,5	0,37	50,0	1,97	30,0	1,181	1.3/16”
FB91J-10-12	16	5/8”	10	3/4”-14	54,0	2,13	8,7	0,34	55,0	2,17	32,0	1,260	1.1/4”
FB91J-12-12	19	3/4”	12	3/4”-14	55,5	2,18	8,7	0,34	55,0	2,17	32,0	1,260	1.1/4”
FB92J-12-16	19	3/4”	12	1”-11	60,5	2,38	10,5	0,41	66,0	2,60	38,0	1,496	1.1/2”
FB92J-16-16	25	1”	16	1”-11	72,0	2,83	10,5	0,41	73,0	2,89	38,0	1,496	1.1/2”
FB92J-20-20	31	1.1/4”	20	1.1/4”-11	87,5	3,44	10,0	0,39	77,0	3,03	50,0	1,969	2”
FB92J-24-24	38	1.1/2”	24	1.1/2”-11	102,0	4,02	12,0	0,47	100,0	3,94	55,0	2,165	2.3/16”
FB92J-32-32	51	2”	32	2”-11	132,0	5,20	16,0	0,63	128,0	5,04	70,0	2,756	2.3/4”

Nut type

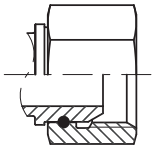
FB93



FB91



FB92



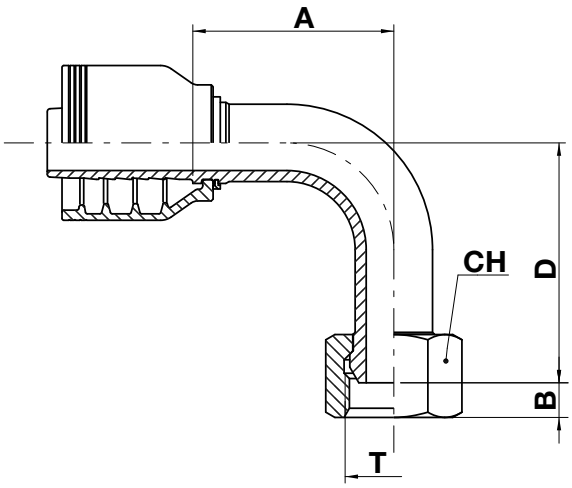
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FB93J-L FB91J-L FB92J-L

BSP female swivel 60° cone - 90° elbow (long drop)

NO SKIVE

ISO 8434-6 / BS 5200

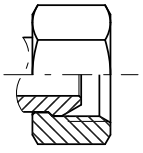


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

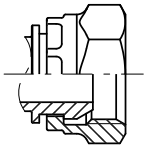
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB91J-12-12-84-2J	19	3/4”	12	3/4”-14	55,5	2,18	8,7	0,34	84,0	3,31	32,0	1,260	1.1/4”
FB92J-16-16-102	25	1”	16	1”-11	72,0	2,83	10,5	0,41	102,0	4,02	38,0	1,496	1.1/2”
FB92J-20-20-118	31	1.1/4”	20	1.1/4”-11	87,5	3,44	10,0	0,39	118,0	4,65	50,0	1,969	2”

Nut type

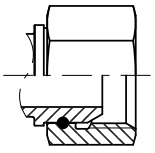
FB93



FB91



FB92



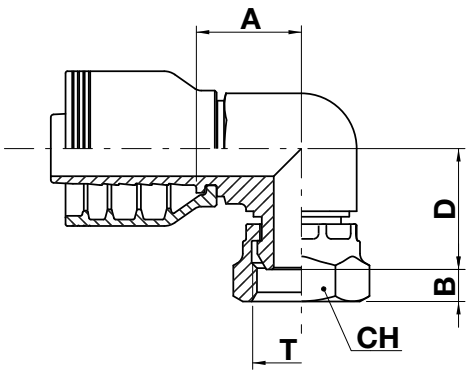
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KM91J

BSP female swivel 60° cone - 90° compact elbow

NO SKIVE

ISO 8434-6 / BS 5200



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KM91J-06-06	10	3/8”	06	3/8”-19	21,5	0,85	5,7	0,22	25,5	1,00	22,0	0,866	7/8”
KM91J-08-08	12	1/2”	08	1/2”-14	25,0	0,98	6,9	0,27	28,5	1,12	27,0	1,063	1.1/16”
KM91J-10-10	16	5/8”	10	5/8”-14	27,0	1,06	9,0	0,35	27,5	1,08	30,0	1,181	1.3/16”
KM91J-12-12	19	3/4”	12	3/4”-14	28,5	1,12	8,7	0,34	32,8	1,29	32,0	1,260	1.1/4”
KM91J-16-16	25	1”	16	1”-11	34,0	1,34	10,5	0,41	37,5	1,48	41,0	1,614	1.5/8”

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

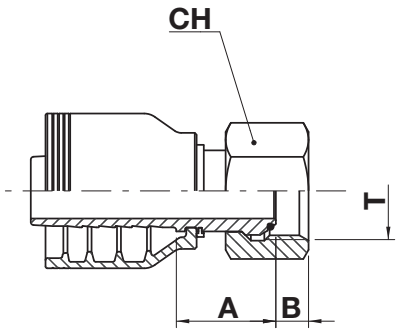
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FO13J FO12J

BSP O-ring female swivel 60° cone

NO SKIVE

ISO 8434-6 / BS 5200

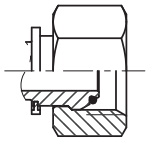


FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

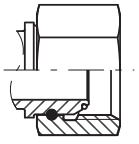
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FO13J-06-06	10	3/8”	06	3/8”-19	19,0	0,75	6,1	0,24	22,0	0,866	7/8”
FO13J-08-08	12	1/2”	08	1/2”-14	21,0	0,83	6,5	0,26	27,0	1,063	1.1/16”
FO12J-10-10	16	5/8”	10	5/8”-14	21,5	0,85	9,5	0,37	30,0	1,181	1.3/16”
FO12J-12-12	19	3/4”	12	3/4”-14	24,0	0,94	8,7	0,34	32,0	1,260	1.1/4”
FO12J-16-16	25	1”	16	1”-11	30,5	1,20	10,5	0,41	38,0	1,496	1.1/2”
FO12J-20-20	31	1.1/4”	20	1.1/4”-11	35,0	1,38	10,0	0,39	50,0	1,969	2”
FO12J-24-24	38	1.1/2”	24	1.1/2”-11	35,8	1,41	12,0	0,47	55,0	2,165	2.3/16”
FO12J-32-32	51	2”	32	2”-11	39,8	1,57	16,0	0,63	70,0	2,756	2.3/4”

Nut type

FO13



FO12



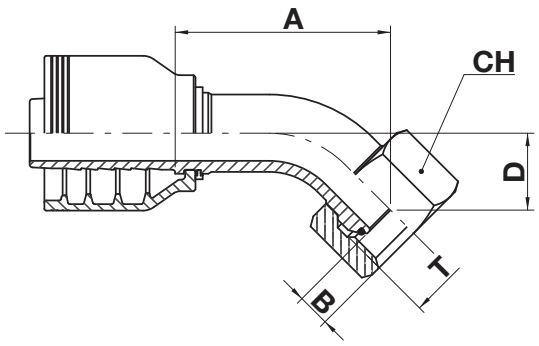
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FO43J FO42J

BSP O-ring female swivel 60° cone - 45° elbow

NO SKIVE

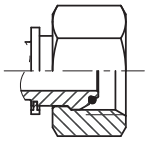
ISO 8434-6 / BS 5200



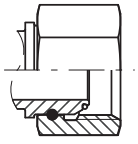
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FO43J-06-06	10	3/8”	06	3/8”-19	37,7	1,48	6,1	0,24	15,0	0,59	22,0	0,866	7/8”
FO43J-08-08	12	1/2”	08	1/2”-14	46,0	1,81	6,5	0,26	18,0	0,71	27,0	1,063	1.1/16”
FO42J-10-10	16	5/8”	10	5/8”-14	63,0	2,48	9,5	0,37	26,0	1,02	30,0	1,181	1.3/16”
FO42J-12-12	19	3/4”	12	3/4”-14	68,9	2,71	8,7	0,34	28,3	1,11	32,0	1,260	1.1/4”
FO42J-16-16	25	1”	16	1”-11	85,0	3,35	10,5	0,41	35,2	1,39	38,0	1,496	1.1/2”
FO42J-20-20	31	1.1/4”	20	1.1/4”-11	97,5	3,84	10,0	0,39	36,3	1,43	50,0	1,969	2”
FO42J-24-24	38	1.1/2”	24	1.1/2”-11	119,0	4,69	12,0	0,47	49,2	1,94	55,0	2,165	2.3/16”
FO42J-32-32	51	2”	32	2”-11	142,2	5,60	16,0	0,63	59,6	2,35	70,0	2,756	2.3/4”

Nut type

FO43



FO42



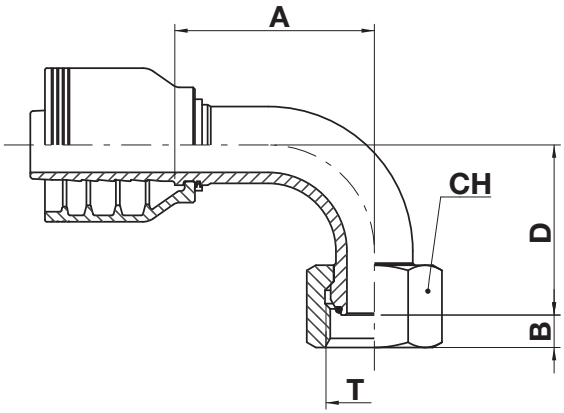
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FO93J FO92J

BSP O-ring female swivel 60° cone - 90° elbow

NO SKIVE

ISO 8434-6 / BS 5200

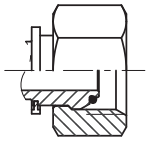


FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

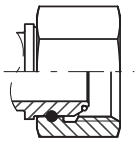
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FO93J-06-06	10	3/8”	06	3/8”-19	31,5	1,24	6,1	0,24	30,0	1,18	22,0	0,866	7/8”
FO93J-08-08	12	1/2”	08	1/2”-14	37,3	1,47	6,5	0,26	36,0	1,42	27,0	1,063	1.1/16”
FO92J-10-10	16	5/8”	10	5/8”-14	54,0	2,13	9,5	0,37	53,5	2,10	30,0	1,181	1.3/16”
FO92J-12-12	19	3/4”	12	3/4”-14	58,0	2,28	8,7	0,34	57,0	2,24	32,0	1,260	1.1/4”
FO92J-16-16	25	1”	16	1”-11	72,0	2,83	10,5	0,41	73,0	2,88	38,0	1,496	1.1/2”
FO92J-20-20	31	1.1/4”	20	1.1/4”-11	82,5	3,25	10,0	0,39	77,0	3,03	50,0	1,969	2”
FO92J-24-24	38	1.1/2”	24	1.1/2”-11	102,0	4,02	12,0	0,47	100,0	3,94	55,0	2,165	2.3/16”
FO92J-32-32	51	2”	32	2”-11	132,0	5,20	16,0	0,63	128,0	5,04	70,0	2,756	2.3/4”

Nut type

FO93



FO92

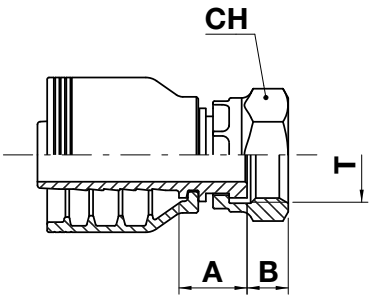


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FP11J FP12J

BSP flat face female swivel

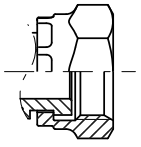
NO SKIVE



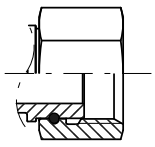
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FP11J-06-06	10	3/8”	06	3/8”-19	15,5	0,61	9,0	0,35	22,0	0,866	7/8”
FP11J-06-08	10	3/8”	06	1/2”-14	16,0	0,63	10,5	0,41	27,0	1,063	1.1/16”
FP11J-12-12	19	3/4”	12	3/4”-14	26,0	1,02	11,5	0,45	32,0	1,260	1.1/4”
FP12J-16-16	25	1”	16	1”-11	26,0	1,02	13,0	0,51	38,0	1,496	1.1/2”

Nut type

FP11



FP12

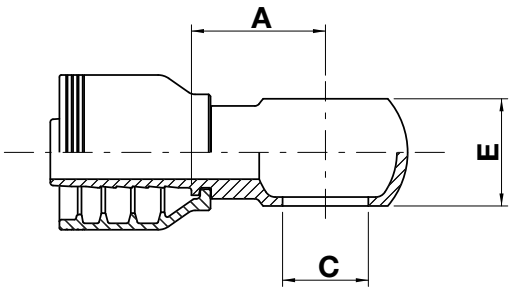


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BB10J

BSP banjo

NO SKIVE



code	ø hose			T	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
BB10J-06-06	10	3/8”	06	3/8”-19	24,0	0,94	16,8	0,66	18,0	0,71
BB10J-06-08	10	3/8”	06	1/2”-14	26,0	1,02	21,0	0,83	22,0	0,87
BB10J-08-08	12	1/2”	08	1/2”-14	27,0	1,06	21,0	0,83	22,0	0,87
BB10J-10-10	16	5/8”	10	5/8”-14	28,0	1,10	23,1	0,91	24,0	0,94
BB10J-12-12	19	3/4”	12	3/4”-14	36,5	1,44	26,5	1,04	29,0	1,14
BB10J-16-16	25	1”	16	1”-11	44,5	1,75	33,5	1,32	37,0	1,46

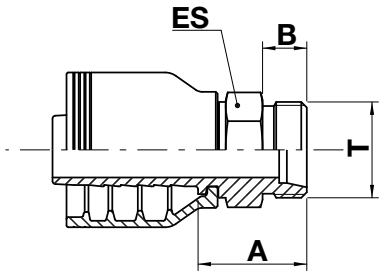
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ML10J

Metric light male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
ML10J-06-16	10	3/8”	06	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10J-06-18	10	3/8”	06	M18X1,5	L12	25,0	0,98	11,0	0,43	19,0	0,748	3/4”
ML10J-06-22	10	3/8”	06	M22X1,5	L15	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
ML10J-08-22	12	1/2”	08	M22X1,5	L15	26,5	1,04	12,0	0,47	22,0	0,866	7/8”
ML10J-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	12,0	0,47	27,0	1,063	1.1/16”
ML10J-12-26	19	3/4”	12	M26X1,5	L18	29,5	1,16	12,0	0,47	27,0	1,063	1.1/16”
ML10J-12-30	19	3/4”	12	M30X2	L22	31,5	1,24	14,0	0,55	30,0	1,181	1.3/16”
ML10J-16-36	25	1”	16	M36X2	L28	34,0	1,34	14,0	0,55	36,0	1,417	1.7/16”
ML10J-20-45	31	1.1/4”	20	M45X2	L35	41,0	1,61	16,0	0,63	46,0	1,811	1.13/16”
ML10J-24-52	38	1.1/2”	24	M52X2	L42	40,4	1,59	16,0	0,63	55,0	2,165	2.3/16”

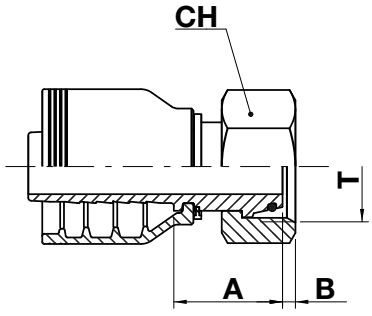
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FL13J FL12J

Metric light female swivel (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865

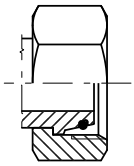


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

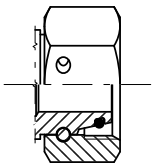
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FL12J-06-16	10	3/8”	06	M16X1,5	L10	23,0	0,91	3,5	0,14	19,0	0,748	3/4”
FL13J-06-18	10	3/8”	06	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL13J-06-22	10	3/8”	06	M22X1,5	L15	28,5	1,12	2,5	0,10	27,0	1,063	1.1/16”
FL13J-08-22	12	1/2”	08	M22X1,5	L15	28,5	1,12	2,5	0,10	27,0	1,063	1.1/16”
FL13J-08-26	12	1/2”	08	M26X1,5	L18	30,0	1,18	2,0	0,08	32,0	1,260	1.1/4”
FL13J-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	2,0	0,08	32,0	1,260	1.1/4”
FL12J-12-26	19	3/4”	12	M26X1,5	L18	25,5	1,00	2,0	0,08	32,0	1,260	1.1/4”
FL13J-12-30	19	3/4”	12	M30X2	L22	29,5	1,16	3,5	0,14	36,0	1,417	1.7/16”
FL13J-16-36	25	1”	16	M36X2	L28	32,0	1,26	3,5	0,14	41,0	1,614	1.5/8”
FL13J-20-45	31	1.1/4”	20	M45X2	L35	39,5	1,56	2,0	0,08	50,0	1,969	2”
FL13J-24-52	38	1.1/2”	24	M52X2	L42	39,5	1,56	3,0	0,12	60,0	2,362	2.3/8”

Nut type

FL13



FL12



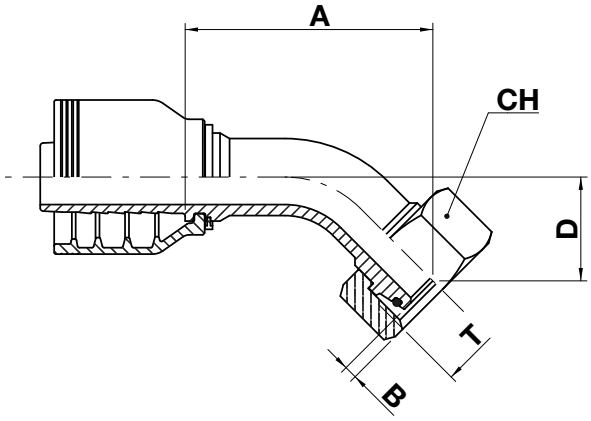
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FL43J FL42J

Metric light female swivel - 45° elbow (24° cone seat)

NO SKIVE

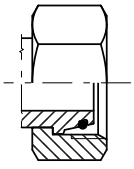
ISO 8434-1 / DIN 3865



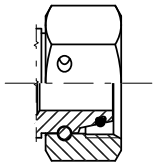
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL42J-06-16	10	3/8”	06	M16X1,5	L10	44,6	1,76	3,5	0,14	14,8	0,58	19,0	0,748	3/4”
FL43J-06-18	10	3/8”	06	M18X1,5	L12	42,6	1,68	1,5	0,06	19,2	0,76	22,0	0,866	7/8”
FL43J-08-22	12	1/2”	08	M22X1,5	L15	48,2	1,90	2,5	0,10	20,8	0,82	27,0	1,063	1,1/16”
FL43J-10-26	16	5/8”	10	M26X1,5	L18	62,5	2,46	2,0	0,08	25,5	1,00	32,0	1,260	1,1/4”
FL42J-12-26	19	3/4”	12	M26X1,5	L18	70	2,75	2,0	0,08	28,8	1,13	32,0	1,260	1,1/4”
FL43J-12-30	19	3/4”	12	M30X2	L22	67,5	2,66	3,5	0,14	28,3	1,11	36,0	1,417	1,7/16”
FL43J-16-36	25	1”	16	M36X2	L28	85,0	3,35	3,5	0,14	33,1	1,30	41,0	1,614	1.5/8”
FL43J-20-45	31	1.1/4”	20	M45X2	L35	102,5	4,04	2,0	0,08	41,7	1,64	50,0	1,969	2”
FL43J-24-52	38	1.1/2”	24	M52X2	L42	121,0	4,76	3,0	0,12	46,0	1,81	60,0	2,362	2.3/8”

Nut type

FL43



FL42



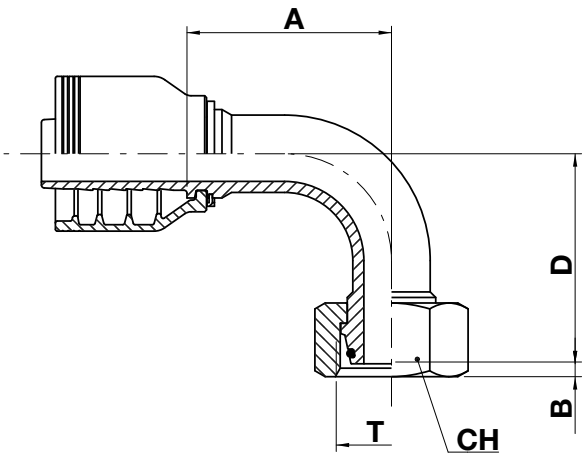
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FL93J FL92J

Metric light female swivel - 90° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865

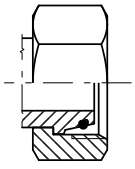


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

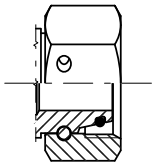
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL92J-06-16	10	3/8”	06	M16X1,5	L10	34,0	1,34	1,5	0,06	39,5	1,56	19,0	0,748	3/4”
FL93J-06-18	10	3/8”	06	M18X1,5	L12	30,5	1,20	1,5	0,06	36,0	1,42	22,0	0,866	7/8”
FL93J-08-22	12	1/2”	08	M22X1,5	L15	38,2	1,50	2,5	0,10	40,0	1,57	27,0	1,063	1,1/16”
FL93J-10-26	16	5/8”	10	M26X1,5	L18	54,0	2,13	2,0	0,08	53,0	2,09	32,0	1,260	1,1/4”
FL92J-12-26	19	3/4”	12	M26X1,5	L18	55,5	2,18	2,0	0,08	28,8	1,13	32,0	1,260	1,1/4”
FL93J-12-30	19	3/4”	12	M30X2	L22	55,5	2,18	3,5	0,14	57,0	2,24	36,0	1,417	1,7/16”
FL93J-16-36	25	1”	16	M36X2	L28	74,0	2,91	3,5	0,14	69,0	2,72	41,0	1,614	1,5/8”
FL93J-20-45	31	1.1/4”	20	M45X2	L35	85,5	3,37	2,0	0,08	83,0	3,27	50,0	1,969	2”
FL93J-24-52	38	1.1/2”	24	M52X2	L42	103,0	4,05	3,0	0,12	95,5	3,76	60,0	2,362	2.3/8”

Nut type

FL93



FL92



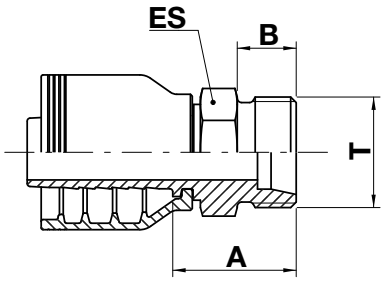
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MS10J

Metric heavy male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
MS10J-06-18	10	3/8”	06	M18X1,5	S10	26,0	1,02	12,0	0,47	19,0	0,748	3/4”
MS10J-06-20	10	3/8”	06	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10J-06-22	10	3/8”	06	M22X1,5	S14	28,0	1,10	14,0	0,55	22,0	0,866	7/8”
MS10J-06-24	10	3/8”	06	M24X1,5	S16	28,0	1,10	14,0	0,55	24,0	0,945	15/16”
MS10J-08-24	12	1/2”	08	M24X1,5	S16	28,5	1,12	14,0	0,55	240	0,945	15/16”
MS10J-10-30	16	5/8”	10	M30X2	S20	33,0	1,30	16,0	0,63	30,0	1,181	1.3/16”
MS10J-12-30	19	3/4”	12	M30X2	S20	33,5	1,32	16,0	0,63	30,0	1,181	1.3/16”
MS10J-12-36	19	3/4”	12	M36X2	S25	36,5	1,44	18,0	0,71	36,0	1,417	1.7/16”
MS10J-16-36	25	1”	16	M36X2	S25	38,0	1,50	18,0	0,71	36,0	1,417	1.7/16”
MS10J-16-42	25	1”	16	M42X2	S30	41,0	1,61	20,0	0,79	46,0	1,811	1.13/16”
MS10J-20-52	31	1.1/4”	20	M52X2	S38	50,0	1,97	22,0	0,87	55,0	2,165	2.3/16”
MS10J-24-52	38	1.1/2”	24	M52X2	S38	50,0	1,97	22,0	0,87	55,0	2,165	2.3/16”

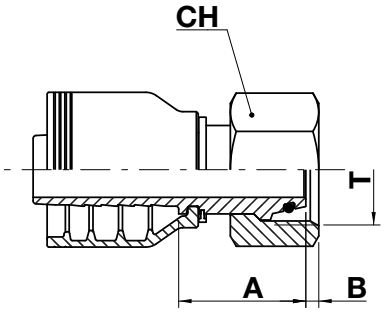
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FS13J FS12J

Metric heavy female swivel (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865

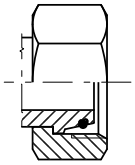


FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

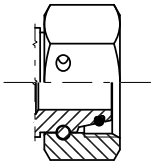
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FS13J-06-18	10	3/8”	06	M18X1,5	S10	24,0	0,945	2,0	0,08	22,0	0,866	7/8”
FS13J-06-20	10	3/8”	06	M20X1,5	S12	26,5	1,04	2,0	0,08	24,0	0,945	15/16”
FS13J-06-22	10	3/8”	06	M22X1,5	S14	29,5	1,16	4,0	0,16	27,0	1,063	1.1/16”
FS12J-08-20	12	1/2”	08	M20X1,5	S12	27,0	1,06	2,0	0,08	24,0	0,945	15/16”
FS13J-08-24	12	1/2”	08	M24X1,5	S16	33,0	1,30	3,0	0,12	30,0	1,181	1.3/16”
FS13J-10-30	16	5/8”	10	M30X2	S20	34,0	1,34	3,2	0,12	36,0	1,417	1.7/16”
FS13J-10-36	16	5/8”	10	M36X2	S25	43,0	1,69	3,0	0,12	46,0	1,811	1,13/16”
FS13J-12-30	19	3/4”	12	M30X2	S20	34.5	1,36	3,2	0,12	36,0	1,417	1.7/16”
FS13J-12-36	19	3/4”	12	M36X2	S25	39,5	1,56	3,0	0,12	46,0	1,811	1.13/16”
FS13J-16-36	25	1”	16	M36X2	S25	42,0	1,65	3,0	0,12	46,0	1,811	1.13/16”
FS13J-16-42	25	1”	16	M42X2	S30	43,0	1,69	6,0	0,24	50,0	1,969	2”
FS12J-20-42	31	1.1/4”	20	M42X2	S30	36,0	1,42	6,0	0,24	50,0	1,969	2”
FS13J-20-52	31	1.1/4”	20	M52X2	S38	48,0	1,89	6,5	0,26	60,0	2,362	2.3/8”
FS13J-24-52	38	1.1/2”	24	M52X2	S38	48,0	1,89	6,5	0,26	60,0	2,362	2.3/8”

Nut type

FS13



FS12



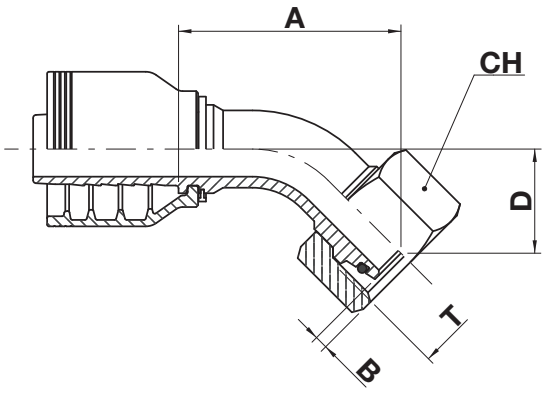
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FS43J

Metric heavy female swivel - 45° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS43J-06-20	10	3/8”	06	M20X1,5	S12	42,0	1,65	2,0	0,08	19,2	0,76	24,0	0,945	15/16”
FS43J-06-22	10	3/8”	06	M22X1,5	S14	45,0	1,77	4,0	0,16	22,0	0,87	27,0	1,063	1.1/16”
FS43J-08-24	12	1/2”	08	M24X1,5	S16	50,0	1,97	3,0	0,12	22,6	0,89	30,0	1,181	1.3/16”
FS43J-10-30	16	5/8”	10	M30X2	S20	64,0	2,52	3,5	0,14	26,9	1,06	36,0	1,417	1.7/16”
FS43J-12-30	19	3/4”	12	M30X2	S20	67,5	2,66	3,2	0,12	28,3	1,11	36,0	1,417	1.7/16”
FS43J-12-36	19	3/4”	12	M36X2	S25	68,9	2,71	3,0	0,12	30,4	1,19	46,0	1,811	1.13/16”
FS43J-16-36	25	1”	16	M36X2	S25	87,0	3,42	3,0	0,12	34,8	1,37	46,0	1,811	1.13”/16”
FS43J-16-42	25	1”	16	M42X2	S30	89,0	3,50	6,0	0,24	37,3	1,47	50,0	1,969	2”
FS43J-20-52	31	1.1/4”	20	M52X2	S38	121,3	4,78	6,5	0,26	45,6	1,80	60,0	2,362	2.3/8”
FS43J-24-52	38	1.1/2”	24	M52X2	S38	121,0	4,76	6,5	0,26	50,2	1,98	60,0	2,362	2.3/8”

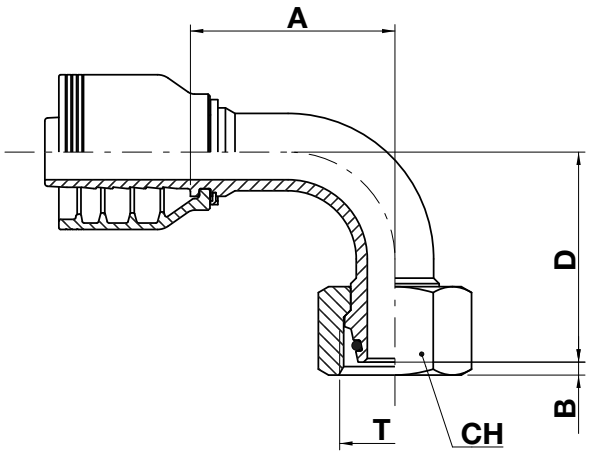
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FS93J

Metric heavy female swivel - 90° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

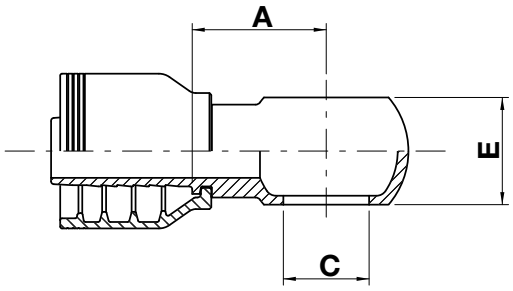
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS93J-06-18	10	3/8”	06	M18X1,5	S10	30,5	1,20	2,0	0,08	36,0	1,42	22,0	0,866	7/8”
FS93J-06-20	10	3/8”	06	M20X1,5	S12	30,5	1,20	2,0	0,08	36,0	1,42	24,0	0,945	15/16”
FS93J-06-22	10	3/8”	06	M22X1,5	S14	31,5	1,24	4,0	0,16	40,0	1,57	27,0	1,063	1.1/16”
FS93J-08-24	12	1/2”	08	M24X1,5	S16	38,2	1,50	3,0	0,12	42,5	1,67	30,0	1,181	1.3/16”
FS93J-10-30	16	5/8”	10	M30X2	S20	54,0	2,13	3,2	0,12	55,0	2,17	36,0	1,417	1.7/16”
FS93J-12-30	19	3/4”	12	M30X2	S20	55,5	2,19	3,2	0,12	57,0	2,24	36,0	1,417	1.7/16”
FS93J-12-36	19	3/4”	12	M36X2	S25	55,5	2,18	3,0	0,12	60,0	2,36	46,0	1,811	1.13/16”
FS93J-16-36	25	1”	16	M36X2	S25	74,0	2,91	3,0	0,12	71,5	2,81	46,0	1,811	1.13/16”
FS93J-16-42	25	1”	16	M42X2	S30	74,0	2,91	6,0	0,24	75,0	2.95	50,0	1,969	2”
FS93J-20-52	31	1.1/4”	20	M52X2	S38	102,0	4,02	6,5	0,26	95,6	3,76	60,0	2,362	2.3/8”
FS93J-24-52	38	1.1/2”	24	M52X2	S38	103,0	4,06	6,5	0,26	101,5	4,00	60,0	2,362	2.3/8”

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BM10J

Metric banjo

NO SKIVE



code	ø hose			T	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
BM10J-06-14	10	3/8”	06	M14X1,5	24,5	0,96	14,2	0,56	14,0	0,55
BM10J-06-16	10	3/8”	06	M16X1,5	24,0	0,94	16,2	0,64	18,0	0,71
BM10J-06-18	10	3/8”	06	M18X1,5	27,5	1,08	18,2	0,72	20,0	0,79
BM10J-06-22	10	3/8”	06	M22X1,5	26,5	1,04	22,2	0,87	22,0	0,87
BM10J-10-22	16	5/8”	10	M22X1,5	28,0	1,10	22,2	0,87	22,0	0,87
BM10J-12-26	19	3/4”	12	M26X1,5	36,5	1,44	26,2	1,03	29,0	1,14
BM10J-16-30	25	1”	16	M30X1,5	44,5	1,75	30,2	1,19	37,0	1,46

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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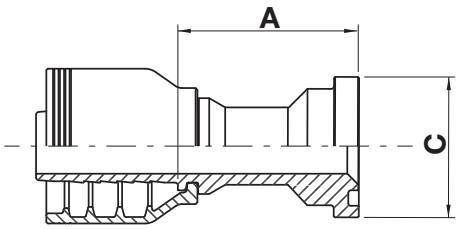
AX10J

SAE 3000 code 61 straight flange

NO SKIVE

ISO 6162-1 / SAE J518-1

FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
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LOK-IT



code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AX10J-08-08	12	1/2”	08	1/2”	38,0	1,50	30,2	1,19
AX10J-08-12	12	1/2”	08	3/4”	39,0	1,54	38,1	1,50
AX10J-10-12	16	5/8”	10	3/4”	39,0	1,54	38,1	1,50
AX10J-12-12	19	3/4”	12	3/4”	39,5	1,56	38,1	1,50
AX10J-12-16	19	3/4”	12	1”	46,0	1,81	44,5	1,75
AX10J-12-20	19	3/4”	12	1.1/4”	47,0	1,85	50,8	2,00
AX10J-16-16	25	1”	16	1”	47,6	1,87	44,5	1,75
AX10J-16-20	25	1”	16	1.1/4”	48,5	1,91	50,8	2,00
AX10J-16-24	25	1”	16	1.1/2”	53,0	2,09	60,4	2,38
AX10J-20-16	31	1.1/4”	20	1”	51,5	2,03	44,5	1,75
AX10J-20-20	31	1.1/4”	20	1.1/4”	49,5	1,95	50,8	2,00
AX10J-20-24	31	1.1/4”	20	1.1/2”	53,0	2,09	60,3	2,37
AX10J-20-32	31	1.1/4”	20	2”	76,5	3,01	71,4	2,81
AX10J-24-24	38	1.1/2”	24	1.1/2”	53,1	2,09	60,3	2,37
AX10J-24-32	38	1.1/2”	24	2”	74,5	2,93	71,4	2,81
AX10J-32-24	51	2”	32	1.1/2”	89,0	3,50	60,3	2,37
AX10J-32-32	51	2”	32	2”	78,5	3,09	71,4	2,81
AX10J-32-40	51	2”	32	2.1/2”	78,5	3,09	84,1	3,31
AX10J-40-40	63	2.1/2”	40	2.1/2”	90,0	3,54	84,1	3,31
AX10J-40-48	63	2.1/2”	40	3”	90,0	3,54	101,6	4,00
AX10J-48-48	76	3”	48	3”	64,5	2,54	101,6	4,00

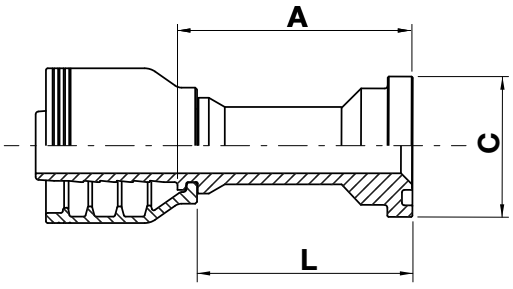
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AX10J-L

SAE 3000 code 61 straight flange (long reach version)

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		L	
	dn	inch	size		mm	in	mm	in	mm	in
AX10J-12-12-65	19	3/4”	12	3/4”	72,0	2,83	38,1	1,50	65,0	2,56
AX10J-12-16-64	19	3/4”	12	1”	71,0	2,80	44,5	1,75	64,0	2,52
AX10J-16-16-65	25	1”	16	1”	72,0	283	44,5	1,75	65,0	2,56
AX10J-16-20-73	25	1”	16	1.1/4”	80,0	3,15	50,8	2,00	73,0	2,87
AX10J-20-20-57	31	1.1/4”	20	1.1/4”	67,0	2,64	50,8	2,00	57,0	2,24
AX10J-20-20-73	31	1.1/4”	20	1.1/4”	82,9	3,26	50,8	2,00	73,0	2,87
AX10J-24-24-83	38	1.1/2”	24	1.1/2”	91,0	3,58	60,4	2,38	83,0	3,27
AX10J-32-32-88	51	2”	32	2”	97,7	3,85	71,4	2,81	88,0	3,46

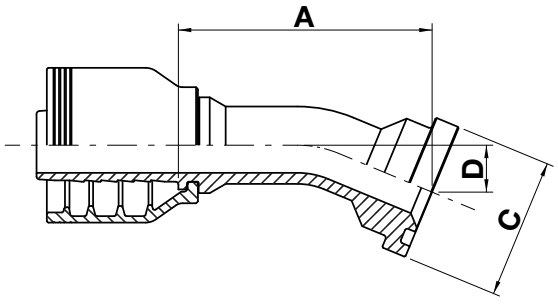
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AX20J

SAE 3000 code 61 - 22,5° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX20J-08-08	12	1/2”	08	1/2”	55,3	2,18	30,2	1,19	10,2	0,40
AX20J-08-12	12	1/2”	08	3/4”	59,9	2,36	38,1	1,50	12,2	0,48
AX20J-12-12	19	3/4”	12	3/4”	68,9	2,71	38,1	1,50	12,7	0,50
AX20J-12-16	19	3/4”	12	1”	65,9	2,60	44,5	1,75	13,3	0,52
AX20J-16-16	25	1”	16	1”	72,0	2,83	44,5	1,75	11,5	0,45
AX20J-16-20	25	1”	16	1.1/4”	74,0	2,91	50,8	2,00	12,6	0,50
AX20J-20-20	31	1.1/4”	20	1.1/4”	96,5	3,80	50,8	2,00	13,5	0,53
AX20J-20-24	31	1.1/4”	20	1.1/2”	86,0	3,39	60,3	2,37	13,5	0,53
AX20J-24-24	38	1.1/2”	24	1.1/2”	99,0	3,90	60,3	2,37	17,2	0,68
AX20J-24-32	38	1.1/2”	24	2”	99,0	3,90	71,4	2,81	17,2	0,68
AX20J-32-32	51	2”	32	2”	133,3	5,25	71,4	2,81	23,0	0,91
AX20J-32-40	51	2”	32	2.1/2”	146,7	5,78	84,1	3,31	26,6	1,05
AX20J-40-40	63	2.1/2”	40	2.1/2”	105,0	4,13	84,1	3,31	18,6	0,73
AX20J-40-48	63	2.1/2”	40	3”	105,0	4,13	101,6	4,00	18,6	0,73
AX20J-48-48-21	76	3”	48	3”	113,0	4,49	101,6	4,00	21,0	0,83

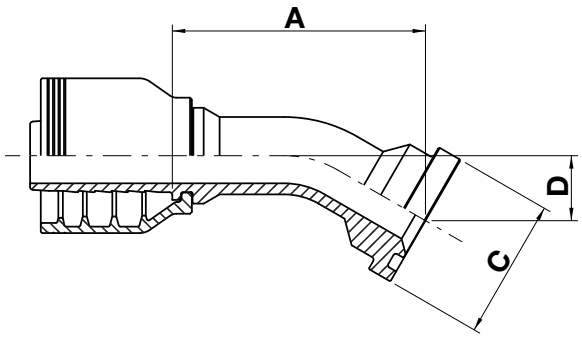
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AX30J

SAE 3000 code 61 - 30° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX30J-08-08	12	1/2”	08	1/2”	55,7	2,19	30,2	1,19	14,2	0,56
AX30J-08-12	12	1/2”	08	3/4”	60,1	2,37	38,1	1,50	16,7	0,66
AX30J-12-12	19	3/4”	12	3/4”	68,7	2,70	38,1	1,50	17,6	0,69
AX30J-12-16	19	3/4”	12	1”	67,1	2,64	44,5	1,75	18,4	0,72
AX30J-16-16	25	1”	16	1”	77,0	3,03	44,5	1,75	16,5	0,65
AX30J-16-20	25	1”	16	1.1/4”	72,0	2,83	50,8	2,00	17,7	070
AX30J-20-20	31	1.1/4”	20	1.1/4”	94,5	3,72	50,8	2,00	19,0	0,75
AX30J-20-24	31	1.1/4”	20	1.1/2”	90,0	3,54	60,3	2,37	19,0	0,75
AX30J-24-24	38	1.1/2”	24	1.1/2”	103,0	4,06	60,3	2,37	24,2	0,96
AX30J-24-32	38	1.1/2”	24	2”	103,0	4,06	71,4	2,81	24,2	0,96
AX30J-32-32	51	2”	32	2.1/2”	140,3	5,52	71,4	2,81	32,0	1,26
AX30J-40-40	63	2.1/2”	40	3”	114,4	4,50	84,1	3,31	27,7	1,09
AX30J-48-48-30	76	3”	48	3”	121,2	4,78	101,6	4,00	30,7	1,21

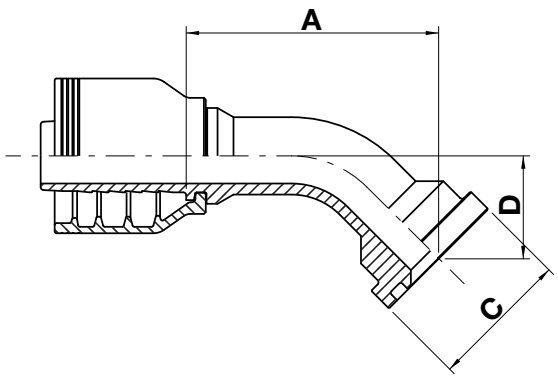
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AX40J

SAE 3000 code 61 - 45° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX40J-08-08	12	1/2”	08	1/2”	55,2	2,17	30,2	1,19	21,9	0,86
AX40J-08-12	12	1/2”	08	3/4”	60,1	2,37	38,1	1,50	24,3	0,96
AX40J-10-12	16	5/8”	10	3/4”	66,0	2,60	38,1	1,50	26,9	1,06
AX40J-12-12	19	3/4”	12	3/4”	68,5	2,70	38,1	1,50	27,9	1,10
AX40J-12-16	19	3/4”	12	1”	70,5	2,77	44,5	1,75	29,0	1,14
AX40J-12-20	19	3/4”	12	1.1/4”	70,5	2,78	50,8	2,00	30,6	1,20
AX40J-16-16	25	1”	16	1”	74,4	2,93	44,5	1,75	27,0	1,06
AX40J-16-20	25	1”	16	1.1/4”	76,2	3,00	50,8	2,00	29,0	1,14
AX40J-20-16	31	1.1/4”	20	1”	115,5	4,55	44,5	1,75	43,8	1,72
AX40J-20-20	31	1.1/4”	20	1.1/4”	88,0	3,46	50,8	2,00	31,1	1,22
AX40J-20-24	31	1.1/4”	20	1.1/2”	90,0	3,54	60,3	2,37	31,0	1,22
AX40J-24-24	38	1.1/2”	24	1.1/2”	100,0	3,94	60,3	2,37	39,4	1,55
AX40J-24-32	38	1.1/2”	24	2”	105,0	4,13	71,4	2,81	39,4	1,55
AX40J-32-24	51	2”	32	1.1/2”	122,3	4,81	60,3	2,37	39,4	1,55
AX40J-32-32	51	2”	32	2”	142,3	5,60	71,4	2,81	53,0	2,09
AX40J-32-40	51	2”	32	2.1/2”	164,0	6,46	84,1	3,31	61,0	2,40
AX40J-40-40	63	2.1/2”	40	2.1/2”	134,4	5,29	84,1	3,31	49,0	1,93
AX40J-40-48	63	2.1/2”	40	3”	137,9	5,43	101,6	4,00	52,5	2,07
AX40J-48-48-57	76	3”	48	3”	145,9	5,74	101,6	4,00	57,6	2,27

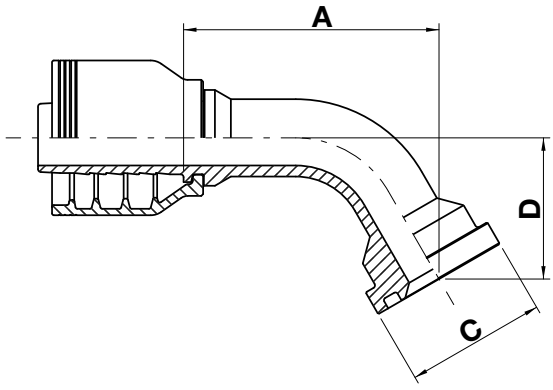
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AX60J

SAE 3000 code 61 - 60° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX60J-08-08	12	1/2”	08	1/2”	70,7	2,78	30,2	1,19	30,0	1,18
AX60J-08-12	12	1/2”	08	3/4”	73,2	2,88	38,1	1,50	34,5	1,36
AX60J-12-12	19	3/4”	12	3/4”	69,3	2,73	38,1	1,50	38,3	1,51
AX60J-12-16	19	3/4”	12	1”	66,5	2,62	44,5	1,75	39,6	1,56
AX60J-12-20	19	3/4”	12	1.1/4”	76,5	3,01	50,8	2,00	42,0	1,65
AX60J-16-16	25	1”	16	1”	78,7	3,10	44,5	1,75	40,0	1,58
AX60J-16-20	25	1”	16	1.1/4”	84,0	3,31	50,8	2,00	40,0	1,57
AX60J-20-20	31	1.1/4”	20	1.1/4”	94,6	3,72	50,8	2,00	43,9	1,73
AX60J-20-24	31	1.1/4”	20	1.1/2”	97,8	3,85	60,3	2,37	43,8	1,72
AX60J-24-24	38	1.1/2”	24	1.1/2”	114,0	4,49	60,3	2,37	52,0	2,05
AX60J-24-32	38	1.1/2”	24	2”	114,0	4,49	71,4	2,81	55,3	2,18
AX60J-32-32	51	2”	32	2”	157,3	6,19	71,4	2,81	76,0	2,99
AX60J-40-40	63	2.1/2”	40	2.1/2”	138,3	5,44	84,1	3,31	73,4	2,89
AX60J-40-48	63	2.1/2”	40	3”	138,3	5,44	101,6	4,00	73,4	2,89
AX60J-48-48-83	76	3”	48	3”	152	5,98	101,6	4,00	83,0	3,27

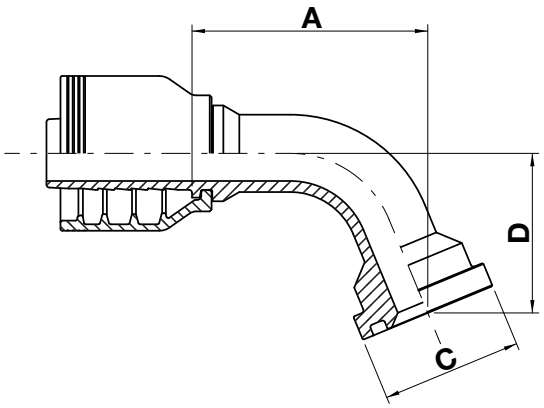
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AX70J

SAE 3000 code 61 - 67,5° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX70J-08-08	12	1/2”	08	1/2”	66,2	2,61	30,2	1,19	34,0	1,34
AX70J-08-12	12	1/2”	08	3/4”	68,2	2,69	30,2	1,19	38,8	1,53
AX70J-12-12	19	3/4”	12	3/4”	64,0	2,52	38,1	1,50	43,3	1,70
AX70J-12-16	19	3/4”	12	1”	64,5	2,54	44,5	1,75	44,7	1,76
AX70J-16-16	25	1”	16	1”	76,0	2,99	44,5	1,75	46,0	1,81
AX70J-16-20	25	1”	16	1.1/4”	81,0	3,19	50,8	2,00	45,6	1,80
AX70J-20-20	31	1.1/4”	20	1.1/4”	93,5	3,68	50,8	2,00	50,3	1,98
AX70J-20-24	31	1.1/4”	20	1.1/2”	95,6	3,76	60,3	2,37	50,2	1,98
AX70J-24-24	38	1.1/2”	24	1.1/2”	108,5	4,27	60,3	2,37	59,5	2,34
AX70J-24-32	38	1.1/2”	24	2”	111,0	4,37	71,4	2,81	63,0	2,48
AX70J-32-32	51	2”	32	2”	155,3	6,11	71,4	2,81	87,5	3,44
AX70J-40-40	63	2.1/2”	40	2.1/2”	140,4	5,53	84,1	3,31	86,3	3,40
AX70J-40-48	63	2.1/2”	40	3”	140,4	5,53	101,6	4,00	86,3	3,40
AX70J-48-48-98	76	3”	48	3”	154,7	6,09	101,6	4,0	98,0	3,86

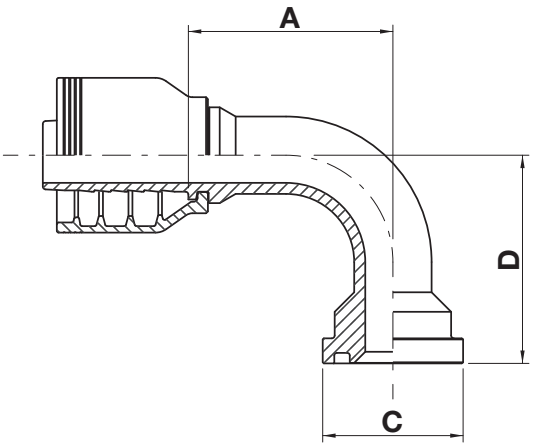
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AX90J

SAE 3000 code 61 - 90° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX90J-08-08	12	1/2”	08	1/2”	46,5	1,83	30,2	1,19	45,0	1,77
AX90J-08-12	12	1/2”	08	3/4”	49,0	2,00	38,1	1,50	49,5	1,95
AX90J-10-12	16	5/8”	10	3/4”	55,5	2,19	38,1	1,50	55,0	2,17
AX90J-12-12	19	3/4”	12	3/4”	55,5	2,19	38,1	1,50	56,5	2,22
AX90J-12-16	19	3/4”	12	1”	55,5	2,19	44,5	1,75	58,0	2,28
AX90J-12-20	19	3/4”	12	1.1/4”	62,2	2,45	50,8	2,00	62,0	2,44
AX90J-16-16	25	1”	16	1”	70,0	2,76	44,5	1,75	61,0	2,40
AX90J-16-20	25	1”	16	1.1/4”	69,9	2,75	50,8	2,00	61,0	2,40
AX90J-16-24	25	1”	16	1.1/2”	79,0	3,11	60,3	2,37	73,0	2,87
AX90J-20-16	31	1.1/4”	20	1”	102,0	4,02	44,5	1,75	93,0	3,66
AX90J-20-20	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	69,2	2,72
AX90J-20-24	31	1.1/4”	20	1.1/2”	85,0	3,35	60,3	2,37	69,2	2,72
AX90J-24-24	38	1.1/2”	24	1.1/2”	104,0	4,09	60,3	2,37	81,0	3,19
AX90J-24-32	38	1.1/2”	24	2”	102,0	4,02	71,4	2,81	85,0	3,35
AX90J-32-24	51	2”	32	1.1/2”	115,0	4,53	60,4	2,38	81,0	3,19
AX90J-32-32	51	2”	32	2”	132,3	5,21	71,4	2,81	123,0	4,84
AX90J-32-40	51	2”	32	2.1/2”	151,0	5,94	84,1	3,31	132,0	5,20
AX90J-40-40	63	2.1/2”	40	2.1/2”	136,2	5,36	84,1	3,31	125,0	4,92
AX90J-40-48	63	2.1/2”	40	3”	136,2	5,36	101,6	4,00	125,0	4,92
AX90J-48-48	76	3”	48	3”	132,7	5,22	101,6	4,00	114,0	4,49

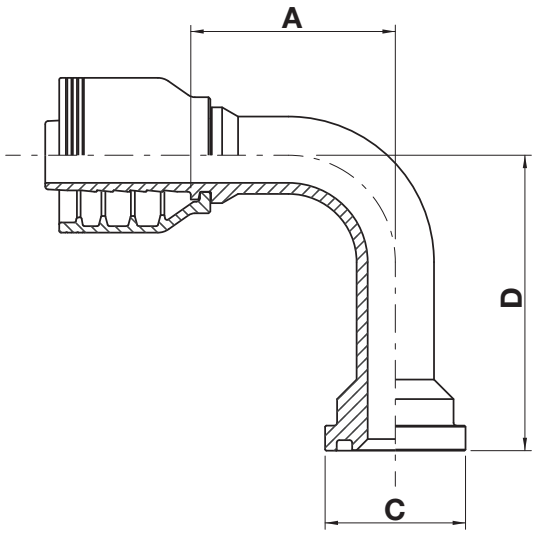
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AX90J-L

SAE 3000 code 61 - 90° elbow flange (long drop)

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX90J-12-12-95	19	3/4”	12	3/4”	62,2	2,45	38,1	1,50	95,0	3,74
AX90J-12-12-100	19	3/4”	12	3/4”	62,2	2,45	38,1	1,50	100,0	3,94
AX90J-12-12-125	19	3/4”	12	3/4”	62,2	2,45	38,1	1,50	125,0	4,92
AX90J-12-16-100	19	3/4”	12	1”	61,2	2,41	44,5	1,75	100,0	3,94
AX90J-12-16-120	19	3/4”	12	1”	61,2	2,41	44,5	1,75	120,0	4,72
AX90J-16-16-120	25	1”	16	1”	79,0	3,11	44,5	1,75	120,0	4,72
AX90J-16-16-170	25	1”	16	1”	79,0	3,11	44,5	1,75	170,0	6,69
AX90J-16-20-120	25	1”	16	1.1/4”	75,0	2,95	50,8	2,00	120,0	4,72
AX90J-20-20-100	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	100,0	3,94
AX90J-20-20-120	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	120,0	4,72
AX90J-20-20-130	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	130,0	5,12
AX90J-20-20-170	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	170,0	6,69
AX90J-20-24-117	31	1.1/4”	20	1.1/2”	89,0	3,50	60,3	2,37	117,0	4,61
AX90J-20-24-130	31	1.1/4”	20	1.1/2”	87,0	3,43	60,3	2,37	130,0	5,12
AX90J-20-24-170	31	1.1/4”	20	1.1/2”	89,0	3,50	60,3	2,37	170,0	6,69
AX90J-24-24-150	38	1.1/2”	24	1.1/2”	104,0	4,09	60,3	2,37	150,0	5,91
AX90J-24-24-170	38	1.1/2”	24	1.1/2”	104,0	4,09	60,3	2,37	170,0	6,69
AX90J-24-32-114	38	1.1/2”	24	2”	106,0	4,17	71,4	2,81	114,0	4,49
AX90J-32-24-120	51	2”	32	1.1/2”	115,0	4,53	60,3	2,37	120,0	4,72

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← AX90J-L

NO SKIVE

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX90J-32-24-220	51	2”	32	1.1/2”	115,0	4,53	60,3	2,37	220,0	8,66
AX90J-32-32-165	51	2”	32	2”	143,0	5,63	71,4	2,81	165,0	6,50
AX90J-32-32-203	51	2”	32	2”	132,3	5,21	71,4	2,81	203,0	7,99
AX90J-40-32-121	63	2.1/2”	40	2”	117,0	4,60	71,4	2,81	121,0	4,76
AX90J-48-48-145	76	3”	48	3”	151,8	5,98	101,6	4,00	145,0	5,71

FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

←

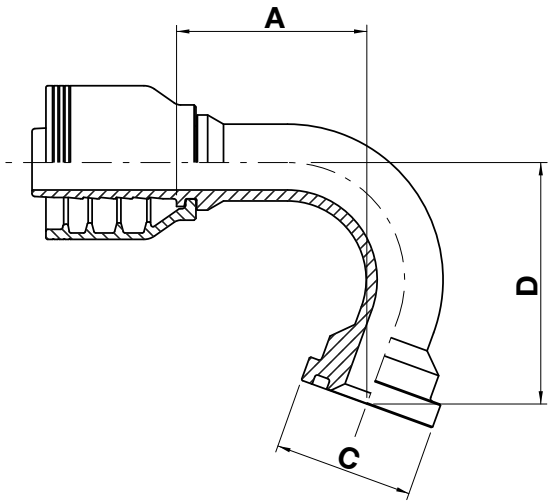
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AX110J

SAE 3000 code 61 - 110° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX110J-12-12	19	3/4”	12	3/4”	52,0	2,05	38,1	1,50	66,0	2,60
AX110J-16-16	25	1”	16	1”	84,0	3,31	44,5	1,75	78,0	3,07
AX110J-16-20-133	25	1”	16	1.1/4”	42,3	1,66	50,8	2,00	133,0	5,24
AX110J-20-20	31	1.1/4”	20	1.1/4”	76,0	2,99	50,8	2,00	81,5	3,21
AX110J-20-24	31	1.1/4”	20	1.1/2”	76,0	2,99	60,3	2,37	81,5	3,21
AX110J-24-24	38	1.1/2”	24	1.1/2”	90,0	3,54	60,3	2,37	96,2	3,79
AX110J-24-24-118	38	1.1/2”	24	1.1/2”	82,5	3,25	60,3	2,37	118,0	4,65
AX110J-32-24	51	2”	32	1.1/2”	105,0	4,13	60,3	2,37	96,2	3,79
AX110J-32-32	51	2”	32	2”	118,8	4,68	71,4	2,81	145,0	5,71

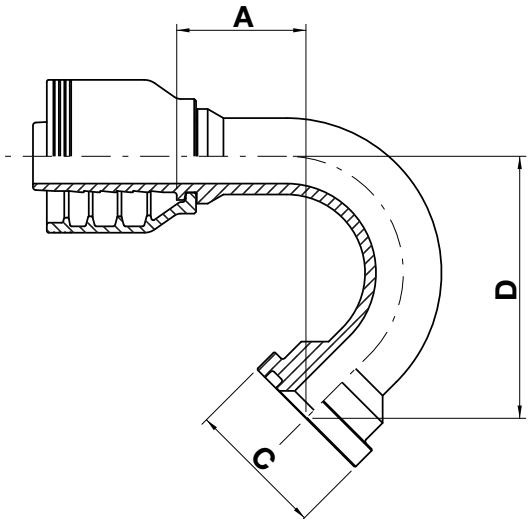
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AX135J

SAE 3000 code 61 - 135° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX135J-12-12	19	3/4”	12	3/4”	35,5	1,40	38,1	1,50	72,0	2,83
AX135J-16-16	25	1”	16	1”	73,7	2,90	44,5	1,75	87,3	3,44
AX135J-20-20	31	1.1/4”	20	1.1/4”	79,5	3,13	50,8	2,00	89,0	3,50
AX135J-24-24	38	1.1/2”	24	1.1/2”	83,0	3,27	60,3	2,37	110,0	4,33
AX135J-32-32	51	2”	32	2”	104,0	4,10	71,4	2,81	160,0	6,30

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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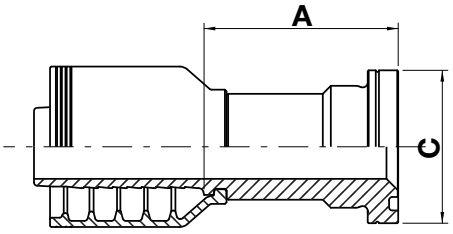
AY10J

SAE 6000 code 62 straight flange

NO SKIVE

ISO 6162-2 / SAE J518-2

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT



code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AY10J-08-08	12	1/2”	08	1/2”	46,0	1,81	31,7	1,25
AY10J-08-12	12	1/2”	08	3/4”	43,8	1,72	41,3	1,63
AY10J-10-08	16	5/8”	10	1/2”	42,5	1,67	31,7	1,25
AY10J-10-12	16	5/8”	10	3/4”	43,0	1,69	41,3	1,63
AY10J-12-12	19	3/4”	12	3/4”	43,5	1,71	41,3	1,63
AY10J-12-16	19	3/4”	12	1”	59,0	2,32	47,6	1,88
AY10J-16-12	25	1”	16	3/4”	56,0	2,2	41,3	1,63
AY10J-16-16	25	1”	16	1”	60,5	2,38	47,6	1,88
AY10J-16-20	25	1”	16	1.1/4”	67,5	2,66	54,0	2,13
AY10J-20-16	31	1.1/4”	20	1”	67,5	2,66	47,6	1,87
AY10J-20-20	31	1.1/4”	20	1.1/4”	72,0	2,83	54,0	2,13
AY10J-20-24	31	1.1/4”	20	1.1/2”	81,5	3,21	63,5	2,50
AY10J-24-20	38	1.1/2”	24	1.1/4”	70,0	2,76	54,0	2,13
AY10J-24-24	38	1.1/2”	24	1.1/2”	76,0	2,99	63,5	2,50
AY10J-24-32	38	1.1/2”	24	2”	78,0	3,07	79,4	3,13
AY10J-32-32	51	2”	32	2”	88,5	3,48	79,4	3,13
AY10J-40-40	63	2.1/2”	40	2.1/2”	131,0	5,16	107,7	4,24
AY10J-48-48	76	3”	48	3”	222,5	8,76	131,7	5,19

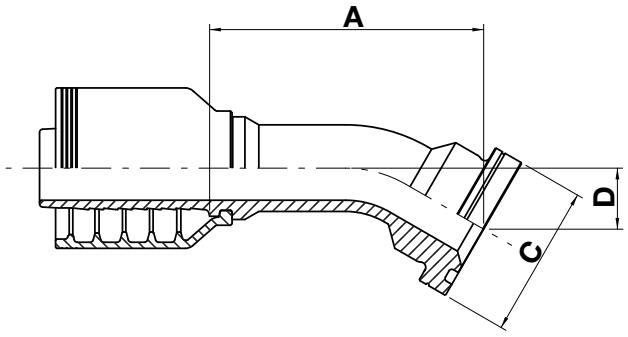
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AY30J

SAE 6000 code 62 - 30° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY30J-16-16	25	1”	16	1”	90,0	3,54	47,6	1,87	19,0	0,75
AY30J-16-20	25	1”	16	1,1/4”	101,0	3,98	54,0	2,13	25,0	0,98
AY30J-20-20	31	1.1/4”	20	1.1/4”	124,5	4,90	54,0	2,13	27,1	1,07
AY30J-24-24	38	1.1/2”	24	1.1/2”	119,5	4,70	60,3	2,37	29,0	1,14
AY30J-32-32	51	2”	32	2”	160,5	6,32	79,4	3,13	39,0	1,54

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

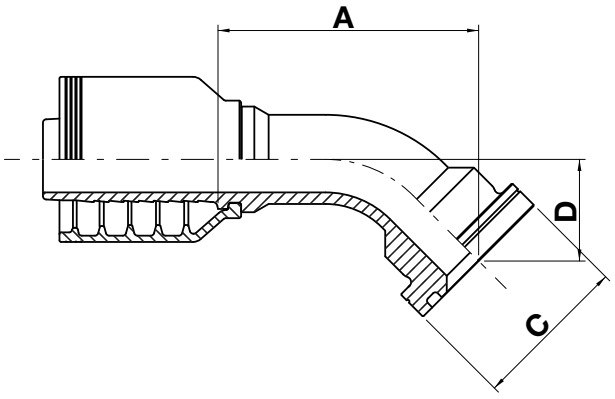
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AY40J

SAE 6000 code 62 - 45° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY40J-08-08	12	1/2”	08	1/2”	56,0	2,20	31,7	1,25	23,3	0,92
AY40J-08-12	12	1/2”	08	3/4”	66,5	2,62	41,3	1,63	30,0	1,18
AY40J-10-08	16	5/8”	10	1/2”	70,0	2,75	31,7	1,25	24,8	0,97
AY40J-10-12	16	5/8”	10	3/4”	68,0	2,68	41,3	1,63	29,0	1,14
AY40J-12-12	19	3/4”	12	3/4”	68,7	2,70	41,3	1,63	27,9	1,10
AY40J-12-16	19	3/4”	12	1”	74,7	2,94	47,6	1,90	33,9	1,33
AY40J-16-12	25	1”	16	3/4”	86,0	3,38	41,3	1,63	31,8	1,25
AY40J-16-16	25	1”	16	1”	78,9	3,11	47,6	1,88	30,8	1,21
AY40J-16-20	25	1”	16	1.1/4”	92,0	3,62	54,0	2,13	39,0	1,54
AY40J-20-16	31	1.1/4”	20	1”	115,5	4,55	47,6	1,90	38,1	1,50
AY40J-20-20	31	1.1/4”	20	1.1/4”	115,5	4,55	54,0	2,13	43,8	1,72
AY40J-20-24	31	1.1/4”	20	1.1/2”	117,5	4,63	63,5	2,50	48,0	1,89
AY40J-24-20	38	1.1/2”	24	1.1/4”	114,2	4,50	54,0	2,13	43,8	1,72
AY40J-24-24	38	1.1/2”	24	1.1/2”	126,0	4,96	63,5	2,50	47,4	1,87
AY40J-24-32	38	1.1/2”	24	2”	133,8	5,27	79,4	3,13	57,7	2,27
AY40J-32-24	51	2”	32	1.1/2”	150,4	5,92	63,5	2,50	47,4	1,87
AY40J-32-32	51	2”	32	2”	169,0	6,65	79,4	3,13	64,0	2,52

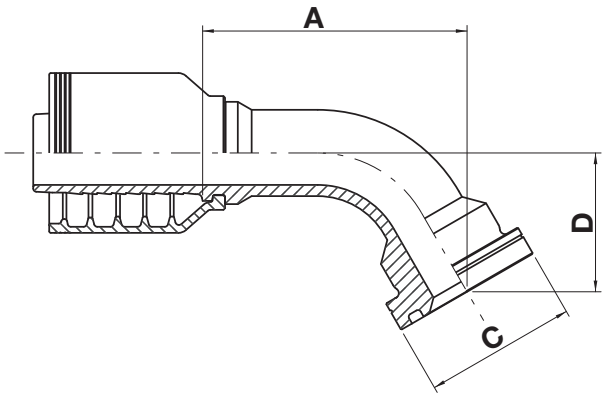
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AY60J

SAE 6000 code 62 - 60° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY60J-16-16	25	1”	16	3/4”	101,4	3,99	47,6	1,88	43,4	1,71
AY60J-16-20	25	1”	16	1.1/4”	112,7	4,44	54,0	2,13	54,7	2,15
AY60J-20-20	31	1.1/4”	20	1.1/4”	112,5	4,43	54,0	2,13	55,1	2,17
AY60J-24-24	38	1.1/2”	24	1.1/2”	132,0	5,19	63,5	2,50	67,0	2,64
AY60J-32-32	51	2”	32	2”	170,6	6,72	79,4	3,13	90,0	3,54

FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

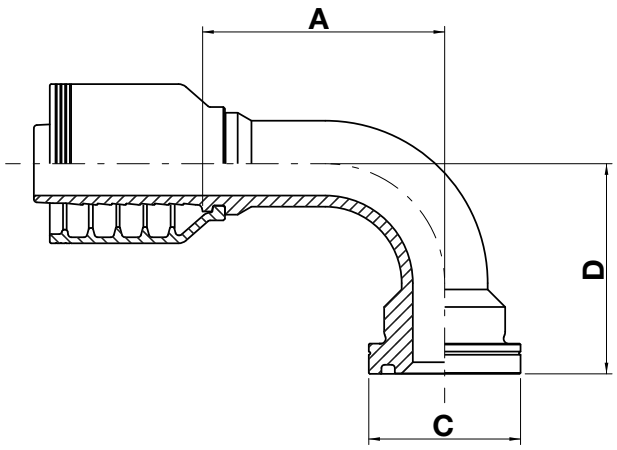
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AY90J

SAE 6000 code 62 - 90° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY90J-08-08	12	1/2”	08	1/2”	49,7	1,96	31,7	1,25	47,0	1,85
AY90J-08-12	12	1/2”	08	3/4”	46,2	1,82	41,3	1,63	56,0	2,20
AY90J-10-08	16	5/8”	10	1/2”	55,0	2,16	31,7	1,25	52,0	2,05
AY90J-10-12	16	5/8”	10	3/4”	53,5	2,11	41,3	1,63	58,0	2,28
AY90J-12-12	19	3/4”	12	3/4”	55,5	2,19	41,3	1,63	56,5	2,22
AY90J-12-16	19	3/4”	12	1”	55,5	2,19	47,6	1,88	65,0	2,56
AY90J-16-16	25	1”	16	1”	76,0	2,99	47,6	1,88	66,0	2,60
AY90J-16-20	25	1”	16	1.1/4”	78,0	3,07	54,0	2,13	80,5	3,17
AY90J-20-16	31	1.1/4”	20	1”	104,0	4,09	47,6	1,87	85,0	3,35
AY90J-20-20	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	86,0	3,39
AY90J-20-24	31	1.1/4”	20	1.1/2”	104,2	4,10	63,5	2,50	98,0	3,86
AY90J-24-24	38	1.1/2”	24	1.1/2”	111,0	4,37	63,5	2,50	104,0	4,09
AY90J-24-32	38	1.1/2”	24	2”	113,0	4,45	79,4	3,13	119,5	4,70
AY90J-32-32	51	2”	32	2”	149,3	5,88	79,4	3,13	134,0	5,28

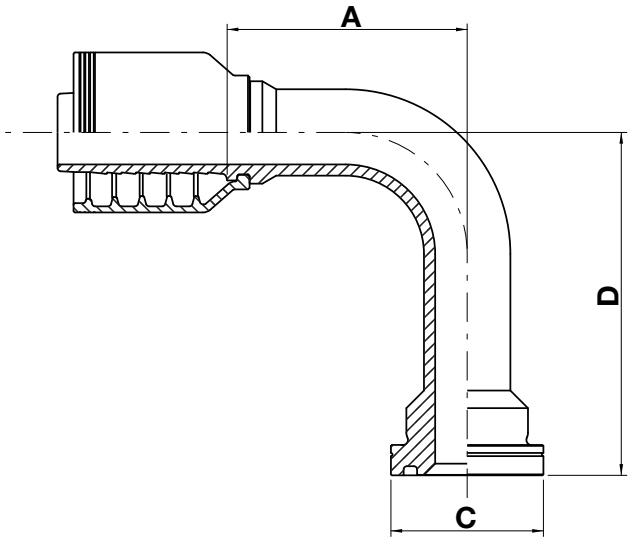
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AY90J-L

SAE 6000 code 62 - 90° elbow flange (long drop)

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY90J-16-16-120	25	1”	16	1”	75,0	2,95	47,6	1,9	120,0	4,72
AY90J-16-20-120	25	1”	16	1.1/4”	78,5	3,09	54,0	2,13	120,0	4,72
AY90J-20-20-130	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	130,0	5,12
AY90J-20-20-150	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	150,0	5,91

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

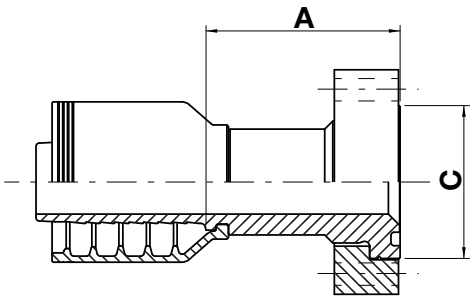
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AY13J

SAE 6000 code 62 straight flange and captive pre-assembled counterflange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AY13J-08-08	12	1/2”	08	1/2”	46,0	1,81	31,7	1,25
AY13J-08-12	12	1/2”	08	3/4”	43,8	1,72	41,3	1,63
AY13J-10-08	16	5/8”	10	1/2”	42,5	1,67	31,7	1,25
AY13J-10-12	16	5/8”	10	3/4”	43,0	1,69	41,3	1,63
AY13J-12-12	19	3/4”	12	3/4”	43,5	1,71	41,3	1,63
AY13J-12-16	19	3/4”	12	1”	59,0	2,32	47,6	1,88
AY13J-16-12	25	1”	16	3/4”	56,0	2,2	41,3	1,63
AY13J-16-16	25	1”	16	1”	60,5	2,38	47,6	1,88
AY13J-16-20	25	1”	16	1.1/4”	67,5	2,66	54,0	2,13
AY13J-20-16	31	1.1/4”	20	1”	67,5	2,66	47,6	1,87
AY13J-20-20	31	1.1/4”	20	1.1/4”	72,0	2,83	54,0	2,13
AY13J-20-24	31	1.1/4”	20	1.1/2”	81,5	3,21	63,5	2,50
AY13J-24-20	38	1.1/2”	24	1.1/4”	70,0	2,76	54,0	2,13
AY13J-24-24	38	1.1/2”	24	1.1/2”	76,0	2,99	63,5	2,50
AY13J-24-32	38	1.1/2”	24	2”	78,0	3,07	79,4	3,13
AY13J-32-32	51	2”	32	2”	88,5	3,48	79,4	3,13
AY13J-40-40	63	2.1/2”	40	2.1/2”	131,0	5,16	107,7	4,24
AY13J-48-48	76	3”	48	3”	222,5	8,76	131,7	5,19

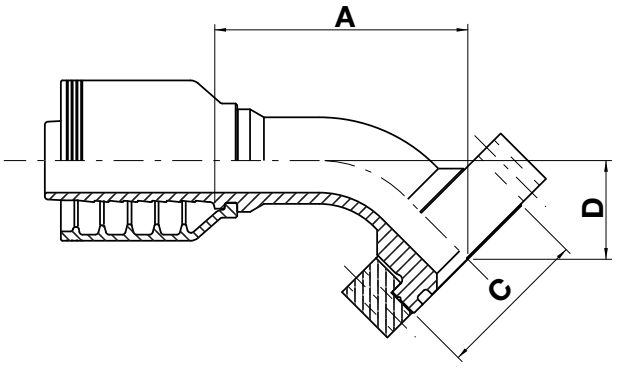
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AY43J

SAE 6000 code 62 - 45° elbow flange and captive pre-assembled counterflange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY43J-08-08	12	1/2”	08	1/2”	56,0	2,20	31,7	1,25	23,3	0,92
AY43J-08-12	12	1/2”	08	3/4”	66,5	2,62	41,3	1,63	30,0	1,18
AY43J-10-08	16	5/8”	10	1/2”	70,0	2,75	31,7	1,25	24,8	0,97
AY43J-10-12	16	5/8”	10	3/4”	68,0	2,68	41,3	1,63	29,0	1,14
AY43J-12-12	19	3/4”	12	3/4”	68,7	2,70	41,3	1,63	27,9	1,10
AY43J-12-16	19	3/4”	12	1”	74,7	2,94	47,6	1,90	33,9	1,33
AY43J-16-12	25	1”	16	3/4”	86,0	3,38	41,3	1,63	31,8	1,25
AY43J-16-16	25	1”	16	1”	78,9	3,11	47,6	1,88	30,8	1,21
AY43J-16-20	25	1”	16	1.1/4”	92,0	3,62	54,0	2,13	39,0	1,54
AY43J-20-16	31	1.1/4”	20	1”	115,5	4,55	47,6	1,90	38,1	1,50
AY43J-20-20	31	1.1/4”	20	1.1/4”	115,5	4,55	54,0	2,13	43,8	1,72
AY43J-20-24	31	1.1/4”	20	1.1/2”	117,5	4,63	63,5	2,50	48,0	1,89
AY43J-24-20	38	1.1/2”	24	1.1/4”	114,2	4,50	54,0	2,13	43,8	1,72
AY43J-24-24	38	1.1/2”	24	1.1/2”	126,0	4,96	63,5	2,50	47,4	1,87
AY43J-24-32	38	1.1/2”	24	2”	133,8	5,27	79,4	3,13	57,7	2,27
AY43J-32-24	51	2”	32	1.1/2”	150,4	5,92	63,5	2,50	47,4	1,87
AY43J-32-32	51	2”	32	2”	169,0	6,65	79,4	3,13	64,0	2,52

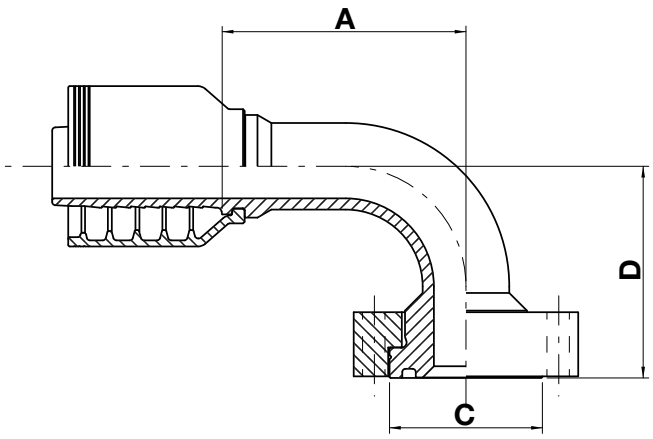
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AY93J

SAE 6000 code 62 - 90° elbow flange and captive pre-assembled counterflange

NO SKIVE

ISO 6162-2 / SAE J518-2



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

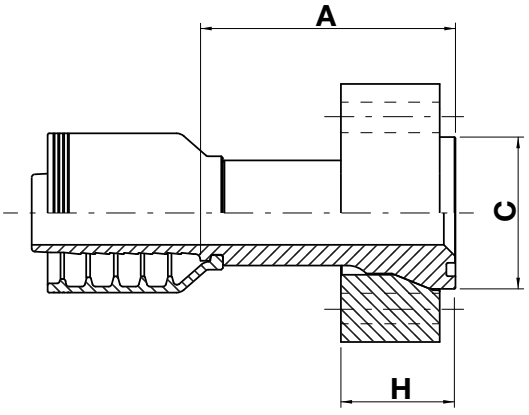
code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY93J-08-08	12	1/2”	08	1/2”	49,7	1,96	31,7	1,25	47,0	1,85
AY93J-08-12	12	1/2”	08	3/4”	46,2	1,82	41,3	1,63	56,0	2,20
AY93J-10-08	16	5/8”	10	1/2”	55,0	2,16	31,7	1,25	52,0	2,05
AY93J-10-12	16	5/8”	10	3/4”	53,5	2,11	41,3	1,63	58,0	2,28
AY93J-12-12	19	3/4”	12	3/4”	55,5	2,19	41,3	1,63	56,5	2,22
AY93J-12-16	19	3/4”	12	1”	55,5	2,19	47,6	1,88	78,0	3,07
AY93J-16-16	25	1”	16	1”	76,0	2,99	47,6	1,88	66,0	2,60
AY93J-16-20	25	1”	16	1.1/4”	78,0	3,07	54,0	2,13	80,5	3,17
AY93J-20-16	31	1.1/4”	20	1”	104,0	4,09	47,6	1,87	85,0	3,35
AY93J-20-20	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	86,0	3,39
AY93J-20-24	31	1.1/4”	20	1.1/2”	104,2	4,10	63,5	2,50	98,0	3,86
AY93J-24-24	38	1.1/2”	24	1.1/2”	111,0	4,37	63,5	2,50	104,0	4,09
AY93J-24-32	38	1.1/2”	24	2”	113,0	4,45	79,4	3,13	119,5	4,70
AY93J-32-32	51	2”	32	2”	149,3	5,88	79,4	3,13	134,0	5,28

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AL13J

Tapered SAE straight flange

NO SKIVE



code	ø hose			flange	A		C		H	
	dn	inch	size		mm	in	mm	in	mm	in
AL13J-16-16	25	1”	16	1”	80,0	3,15	47,6	1,87	36,0	1,42
AL13J-16-20	25	1”	16	1.1/4”	79,0	3,11	54,0	2,12	43,0	1,69
AL13J-20-20	32	1.1/4”	20	1.1/4”	82	3,23	54,0	2,12	43,0	1,69

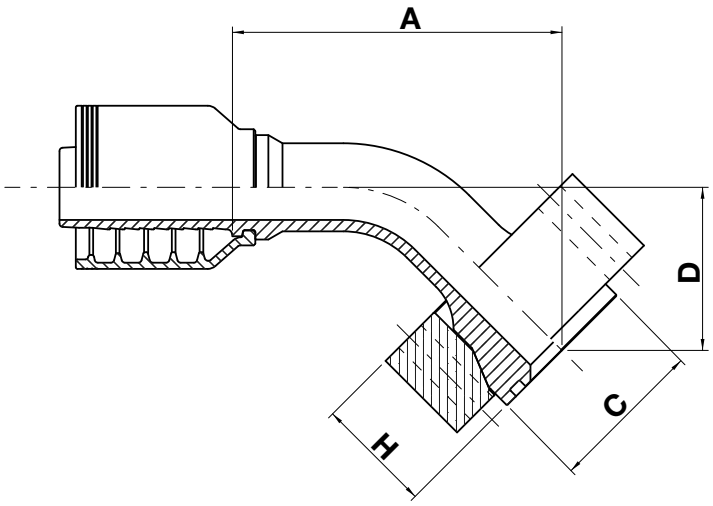
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AL43J

Tapered SAE - 45° elbow flange

NO SKIVE



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

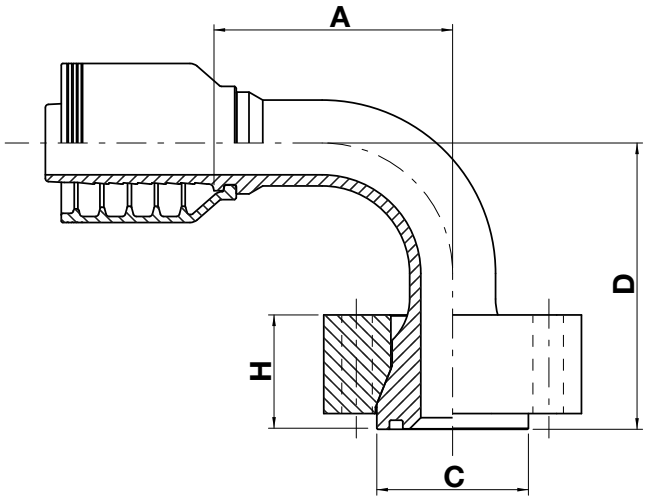
code	ø hose			flange	A		D		C		H	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AL43J-16-16	25	1”	16	1”	101,0	3,98	50,0	1,97	47,6	1,87	36,0	1,42
AL43J-16-20	25	1”	16	1.1/4”	104,0	4,09	50,0	1,97	54,0	2,12	43,0	1,69
AL43J-20-20	32	1.1/4”	20	1.1/4”	127,0	5,00	60,0	2,36	54,0	2,12	43,0	1,69

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AL93J

Tapered SAE - 90° elbow flange

NO SKIVE



code	ø hose			flange	A		D		C		H	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AL93J-16-16	25	1”	16	1”	75,0	2,95	90,0	3,54	47,6	1,87	36,0	1,42
AL93J-16-20	25	1”	16	1.1/4”	81,0	3,19	105,0	4,13	54,0	2,12	43,0	1,69
AL93J-20-20	32	1.1/4”	20	1.1/4”	98,0	3,86	120,0	4,74	54,0	2,12	43,0	1,69

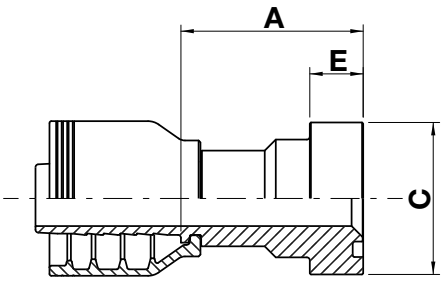
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
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AY1CJ

“SUPERCAT” style straight flange

NO SKIVE



FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

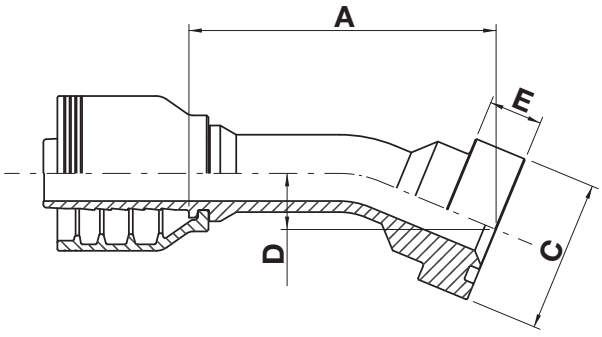
code	ø hose			flange	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
AY1CJ-12-12	19	3/4”	12	3/4”	49,5	1,95	41,3	1,63	14,5	0,57
AY1CJ-12-16	19	3/4”	12	1”	64,0	2,51	47,6	1,87	14,5	0,57
AY1CJ-16-16	25	1”	16	1”	65,5	2,58	47,6	1,88	14,5	0,57
AY1CJ-16-20	25	1”	16	1.1/4”	73,0	2,87	54,0	2,13	14,5	0,57
AY1CJ-20-20	31	1.1/4”	20	1.1/4”	76,0	2,99	54,0	2,13	14,5	0,57
AY1CJ-20-24	31	1.1/4”	20	1.1/2”	83,5	3,29	63,5	2,50	14,5	0,57
AY1CJ-24-24	38	1.1/2”	24	1.1/2”	78,0	3,07	63,5	2,50	14,5	0,57
AY1CJ-32-32	51	2”	32	2”	90,5	3,56	79,4	3,13	14,5	0,57

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AY2CJ

“SUPERCAT” style - 22,5° elbow flange

NO SKIVE



code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY2CJ-12-12	19	3/4”	12	3/4”	83,4	3,28	41,3	1,63	15,2	0,60	14,5	0,57
AY2CJ-16-16	25	1”	16	1”	92,1	3,63	47,6	1,87	16,0	0,63	14,5	0,57
AY2CJ-16-20	25	1”	16	1.1/4”	106,4	4,19	54,0	2,13	19,8	0,78	14,5	0,57
AY2CJ-20-20	31	1.1/4”	20	1.1/4”	131,5	5,18	54,0	2,13	21,0	0,83	14,5	0,57
AY2CJ-20-24	31	1.1/4”	20	1.1/2”	133,0	5,24	63,5	2,50	22,0	0,87	14,5	0,57
AY2CJ-24-24	38	1.1/2”	24	1.1/2”	140,5	5,53	63,5	2,50	21,3	0,84	14,5	0,57
AY2CJ-32-32	51	2”	32	2”	154,6	6,09	79,4	3,13	28,5	1,12	14,5	0,57

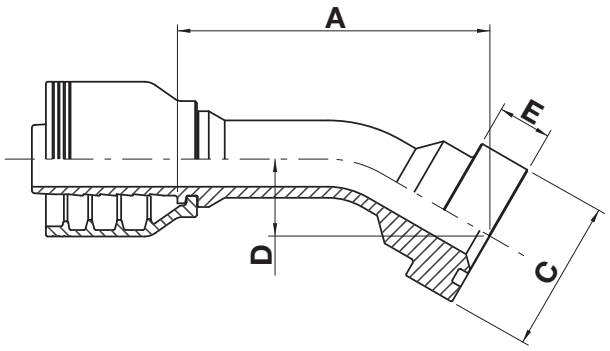
FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AY3CJ

“SUPERCAT” style - 30° elbow flange

NO SKIVE



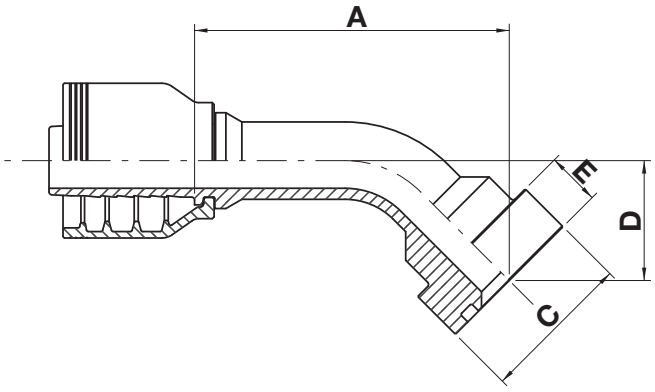
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY3CJ-12-12	19	3/4”	12	3/4”	84,8	3,34	41,3	1,63	20,9	0,82	14,5	0,57
AY3CJ-16-16	25	1”	16	1”	89,7	3,53	47,6	1,87	22,0	0,87	14,5	0,57
AY3CJ-16-20	25	1”	16	1.1/4”	103,7	4,08	54,0	2,13	27,2	1,07	14,5	0,57
AY3CJ-20-20	31	1.1/4”	20	1.1/4”	128,5	5,06	54,0	2,13	29,0	1,14	14,5	0,57
AY3CJ-20-24	31	1.1/4”	20	1.1/2”	129,5	5,01	63,5	2,50	30,6	1,20	14,5	0,57
AY3CJ-24-24	38	1.1/2”	24	1.1/2”	137,0	5,39	63,5	2,50	29,5	1,18	14,5	0,57
AY3CJ-32-32	51	2”	32	2”	161,0	6,34	79,4	3,13	40,0	1,57	14,5	0,57

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AY4CJ

“SUPERCAT” style - 45° elbow flange

NO SKIVE



code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY4CJ-12-12	19	3/4”	12	3/4”	72,5	2,85	41,3	1,63	32,5	1,27	14,5	0,57
AY4CJ-12-16	19	3/4”	12	1”	80,7	3,18	47,6	1,87	37,5	1,48	14,5	0,57
AY4CJ-16-16	25	1”	16	1”	82,2	3,24	47,6	1,87	35,0	1,38	14,5	0,57
AY4CJ-16-20	25	1”	16	1.1/4”	95,0	3,74	54,0	2,13	42,8	1,69	14,5	0,57
AY4CJ-20-16	31	1.1/4”	20	1”	119,0	4,69	47,6	1,87	41,7	1,64	14,5	0,57
AY4CJ-20-20	31	1.1/4”	20	1.1/4”	118,5	4,67	54,0	2,13	46,5	1,83	14,5	0,57
AY4CJ-20-24	31	1.1/4”	20	1.1/2”	119,0	4,69	63,5	2,50	48,8	1,92	14,5	0,57
AY4CJ-24-24	38	1.1/2”	24	1.1/2”	127,0	5,00	63,5	2,50	48,9	1,93	14,5	0,57
AY4CJ-32-32	51	2”	32	2”	169,0	6,66	79,4	3,13	65,3	2,57	14,5	0,57

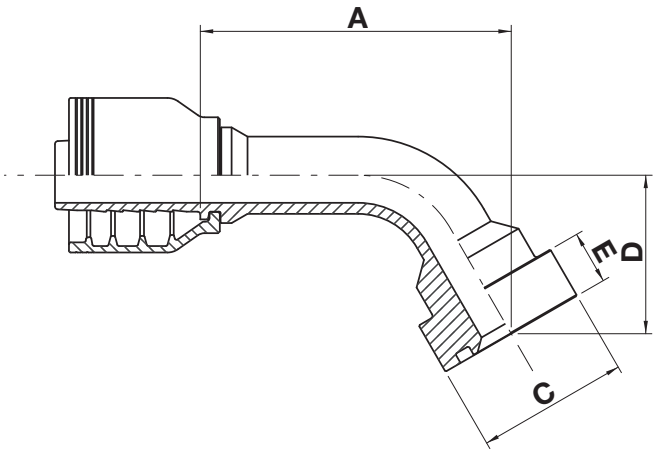
FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
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LOK-IT

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AY6CJ

“SUPERCAT” style - 60° elbow flange

NO SKIVE



FITTING
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JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

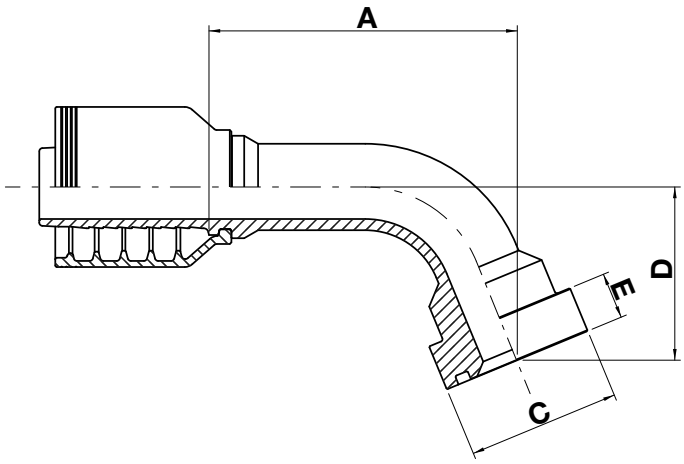
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY6CJ-12-12	19	3/4”	12	3/4”	84,5	3,32	41,3	1,63	43,1	1,70	14,5	0,57
AY6CJ-16-16	25	1”	16	1”	103,0	4,05	47,6	1,87	48,0	1,89	14,5	0,57
AY6CJ-16-20	25	1”	16	1.1/4”	94,0	3,70	54,0	2,13	58,2	2,29	14,5	0,57
AY6CJ-20-20	31	1.1/4”	20	1.1/4”	114,5	4,51	54,0	2,13	59,0	2,32	14,5	0,57
AY6CJ-20-24	31	1.1/4”	20	1.1/2”	137,0	5,39	63,5	2,50	67,2	2,65	14,5	0,57
AY6CJ-24-24	38	1.1/2”	24	1.1/2”	157,0	6,18	63,5	2,50	68,7	2,70	14,5	0,57
AY6CJ-32-32	51	2”	32	2”	169,2	6,66	79,4	3,13	91,7	3,61	14,5	0,57

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AY7CJ

“SUPERCAT” style - 67,5° elbow flange

NO SKIVE



code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY7CJ-12-12	19	3/4”	12	3/4”	82,3	3,24	41,3	1,63	48,4	1,90	14,5	0,57
AY7CJ-16-16	25	1”	16	1”	96,3	3,79	47,6	1,87	54,0	2,13	14,5	0,57
AY7CJ-16-20	25	1”	16	1.1/4”	88,0	3,46	54,0	2,13	64,0	2,52	14,5	0,57
AY7CJ-20-20	31	1.1/4”	20	1.1/4”	124,0	4,88	54,0	2,13	67,0	2,64	14,5	0,57
AY7CJ-20-24	31	1.1/4”	20	1.1/2”	128,0	5,04	63,5	2,50	76,1	3,00	14,5	0,57
AY7CJ-24-24	38	1.1/2”	24	1.1/2”	147,5	5,81	63,5	2,50	78,6	3,09	14,5	0,57
AY7CJ-32-32	51	2”	32	2”	167,2	6,58	79,4	3,13	104,8	4,13	14,5	0,57

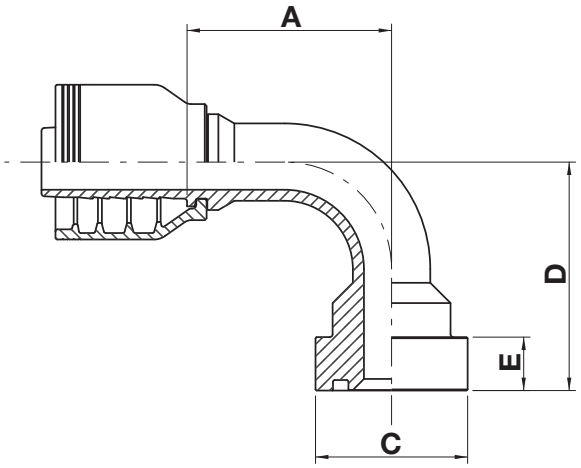
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AY9CJ

“SUPERCAT” style - 90° elbow flange

NO SKIVE



FITTING
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

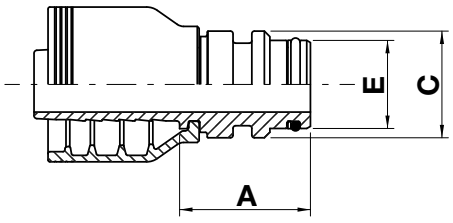
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY9CJ-12-12	19	3/4”	12	3/4”	55,5	2,19	41,3	1,63	62,0	2,44	14,5	0,57
AY9CJ-12-12-156	19	3/4”	12	3/4”	62,5	2,46	41,3	1,63	155,7	6,12	14,5	0,57
AY9CJ-12-16	19	3/4”	12	1”	55,5	2,19	47,6	1,87	70,0	2,76	14,5	0,57
AY9CJ-16-16	25	1”	16	1”	75,6	2,98	47,6	1,87	71,0	2,80	14,5	0,57
AY9CJ-16-20	25	1”	16	1.1/4”	78,0	3,07	54,0	2,13	84,5	3,33	14,5	0,57
AY9CJ-20-20	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	90,0	3,54	14,5	0,57
AY9CJ-20-24	31	1.1/4”	20	1.1/2”	104,2	4,10	63,5	2,50	100,0	3,94	14,5	0,57
AY9CJ-24-24	38	1.1/2”	24	1.1/2”	111,0	4,37	63,5	2,50	106,0	4,17	14,5	0,57
AY9CJ-32-32	51	2”	32	2”	151,3	5,96	79,4	3,13	136,0	5,36	14,5	0,57

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ST11J

Staple lock male

NO SKIVE



code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
ST11J-06-06	10	3/8”	06	34,5	1,36	19,9	0,79	13,9	0,55
ST11J-08-08	12	1/2”	08	35,0	1,38	23,9	0,94	17,9	0,70
ST11J-10-10	16	5/8”	10	36,0	1,42	25,9	1,02	20,9	0,82
ST11J-12-12	19	3/4”	12	35,5	1,40	28,9	1,14	23,9	0,94
ST11J-16-16	25	1”	16	44,0	1,73	38,9	1,53	30,9	1,22
ST11J-20-20	31	1.1/4”	20	47,0	1,85	45,9	1,81	37,9	1,49
ST11J-24-24	38	1.1/2”	24	51,0	2,01	54,9	2,16	46,9	1,85
ST11J-32-32	51	2”	32	57,0	2,24	63,9	2,52	55,9	2,20
ST11J-40-40	63	2.1/2”	40	100,5	3,96	80,9	3,19	79,0	3,11
ST11J-48-48	76	3”	48	136,0	5,35	93,8	3,69	85,8	3,38

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

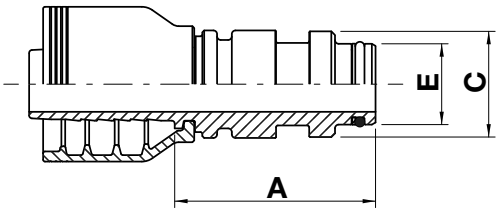
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SS11J

High pressure staple lock male

NO SKIVE

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT



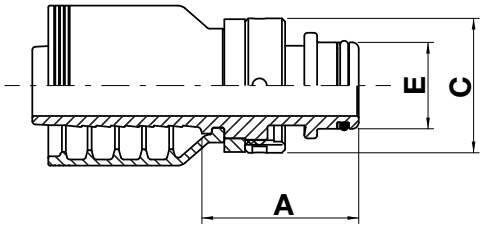
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
SS11J-12-12	19	3/4”	12	56,0	2,20	28,7	1,13	21,9	0,86
SS11J-16-16	25	1”	16	73,0	2,87	38,4	1,51	30,9	1,22
SS11J-20-20	31	1.1/4”	20	80,0	3,15	45,4	1,79	37,9	1,49
SS11J-24-24	38	1.1/2”	24	84,0	3,31	54,4	2,14	43,9	1,73
SS11J-32-32	51	2”	32	87,0	3,43	63,4	2,50	49,9	1,96

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NVM11J

Standard pressure Lok-IT male

NO SKIVE



code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
NVM11J-16-16	25	1”	16	58,9	2,32	42,0	1,65	27,0	1,06
NVM11J-20-20	31	1.1/4”	20	68,0	2,67	50,0	1,96	33,0	1,29
NVM11J-24-24	38	1.1/2”	24	75,5	2,97	62,0	2,44	44,0	1,73
NVM11J-32-32	51	2”	32	74,0	2,91	75,0	2,95	56,0	2,20
NVM11J-40-40	63	2.1/2”	40	85,0	3,34	90,0	3,54	66,0	2,59
NVM11J-48-48	76	3”	48	97,0	3,82	110,0	4,33	88,0	3,46
NVM11J-64-64	102	4”	64	117,0	4,60	138,0	5,43	105,0	4,13

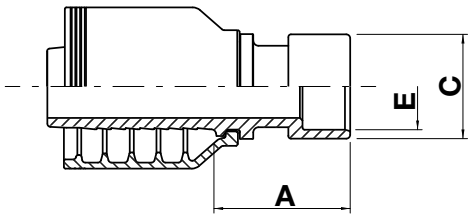
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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NVF10J

Standard pressure Lok-IT female

NO SKIVE



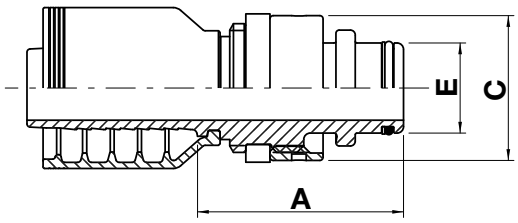
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
NVF10J-16-16	25	1”	16	42,0	1,65	33,0	1,29	27,0	1,06
NVF10J-20-20	31	1.1/4”	20	52,0	2,04	40,0	1,57	33,0	1,29
NVF10J-24-24	38	1.1/2”	24	52,0	2,05	53,0	2,08	44,0	1,73
NVF10J-32-32	51	2”	32	57,0	2,24	65,0	2.55	56,0	2,20
NVF10J-40-40	63	2.1/2”	40	56,0	2,20	75,0	2,95	66,0	2,59
NVF10J-48-48	76	3”	48	75,0	2,95	99,0	3,89	88,0	3,46
NVF10J-64-64	102	4”	64	82,0	3,22	118,0	4,64	105,0	4,13

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HVM11J

High pressure Lok-IT male

NO SKIVE



code	ø hose			A		C		E	
	dn	inch	size	mm	in]	mm	in	mm	in
HVM11J-06-06	10	3/8”	06	45,5	1,79	25,0	0,98	14,0	0,55
HVM11J-08-08	12	1/2”	08	48,3	1,90	30,0	1,18	18,0	0,70
HVM11J-12-12	19	3/4	12	57,0	2,24	40,0	1,57	23,0	0,90
HVM11J-16-16	25	1”	16	64,0	2,52	45,0	1,77	28,0	1,10
HVM11J-20-20	31	1.1/4”	20	72,0	2,83	52,0	2,04	33,0	1,29
HVM11J-24-24	38	1.1/2”	24	84,0	3,30	64,0	2,52	42,0	1,65
HVM11J-32-32	51	2”	32	88,0	3,46	78,0	3,07	54,0	2,12
HVM11J-40-40	63	2.1/2”	40	110,0	4,33	98,0	3,85	65,0	2,55

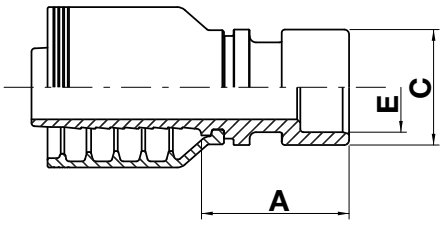
FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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HVF10J

High pressure Lok-IT female

NO SKIVE



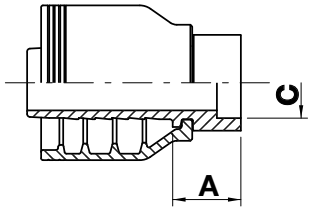
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
HVF10J-06-06	10	3/8”	06	34,0	1,35	20,0	0,78	14,0	0,55
HVF10J-08-08	12	1/2”	08	36,0	1,43	24,0	0,94	18,0	0,70
HVF10J-12-12	19	3/4	12	36,0	1,43	30,0	1,18	23,0	0,90
HVF10J-16-16	25	1”	16	46,0	1,81	36,0	1,41	28,0	1,10
HVF10J-20-20	31	1.1/4”	20	54,0	2,12	44,0	1,73	33,0	1,29
HVF10J-24-24	38	1.1/2”	24	55,0	2,16	53,8	2,11	42,0	1,65
HVF10J-32-32	51	2”	32	65,0	2,56	70,0	2,75	54,0	2,12
HVF10J-40-40	63	2.1/2”	40	96,0	3,78	84,0	3,30	65,0	2,55

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WO10J

Brazing tale

NO SKIVE



code	ø hose			A		C	
	dn	inch	size	mm	in	mm	in
WO10J-12-12	19	3/4”	12	18,5	0,73	19,2	0,76
WO10J-16-16	25	1”	16	23,0	0,91	25,6	1,01
WO10J-20-20	31	1.1/4”	20	26,0	1,02	32,0	1,26
WO10J-24-24	38	1.1/2”	24	26,0	1,02	38,3	1,51
WO10J-32-32	51	2”	32	32,0	1,26	51,0	2,01

FITTINGS
NPTF
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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H

SERIES

For 6 spiral hoses
No skive

intertraco

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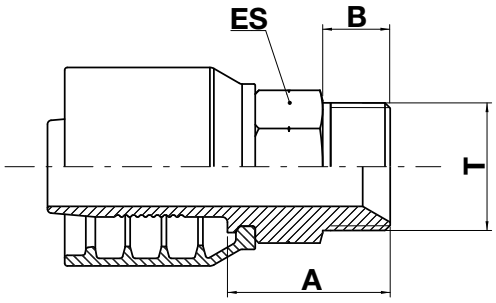
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MN10H

NPTF male (60° cone seat)

NO SKIVE

SAE J514



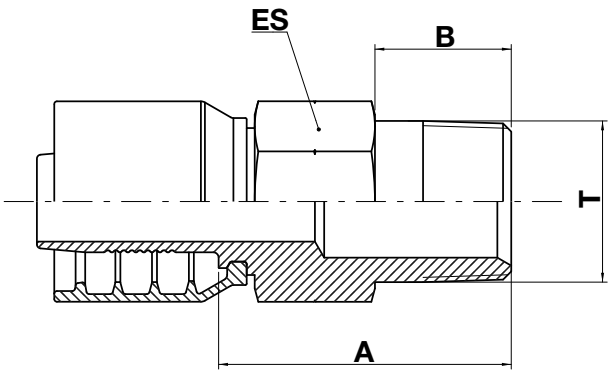
code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MN10H-20-20	31	1.1/4”	20	1.1/4”-11.1/2	63,0	2,48	24,5	0,96	46,0	1,811	1.13/16”
MN10H-24-24	38	1.1/2”	24	1.1/4”-11.1/2	61,5	2,42	25,5	1,00	50,0	1,969	2”
MN10H-32-32	51	2”	32	2”-11.1/2”	79,5	3,13	26,0	1,02	65,0	2,559	2.9/16”

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MNA10H

NPTF male (60° cone seat) - long nose “API” style version

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MNA10H-24-32	38	1.1/2”	24	2”-11.1/2	109,5	4,31	51,0	2,01	65,0	2,559	2.9/16”
MNA10H-32-32	51	2”	32	2”-11.1/2	111,5	4,39	51,0	2,01	65,0	2,559	2.9/16”

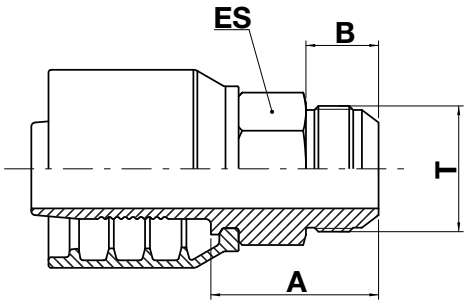
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MJ10H

JIC 37° male

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MJ10H-20-20	31	1.1/4”	20	1.5/8”-12	62,5	2,46	24,3	0,96	46,0	1,811	1.13/16”
MJ10H-24-24	38	1.1/2”	24	1.7/8”-12	63,5	2,50	27,5	1,08	50,0	1,969	2”
MJ10H-32-32	51	2”	32	2.1/2”-12	87,6	3,45	33,9	1,33	65,0	2,559	2.9/16”

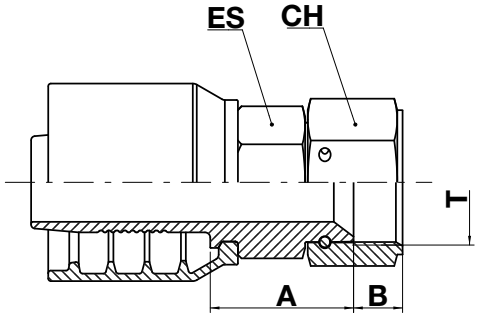
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FJ12H

JIC 37° female swivel

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ12H-20-20	31	1.1/4”	20	1.5/8”-12	51,5	2,03	16,0	0,63	41,0	1,614	1.5/8”	50,0	1,969	2”
FJ12H-20-24	31	1.1/4”	20	1.7/8”-12	56,5	2,22	18,5	0,73	50,0	1,969	2”	55,0	2,165	2.3/16”
FJ12H-24-24	38	1.1/2”	24	1.7/8”-12	54,4	2,14	18,5	0,73	50,0	1,969	2”	55,0	2,165	2.3/16”
FJ12H-32-32	51	2”	32	2.1/2”-12	74,0	2,91	24,0	0,94	65,0	2,559	2.9/16”	75,0	2,953	-

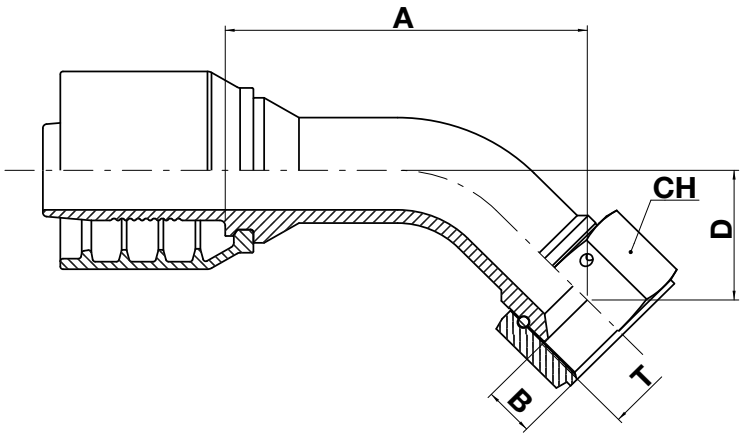
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FJ42H

JIC 37° female swivel - 45° elbow

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ42H-20-20	31	1.1/4”	20	1.5/8”-12	99,0	3,90	15,9	0,62	37,5	1,48	50,0	1,969	2”
FJ42H-24-24	38	1.1/2”	24	1.7/8”-12	135,0	5,31	18,6	0,73	49,2	1,94	55,0	2,165	2.3/16”
FJ42H-32-32	51	2”	32	2.1/2”-12	167,6	6,60	24,0	0,94	68,8	2,71	75,0	2,953	-

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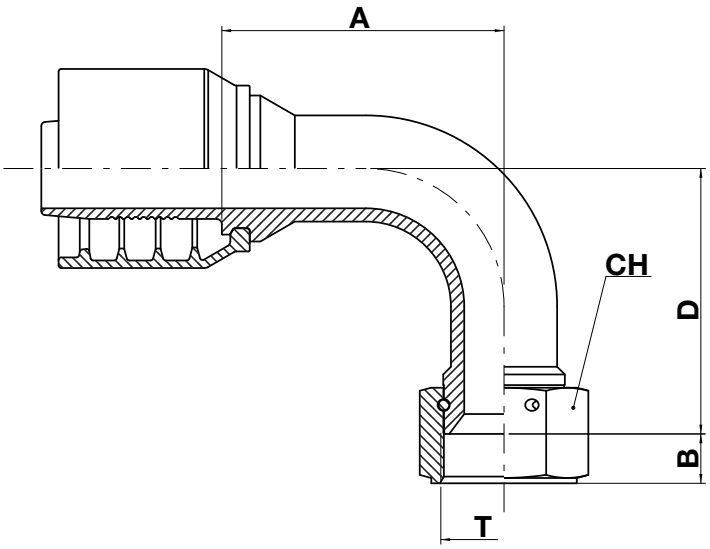
For 6 spiral hoses

FJ92H

JIC 37° female swivel - 90° elbow

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ92H-20-20	31	1.1/4”	20	1.5/8”-12	87,5	3,44	16,0	0,63	77,0	3,03	50,0	1,969	2”
FJ92H-24-24	38	1.1/2”	24	1.7/8”-12	107,0	4,21	18,5	0,73	100,0	3,94	55,0	2,165	2.3/16”
FJ92H-32-32	51	2”	32	2.1/2”-12	154,0	6,06	24,0	0,94	140,0	5,51	75,0	2,953	-

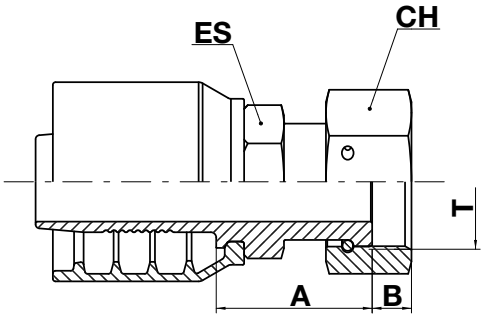
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OR12H

ORFS female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR12H-20-20	31	1.1/4”	20	1.11/16”-12	56,0	2,20	14,8	0,58	41,0	1,614	1.5/8”	50,0	1,969	2”
OR12H-20-24	31	1.1/4”	20	2”-12	63,0	2,48	14,8	0,58	50,0	1,969	2”	60,0	2,362	2.3/8”
OR12H-24-24	38	1.1/2”	24	2”-12	59,0	2,32	14,8	0,58	50,0	1,969	2”	60,0	2,362	2.3/8”

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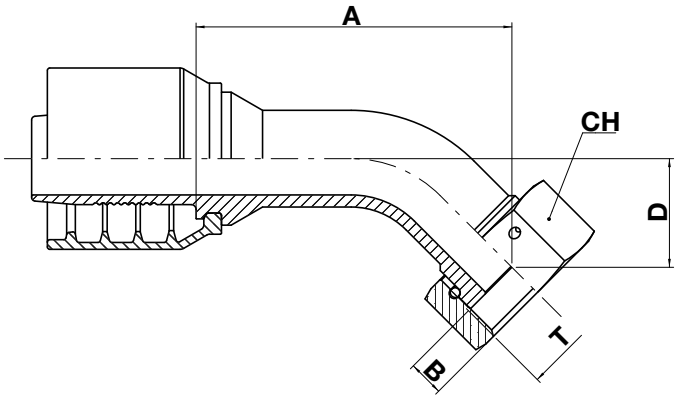
For 6 spiral hoses

OR42H

ORFS female swivel - 45° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR42H-20-20	31	1.1/4”	20	1.11/16”-12	97,0	3,82	14,8	0,58	37,0	1,45	50,0	1,969	2”
OR42H-24-24	38	1.1/2”	24	2”-12	120,5	4,74	14,8	0,58	44,0	1,73	60,0	2,362	2.3/8”

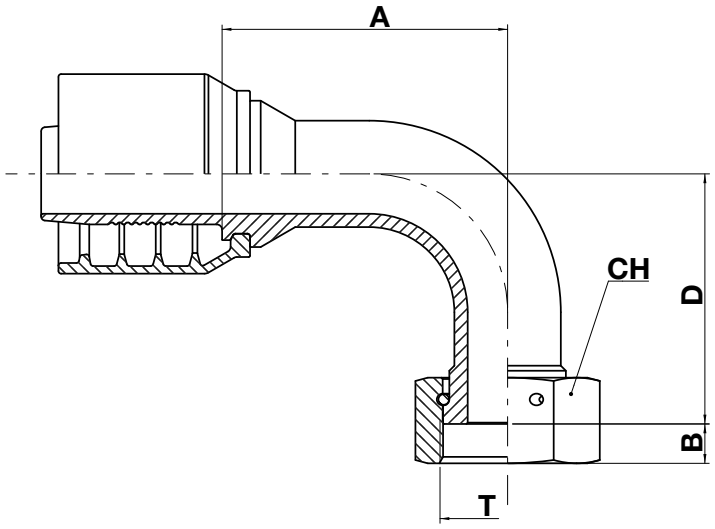
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OR92H

ORFS female swivel - 90° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR92H-20-20	31	1.1/4”	20	1.11/16”-12	82,0	3,22	14,8	0,58	66,0	2,60	50,0	1,969	2”
OR92H-24-24	38	1.1/2”	24	2”-12	105,0	4,13	14,8	0,58	94,0	3,70	60,0	2,362	2.3/8”

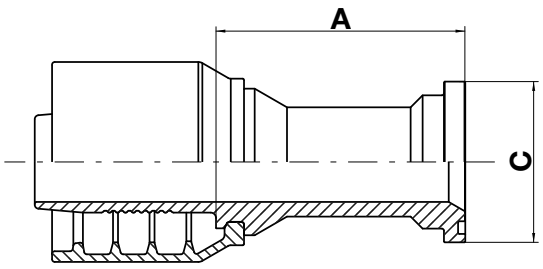
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For 6 spiral hoses

AK10H

Japanese “KOM” style termination straight flange (for metric O-Ring)

NO SKIVE



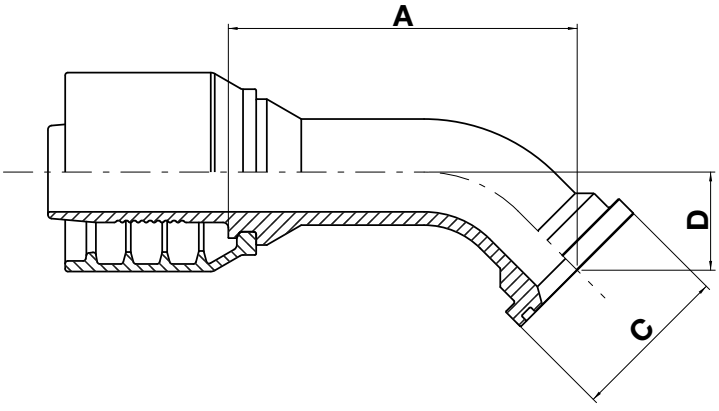
code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AK10H-20-20	31	1.1/4”	20	1.1/4”	83,0	3,27	50,8	2,00
AK10H-24-24	38	1.1/2”	24	1.1/2”	93,5	3,68	60,3	2,37
AK10H-32-32	51	2”	32	2”	128,7	5,07	71,4	2,81

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AK40H

Japanese “KOM” style termination - 45° elbow flange (for metric O-Ring)

NO SKIVE



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK40H-20-20	31	1.1/4”	20	1.1/4”	89,0	3,50	50,8	2,00	31,0	1,22
AK40H-24-24	38	1.1/2”	24	1.1/2”	131,5	5,18	60,3	2,37	37,0	1,46
AK40H-32-32	51	2”	32	2”	188,2	7,41	71,4	2,81	52,5	2,07

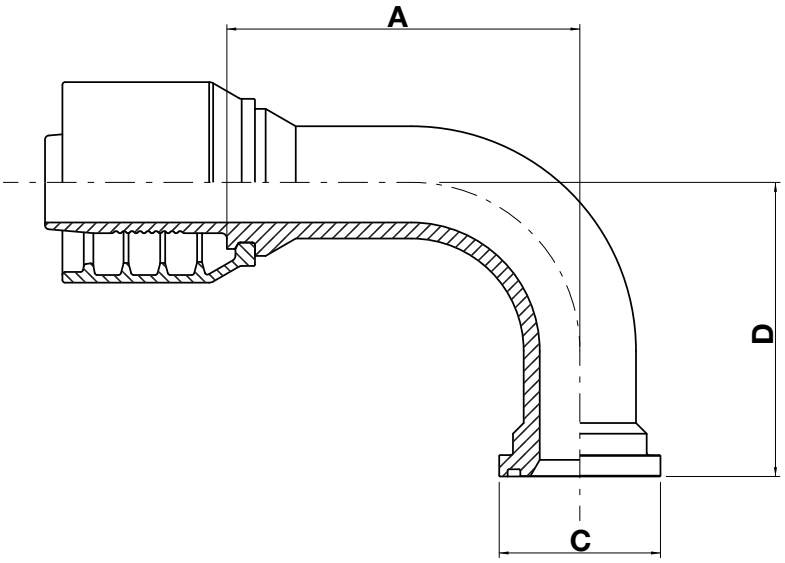
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For 6 spiral hoses

AK90H

Japanese “KOM” style termination - 90° elbow flange (for metric O-Ring)

NO SKIVE



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

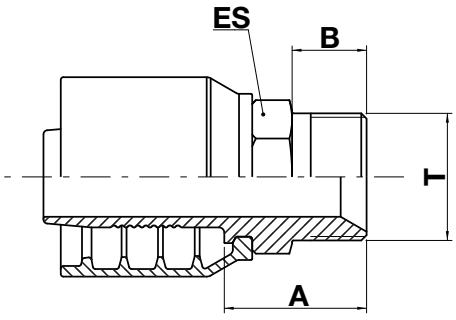
code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AK90H-20-20	31	1.1/4”	20	1.1/4”	102,9	4,05	50,8	2,00	80,0	3,15
AK90H-24-24	38	1.1/2”	24	1.1/2”	132,0	5,20	60,3	2,37	110,0	4,33
AK90H-32-32	51	2”	32	2”	164,7	6,48	71,4	2,81	140,0	5,51

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MT10H

BSPT tapered male 60° cone

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MT10H-20-20	31	1.1/4”	20	1.1/4”-11	53,0	2,09	25,0	0,98	46,0	1,811	1.13/16”
MT10H-24-24	38	1.1/2”	24	1.1/2”-11	53,5	2,11	28,0	1,10	50,0	1,969	2”
MT10H-32-32	51	2”	32	2”-11	63,5	2,50	28,0	1,10	65,0	2,559	2.9/16”

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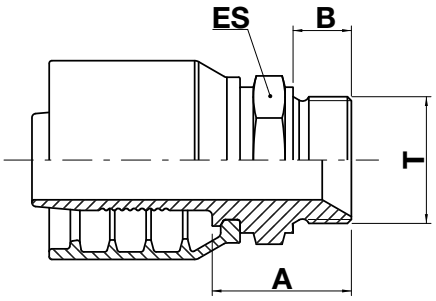
For 6 spiral hoses

MB10H

BSP male 60° cone

NO SKIVE

ISO 8434-6 / BS 5200



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MB10H-20-20	31	1.1/4”	20	1.1/4”-11	50,5	1,99	20,0	0,79	50,0	1,969	2”
MB10H-24-24	38	1.1/2”	24	1.1/2”-11	52,5	2,07	22,0	0,87	55,0	2,165	2.3/16”
MB10H-32-32	51	2”	32	2”-11	67,2	2,65	25,0	0,98	70,0	2,756	2.3/4”

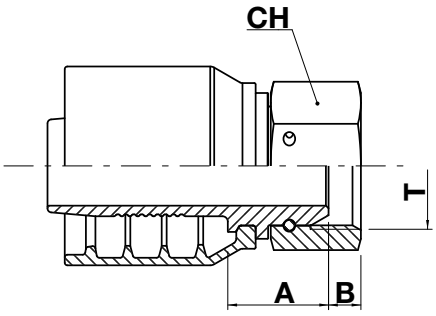
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FB12H

BSP female swivel 60° cone

NO SKIVE

ISO 8434-6 / BS 5200



code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
FB12H-20-20	31	1.1/4”	20	1.1/4”-11	36,8	1,45	10,0	0,39	50,0	1,969	2”
FB12H-24-24	38	1.1/2”	24	1.1/2”-11	38,0	1,50	12,0	0,47	55,0	2,165	2.3/16”
FB12H-32-32	51	2”	32	2”-11	43,6	1,72	16,0	0,63	70,0	2,756	2.3/4”

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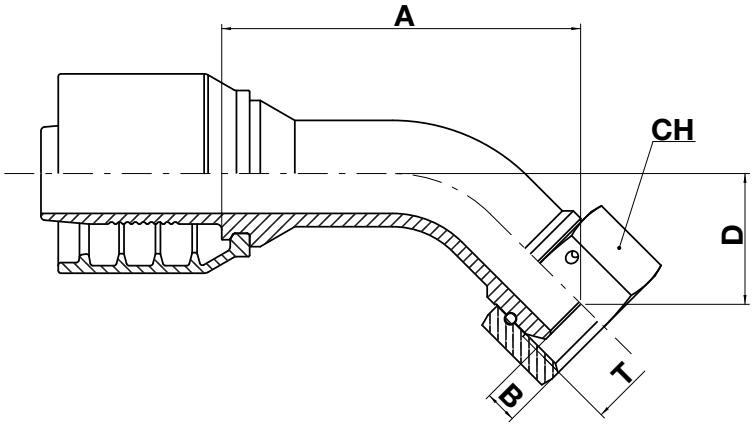
For 6 spiral hoses

FB42H

BSP female swivel 60° cone - 45° elbow

NO SKIVE

ISO 8434-6 / BS 5200



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB42H-20-20	31	1.1/4”	20	1.1/4”-11	99,0	3,90	10,0	0,39	37,5	1,48	50,0	1,969	2”
FB42H-24-24	38	1.1/2”	24	1.1/2”-11	135,0	5,31	12,0	0,47	49,2	1,94	55,0	2,165	2.3/16”
FB42H-32-32	51	2”	32	2”-11	163,5	6,44	16,0	0,63	60,0	2,36	70,0	2,756	2.3/4”

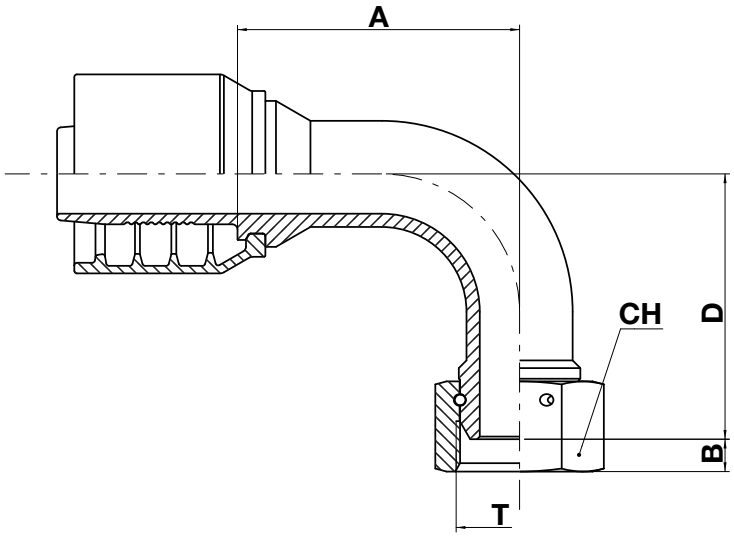
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FB92H

BSP female swivel 60° cone - 90° elbow

NO SKIVE

ISO 8434-6 / BS 5200



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB92H-20-20	31	1.1/4”	20	1.1/4”-11	87,5	3,44	10,0	0,39	83,0	3,27	50,0	1,969	2”
FB92H-24-24	38	1.1/2”	24	1.1/2”-11	106,3	4,19	12,0	0,47	100,0	3,94	55,0	2,165	2.3/16”
FB92H-32-32	51	2”	32	2”-11	149,3	5,88	16,0	0,63	128,0	5,04	70,0	2,756	2.3/4”

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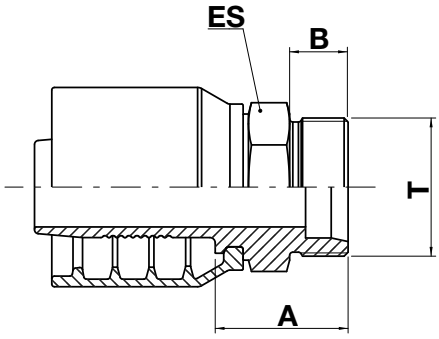
For 6 spiral hoses

MS10H

Metric heavy male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
MS10H-20-52	31	1.1/4”	20	M52X2	S38	50,0	1,97	22,0	0,87	55,0	2,165	2.3/16”
MS10H-24-52	38	1.1/2”	24	M52X2	S38	50,0	1,97	22,0	0,87	55,0	2,165	2.3/16”

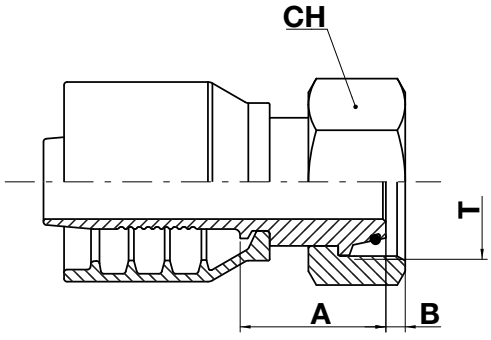
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FS13H FS12H

Metric heavy female swivel (24° cone seat)

NO SKIVE

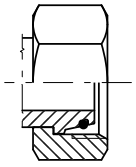
ISO 8434-1 / DIN 3865



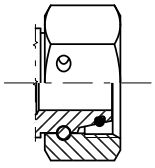
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FS13H-20-52	31	1.1/4”	20	M52X2	S38	48,9	1,93	6,5	0,26	60,0	2,362	2.3/8”
FS12H-24-52	38	1.1/2”	24	M52X2	S38	43,0	1,69	6,5	0,26	60,0	2,362	2.3/8”

Nut type

FS13



FS12



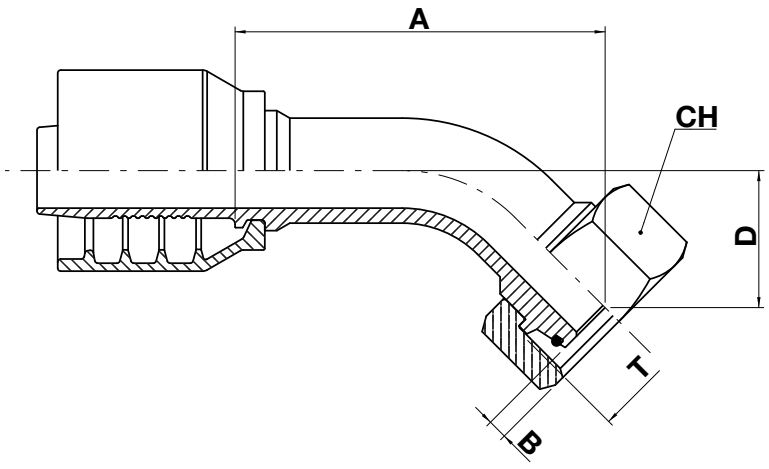
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FS43H FS42H

Metric heavy female swivel 45° elbow (24° cone seat)

NO SKIVE

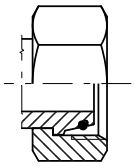
ISO 8434-1 / DIN 3865



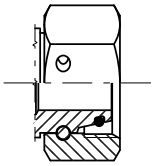
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS43H-20-52	31	1.1/4”	20	M52X2	S38	123,3	4,85	6,5	0,26	45,6	1,80	60,0	2,362	2.3/8”
FS42H-24-52	38	1.1/2”	24	M52X2	S38	130,0	5,12	6,5	0,26	47,2	1,86	60,0	2,362	2.3/8”

Nut type

FS43



FS42



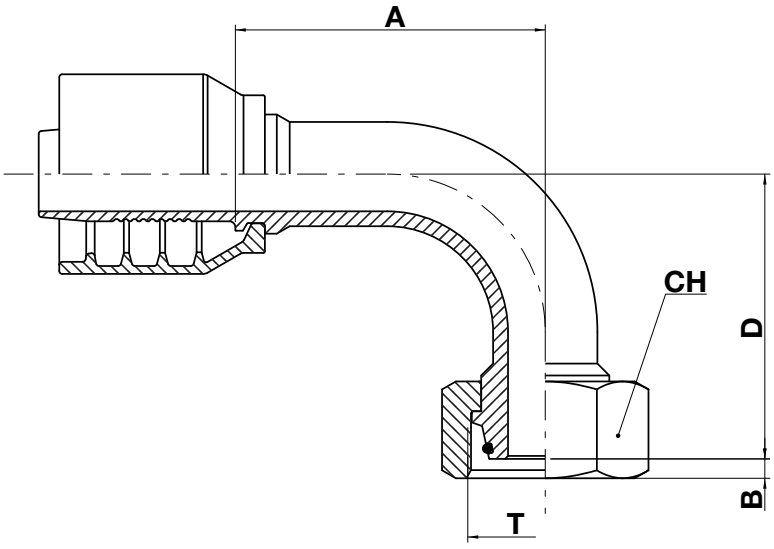
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FS93H FS92H

Metric heavy female swivel 90° elbow (24° cone seat)

NO SKIVE

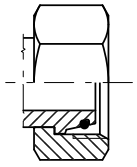
ISO 8434-1 / DIN 3865



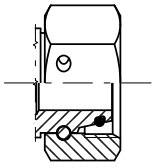
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS93H-20-52	31	1.1/4”	20	M52X2	S38	104,0	4,09	6,5	0,26	95,6	3,76	60,0	2,362	2.3/8”
FS92H-24-52	38	1.1/2”	24	M52X2	S38	115,0	4,53	6,5	0,26	102,0	4,02	60,0	2,362	2.3/8”

Nut type

FS93



FS92



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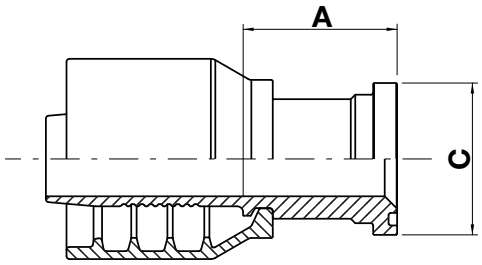
For 6 spiral hoses

AX10H

SAE 3000 code 61 straight flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C	
	dn	inch	size		mm	in	mm	in
AX10H-20-20	31	1.1/4”	20	1.1/4”	51,5	2,03	50,8	2,00
AX10H-20-24	31	1.1/4”	20	1.1/2”	61,5	2,42	60,4	2,38
AX10H-24-24	38	1.1/2”	24	1.1/2”	62,0	2,44	60,4	2,38
AX10H-24-32	38	1.1/2”	24	2”	77,0	3,03	71,4	2,81
AX10H-32-32	51	2”	32	2”	95,7	3,77	71,4	2,81

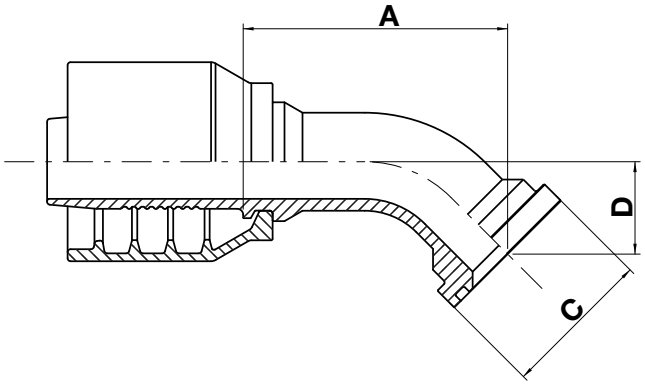
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AX40H

SAE 3000 code 61 - 45° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX40H-20-16	31	1.1/4”	20	1”	115,5	4,55	44,5	1,75	43,8	1,72
AX40H-20-20	31	1.1/4”	20	1.1/4”	89,0	3,50	50,8	2,00	31,1	1,22
AX40H-20-24	31	1.1/4”	20	1.1/2”	91,8	3,61	60,3	2,37	31,0	1,22
AX40H-24-24	38	1.1/2”	24	1.1/2”	152,0	5,98	60,3	2,37	46,7	1,84
AX40H-24-32	38	1.1/2”	24	2”	133,0	5,24	71,4	2,81	47,0	1,85
AX40H-32-32	51	2”	32	2”	150,0	5,91	71,4	2,81	53,0	2,09

FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

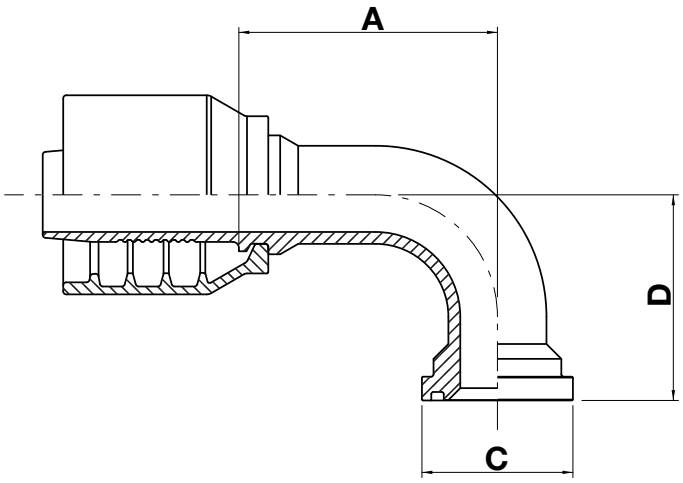
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AX90H

SAE 3000 code 61 - 90° elbow flange

NO SKIVE

ISO 6162-1 / SAE J518-1



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AX90H-20-20	31	1.1/4”	20	1.1/4”	87,0	3,43	50,8	2,00	69,2	2,72
AX90H-20-24	31	1.1/4”	20	1.1/2”	87,0	3,43	60,3	2,37	69,2	2,72
AX90H-24-24	38	1.1/2”	24	1.1/2”	132,0	5,20	60,3	2,37	103,0	4,06
AX90H-24-32	38	1.1/2”	24	2”	116,0	4,57	71,4	2,81	104,0	4,09
AX90H-32-32	51	2”	32	2”	155,0	6,10	71,4	2,81	123,0	4,84

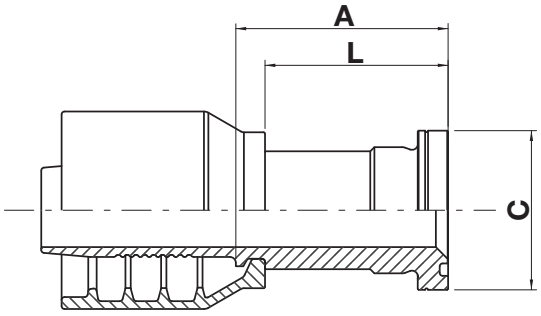
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AY10H AY10HLZ-L

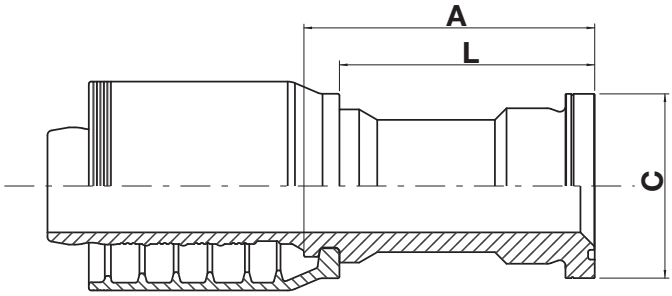
SAE 6000 code 62 straight flange - SAE 6000 code 62 straight flange (long drop)

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		L	
	dn	inch	size		mm	in	mm	in	mm	in
AY10H-20-20	31	1.1/4”	20	1.1/4”	72,0	2,83	54,0	2,13	62,0	2,44
AY10H-20-24	31	1.1/4”	20	1.1/2”	81,5	3,21	63,5	2,50	71,6	2,82
AY10H-24-20	38	1.1/2”	24	1.1/4”	72,5	2,85	54,0	2,13	62,0	2,44
AY10H-24-24	38	1.1/2”	24	1.1/2”	82,0	3,23	63,5	2,50	71,5	2,81
AY10H-24-32	38	1.1/2”	24	2”	110,5	4,35	79,4	3,13	100,0	3,93
AY10H-24-24-108	38	1.1/2”	24	1.1/2”	118,5	4,67	63,5	2,50	108,0	4,25
AY10H-32-24	51	2”	32	1.1/2”	91,0	3,58	63,5	2,50	75,3	2,96
AY10H-32-32	51	2”	32	2”	115,7	4,56	79,4	3,13	100,0	3,93



AY10HLZ-32-32-110*	51	2”	32	2”	125,3	4,93	79,4	3,13	110,0	4,33

* for 420 bar - 6000 psi rated hoses

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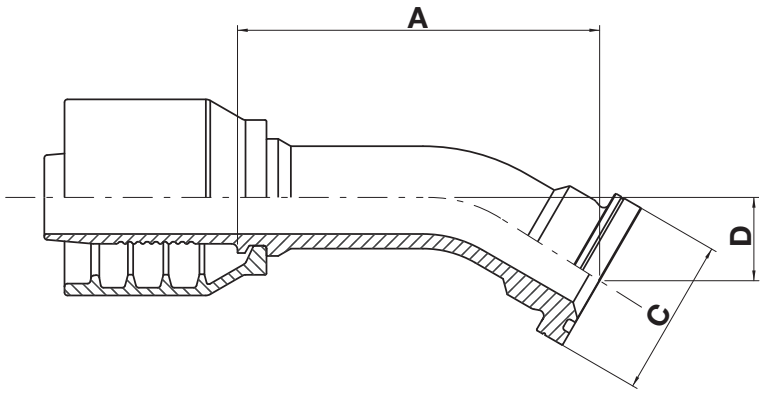
AY30H AY30HLZ

H

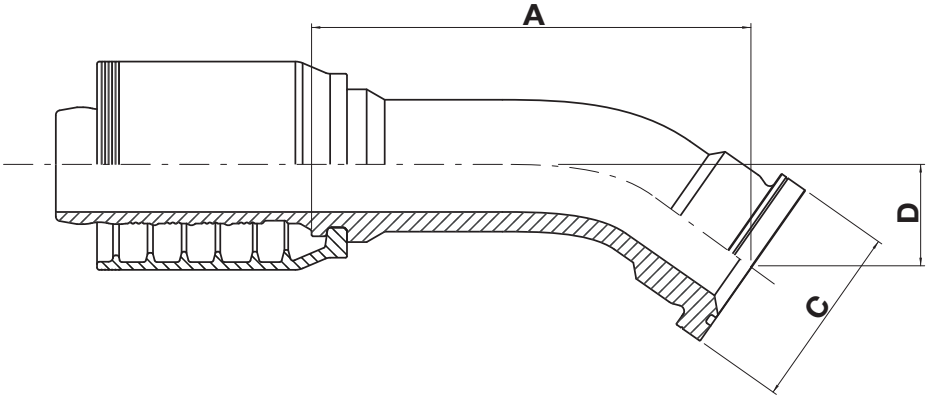
SAE 6000 code 62 - 30° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY30H-20-20	31	1.1/4”	20	1.1/4”	124,5	4,90	54,0	2,13	27,0	1,06
AY30H-24-24	38	1.1/2”	24	1.1/2”	147,5	5,81	63,5	2,50	29,0	1,14



AY30HLZ-32-32-46*	51	2”	32	2”	200,0	7,87	79,4	3,13	46,0	1,81

* for 420 bar - 6000 psi rated hoses

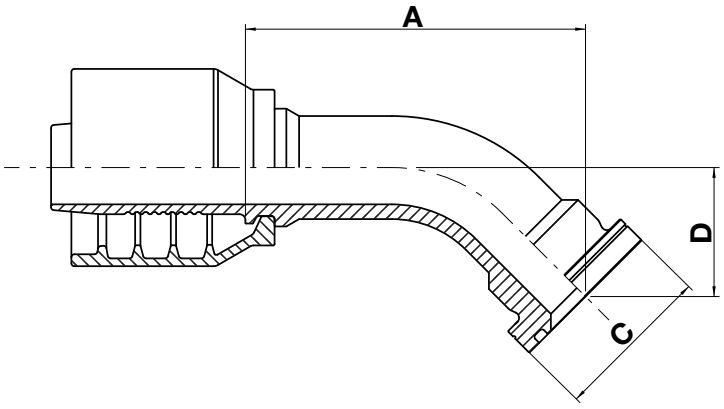
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AY40H AY40HLZ

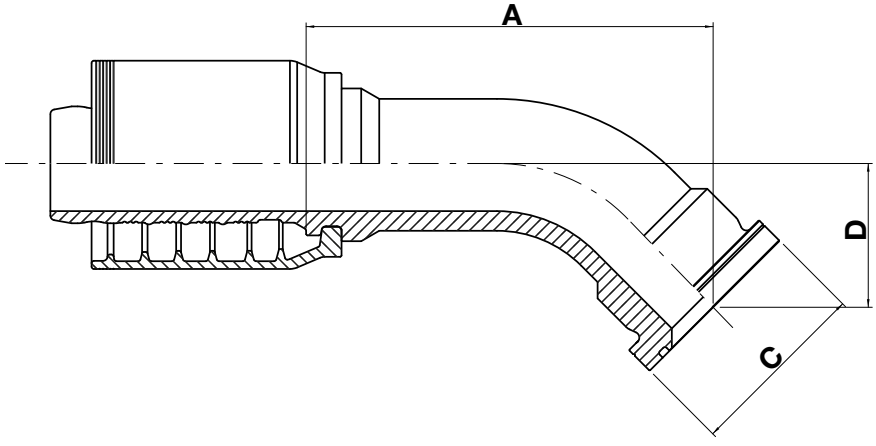
SAE 6000 code 62 - 45° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY40H-20-16	31	1.1/4”	20	1”	115,5	4,55	47,6	1,88	38,1	1,50
AY40H-20-20	31	1.1/4”	20	1.1/4”	115,5	4,55	54,0	2,13	43,8	1,72
AY40H-20-24	31	1.1/4”	20	1.1/2”	117,5	4,63	63,5	2,50	47,3	1,86
AY40H-24-24	38	1.1/2”	24	1.1/2”	152,0	5,98	63,5	2,50	47,0	1,85
AY40H-24-32	38	1.1/2”	24	2”	146,0	5,75	79,4	3,13	57,7	2,27
AY40H-32-32	51	2”	32	2”	174,0	6,85	79,4	3,13	63,9	2,52



AY40HLZ-32-32*	51	2”	32	2”	176,5,0	6,95	79,4	3,13	61,0	2,40

* for 420 bar - 6000 psi rated hoses

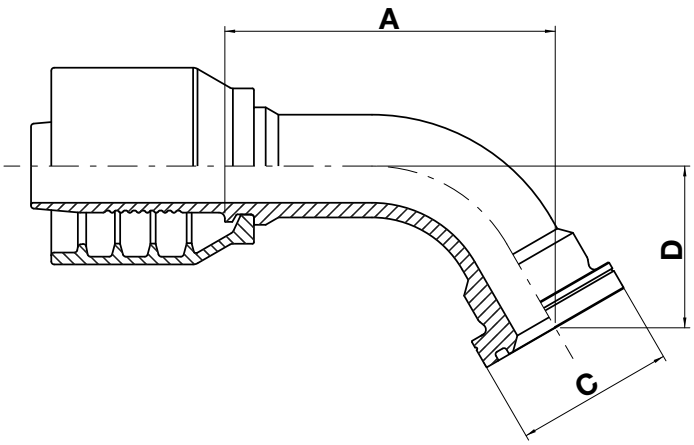
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AY60H

SAE 6000 code 62 - 60° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY60H-20-20	31	1.1/4”	20	1.1/4”	112,5	4,43	54,0	2,13	55,1	2,17
AY60H-24-24	38	1.1/2”	24	1.1/2”	153,5	6,04	63,5	2,50	69,8	2,75

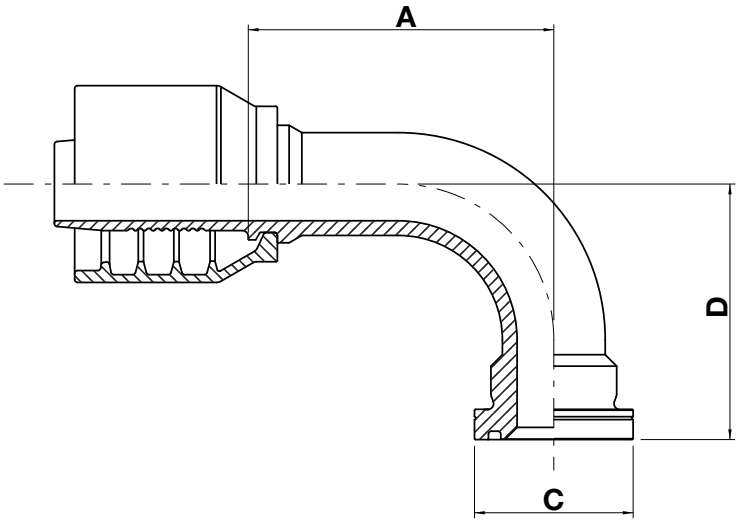
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AY90H AY90HLZ

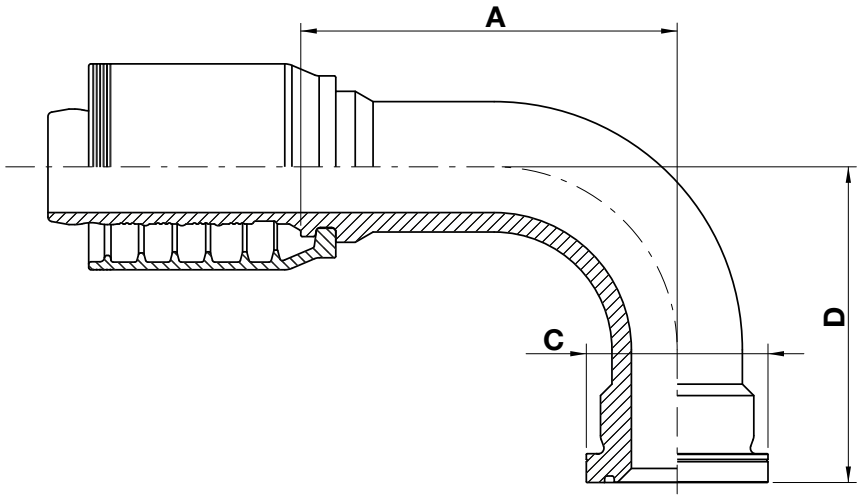
SAE 6000 code 62 - 90° elbow flange

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY90H-20-16	31	1.1/4”	20	1”	104,0	4,09	47,6	1,87	85,0	3,35
AY90H-20-20	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	86,0	3,39
AY90H-20-24	31	1.1/4”	20	1.1/2”	104,2	4,10	63,5	2,50	98,0	3,86
AY90H-24-24	38	1.1/2”	24	1.1/2”	124,5	4,90	63,5	2,50	104,0	4,09
AY90H-24-32	38	1.1/2”	24	2”	129,0	5,08	79,4	3,13	119,5	4,70
AY90H-32-32	51	2”	32	2”	162,0	6,38	79,4	3,13	134,0	5,28



AY90HLZ-32-32*	51	2”	32	2”	164,5	6,48	79,4	3,13	138,0	5,43

* for 420 bar - 6000 psi rated hoses

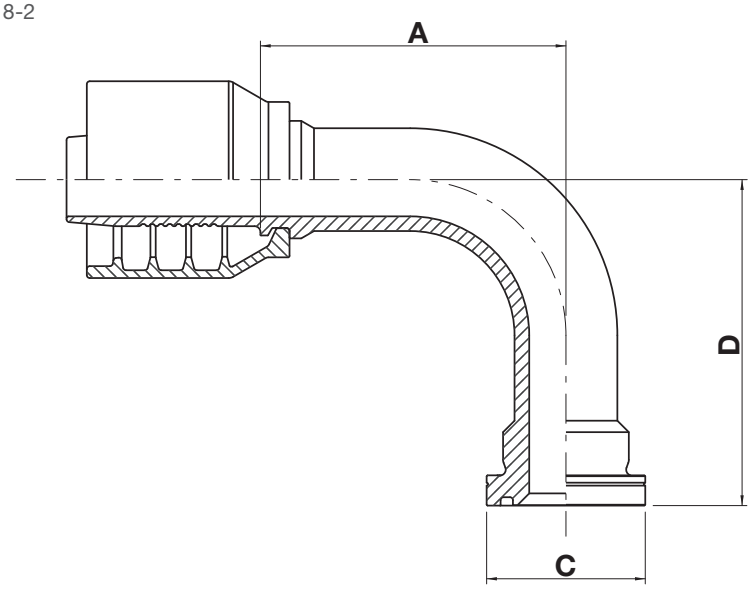
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AY90H-L AY90HLZ-L

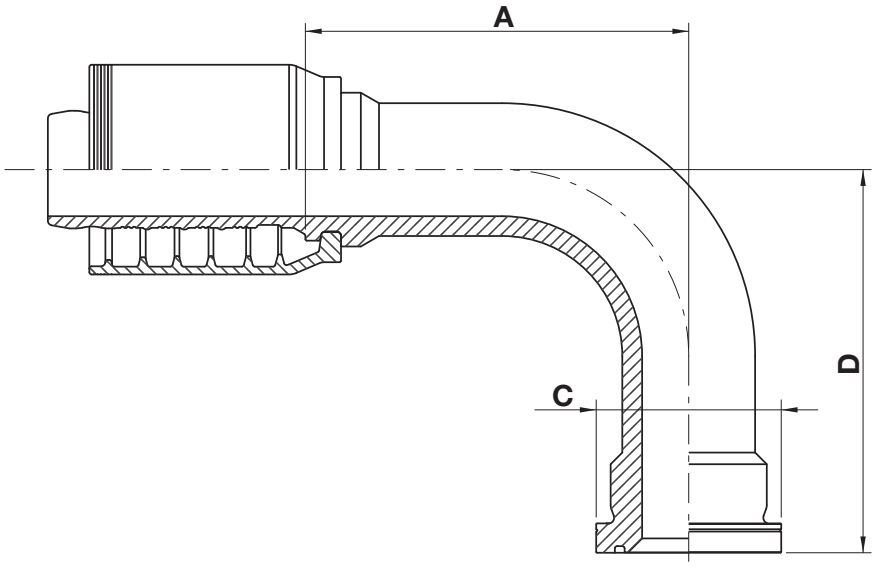
SAE 6000 code 62 - 90° elbow flange (long drop)

NO SKIVE

ISO 6162-2 / SAE J518-2



code	ø hose			flange	A		C		D	
	dn	inch	size		mm	in	mm	in	mm	in
AY90H-20-20-130	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	130,0	5,12
AY90H-20-20-150	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	150,0	5,91
AY90H-24-24-114	38	1.1/2”	24	1.1/2”	124,0	4,88	63,5	2,50	114,0	4,49
AY90H-24-24-150	38	1.1/2”	24	1.1/2”	124,0	4,88	63,5	2,50	150,0	5,91



AY90HLZ-32-32-155*	51	2”	32	2”	151,9	5,98	79,4	3,13	155,0	6,10

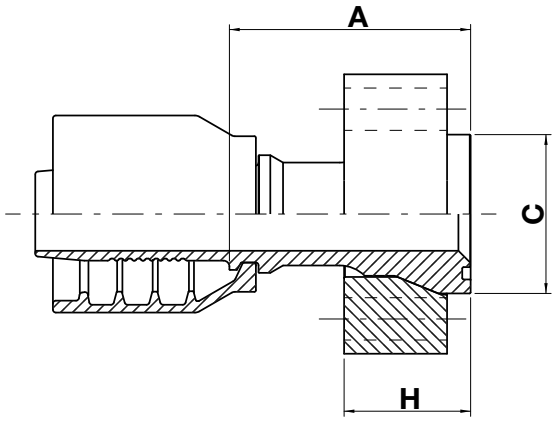
* for 420 bar - 6000 psi rated hoses

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AL13H AL13HLZ

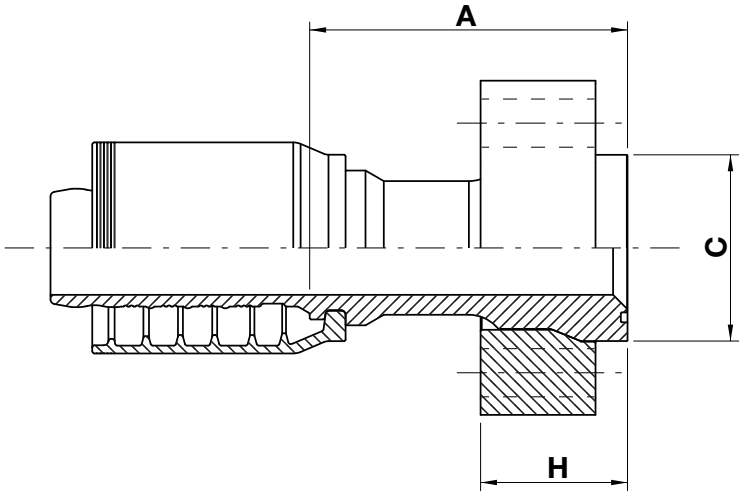
Tapered SAE straight flange

NO SKIVE



code	ø hose			flange	A		C		H	
	dn	inch	size		mm	in	mm	in	mm	in
AL13H-20-20	32	1.1/4”	20	1.1/4”	82	3,23	54,0	2,12	43,0	1,69
AL13H-24-24	38	1.1/2”	24	1.1/2”	116	4,57	63,5	2,50	52,6	2,07
AL13H-24-32	38	1.1/2”	24	2”	130,5	5,14	79,4	3,12	63,0	2,48

Heavy duty fitting compatible with ports according to SAE J518 code 62



AL13HLZ-32-32	51	2”	32	2”	134,8	5,31	79,4	3,13	63,0	2,48

Heavy duty fitting compatible with ports according to SAE J518 code 62

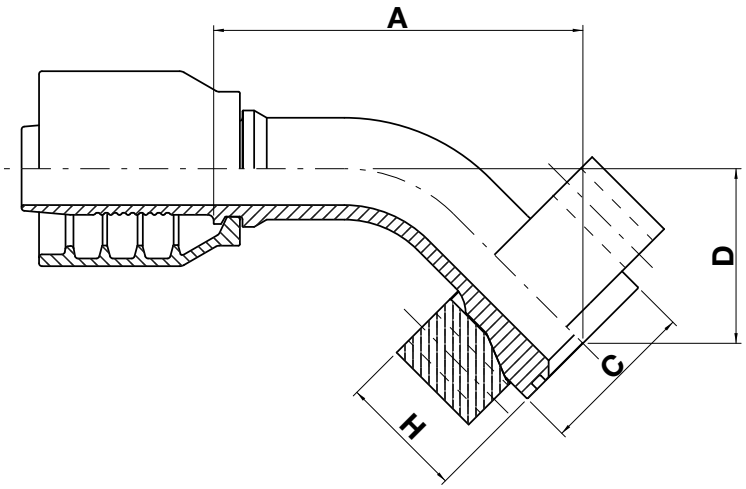
FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AL43H AL43HLZ

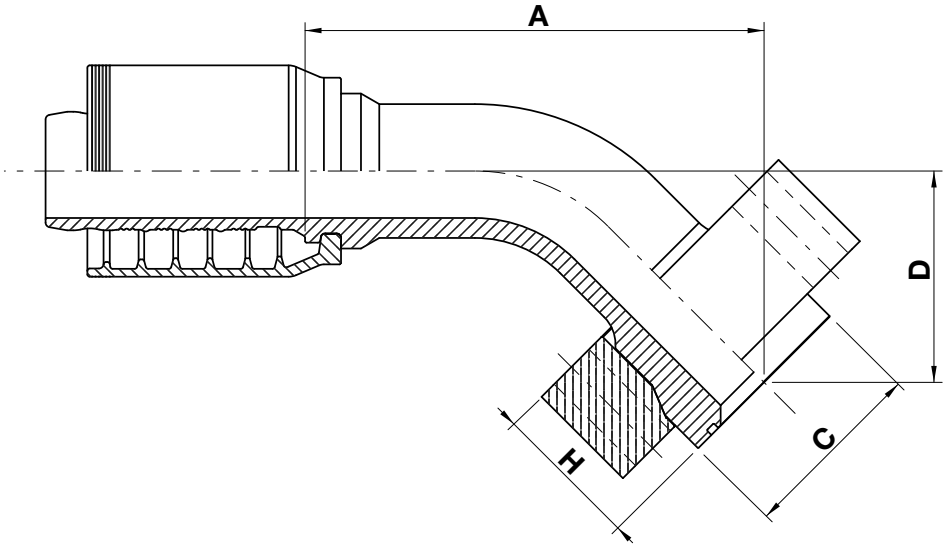
Tapered SAE - 45° elbow flange

NO SKIVE



code	ø hose			flange	A		D		C		H	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AL43H-20-20	32	1.1/4”	20	1.1/4”	127,0	5,00	60,0	2,36	54,0	2,12	43,0	1,69
AL43H-24-24	38	1.1/2”	24	1.1/2”	166,0	6,53	80,0	3,15	63,5	2,50	52,6	2,07
AL43H-24-32	38	1.1/2”	24	2”	184,0	7,24	95,0	3,74	79,4	3,12	63,0	2,48

Heavy duty fitting compatible with ports according to SAE J518 code 62



AL43HLZ-32-32	51	2”	32	2”	195,4	7,69	90,0	3,54	79,4	3,12	63,0	2,48

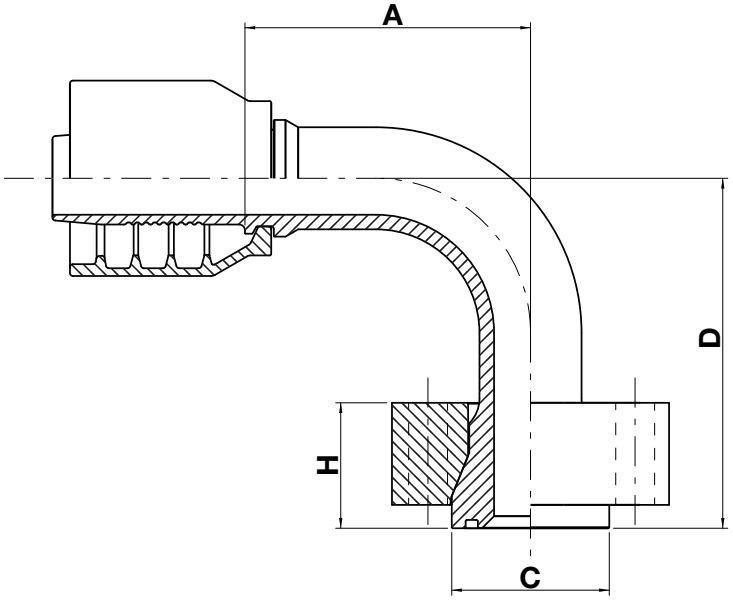
Heavy duty fitting compatible with ports according to SAE J518 code 62

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AL93H AL93HLZ

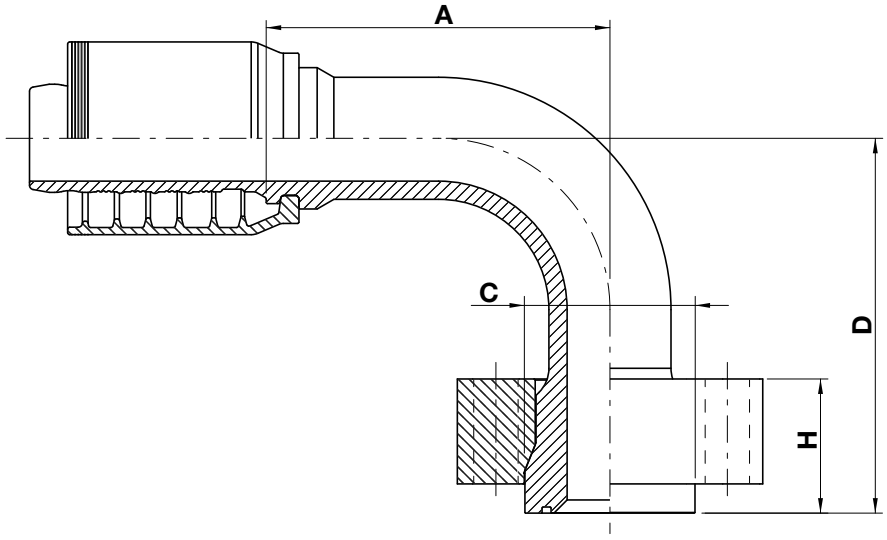
Tapered SAE - 90° elbow flange

NO SKIVE



code	ø hose			flange	A		D		C		H	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AL93H-20-20	32	1.1/4”	20	1.1/4”	98,0	3,86	120,0	4,27	54,0	2,12	43,0	1,69
AL93H-24-24	38	1.1/2”	24	1.1/2”	131,0	5,16	140,0	5,51	63,5	2,50	52,6	2,07
AL93H-24-32	38	1.1/2”	24	2”	131,0	5,16	160,0	6,30	79,4	3,12	63,0	2,48

Heavy duty fitting compatible with ports according to SAE J518 code 62



AL93HLZ-32-32	51	2”	32	2”	160,4	6,32	180,0	7,09	79,4	3,12	63,0	2,48

Heavy duty fitting compatible with ports according to SAE J518 code 62

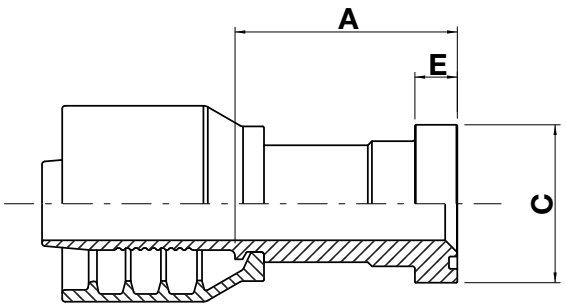
FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

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AY1CH

“SUPERCAT” style straight flange

NO SKIVE



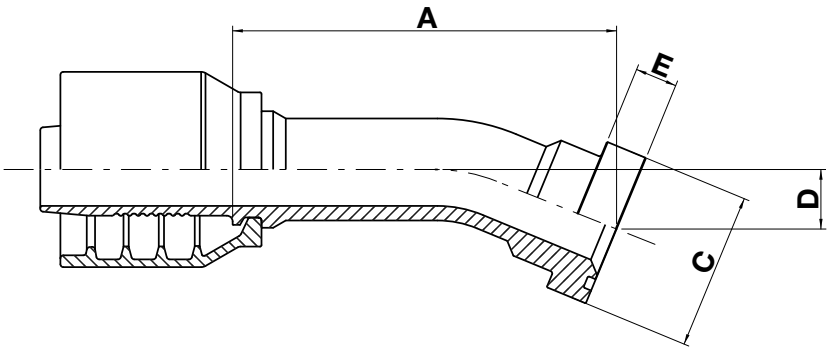
code	ø hose			flange	A		C		E	
	dn	inch	size		mm	in	mm	in	mm	in
AY1CH-20-20	31	1.1/4”	20	1.1/4”	76,0	2,99	54,0	2,13	14,5	0,57
AY1CH-20-24	31	1.1/4”	20	1.1/2”	79,9	3,15	63,5	2,50	14,5	0,57
AY1CH-24-24	38	1.1/2”	24	1.1/2”	84,0	3,31	63,5	2,50	14,5	0,57
AY1CH-24-32	38	1.1/2”	24	2”	110,5	4,35	79,4	3,13	14,5	0,57
AY1CH-32-32	51	2”	32	2”	115,7	4,56	79,4	3,13	14,5	0,57

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AY2CH

“SUPERCAT” style - 22,5° elbow flange

NO SKIVE



code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY2CH-20-20	31	1.1/4”	20	1.1/4”	131,5	5,18	54,0	2,13	21,0	0,82	14,5	0,57
AY2CH-20-24	31	1.1/4”	20	1.1/2”	133,0	5,24	63,5	2,50	22,0	0,87	14,5	0,57
AY2CH-24-24	38	1.1/2”	24	1.1/2”	142,0	5,59	63,5	2,50	20,9	0,82	14,5	0,57
AY2CH-32-32	51	2”	32	2”	174,0	6,85	79,4	3,13	28,5	1,12	14,5	0,57

FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

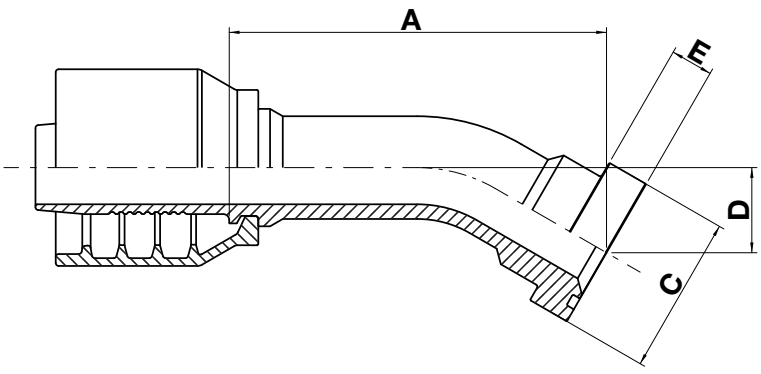
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For 6 spiral hoses

AY3CH

“SUPERCAT” style - 30° elbow flange

NO SKIVE



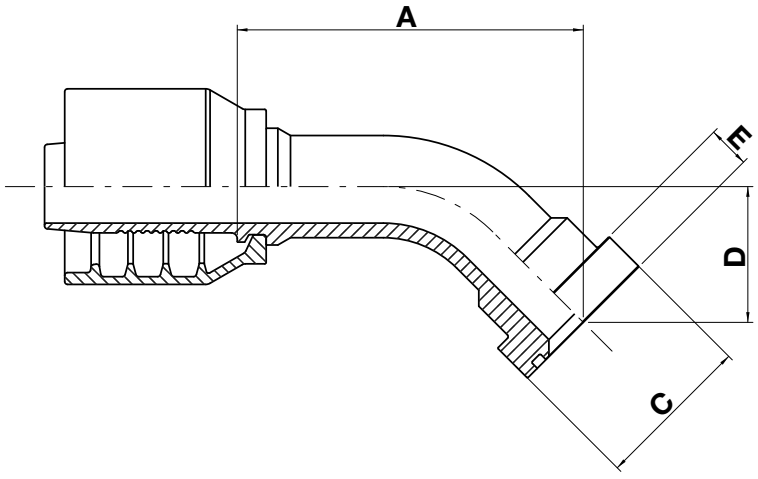
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY3CH-20-20	31	1.1/4”	20	1.1/4”	128,5	5,06	54,0	2,13	29,0	1,14	14,5	0,57
AY3CH-20-24	31	1.1/4”	20	1.1/2”	129,5	5,01	63,5	2,50	30,6	1,20	14,5	0,57
AY3CH-24-24	38	1.1/2”	24	1.1/2”	147,0	5,79	63,5	2,50	29,9	1,18	14,5	0,57
AY3CH-32-32	51	2”	32	2”	165,8	6,53	79,4	3,13	40,0	1,57	14,5	0,57

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AY4CH

“SUPERCAT” style - 45° elbow flange

NO SKIVE



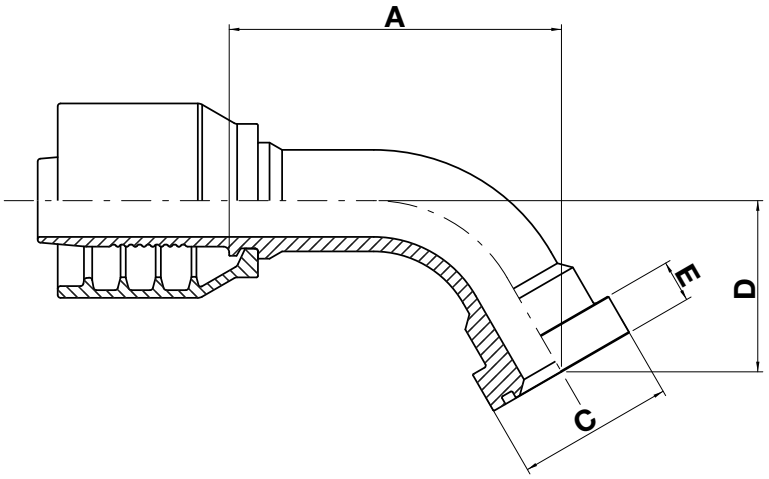
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY4CH-20-16	31	1.1/4”	20	1”	119,0	4,68	47,6	1,87	41,7	1,64	14,5	0,57
AY4CH-20-20	31	1.1/4”	20	1.1/4”	118,5	4,67	54,0	2,13	46,5	1,83	14,5	0,57
AY4CH-20-24	31	1.1/4”	20	1.1/2”	119,0	4,68	63,5	2,50	49,0	1,93	14,5	0,57
AY4CH-24-24	38	1.1/2”	24	1.1/2”	153,5	6,04	63,5	2,50	48,9	1,92	14,5	0,57
AY4CH-24-32	38	1.1/2”	24	2”	180,7	7,11	79,4	3,13	60,0	2,36	14,5	0,57
AY4CH-32-32	51	2”	32	2”	174,0	6,85	79,4	3,13	65,3	2,57	14,5	0,57

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AY6CH

“SUPERCAT” style - 60° elbow flange

NO SKIVE



FITTING
NPTF
JIC
ORFS
JIS
BSP-BSPT
METRIC
SAE 3000 CODE 61
SAE 6000 CODE 62
TAPERED SAE
SUPERCAT STYLE
STAPLE LOCK
H.P. STAPLE LOCK
LOK-IT

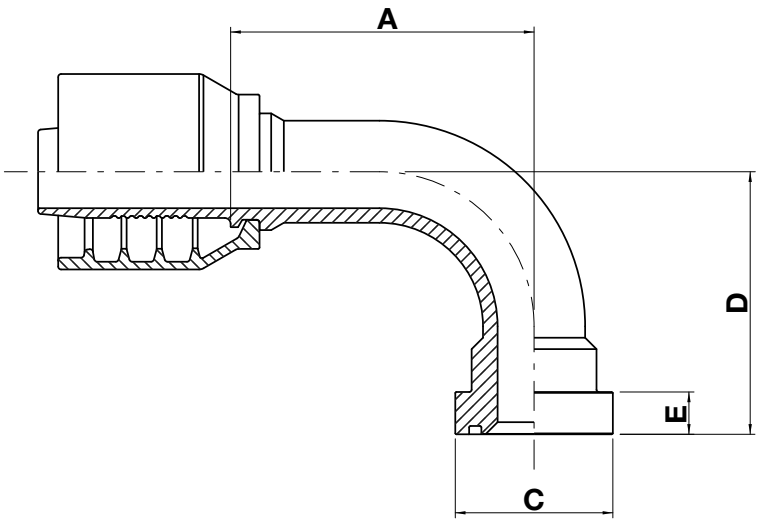
code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY6CH-20-20	31	1.1/4”	20	1.1/4”	114,5	4,51	54,0	2,13	59,0	2,32	14,5	0,57
AY6CH-20-24	31	1.1/4”	20	1.1/2”	137,0	5,39	63,5	2,50	67,2	2,65	14,5	0,57
AY6CH-24-24	38	1.1/2”	24	1.1/2”	153,5	6,04	63,5	2,50	68,7	2,70	14,5	0,57
AY4CH-32-32	51	2”	32	2”	174,0	6,85	79,4	3,13	91,7	3,61	14,5	0,57

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AY9CH

“SUPERCAT” style - 90° elbow flange

NO SKIVE



code	ø hose			flange	A		C		D		E	
	dn	inch	size		mm	in	mm	in	mm	in	mm	in
AY9CH-20-16	31	1.1/4”	20	1”	100,4	3,95	47,6	1,88	90,0	3,54	14,5	0,57
AY9CH-20-20	31	1.1/4”	20	1.1/4”	104,0	4,09	54,0	2,13	90,0	3,54	14,5	0,57
AY9CH-20-24	31	1.1/4”	20	1.1/2”	104,2	4,10	63,5	2,50	100,0	3,94	14,5	0,57
AY9CH-24-24	38	1.1/2”	24	1.1/2”	126,5	4,98	63,5	2,50	106,0	4,17	14,5	0,57
AY9CH-24-32	38	1.1/2”	24	2”	126,5	4,98	79,4	3,13	121,5	4,78	14,5	0,57
AY9CH-32-32	51	2”	32	2”	162,0	6,38	79,4	3,13	136,0	5,35	14,5	0,57

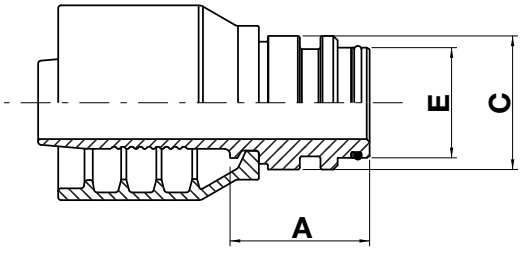
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For 6 spiral hoses

ST11H

Staple lock male

NO SKIVE



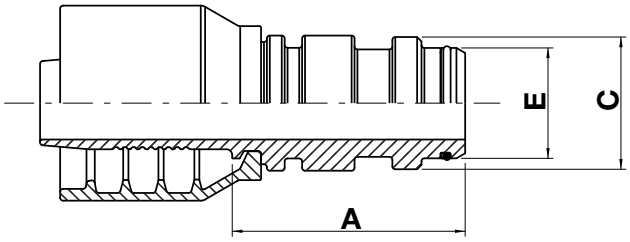
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
ST11H-20-20	31	1.1/4”	20	48,0	1,89	45,9	1,81	37,9	1,49
ST11H-24-24	38	1.1/2”	24	52,9	2,08	54,9	2,16	46,9	1,84
ST11H-32-32	51	2”	32	60,7	2,39	63,9	2,51	55,9	2,20

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SS11H

High pressure staple lock male

NO SKIVE



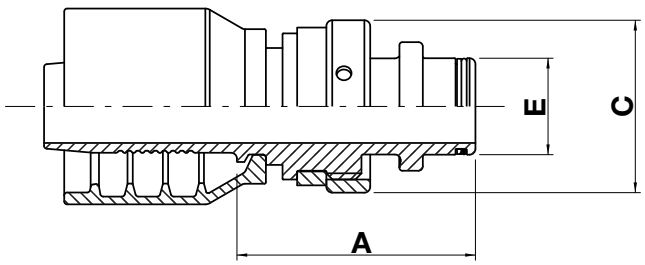
code	ø hose			A		C		E	
	dn	inch	size	mm	in	mm	in	mm	in
SS11H-20-20	31	1.1/4”	20	80,0	3,15	45,4	1,79	37,9	1,49
SS11H-24-24	38	1.1/2”	24	82,5	3,25	54,4	2,14	43,9	1,73
SS11H-32-32	51	2”	32	95,0	3,74	63,4	2,50	49,9	1,96

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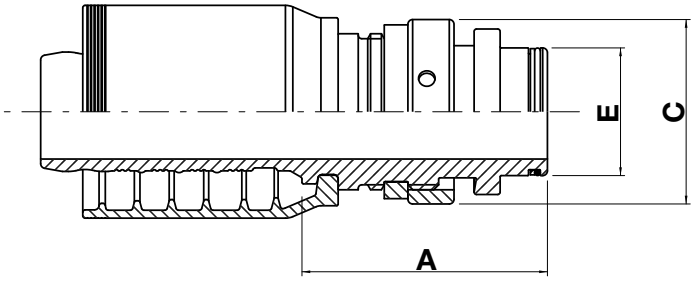
HVM11H HVM11HLZ

High pressure Lok-IT male

NO SKIVE



code	ø hose			C		E		A	
	dn	inch	size	mm	in	mm	in	mm	in
HVM11H-20-20	31	1.1/4”	20	52,0	2,04	33,0	1,29	79,0	3,11
HVM11H-24-24	38	1.1/2”	24	64,0	2,51	42,0	1,65	87,5	3,44
HVM11H-32-32	51	2”	32	85,0	3,34	54,0	2,12	92,0	3,62



HVM11HLZ-32-32*	51	2”	32	78,0	3,07	54,0	2,12	97,0	3,82

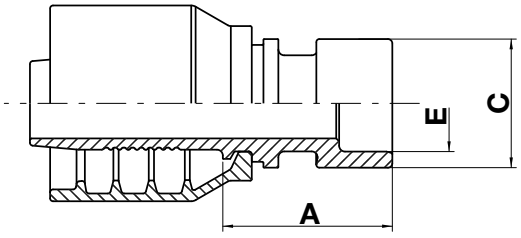
* heavy duty fitting

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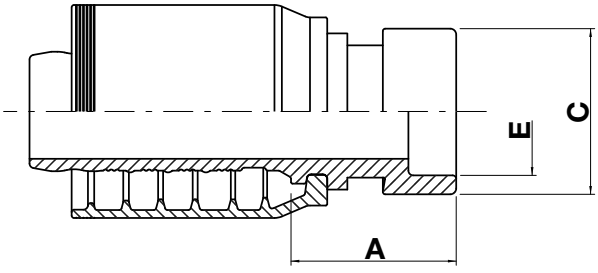
HVF10H HVF10HLZ

High pressure Lok-IT female

NO SKIVE



code	ø hose			C		E		A	
	dn	inch	size	mm	in	mm	in	mm	in
HVF10H-20-20	31	1.1/4”	20	44,0	1,73	33,0	1,29	58,0	2,28
HVF10H-24-24	38	1.1/2”	24	54,0	2,12	42,0	1,65	59,0	2,32
HVF10H-32-32	51	2”	32	70,0	2,75	54,0	2,12	68,7	2,70



HVF10HLZ-32-32*	51	2”	32	70,0	2,76	54,0	2,12	75,0	2,95

* heavy duty fitting

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T

SERIES

For SAE 100 R7 thermoplastic and R14 teflon hoses No skive

intertraco

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		KG91T	NPTF male swivel - 90° compact elbow	249
		FN10T	NPTF female rigid	250
		FN11T	NPSM female swivel (60° cone seat)	251
	JIC	MJ10T	JIC 37° male	252
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		FJ91T-L	JIC 37° female swivel - 90° elbow (long drop)	258
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		FL93T	Metric light female swivel - 90° elbow (24° cone seat)	279
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product	standard	code	description	page
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		FS93T	Metric heavy female swivel - 90° elbow (24° cone seat)	283
	-	WO10T	Brazing tail	284

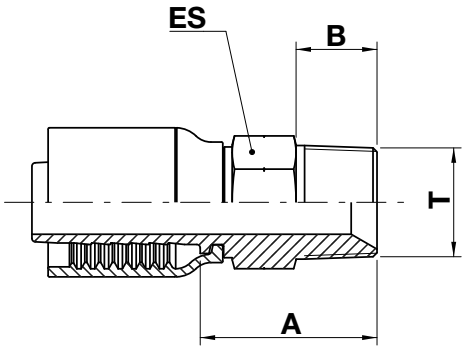
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MN10T

NPTF male (60° cone seat)

NO SKIVE

SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MN10T-02-02	3	1/8”	02	1/8”-27	20,8	0,82	9,5	0,37	11,11	0,437	7/16”
MN10T-02-04	3	1/8”	02	1/4”-18	25,3	1,00	14,0	0,55	14,0	0,551	9/16”
MN10T-03-02	5	3/16”	03	1/8”-27	20,5	0,81	9,5	0,37	11,11	0,437	7/16”
MN10T-03-04	5	3/16”	03	1/4”-18	25,5	1,00	14,0	0,55	14,0	0,551	9/16”
MN10T-04-02	6	1/4”	04	1/8”-27	22,0	0,87	9,5	0,37	14,0	0,551	9/16”
MN10T-04-04	6	1/4”	04	1/4”-18	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MN10T-04-06	6	1/4”	04	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10T-05-04	8	5/16”	05	1/4”-18	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MN10T-05-06	8	5/16”	05	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10T-06-04	10	3/8”	06	1/4”-18	26,5	1,04	14,0	0,55	17,0	0,669	11/16”
MN10T-06-06	10	3/8”	06	3/8”-18	28,0	1,10	14,0	0,55	19,0	0,748	3/4”
MN10T-06-08	10	3/8”	06	1/2”-14	33,0	1,30	19,0	0,75	22,0	0,866	7/8”
MN10T-08-06	12	1/2”	08	3/8”-18	28,5	1,12	14,0	0,55	19,0	0,748	3/4”
MN10T-08-08	12	1/2”	08	1/2”-14	33,5	1,32	19,0	0,75	22,0	0,866	7/8”
MN10T-10-08	16	5/8”	10	1/2”-14	33,5	1,32	19,0	0,75	24,0	0,945	15/16”
MN10T-12-12	19	3/4”	12	3/4”-14	41,5	1,63	19,0	0,75	27,0	1,063	1.1/16”
MN10T-16-16	25	1”	16	1”-11.1/2	48,0	1,89	24,0	0,94	36,0	1,417	1.1/16”

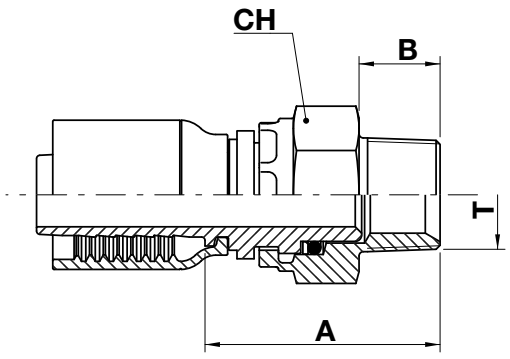
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MG10T

NPTF male swivel (60° cone seat)

NO SKIVE

SAE J514



code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
MG10T-03-04	5	3/16”	03	1/4”-18	32,3	1,27	14,0	0,55	17,0	0,669	11/16”
MG10T-04-04	6	1/4”	04	1/4”-18	36,5	1,44	14,0	0,55	17,0	0,669	11/16”
MG10T-06-04	10	3/8”	06	1/4”-18	33,5	1,32	14,0	0,55	17,0	0,669	11/16”
MG10T-06-06	10	3/8”	06	3/8”-18	41,8	1,65	14,0	0,55	22,0	0,866	7/8”
MG10T-08-08	12	1/2”	08	1/2”-14	42,0	1,65	19,0	0,75	27,0	1,063	1.1/16”
MG10T-12-12	19	3/4”	12	3/4”-14	55,0	2,17	19,4	0,76	36,0	1,417	1.1/16”
MG10T-16-16	25	1”	16	1”-11.1/2	62,5	2,46	24,2	0,95	38,0	1,496	1.1/2”

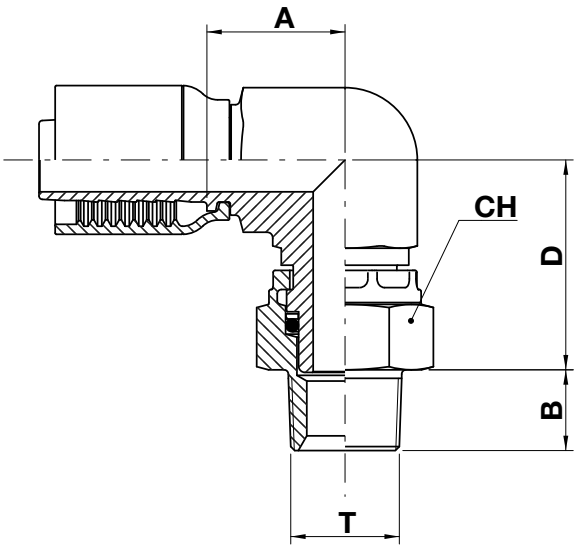
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KG91T KG96T

NPTF male swivel - 90° compact elbow

NO SKIVE

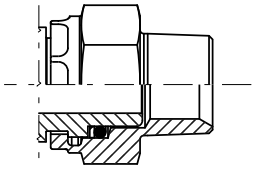
SAE J514



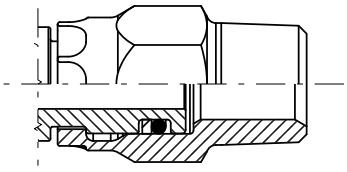
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KG91T-04-04	6	1/4”	04	1/4”-18	18,5	0,73	14,0	0,55	28,0	11,0	17,0	0,669	11/16”
KG96T-04-06	6	1/4”	04	3/8”-18	19,5	0,77	14,0	0,55	37,0	14,6	19,0	0,748	3/4”
KG96T-06-06	10	3/8”	06	3/8”-18	21,5	0,85	14,0	0,55	40,0	15,7	19,0	0,748	3/4”
KG91T-06-08	10	3/8”	06	1/2”-14	25,0	0,98	19,0	0,75	45,5	17,9	27,0	1,063	1.1/16”
KG91T-08-08	12	1/2”	08	1/2”-14	26,5	1,04	19,0	0,75	45,5	17,9	27,0	1,063	1.1/16”
KG91T-12-12	19	3/4”	12	3/4”-14	32,5	1,28	19,0	0,75	49,5	19,5	36,0	1,417	1.7/16”
KG91T-16-16	25	1”	16	1”-11.1/2	34,0	1,34	24,2	0,95	52,5	2,07	38,0	1,496	1.1/2”

Nut type

KG91



KG96 (imperial nut)



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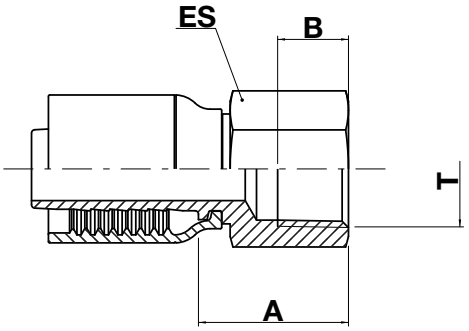
FN10T

T

NPTF female rigid

NO SKIVE

SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
FN10T-04-04	6	1/4”	04	1/4”-18	26,5	1,04	12,0	0,47	19,0	0,748	3/4”
FN10T-04-06	6	1/4”	04	3/8”-18	28,0	1,10	12,7	0,50	22,0	0,866	7/8”
FN10T-06-06	10	3/8”	06	3/8”-18	28,0	1,10	12,7	0,50	22,0	0,866	7/8”
FN10T-08-08	12	1/2”	08	1/2”-14	33,5	1,32	17,0	0,67	27,0	1,063	1.1/16”

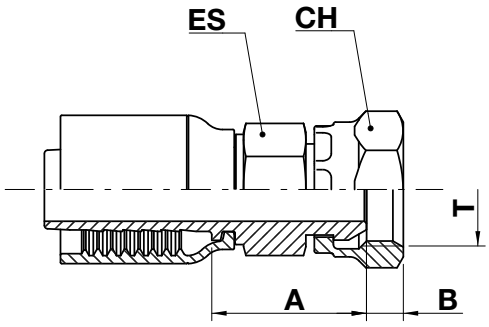
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FN11T

NPSM female swivel (60° cone seat)

NO SKIVE

SAE J514



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FN11T-02-04	3	1/8”	02	1/4”-18	22,8	0,90	4,2	0,17	19,0	0,748	3/4”	19,0	0,748	3/4”
FN11T-03-04	5	3/16”	03	1/4”-18	22,8	0,90	4,2	0,17	19,0	0,748	3/4”	19,0	0,748	3/4”
FN11T-04-04	6	1/4”	04	1/4”-18	24,0	0,94	4,2	0,17	14,0	0,551	9/16”	19,0	0,748	3/4”
FN11T-05-04	8	5/16”	05	1/4”-18	24,0	0,94	4,2	0,17	19,0	0,748	3/4”	19,0	0,748	3/4”
FN11T-06-06	10	3/8”	06	3/8”-18	26,5	1,04	5,7	0,22	22,0	0,866	7/8”	22,0	0,866	7/8”
FN11T-08-08	12	1/2”	08	1/2”-14	29,0	1,14	6,9	0,27	22,0	0,866	7/8”	27,0	1,063	1.1/16”

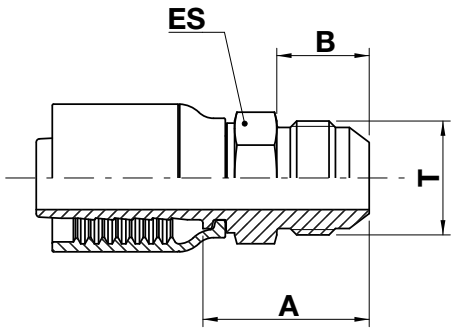
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MJ10T

JIC 37° male

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MJ10T-03-04	5	3/16”	03	7/16”-20	25,8	1,02	14,0	0,55	14,0	0,551	9/16”
MJ10T-04-04	6	1/4”	04	7/16”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10T-04-05	6	1/4”	04	1/2”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10T-04-06	6	1/4”	04	9/16”-18	27,5	1,08	14,0	0,55	17,0	0,669	11/16”
MJ10T-05-05	8	5/16”	05	1/2”-20	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MJ10T-05-06	8	5/16”	05	9/16”-18	27,5	1,08	14,1	0,56	17,0	0,669	11/16”
MJ10T-06-06	10	3/8”	06	9/16”-18	27,5	1,08	14,1	0,56	17,0	0,669	11/16”
MJ10T-06-08	10	3/8”	06	3/4”-16	30,2	1,19	16,7	0,66	19,0	0,748	3/4”
MJ10T-08-08	12	1/2”	08	3/4”-16	30,7	1,21	16,7	0,66	19,0	0,748	3/4”
MJ10T-08-10	12	1/2”	08	7/8”-14	35,0	1,38	19,3	0,76	24,0	0,945	15/16”
MJ10T-08-12	12	1/2”	08	1.1/16”-12	39,0	1,54	21,9	0,86	27,0	1,063	1.1/16”
MJ10T-12-12	19	3/4”	12	1.1/16”-12	39,4	1,55	21,9	0,86	27,0	1,063	1.1/16”

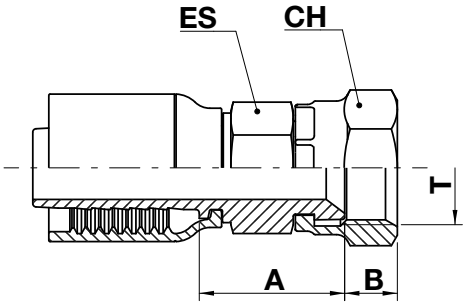
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FJ11T FJ16T

JIC 37° female swivel

NO SKIVE

ISO 8434-2 / SAE J514



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ11T-02-03	3	1/8”	02	3/8”-24	20,0	0,79	8,3	0,33	14,0	0,551	9/16”	14,0	0,551	9/16”
FJ11T-02-04	3	1/8”	02	7/16”-20	19,6	0,77	8,7	0,34	11,11	0,437	7/16”	14,0	0,551	9/16”
FJ11T-03-04	5	3/16”	03	7/16”-20	19,5	0,77	8,7	0,34	11,11	0,437	7/16”	14,0	0,551	9/16”
FJ11T-03-05	5	3/16”	03	1/2”-20	20,8	0,82	9,5	0,37	14,0	0,551	9/16”	17,0	0,669	11/16”
FJ11T-04-04	6	1/4”	04	7/16”-20	20,8	0,82	8,7	0,34	14,0	0,551	9/16”	14,0	0,551	9/16”
FJ11T-04-05	6	1/4”	04	1/2”-20	21,5	0,85	9,5	0,37	14,0	0,551	9/16”	17,0	0,669	11/16”
FJ11T-04-06	6	1/4”	04	9/16”-18	23,0	0,91	9,5	0,37	14,0	0,551	9/16”	190	0,748	3/4”
FJ16T-04-06	6	1/4”	04	9/16”-18	23,0	0,91	9,5	0,37	14,0	0,551	9/16”	17,46	0,687	11/16”
FJ11T-05-05	8	5/16”	05	1/2”-20	15,5	0,61	9,5	0,37	-	-	-	17,0	0,669	11/16”
FJ11T-05-06	8	5/16”	05	9/16”-18	21,0	0,83	9,5	0,37	14,0	0,551	9/16”	19,0	0,748	3/4”
FJ16T-05-06	8	5/16”	05	9/16”-18	21,0	0,83	9,5	0,37	14,0	0,551	9/16”	17,46	0,687	11/16”
FJ11T-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	19,0	0,748	3/4”
FJ16T-06-06	10	3/8”	06	9/16”-18	24,0	0,94	9,5	0,37	17,0	0,669	11/16”	17,46	0,687	11/16”
FJ11T-06-08	10	3/8”	06	3/4”-16	26,0	1,02	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ16T-08-06	12	1/2”	08	9/16”-18	26,5	1,04	9,5	0,37	19,0	0,748	3/4”	17,46	0,687	11/16”
FJ11T-08-08	12	1/2”	08	3/4”-16	26,5	1,04	10,7	0,42	19,0	0,748	3/4”	22,0	0,866	7/8”
FJ11T-08-10	12	1/2”	08	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FJ11T-08-12	12	1/2”	08	1.1/16”-12	34,0	1,34	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11T-10-10	16	5/8”	10	7/8”-14	28,5	1,12	12,7	0,50	22,0	0,866	7/8”	27,0	1,063	1.1/16”

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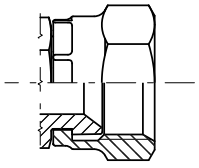
← FJ11T FJ16T

NO SKIVE

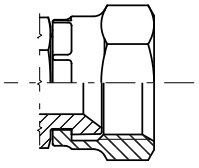
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FJ11T-10-12	16	5/8”	10	1.1/16”-12	34,0	1,34	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11T-12-12	19	3/4”	12	1.1/16”-12	34,5	1,36	14,3	0,56	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FJ11T-12-16	19	3/4”	12	1.5/16”-12	38,5	1,51	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ11T-14-16	22	7/8”	16	1.5/16”-12	37,5	1,48	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”
FJ11T-16-16	25	1”	16	1.5/16”-12	38,0	1,50	15,1	0,59	32,0	1,260	1.1/4”	38,0	1,496	1.1/2”

Nut type

FJ11



FJ16 (imperial nut)



←

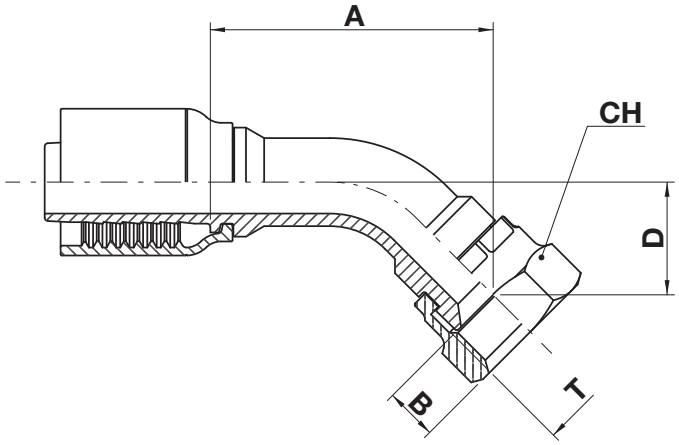
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FJ41T FJ43T FJ46T

JIC 37° female swivel - 45° elbow

NO SKIVE

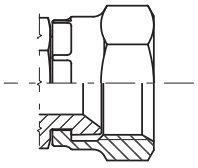
ISO 8434-2 / SAE J514



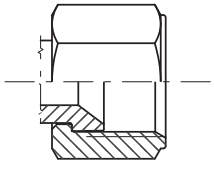
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ41T-03-04	5	3/16”	03	7/16”-20	30,3	1,19	8,7	0,34	11,1	0,44	14,0	0,551	9/16”
FJ41T-04-04	6	1/4”	04	7/16”-20	32,0	1,26	8,7	0,34	11,1	0,44	14,0	0,551	9/16”
FJ41T-04-05	6	1/4”	04	1/2”-20	34,5	1,36	10,5	0,41	14,8	0,58	17,0	0,669	11/16”
FJ43T-04-06	6	1/4”	04	9/16”-18	33,1	1,30	9,5	0,37	13,4	0,53	19,0	0,748	3/4”
FJ41T-05-06	8	5/16”	05	9/16”-18	30,9	1,22	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ41T-05-06	8	5/16”	05	9/16”-18	30,9	1,22	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ41T-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	19,0	0,748	3/4”
FJ46T-06-06	10	3/8”	06	9/16”-18	33,9	1,33	9,5	0,37	12,1	0,48	17,46	0,687	11/16”
FJ43T-06-08	10	3/8”	06	3/4”-16	42,5	1,67	10,7	0,42	15,0	0,59	22,0	0,866	7/8”
FJ41T-08-08	12	1/2”	08	3/4”-16	40,7	1,60	10,7	0,42	13,8	0,54	22,0	0,866	7/8”
FJ43T-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	16,0	0,63	27,0	1,063	1.1/16”
FJ41T-10-10	16	5/8”	10	7/8”-14	54,0	2,13	12,7	0,50	16,0	0,63	27,0	1,063	1.1/16”
FJ41T-10-12	16	5/8”	10	1.1/16”-12	60,5	2,38	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41T-12-12	19	3/4”	12	1.1/16”-12	64,5	2,54	14,3	0,56	21,0	0,83	32,0	1,260	1.1/4”
FJ41T-16-16	25	1”	16	1.5/16”-12	86,0	3,38	15,1	0,59	34,5	1,36	38,0	1,496	1.1/2”

Nut type

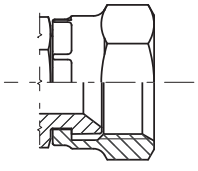
FJ41



FJ43



FJ46 (imperial nut)



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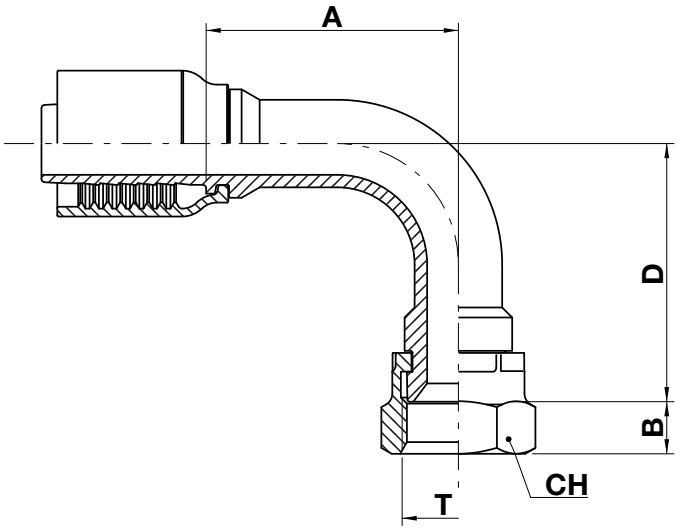
FJ91T FJ93T FJ96T

T

JIC 37° female swivel - 90° elbow

NO SKIVE

ISO 8434-2 / SAE J514



FITTING
NPTF- NPSM
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC

code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91T-03-04	5	3/16”	03	7/16”-20	26,5	1,04	8,7	0,34	21,0	0,83	14,0	0,551	9/16”
FJ91T-04-04	6	1/4”	04	7/16”-20	27,0	1,06	8,7	0,34	21,0	0,83	14,0	0,551	9/16”
FJ91T-04-05	6	1/4”	04	1/2”-20	30,7	1,21	9,5	0,37	30,0	1,18	17,0	0,669	11/16”
FJ93T-04-06	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	28,0	1,10	19,0	0,748	3/4”
FJ96T-04-06	6	1/4”	04	9/16”-18	28,5	1,12	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ91T-05-05	8	5/16”	05	1/2”-20	32,8	1,29	9,5	0,37	30,0	1,18	17,0	0,669	11/16”
FJ91T-05-06	8	5/16”	05	9/16”-18	33,9	1,33	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ96T-05-06	8	5/16”	05	9/16”-18	33,9	1,33	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ91T-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	19,0	0,748	3/4”
FJ96T-06-06	10	3/8”	06	9/16”-18	27,8	1,09	9,5	0,37	23,0	0,91	17,46	0,687	11/16”
FJ93T-06-08	10	3/8”	06	3/4”-16	35,0	1,38	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ91T-08-08	12	1/2”	08	3/4”-16	39,5	1,56	10,7	0,42	30,0	1,18	22,0	0,866	7/8”
FJ93T-08-10	12	1/2”	08	7/8”-14	44,0	1,73	12,5	0,49	32,0	1,26	27,0	1,063	1.1/16”
FJ91T-10-10	16	5/8”	10	7/8”-14	48,5	1,91	12,7	0,50	32,0	1,26	27,0	1,063	1.1/16”
FJ91T-10-12	16	5/8”	10	1.1/16”-12	56,0	2,26	14,3	0,56	48,0	1,89	32,0	1,260	1.1/4”
FJ91T-12-12	19	3/4”	12	1.1/16”-12	61,0	2,41	13,8	0,54	48,0	1,89	32,0	1,260	1.1/4”
FJ91T-16-16	25	1”	16	1.5/16”-12	75,5	2,97	15,1	0,59	71,0	2,80	38,0	1,496	1.1/2”

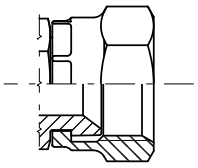
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← **FJ91T** FJ93T FJ96T

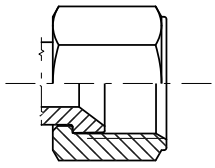
NO SKIVE

Nut type

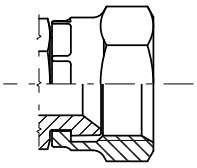
FJ91



FJ93



FJ96 (imperial nut)



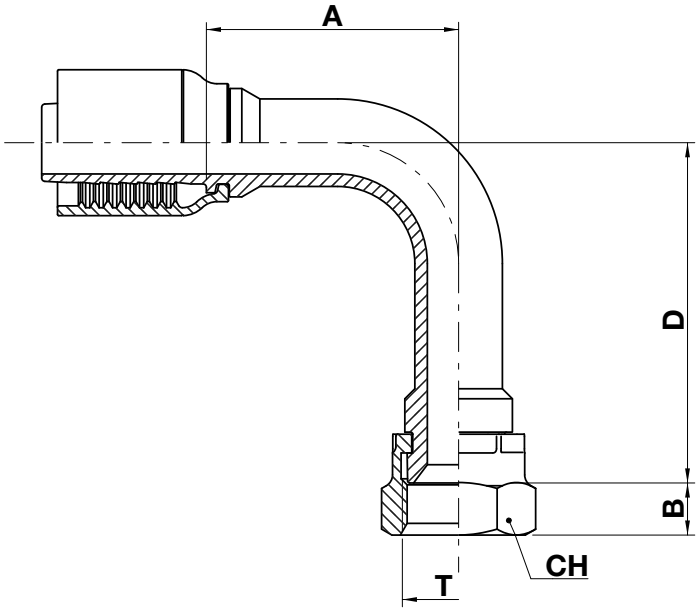
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FJ91T-L FJ96T-L

JIC 37° female swivel - 90° elbow (long drop)

NO SKIVE

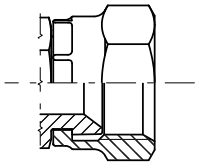
ISO 8434-2 / SAE J514



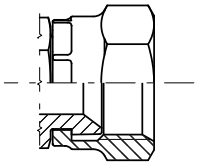
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FJ91T-04-04-L	6	1/4”	04	7/16”-20	29,5	1,16	8,7	0,34	46,0	1,81	14,0	0,551	9/16”
FJ91T-04-05-L	6	1/4”	04	1/2”-20	30,7	1,21	9,5	0,37	46,0	1,81	17,0	0,669	11/16”
FJ91T-05-06-L	8	5/16”	05	9/16”-18	35,5	1,40	9,5	0,37	56,0	2,20	19,0	0,748	3/4”
FJ91T-06-06-L	10	3/8”	06	9/16”-18	35,5	1,40	9,5	0,37	56,0	2,20	19,0	0,748	3/4”
FJ91T-08-08-L	12	1/2”	08	3/4”-16	46,5	1,83	10,7	0,42	62,0	2,44	22,0	0,866	7/8”

Nut type

FJ91



FJ96 (imperial nut)



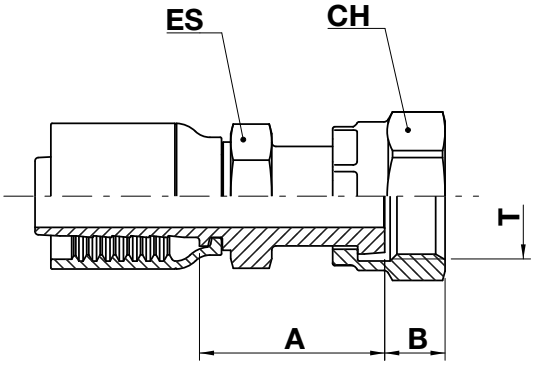
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OR13T

ORFS female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR13T-04-04	6	1/4”	04	9/16”-18	28,0	1,10	8,0	0,31	14,0	0,551	9/16”	17,0	0,669	11/16”
OR13T-04-06	6	1/4”	04	11/16”-16	31,5	1,24	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13T-05-06	8	5/16”	05	11/16”-16	32,0	1,26	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13T-06-06	10	3/8”	06	11/16”-16	32,0	1,26	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR13T-06-08	10	3/8”	06	13/16”-16	36,5	1,44	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13T-08-08	12	1/2”	08	13/16”-16	35,0	1,38	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR13T-08-10	12	1/2”	08	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1,3/16”
OR13T-10-10	16	5/8”	10	1”-14	39,0	1,54	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR13T-10-12	16	5/8”	10	1,3/16”-12	44,0	1,73	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1,7/16”
OR13T-12-12	19	3/4”	12	1,3/16”-12	44,6	1,76	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR13T-16-16	25	1”	16	1,7/16”-12	53,0	2,09	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1,5/8”

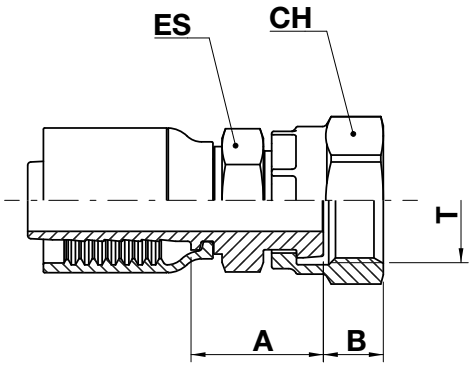
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OR11T

ORFS short female swivel

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
OR11T-04-04	6	1/4”	04	9/16”-18	22,0	0,87	8,0	0,31	14,0	0,551	9/16”	17,0	0,669	11/16”
OR11T-04-06	6	1/4”	04	11/16”-16	23,5	0,92	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR11T-06-06	10	3/8”	06	11/16”-16	23,5	0,92	9,5	0,37	17,0	0,669	11/16”	22,0	0,866	7/8”
OR11T-06-08	10	3/8”	06	13/16”-16	27,0	1,06	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11T-08-08	12	1/2”	08	13/16”-16	27,5	1,08	11,0	0,43	19,0	0,748	3/4”	24,0	0,945	15/16”
OR11T-08-10	12	1/2”	08	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11T-10-10	16	5/8”	10	1”-14	29,0	1,14	13,5	0,53	24,0	0,945	15/16”	30,0	1,181	1.3/16”
OR11T-10-12	16	5/8”	10	1.3/16”-12	31,5	1,24	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11T-12-12	19	3/4”	12	1.3/16”-12	32,0	1,26	14,5	0,57	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
OR11T-16-16	25	1”	16	1.7/16”-12	40,0	1,57	14,8	0,58	36,0	1,417	1.7/16”	41,0	1,614	1.5/8”

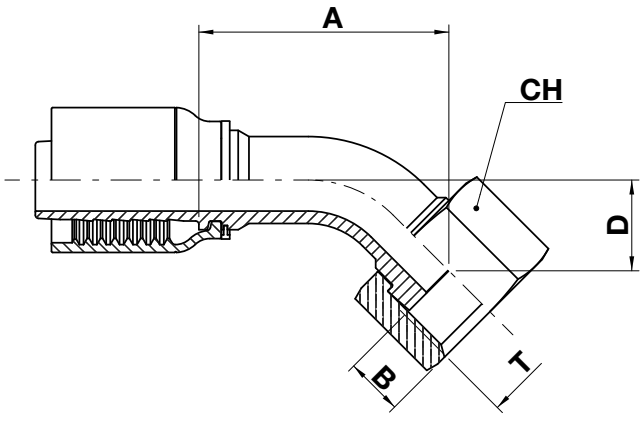
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OR44T

ORFS female swivel - 45° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR44T-04-04	6	1/4”	04	9/16”-18	29,5	1,16	8,0	0,31	10,0	0,39	17,0	0,669	11/16”
OR44T-04-06	6	1/4”	04	11/16”-16	29,0	1,14	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44T-05-06	8	5/16”	5	11/16”-16	35,5	1,40	9,5	0,37	11,0	0,43	22,0	0,866	7/8”
OR44T-08-08	12	1/2”	08	13/16”-16	43,0	1,69	11,0	0,43	15,0	0,59	24,0	0,945	15/16”
OR44T-10-10	16	5/8”	10	1”-14	48,5	1,91	13,5	0,53	16,0	0,63	30,0	1,181	1.3/16”
OR44T-10-12	16	5/8”	10	1,3/16”-12	60,5	2,38	14,5	0,57	23,0	0,90	36,0	1,417	1.7/16”
OR44T-12-12	19	3/4”	12	1.3/16”-12	62,0	2,44	14,5	0,57	21,0	0,83	36,0	1,417	1.7/16”
OR44T-12-16	19	3/4”	12	1.7/16”-12	63,0	2,48	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”
OR44T-16-16	25	1”	16	1.7/16”-12	73,0	2,87	14,8	0,58	24,0	0,94	41,0	1,614	1.5/8”

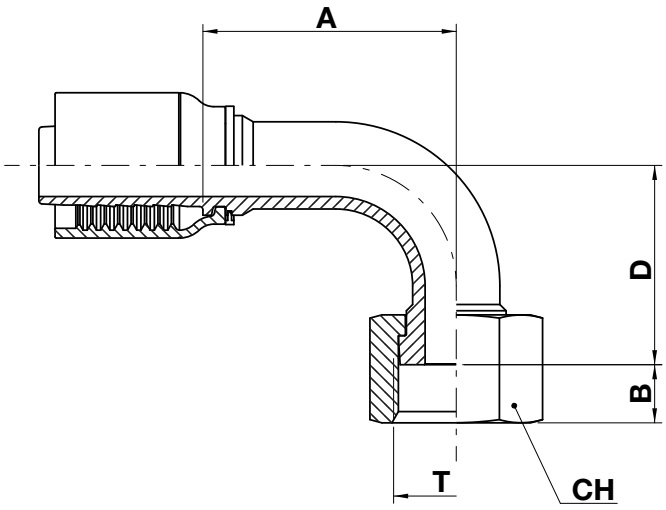
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OR94T

ORFS female swivel - 90° elbow

NO SKIVE

ISO 8434-3 / SAE J1453



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
OR94T-03-04	5	3/16”	03	9/16”-18	28,4	1,12	8,0	0,31	25,0	0,98	17,0	0,669	11/16”
OR94T-04-04	6	1/4”	04	9/16”-18	22,0	0,87	8,0	0,31	22,0	0,87	17,46	0,687	11/16”
OR94T-04-06	6	1/4”	04	11/16”-16	27,5	1,08	9,5	0,37	23,0	0,90	22,0	0,866	7/8”
OR94T-05-06	8	5/16”	05	11/16”-16	31,5	1,24	9,5	0,37	24,0	0,94	22,0	0,866	7/8”
OR94T-06-06	10	3/8”	06	11/16”-16	31,5	1,24	9,5	0,37	24,0	0,94	22,0	0,866	7/8”
OR94T-06-08	10	3/8”	06	13/16”-16	30,0	1,18	9,5	0,37	30,0	1,18	20,63	0,812	13/16”
OR94T-08-08	12	1/2”	08	13/16”-16	44,5	1,75	11,0	0,43	29,0	1,14	24,0	0,945	15/16”
OR94T-08-10	12	1/2”	08	1”-14	37,5	1,48	13,5	0,53	33,0	1,30	30,0	1,181	1.3/16”
OR94T-10-10	16	5/8”	10	1”-14	46,5	1,83	13,5	0,53	32,0	1,26	30,0	1,181	1.3/16”
OR94T-10-12	16	5/8”	10	13/16”-12	53,5	2,11	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR94T-12-12	19	3/4”	12	1.3/16”-12	61,0	2,40	14,5	0,57	48,0	1,89	36,0	1,417	1.7/16”
OR94T-12-16	19	3/4”	12	1.3/16”-12	57,0	2,24	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”
OR94T-16-16	25	3/4”	16	1.3/16”-12	71,0	2,80	13,8	0,54	56,0	2,20	41,0	1,614	1.5/8”

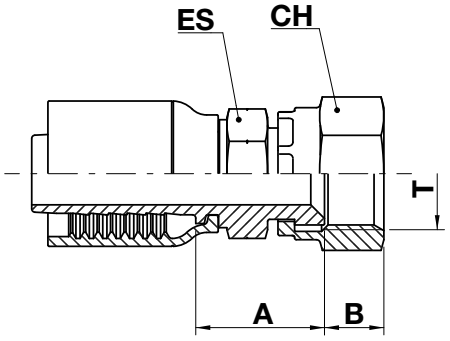
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FU11T

SAE 45° female swivel

NO SKIVE

SAE J512



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FU11T-02-04	3	1/8”	02	7/16”-20	19,6	0,77	8,7	0,34	10,0	0,394	-	15,0	0,591	5/8”
FU11T-04-04	6	1/4”	04	7/16”-20	20,5	0,80	8,7	0,34	14,0	0,551	9/16”	14,0	0,551	9/16”
FU11T-04-06	6	1/4”	04	5/8”-18	24,0	0,94	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11T-05-06	8	5/16”	05	5/8”-18	24,0	0,94	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11T-06-06	10	3/8”	06	5/8”-18	24,0	0,94	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11T-08-08	12	1/2”	8	3/4”-16	28,0	1,10	10,8	0,43	19,0	0,748	3/4”	22,0	0,866	7/8”
FU11T-10-12	16	5/8”	10	1.1/16”-14	30,5	1,20	14,4	0,57	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FU11T-12-12	19	3/4”	12	1.1/16”-14	31,0	1,22	14,4	0,57	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”

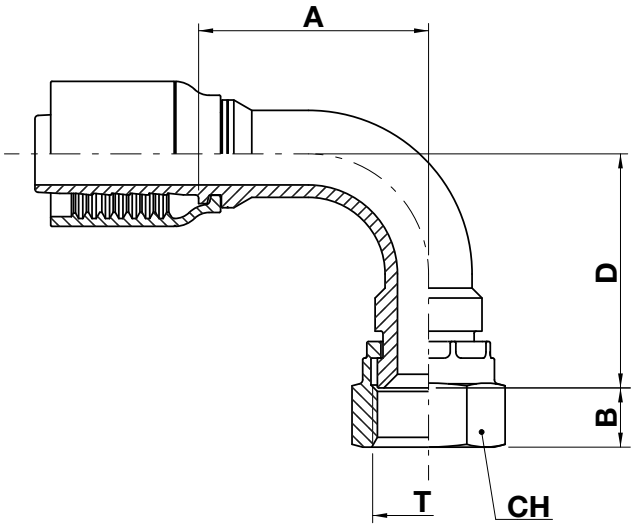
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FU91T

SAE 45° female swivel - 90° elbow

NO SKIVE

SAE J512



code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FU91T-04-04	6	1/4”	04	7/16”-20	23,5	1,00	8,7	0,34	24,5	0,96	14,0	0,551	9/16”
FU91T-06-06	10	3/8”	06	5/8”-18	37,0	1,46	10,8	0,43	37,0	1,46	22,0	0,866	7/8”
FU91T-08-08	12	1/2”	08	3/4”-16	40,0	1,57	10,8	0,43	35,6	1,40	22,0	0,866	7/8”
FU91T-12-12	16	5/8”	10	1.1/16”-14	55,5	2,19	14,4	0,57	56,5	2,22	32,0	1,260	1.1/4”

FITTING
NPTF- NPSM
JIC
ORFS
SAE
JIS
BSP-BSPT
METRIC

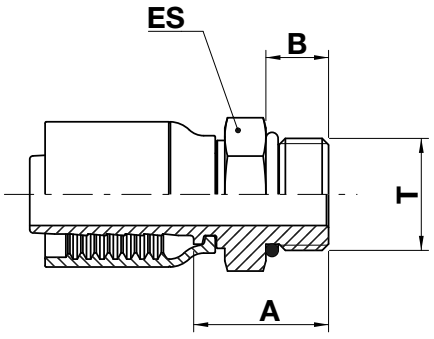
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ME10T*

O-ring boss male

NO SKIVE

SAE J1926



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
ME10T-04-04	6	1/4”	04	7/16”-20	22,0	0,87	9,15	0,36	14,0	0,551	9/16”
ME10T-04-05	6	1/4”	04	1/2”-20	23,5	0,93	9,15	0,36	17,0	0,669	11/16”
ME10T-04-06	6	1/4”	04	9/16”-18	24,5	0,96	10,0	0,39	17,0	0,669	11/16”
ME10T-06-06	10	3/8”	06	9/16”-18	24,5	0,96	9, 9	0,39	17,0	0,669	11/16”
ME10T-06-08	10	3/8”	06	3/4”-16	26,5	1,04	11,1	0,44	22,0	0,866	7/8”
ME10T-06-10	10	3/8”	06	7/8”-14	28,5	1,12	12,7	0,50	27,0	1,063	1.1/16”
ME10T-08-08	12	1/2”	08	3/4”-16	27,0	1,06	11,1	0,44	22,0	0,866	7/8”
ME10T-08-10	12	1/2”	08	7/8”-14	29,0	1,14	12,7	0,50	27,0	1,063	1.1/16”
ME10T-08-12	12	1/2”	08	1.1/16”-12	32,0	1,26	15,1	0,59	32,0	1,260	1.1/4”
ME10T-10-08	16	5/8”	10	3/4”-16	27,5	1,08	11,1	0,44	24,0	0,945	15/16”
ME10T-10-10	16	5/8”	10	7/8”-14	29,0	1,14	12,7	0,50	27,0	1,063	1.1/16”
ME10T-10-12	16	5/8”	10	1.1/16”-12	32,0	1,26	15,0	0,59	32,0,	1,260	1.1/4”
ME10T-12-12	19	3/4”	12	1.1/16”-12	32,5	1,28	15,0	0,59	32,0	1,260	1.1/4”
ME10T-12-14	19	3/4”	12	1.3/16”-12	37,5	1,48	15,1	0,59	36,0	1,417	1.7/16”
ME10T-12-16	19	3/4”	12	1.5/16”-12	38,5	1,52	15,1	0,59	36,0	1,417	1.7/16”
ME10T-16-16	25	1”	16	1.5/16”-12	39,1	1,54	15,1	0,59	38,0	1,496	1.1/2”

* Complete with O-ring

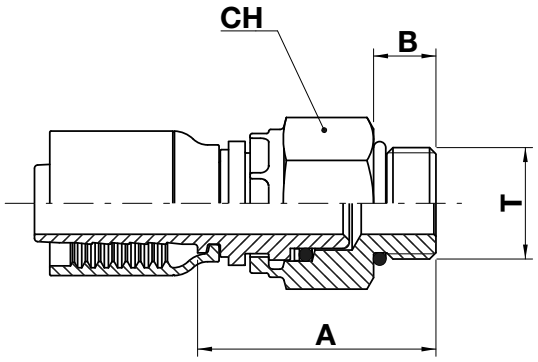
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MV10T

O-ring boss male swivel

NO SKIVE

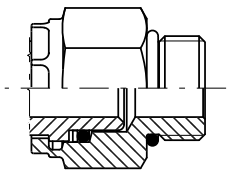
SAE J1926



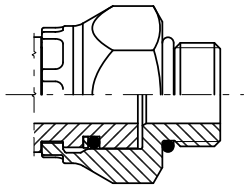
code	ø hose			T	A		B		CH		
	dn	inch	size		mm	in	mm	in	mm	in	in
MV10T-04-04	6	1/4”	04	7/16”-20	36,5	1,44	9,1	0,36	17,0	0,669	11/16”
MV16T-04-06	6	1/4”	04	9/16”-18	44,5	1,75	9,9	0,39	19,0	0,750	3/4”
MV16T-06-06	10	3/8”	06	9/16”-18	42,5	1,67	9,9	0,39	19,0	0,750	3/4”
MV10T-06-08	10	3/8”	06	3/4”-16	47,5	1,87	11,1	0,44	27,0	1,063	1.1/16”
MV10T-08-08	12	1/2”	08	3/4”-16	48,0	1,89	11,1	0,44	27,0	1,063	1.1/16”
MV10T-08-10	12	1/2”	08	7/8”-14	51,0	2,01	12,7	0,50	27,0	1,063	1.1/16”
MV10T-08-12	12	1/2”	08	1.1/16”-12	57,5	2,26	15,1	0,59	36,0	1,417	1.7/16”
MV10T-10-10	16	5/8”	10	7/8”-14	51,0	2,01	12,7	0,50	27,0	1,063	1.1/16”
MV10T-12-12	19	3/4”	12	1.1/16”-12	57,5	2,26	15,1	0,59	36,0	1,417	1.7/16”
MV10T-16-16	25	1”	16	1.5/16”-12	62,0	2,44	15,1	0,59	38,0	1,496	1.1/2”

Nut type

MV10



MV16



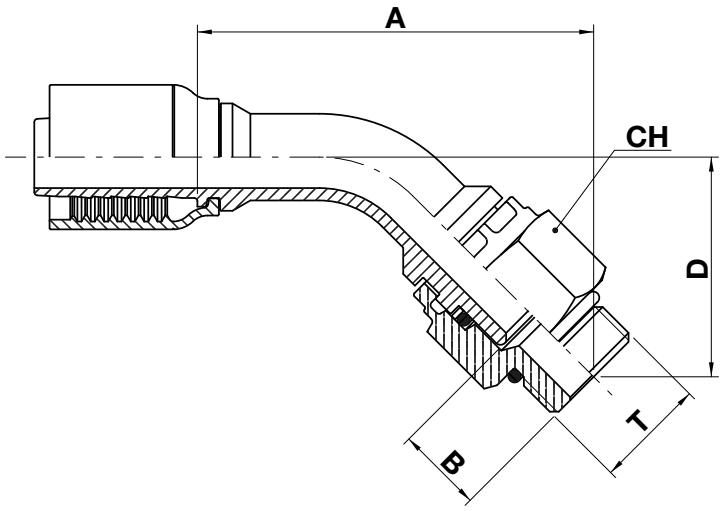
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MV40T

O-ring boss male swivel - 45° elbow

NO SKIVE

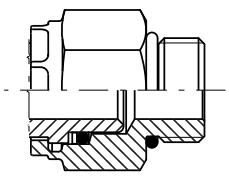
SAE J1926



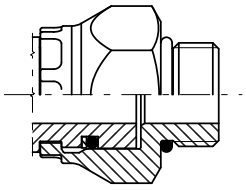
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MV40T-04-04	6	1/4”	04	7/16”-20	58,5	2,30	9,1	0,36	27,5	1,08	17,0	0,67	11/16”
MV46T-04-06	6	1/4”	04	9/16”-18	65,8	2,59	9,9	0,39	35,2	1,38	19,0	0,750	3/4”
MV46T-06-06	10	3/8”	06	9/16”-18	72,5	2,85	9,9	0,39	35,2	1,38	19,0	0,750	3/4”
MV40T-06-08	10	3/8”	06	3/4”-16	73,0	2,87	11,1	0,44	38,5	1,52	27,0	1,06	1.1/16”
MV40T-06-10	10	3/8”	06	7/8”-14	74,0	2,91	12,7	0,50	39,5	1,56	27,0	1,06	1.1/16”
MV40T-08-08	12	1/2”	08	3/4”-16	81,8	3,22	11,1	0,44	40,7	1,60	27,0	1,06	1.1/16”
MV40T-08-10	12	1/2”	08	7/8”-14	83,0	3,27	12,7	0,50	42,0	1,65	27,0	1,06	1.1/16”
MV40T-08-12	12	1/2”	08	1.1/16”-12	103,0	4,06	15,1	0,59	51,7	2,04	36,0	1,42	1.7/16”
MV40T-12-12	19	3/4”	12	1.1/16”-12	117,0	4,61	15,1	0,59	49,0	1,93	36,0	1,42	1.7/16”
MV40T-16-16	25	1”	16	1.5/16”-12	93,4	3,68	15,1	0,59	43,6	1,72	38,0	1,496	1.1/2”

Nut type

MV40



MV46



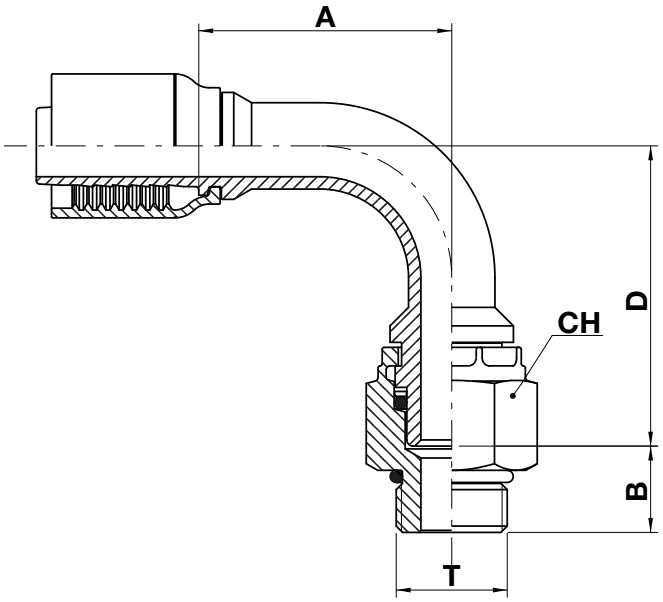
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MV90T

O-ring boss male swivel - 90° elbow

NO SKIVE

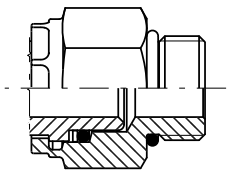
SAE J1926



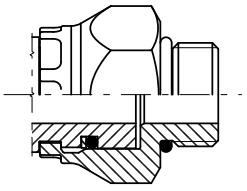
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
MV90T-04-04	6	1/4”	04	7/16”-20	28,0	1,10	9,1	0,36	38,5	1,52	17,0	0,669	11/16”
MV96T-04-06	6	1/4”	04	9/16”-18	28,0	1,10	9,9	0,39	48,3	1,90	19,0	0,750	3/4”
MV96T-06-06	10	3/8”	06	9/16”-18	34,5	1,36	9,9	0,39	49,8	1,96	19,0	0,750	3/4”
MV90T-06-08	10	3/8”	06	3/4”-16	31,5	1,24	11,1	0,44	52,0	2,05	27,0	1,063	1.1/16”
MV90T-06-10	10	3/8”	06	7/8”-14	31,5	1,24	12,7	0,50	52,0	2,05	27,0	1,063	1.1/16”
MV90T-08-08	12	1/2”	08	3/4”-16	37,5	1,48	11,1	0,44	57,0	2,24	27,0	1,063	1.1/16”
MV90T-08-10	12	1/2”	08	7/8”-14	37,5	1,48	12,7	0,50	57,0	2,24	27,0	1,063	1.1/16”
MV90T-08-12	12	1/2”	08	1.1/16”-12	46,5	1,83	15,1	0,59	72,0	2,83	36,0	1,417	1.7/16”
MV90T-12-12	19	3/4”	12	1.1/16”-12	61,5	2,42	15,1	0,59	73,0	2,88	36,0	1,417	1.7/16”
MV90T-16-16	25	1”	16	1.5/16”-12	72,0	2,83	15,1	0,59	84,5	3,33	38,0	1,496	1.1/2”

Nut type

MV90



MV96



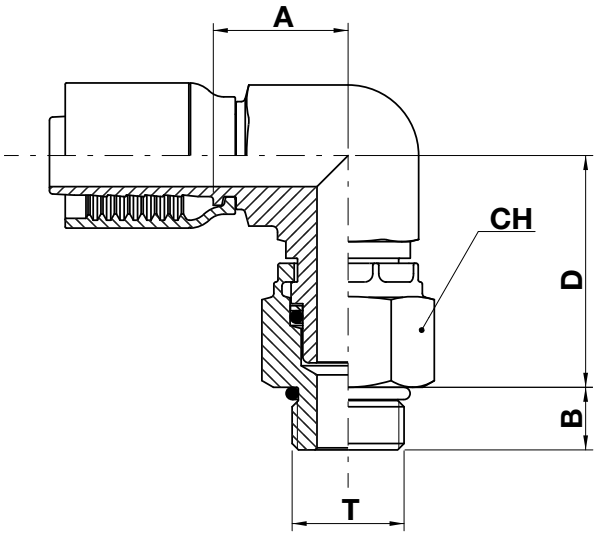
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KV91T KV96T

O-Ring boss male swivel - 90° compact elbow

NO SKIVE

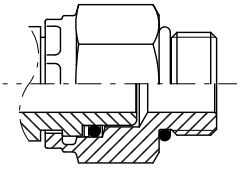
SAE J1926



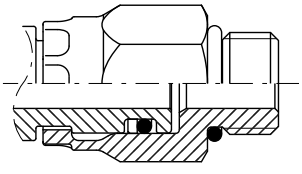
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
KV91T-04-04	6	1/4”	04	7/16”-20	18,5	0,73	9,2	0,36	32,8	1,29	17,0	0,669	11/16”
KV96T-04-06	6	1/4”	04	9/16”-18	19,5	0,77	10,0	0,39	39,0	1,54	19,0	0,748	3/4”
KV96T-06-06	10	3/8”	06	9/16”-18	21,5	0,85	10,0	0,39	42,0	1,65	19,0	0,748	3/4”
KV91T-06-08	10	3/8”	06	3/4”-16	25,0	0,98	11,1	0,44	47,4	1,87	27,0	1,063	1.1/16”
KV91T-06-10	10	3/8”	06	7/8”-14	25,0	0,98	12,7	0,50	48,8	1,92	27,0	1,063	1.1/16”
KV91T-08-08	12	1/2”	08	3/4”-16	26,5	1,04	11,1	0,44	47,4	1,87	27,0	1,063	1.1/16”
KV91T-08-10	12	1/2”	08	7/8”-14	26,5	1,04	12,7	0,50	48,8	1,92	27,0	1,063	1.1/16”
KV91T-12-12	19	3/4”	12	1.1/16”-12	32,5	1,28	15,1	0,59	55,9	2,20	36,0	1,417	1.7/16”

Nut type

KV91



KV96 (imperial nut)



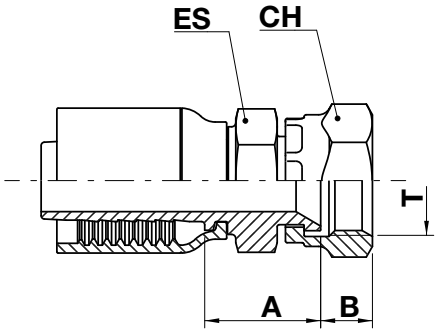
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FT11T

T

Japanese “T” style termination female swivel 60° cone

NO SKIVE



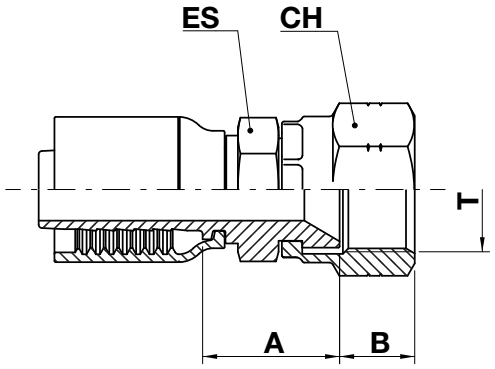
code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FT11T-04-04	6	1/4”	04	1/4”-19	21,0	0,83	8,0	0,31	19,0	0,748	3/4”	19,0	0,748	3/4”
FT11T-06-06	10	3/8”	06	3/8”-19	22,0	0,87	9,5	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FT11T-08-08	12	1/2”	08	1/2”-14	25,0	0,98	11,0	0,43	22,0	0,866	7/8”	27,0	1,063	1.1/16”

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FK11T

Japanese “KOM” style termination female swivel 60° cone

NO SKIVE



code	ø hose			T	A		B		ES			CH		
	dn	inch	size		mm	in	mm	in	mm	in	in	mm	in	in
FK11T-04-12	6	1/4”	04	M12X1,5	23,0	0,91	8,7	0,34	14,0	0,551	9/16”	17,0	0,669	11/16”
FK11T-04-14	6	1/4”	04	M14X1,5	24,0	0,94	10,0	0,39	19,0	0,748	3/4”	19,0	0,748	3/4”
FK11T-06-14	10	3/8”	06	M14X1,5	25,0	0,98	10,0	0,39	19,0	0,748	3/4”	19,0	0,748	3/4”
FK11T-06-16	10	3/8”	06	M16X1,5	23,0	0,91	9,3	0,37	19,0	0,748	3/4”	22,0	0,866	7/8”
FK11T-06-18	10	3/8”	06	M18X1,5	24,0	0,94	11,5	0,45	19,0	0,748	3/4”	24,0	0,945	15/16”
FK11T-06-20	10	3/8”	06	M20X1,5	25,5	1,00	11,2	0,44	19,0	0,748	3/4”	27,0	1,063	1.1/16”
FK11T-06-22	10	3/8”	06	M22X1,5	25,5	1,00	14,0	0,55	19,0	0,748	3/4”	27,0	1,063	1.1/16”
FK11T-08-22	12	1/2”	08	M22X1,5	27,0	1,06	14,0	0,55	22,0	0,866	7/8”	27,0	1,063	1.1/16”
FK11T-08-24	12	1/2”	08	M24X1,5	28,5	1,12	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1.1/4”
FK11T-10-24	16	5/8”	10	M24X1,5	28,5	1,12	15,1	0,59	24,0	0,945	15/16”	32,0	1,260	1.1/4”
FK11T-12-24	19	3/4”	12	M24X1,5	29,9	1,18	15,1	0,59	27,0	1,063	1.1/16”	32,0	1,260	1.1/4”
FK11T-12-30	19	3/4”	12	M30X1,5	33,0	1,30	18,3	0,72	30,0	1,181	1.3/16”	36,0	1,417	1.7/16”
FK11T-12-33	19	3/4”	12	M33X1,5	32,0	1,26	21,3	0,84	32,0	1,260	1.1/4”	41,0	1,614	1.5/8”

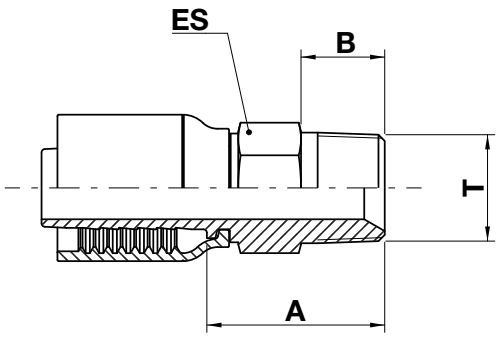
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MT10T

T

BSPT tapered male 60° cone

NO SKIVE



code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
MT10T-03-02	5	3/16”	03	1/8”-28	21,0	0,83	9,7	0,38	12,0	0,472	1/2”
MT10T-03-04	5	3/16”	03	1/4”-19	25,3	1,00	14,0	0,55	14,0	0,551	9/16”
MT10T-04-02	6	1/4”	04	1/8”-28	24,5	0,89	12,0	0,47	12,0	0,472	1/2”
MT10T-04-04	6	1/4”	04	1/4”-19	26,5	1,04	14,0	0,55	14,0	0,551	9/16”
MT10T-05-06	8	5/16”	05	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10T-06-04	10	3/8”	06	1/4”-19	24,5	0,96	14,0	0,55	14,0	0,551	9/16”
MT10T-06-06	10	3/8”	06	3/8”-19	29,0	1,14	15,0	0,59	19,0	0,748	3/4”
MT10T-08-08	12	1/2”	08	1/2”-14	32,5	1,28	18,0	0,71	22,0	0,866	7/8”
MT10T-12-12	19	3/4”	12	3/4”-14	42,5	1,67	20,0	0,79	27,0	1,063	1.1/16”
MT10T-16-16	25	1”	16	1”-11	47,0	1,85	23,0	0,91	36,0	1,417	1.7/16”

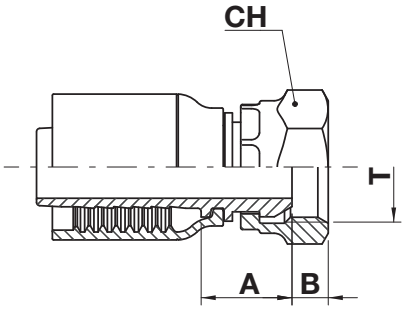
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FB13T FB11T FB12T

BSP female swivel 60° cone

NO SKIVE

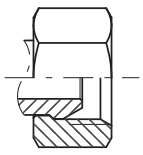
ISO 8434-6 / BS 5200



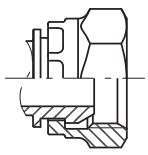
code	ø hose			T	A		B		ES		
	dn	inch	size		mm	in	mm	in	mm	in	in
FB11T-03-02	5	3/16”	03	1/8”-28	14,3	0,56	5,5	0,22	14,0	0,551	9/16”
FB11T-04-02	6	1/4”	04	1/8”-28	15,0	0,59	5,5	0,22	14,0	0,551	9/16”
FB13T-04-04	6	1/4”	04	1/4”-19	17,5	0,69	4,2	0,17	19,0	0,748	3/4”
FB13T-04-06	6	1/4”	04	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB11T-05-04	8	5/16”	05	1/4”-19	17,8	0,70	4,2	0,17	19,0	0,748	3/4”
FB13T-05-06	8	5/16”	05	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB11T-06-04	10	3/8”	06	1/4”-19	17,8	0,70	4,2	0,17	19,0	0,748	3/4”
FB13T-06-06	10	3/8”	06	3/8”-19	18,5	0,73	6,0	0,24	22,0	0,866	7/8”
FB13T-06-08	10	3/8”	06	1/2”-14	20,5	0,81	6,5	0,26	27,0	1,063	1.1/16”
FB13T-08-08	12	1/2”	08	1/2”-14	21,0	0,83	6,5	0,26	27,0	1,063	1.1/16”
FB11T-10-10	16	5/8”	10	5/8”-14	18,0	0,71	9,5	0,37	27,0	1,063	1.1/16”
FB11T-10-12	16	5/8”	10	3/4”-14	21,3	0,84	8,7	0,34	32,0	1,260	1.1/4”
FB11T-12-12	19	3/4”	12	3/4”-14	21,8	0,86	8,7	0,34	32,0	1,260	1.1/4”
FB12T-12-16	19	3/4”	12	1”-11	29,0	1,14	10,5	0,41	38,0	1,496	1.1/2”
FB12T-16-16	25	1”	16	1”-11	30,5	1,20	10,5	0,41	38,0	1,496	1.1/2”

Nut type

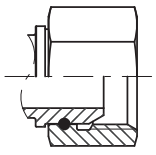
FB13



FB11



FB12



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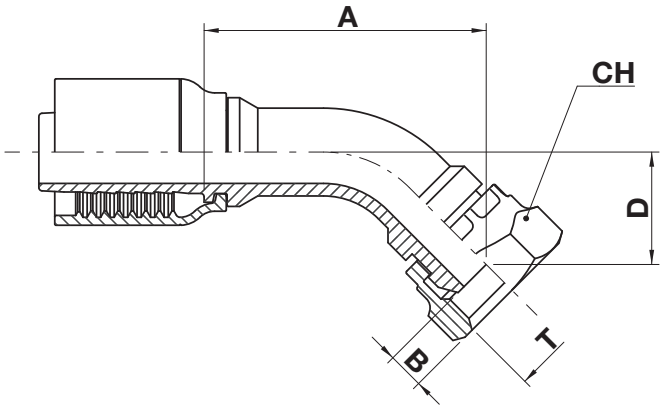
FB43T FB41T FB42T

T

BSP female swivel 60° cone - 45° elbow

NO SKIVE

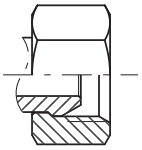
ISO 8434-6 / BS 5200



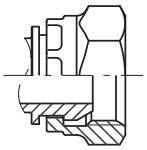
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB43T-04-04	6	1/4”	04	1/4”-19	32,5	1,28	4,2	0,17	13,0	0,51	19,0	0,748	3/4”
FB41T-05-06	8	5/16”	05	3/8”-19	42,5	1,67	6,0	0,24	19,0	0,75	22,0	0,866	7/8”
FB43T-06-06	10	3/8”	06	3/8”-19	37,6	1,48	6,0	0,24	14,6	0,58	22,0	0,866	7/8”
FB43T-08-08	12	1/2”	08	1/2”-14	48,0	1,89	6,5	0,26	18,0	0,71	27,0	1,063	1.1/16”
FB41T-12-12	19	3/4”	12	3/4”-14	67,4	2,66	8,7	0,34	26,9	1,06	32,0	1,260	1.1/4”
FB42T-16-16	25	1”	16	1”-11	85,0	3,35	10,5	0,41	35,2	1,39	38,0	1,496	1.1/2”

Nut type

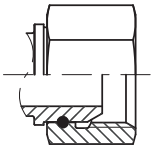
FB43



FB41



FB42



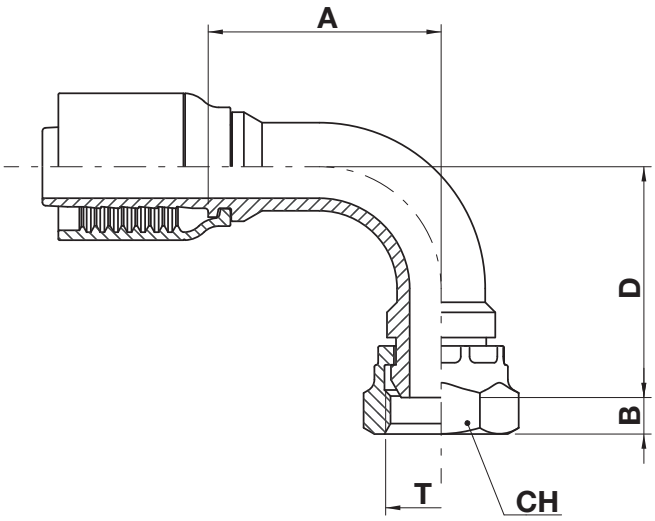
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FB93T FB91T FB92T

BSP female swivel 60° cone - 90° elbow

NO SKIVE

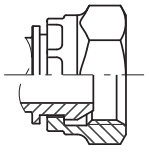
ISO 8434-6 / BS 5200



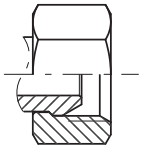
code	ø hose			T	A		B		D		CH		
	dn	inch	size		mm	in	mm	in	mm	in	mm	in	in
FB93T-04-04	6	1/4”	04	1/4”-19	27,6	1,09	4,2	0,17	27,5	1,08	19,0	0,748	3/4”
FB93T-04-06	6	1/4”	04	3/8”-19	28,0	1,10	6,0	0,24	29,5	1,16	22,0	0,866	7/8”
FB93T-05-06	8	5/16”	05	3/8”-19	32,5	1,28	6,0	0,24	30,0	1,18	22,0	0,866	7/8”
FB93T-06-06	10	3/8”	06	3/8”-19	31,5	1,24	6,0	0,24	29,5	1,16	22,0	0,866	7/8”
FB93T-06-08	10	3/8”	06	1/2”-14	30,3	1,19	6,5	0,26	31,2	1,23	27,0	1,063	1.1/16”
FB93T-08-08	12	1/2”	08	1/2”-14	37,2	1,47	6,5	0,26	36,0	1,42	27,0	1,063	1.1/16”
FB91T-10-10	16	5/8”	10	5/8”-14	54,0	2,13	9,5	0,37	50,0	1,97	30,0	1,181	1.3/16”
FB91T-12-12	19	3/4”	12	3/4”-14	55,5	2,19	8,7	0,34	55,0	2,17	32,0	1,260	1.1/4”
FB92T-16-16	25	1”	16	1”-11	72,0	2,83	10,5	0,41	73,0	2,89	38,0	1,496	1.1/2”

Nut type

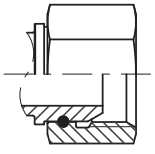
FB93



FB91



FB92



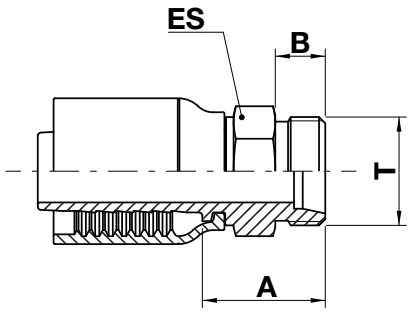
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ML10T

Metric light male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
ML10T-04-12	6	1/4”	04	M12X1,5	L6	22,5	0,89	10,0	0,39	14,0	0,551	9/16”
ML10T-04-14	6	1/4”	04	M14X1,5	L8	22,5	0,89	10,0	0,39	14,0	0,551	9/16”
ML10T-04-16	6	1/4”	04	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10T-05-16	8	5/16”	05	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10T-05-18	8	5/16”	05	M18X1,5	L12	25,0	0,98	11,0	0,43	19,0	0,748	3/4”
ML10T-06-16	10	3/8”	06	M16X1,5	L10	24,5	0,96	11,0	0,43	17,0	0,669	11/16”
ML10T-06-18	10	3/8”	06	M18X1,5	L12	25,0	0,98	11,0	0,43	19,0	0,748	3/4”
ML10T-06-22	10	3/8”	06	M22X1,5	L15	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
ML10T-08-22	12	1/2”	08	M22X1,5	L15	26,5	1,04	12,0	0,47	22,0	0,866	7/8”
ML10T-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	12,0	0,47	27,0	1,063	1.1/16”
ML10T-12-30	19	3/4”	12	M30X2	L22	31,5	1,24	14,0	0,55	30,0	1,181	1.3/16”
ML10T-16-36	25	1”	16	M36X2	L28	34,0	1,34	14,0	0,55	36,0	1,417	1.7/16”

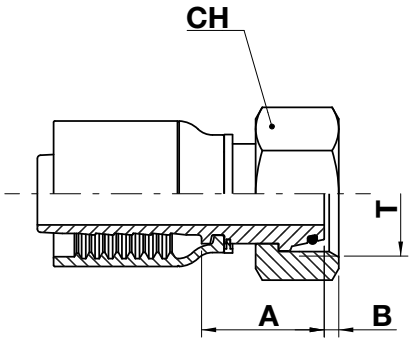
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FL13T FL11T FL12T

Metric light female swivel (24° cone seat)

NO SKIVE

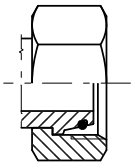
ISO 8434-1 / DIN 3865



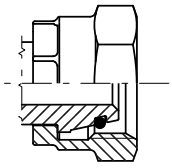
code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FL11T-04-12	6	1/4”	04	M12X1,5	L6	20,9	0,82	2,6	0,10	16,0	0,630	-
FL13T-04-14	6	1/4”	04	M14X1,5	L8	25,0	0,98	1,5	0,06	17,0	0,669	11/16”
FL13T-04-16	6	1/4”	04	M16X1,5	L10	27,5	1,08	1,5	0,06	19,0	0,748	3/4”
FL13T-05-16	8	5/16”	05	M16X1,5	L10	27,5	1,08	1,5	0,06	19,0	0,748	3/4”
FL13T-05-18	8	5/16”	05	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL12T-06-16	10	3/8”	06	M16X1,5	L10	23,0	0,91	3,5	0,14	19,0	0,748	3/4”
FL13T-06-18	10	3/8”	06	M18X1,5	L12	26,0	1,02	1,5	0,06	22,0	0,866	7/8”
FL13T-08-22	12	1/2”	08	M22X1,5	L15	28,5	1,12	2,5	0,10	27,0	1,063	1.1/16”
FL13T-10-26	16	5/8”	10	M26X1,5	L18	29,0	1,14	2,0	0,08	32,0	1,260	1.1/4”
FL13T-12-30	19	3/4”	12	M30X2	L22	29,5	1,16	3,5	0,14	36,0	1,417	1.7/16”
FL13T-16-36	25	1”	16	M36X2	L28	32,0	1,26	3,5	0,14	41,0	1,614	1.5/8”

Nut type

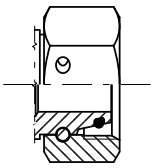
FL13



FL11



FL12



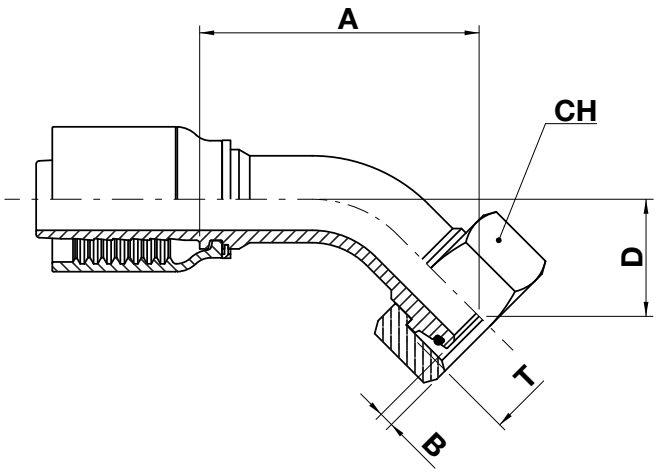
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FL43T

Metric light female swivel - 45° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL43T-04-14	6	1/4”	04	M14X1,5	L8	35,2	1,39	1,5	0,06	15,5	0,61	17,0	0,669	11/16”
FL43T-04-16	6	1/4”	04	M16X1,5	L10	36,3	1,43	1,5	0,06	16,6	0,65	19,0	0,748	3/4”
FL43T-05-16	8	5/16”	05	M16X1,5	L10	39,0	1,54	1,5	0,06	17,1	0,67	19,0	0,748	3/4”
FL43T-06-18	10	3/8”	06	M18X1,5	L12	42,6	1,68	1,5	0,06	19,2	0,76	22,0	0,866	7/8”
FL43T-08-22	12	1/2”	08	M22X1,5	L15	48,2	1,90	2,5	0,10	20,8	0,82	27,0	1,063	1.1/16”
FL43T-10-26	16	5/8”	10	M26X1,5	L18	62,5	2,46	2,0	0,08	25,5	1,00	32,0	1,260	1.1/4”

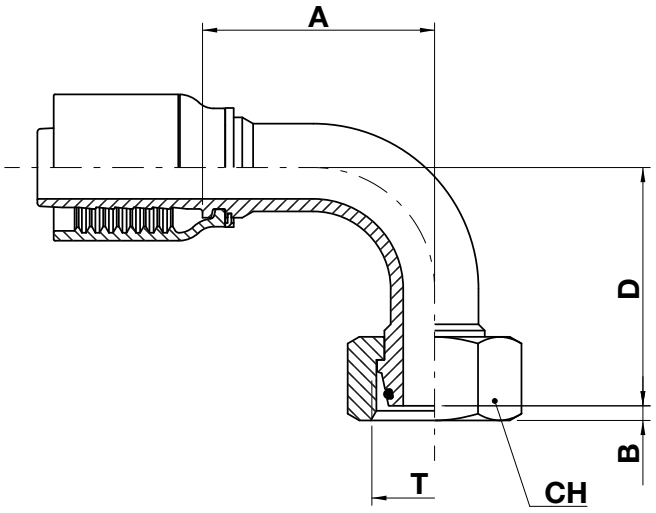
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FL93T

Metric light female swivel - 90° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FL93T-04-14	6	1/4”	04	M14X1,5	L8	28,0	1,10	1,5	0,06	31,0	1,22	17,0	0,669	11/16”
FL93T-04-16	6	1/4”	04	M16X1,5	L10	28,2	1,11	1,5	0,06	32,5	1,28	19,0	0,748	3/4”
FL93T-05-16	8	5/16”	05	M16X1,5	L10	30,5	1,20	1,5	0,06	33,0	1,30	19,0	0,748	3/4”
FL93T-06-18	10	3/8”	06	M18X1,5	L12	30,5	1,20	1,5	0,06	36,0	1,42	22,0	0,866	7/8”
FL93T-08-22	12	1/2”	08	M22X1,5	L15	38,2	1,50	2,5	0,10	40,0	1,57	27,0	1,063	1.1/16”

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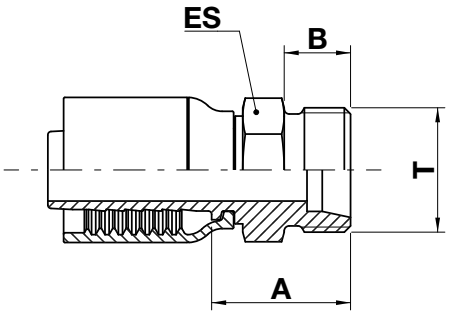
MS10T

T

Metric heavy male (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		ES		
	dn	inch	size			mm	in	mm	in	mm	in	in
MS10T-04-16	6	1/4”	04	M16X1,5	S8	26,0	1,02	12,0	0,47	17,0	0,669	11/16”
MS10T-04-18	6	1/4”	04	M18X1,5	S10	26,0	1,02	12,0	0,47	19,0	0,748	3/4”
MS10T-05-20	8	5/16”	05	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10T-05-22	8	5/16”	05	M22X1,5	S14	28,0	1,10	14,0	0,55	22,0	0,866	7/8”
MS10T-06-20	10	3/8”	06	M20X1,5	S12	26,0	1,02	12,0	0,47	22,0	0,866	7/8”
MS10T-06-22	10	3/8”	06	M22X1,5	S14	28,0	1,10	14,0	0,55	22,0	0,866	7/8”
MS10T-08-24	12	1/2”	08	M24X1,5	S16	28,5	1,12	14,0	0,55	24,0	0,945	15/16”
MS10T-12-36	19	3/4”	12	M36X2	S25	36,5	1,44	18,0	0,71	36,0	1,417	1.7/16”

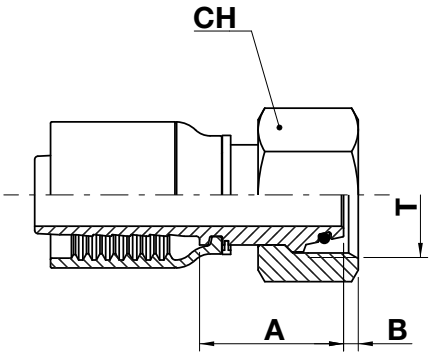
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FS13T

Metric heavy female swivel (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		CH		
	dn	inch	size			mm	in	mm	in	mm	in	in
FS13T-04-16	6	1/4”	04	M16X1,5	S8	26,5	1,04	2,5	0,10	19,0	0,748	3/4”
FS13T-04-18	6	1/4”	04	M18X1,5	S10	33,5	1,32	2,0	0,08	22,0	0,866	7/8”
FS13T-05-20	8	5/16”	05	M20X1,5	S12	26,5	1,04	2,0	0,08	24,0	0,945	15/16”
FS13T-06-20	10	3/8”	06	M20X1,5	S12	26,5	1,04	2,0	0,08	24,0	0,945	15/16”
FS13T-06-22	10	3/8”	06	M22X1,5	S14	29,5	1,16	4,0	0,16	27,0	1,063	1.1/16”
FS13T-08-24	12	1/2”	08	M24X1,5	S16	33,0	1,30	3,0	0,12	30,0	1,181	1.3/16”
FS13T-12-36	19	3/4”	12	M36X2	S25	39,5	1,56	3,0	0,12	46,0	1,811	1.13/16”

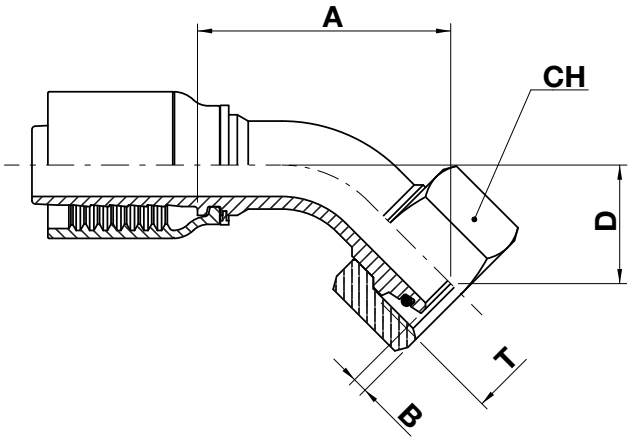
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FS43T

Metric heavy female swivel - 45° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS43T-04-16	6	1/4”	4	M16X1,5	S8	36,3	1,43	2,5	0,1	16,6	0,65	19,0	0,748	3/4”
FS43T-04-18	6	1/4”	4	M18X1,5	S10	37,7	1,48	2,0	0,08	18,0	0,71	22,0	0,866	7/8”
FS43T-05-20	8	5/16”	5	M20X1,5	S12	41,0	1,61	2,0	0,08	19,2	0,76	24,0	0,945	15/16”
FS43T-06-20	10	3/8”	6	M20X1,5	S12	42,0	1,65	2,0	0,08	19,2	0,76	24,0	0,945	15/16”
FS43T-06-22	10	3/8”	6	M22X1,5	S14	45,0	1,77	4,0	0,16	22,0	0,87	27,0	1,063	1.1/16”
FS43T-08-24	12	1/2”	8	M24X1,5	S16	50,0	1,97	3,0	0,12	22,6	0,89	30,0	1,181	1.3/16”

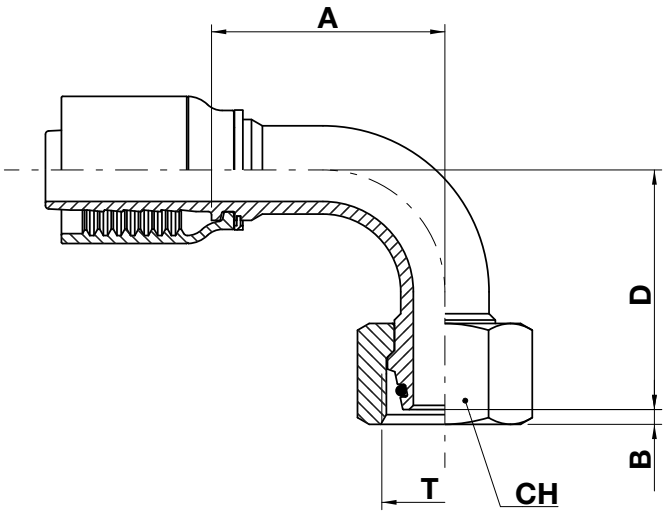
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FS93T

Metric heavy female swivel - 90° elbow (24° cone seat)

NO SKIVE

ISO 8434-1 / DIN 3865



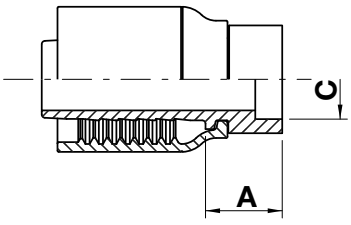
code	ø hose			T	pipe	A		B		D		CH		
	dn	inch	size			mm	in	mm	in	mm	in	mm	in	in
FS93T-04-16	6	1/4”	04	M16X1,5	S8	28,2	1,11	2,5	0,10	32,5	1,28	19,0	0,748	3/4”
FS93T-04-18	6	1/4”	04	M18X1,5	S10	28,2	1,11	2,0	0,08	34,5	1,36	22,0	0,866	7/8”
FS93T-05-20	8	5/16”	05	M20X1,5	S12	30,5	1,20	2,0	0,08	36,0	1,42	24,0	0,945	15/16”
FS93T-06-20	10	3/8”	06	M20X1,5	S12	30,5	1,20	2,0	0,08	36,0	1,42	24,0	0,945	15/16”
FS93T-06-22	10	3/8”	06	M22X1,5	S14	31,5	1,24	4,0	0,16	40,0	1,57	27,0	1,063	1.1/16”
FS93T-08-24	12	1/2”	08	M24X1,5	S16	38,2	1,50	3,0	0,12	42,5	1,67	30,0	1,181	1.3/16”

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WO10T

Brazing tail

NO SKIVE



code	ø hose			A		C	
	dn	inch	size	mm	in	mm	in
WO10T-04-04	6	1/4”	04	14,5	0,57	6,5	0,26
WO10T-06-06	10	3/8”	06	16,5	0,65	9,5	0,38
WO10T-08-08	12	1/2”	08	17,0	0,67	12,8	0,51
WO10T-10-10	16	5/8”	10	17,0	0,67	16,0	0,63
WO10T-12-12	19	3/4”	12	18,5	0,73	19,2	0,76
WO10T-16-16	25	1”	16	23,0	0,91	25,6	1,01

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GENERAL SALES CONDITIONS

Art. 1 - SCOPE

1.1 - These General Conditions govern all present and future sales contracts entered into by the Seller with regard to its Products, except for any exceptions specifically agreed upon in writing. These General Conditions apply both to contracts with Parties established in Italy and to contracts with Parties established in different States. Any reference to the terms of trade shall be understood to be made to the INCOTERMS 2020 of the International Chamber of Commerce.

1.2 - These General Conditions cancel and replace any other clause and/or General Purchase Conditions attached or otherwise indicated in the orders and/or in the different documentation sent by the Buyer, unless expressly accepted in writing by the Seller. In the latter case as well, unless expressly waived in writing between the Parties, the other clause and/or General Purchase Conditions shall be coordinated with these General Conditions that, insofar as they are compatible, shall remain valid and effective between the Parties.

Art. 2 – FORMATION OF SALES CONTRACT

2.1 - The acceptance by the Buyer of the Seller's offer or order confirmation, howsoever made, entails the application of these General Conditions to the sales contract, even when acceptance takes place by means of execution of the contract. The Seller's offer shall be deemed firm and irrevocable only when it is qualified as such in writing by the Seller and a term of validity is specified therein. The Buyer's reply containing supplements or amendments, even if such as not to substantially alter the terms of the Supplier's proposal shall be deemed as a counterproposal, notwithstanding the Seller's silence. Any offers made by agents, representatives and/or sales assistants of the Seller shall not be binding for the Seller until confirmed by it.

Art. 3 - SAMPLES, DRAWINGS AND TECHNICAL DOCUMENTS - SUBCONTRACTING - CONFIDENTIALITY

3.1 - The weights, dimensions, thicknesses, capacities, prices, yields, colours and other data contained in the Seller's catalogues, brochures, advertisements, illustrations, price lists or other documents, as well as the characteristics of the samples and models sent by the latter to the Buyer, are to be considered purely indicative and, therefore, they are not binding, unless expressly mentioned as such in the Seller's offer or order confirmation.

3.2 - Any drawing, document, technical information or software which permits the manufacture or assembly of the sold Products or parts thereof which are delivered to the Buyer, both before and after the conclusion of the contract, remain the sole property of the Seller. The above-mentioned drawings, documents, technical information or software may not be used by the Buyer for non-contractual purposes as well as copied, reproduced, sent or communicated to third parties without the prior written consent of the Seller. The Buyer, in particular, may not entrust to third parties, nor carry out directly, the manufacture of Products which are a total or partial reproduction of the Products or which in any case use intellectual property rights, know-how or technology of the Seller.

3.3 - The Buyer's drawings, documents, technical information or software delivered to the Seller before or after the conclusion of the contract, shall remain the sole property of the Buyer and shall not be used by the Seller, or copied, reproduced, sent or communicated to third parties without the written consent of the Buyer to the extent that they are:

a) covered by a patent or other industrial or intellectual property right of the Buyer; or

b) secret, i.e. they do not refer to knowledge made public by the Buyer or otherwise known to the generality of the operators in the sector, and are not trivial; provided, however, that the Buyer has expressly made known to the Seller in writing its desire to reserve for itself the exclusive right of exploitation.

3.4 - The Seller reserves the right, under its own responsibility, to subcontract part of the Products ordered by the Buyer.

3.5 - The Buyer undertakes not to disclose to third parties or to use for non-contractual purposes, even after the termination of any agreement with the Seller, any commercial or business secrets, as well as any confidential information of the Seller, that it became aware during the contractual relationship.

Art. 4 - PRODUCT DELIVERY

4.1 - Unless otherwise agreed, the delivery of Products shall take place Ex works (INCOTERMS 2020), even when the Parties have agreed that shipment and/or assembly shall be carried out by the Seller. In this case, the Seller shall act as the Buyer's agent, it being understood that transport shall be carried out by the Buyer at its own expense and risk.

4.2 - The risks shall pass to the Buyer according to the applicable INCOTERMS. In no case, the Seller shall be liable for the deterioration or damage of the Products occur after the passing of risks and the Buyer shall in any case be obliged to pay the agreed price.

4.3 - The Seller shall make its best efforts to comply with the delivery terms indicated in the offer or in the order confirmation, which, unless otherwise agreed in writing between the Parties, cannot be regarded as essential.

4.4 - Should the Parties have agreed to the payment of a penalty by the Seller in case of delay in the delivery of the Products, the Buyer shall not be entitled to claim, as compensation for damages caused by the delay, the payment of amounts in addition to those agreed as a penalty.

4.5 - The delivery terms shall be understood as extended by a period equal to the duration of the impediment if the Buyer does not provide - in due time - the data or materials necessary for the supply, requests variations in progress or is late in responding to requests for approval of the drawings or the executive diagrams.

4.6 - The Buyer shall always held to take delivery of the Products, even in the case of partial deliveries, early deliveries, or deliveries carry out after the date agreed by the Parties. Under no circumstances, the Seller shall be liable for direct and/or indirect damage deriving from early or delayed delivery of the Products. Should the Buyer not take delivery of the Products for reasons not attributable to the Seller or for force majeure reasons, the Buyer shall support all the expenses that may derive therefrom, and any sum due to the Seller, at any time, will become immediately due.

In this case the Seller may:

a) put in stock the Products at the risk, danger and expense of the Buyer; or

b) send the Products in the name, on the behalf of and at the Buyer's expense to the Buyer's premises; or

c) sell the Products by any means on behalf of the Buyer, withholding from the proceeds the whole sum due, as well as the expenses incurred.

Eventual further damages not excluded.

Art. 5 - WARRANTY

5.1 - The Seller warrants that the supplied Products comply in terms of quantity, quality, type as well as to technical specifications expressly agreed in the contract, excluding any warranty regarding the specific use which the Buyer, or its sub-buyer, makes of the purchased product. Moreover, the Seller warrants that the Products are free from defects that may make them unsuitable for their intended use.

5.2 - The warranty shall be limited to defects of the Products resulting from defects in material or manufacturing attributable to the Seller and shall not be valid if:

a) the Buyer fails to prove that the Products have been properly used, maintained, stored and looked after;

b) the Buyer has made changes or repairs to the Products without the prior written consent of the Seller;

c) the Products have been assembled or used incorrectly;

d) Product defects are due to normal wear and tear of those parts which, by their nature, are subject to rapid and continuous wear and tear;

e) the conformity defects were caused by an event subsequent to the transfer of risks to the Buyer.

5.3 - The warranty lasts for 12 (twelve) months starting from the date of delivery of the Products to the Buyer. The warranty is subject to regular and timely notification of defects and nonconformities by the Buyer according to the provisions of the following paragraph, as well as express written warranty service request. The warranty for replaced or repaired Products shall become effective from the day of any replacement or repair. The warranty for the replaced or repaired components of the Product shall begin on the day of replacement or repair, and in any case applies only to the repaired or replaced component.

5.4 - The Buyer shall notify Products defects or nonconformities in writing, indicating in detail the detected defects and nonconformities, the date of delivery and the quantity of defective Products. The notification must be made, under penalty of forfeiture, within and not later than 15 days from the date of delivery in the case of obvious defects or from the date of discovery, provided that it is made within the warranty period, in the case of hidden faults, defects or nonconformities.

5.5 - The Buyer shall forfeit the warranty if it fails to agree any reasonable check requested by the Seller or if, the Seller offers to replace the fault part at its own expense, the Buyer fails to return the defective Products within 15 days from the request.

5.6 - Should the Buyer's complaint is unfounded, the Buyer shall be obliged to reimburse the Seller for all expenses incurred by the latter for the inspection. Instead, should the Buyer's complaint, made in accordance with the provisions of this article, is well-founded, the Seller shall, in its sole discretion and within a reasonable time (having regard to the seriousness of the complaint), repair or replace free of charge defective or nonconforming Products at the Seller's premises. The Buyer shall be responsible for returning the Products. Should the Parties agree that the repair or replacement operations are best carried out directly at the Buyer's premises or elsewhere, the travel expenses - including travel, board and lodging of the Seller's personnel - shall be to the charge of the Buyer, who shall also provide all means and auxiliary personnel required to do the job in the fastest and safest way.

5.7 - Once the warranty period has elapsed, no claim may be made against the Seller.

Art. 6 - LIMITED LIABILITY OF SELLER

6.1 - Except in case of fraud or gross negligence on the part of the Seller, any compensation for any damage to the Buyer shall not in any case exceed the invoice value of the defective Product. The warranty referred to in the previous Article includes and supersedes all legal warranties for defects and conformity, excluding any other possible liability of the Seller, howsoever deriving from the supplied Products. The Buyer shall therefore not be entitled to lodge any other claims for damages, price reduction or contract termination.

6.2 - The Seller's liability is contained within the limits set forth in the previous Article and relates only to the Products supplied by the Seller itself. The latter therefore disclaims all liability for any failure or malfunction of systems or machines manufactured by the Buyer or by third parties using the Prod-

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ucts supplied by the Seller, even in the event of these having been assembled or connected according to diagrams or drawings suggested by the Seller, unless such diagrams and drawings have been the subject of separate remuneration: in the latter case, the Seller's liability shall in any case be limited to what is included in the diagrams or drawings in question.
6.3 - Under no circumstances shall the Seller be deemed liable for indirect or consequential damages, loss of production or lost profits.

Art. 7 - TECHNICAL STANDARDS AND CIVIL LIABILITY
7.1 - The Seller warrants the performance of the Products only and exclusively in relation to the uses, purposes, applications, tolerances, capacities expressly indicated by it and the Buyer is not therefore authorised to make use of them in a different way. If the Buyer's intention is to resell the Products, the Buyer shall be required to bring and shall be responsible for bringing to the knowledge of its buyers the indications set forth in the previous paragraph.
7.2 - The compensation for any personal injury or property damage, caused by defects in the supplied Products and directly attributable to the Seller, shall be limited to the maximum amount indicated in the policy for third party liability and is subject to the terms and conditions of application of said policy.

Art. 8 - PRICES - PAYMENTS
8.1 - Unless otherwise specified in the offer or order confirmation, prices should be understood as Ex Works and, do not include: packaging costs, taxes, duties, and any other additional charges. Likewise, unless otherwise agreed by the Parties, the following are not included in the price: any design and installation of the supplied Products, tests, manuals and training courses, start-up assistance, and all services and charges not mentioned in the offer or order confirmation.
8.2 - Payments, and any other sum due to the Seller for any reason whatsoever, shall be deemed to be net at the Seller's registered office and shall be made in accordance with the agreed terms and conditions. The Buyer, in case of delay in payment, shall be required to pay default interest, without the need for notice of default.
8.3 - Any delay in payment shall also give the Seller the right to invalidate, for the entire duration of the delay, the warranty referred to in Art. 5 above. The Buyer shall be obliged to pay the full price even in case of dispute or complaint. No offsetting shall be allowed against any amounts owed, howsoever arising, by the Seller.

Art. 9 – RETENTION OF TITLE
9.1 - In the event of payment being made - in whole or in part - after delivery, the delivered Products remain the Seller's property until the moment of the complete payment of the price according to the measure allowed by the law of the country where the Products are located. The Buyer undertakes to do whatever necessary to constitute in the country above mentioned a valid retention of title in the most extensive form permitted, or to provide a similar form of guarantee in favour of the Seller.

Art. 10 - WITHDRAWAL FROM SALES CONTRACT - SUSPENSION
10.1 - The Seller reserves the right to withdraw from the sales contract and cancel, in whole or in part, the Buyer's order in the event of a significant change in the Buyer's economic conditions and solvency, as well as in the case of any payment delay or irregularity on the part of the Buyer, including if related to a different supply.
10.2 - The Seller shall be entitled at any time to suspend the execution of the contract, giving written notice of at least 30 (thirty) working days to the Buyer for a maximum of 3 (three) months without incurring any liability. Within 3 (three) months from the relative notice of suspension, the Seller shall be required to communicate to the Buyer the continuation of the contract execution with prior written notice of at least 30 (thirty) working days. In the event of the Seller not asking for the contract to be continued within the established time limit of 3 (three) months, the Buyer shall be entitled to terminate the contract immediately by giving prompt written notice to the Seller.

Art. 11 - FORCE MAJEURE
11.1 - Should the manufacture and/or delivery of the Products by the Seller become impossible, excessively onerous or delayed due to a Force Majeure Event as defined in paragraph 11.2 below, the Seller may, at its option: (i) suspend deliveries of the Products until the Force Majeure Event has ceased; (ii) deliver a smaller quantity of Products, if the Products in its warehouse are insufficient and intended proportionately to satisfy other customers of the Seller; (iii) withdraw from the contract, giving prompt written notice to the Buyer. Following the withdrawal, the Seller shall complete the execution of the delivery of the Products purchased by the Buyer for the part not affected by the Force Majeure Event, it being understood that the Buyer shall not make any further claim against the Seller, deriving directly or indirectly from the early termination of the contractual agreement.
If the impediment caused by the Force Majeure Event persists for a period of more than 90 (ninety) days, each party shall be entitled to withdraw from the relevant contract, without its acquiring any right to compensation for damages with respect to the other party.
Should any Force Majeure Event occur, the Seller shall not in any case be liable for any damages suffered by the Buyer as a result of the delay in delivery of the Products.
11.2 - "Force Majeure Event" means any event beyond the Seller's control that affects the production or delivery capacity of the Products - including without limitation strikes, non-delivery or delayed delivery, including partial, of raw materials by the Seller's suppliers, partial or total breakdowns of machinery and plants to be used in the production of the Products, fires, floods, riots, government decisions, regulatory changes, epidemics, pandemics or other health emergencies.

Art. 12 – APPLICABLE LAW - DISPUTES
12.1 - For everything not provided for, these general conditions shall be governed by Italian law. Any dispute arising out or in connection with the contracts to which these General Conditions apply shall be subject to the exclusive jurisdiction of the Seller's Court of Law. However, the Seller shall be entitled to act before Court of Law where the Buyer's registered office is located.
According to and for the effects of articles 1341 and 1342 of the Italian Civil Code, the following articles are deemed expressly approved: Art. 4.6 - Buyer's obligation to take over the Products - Limitation of the Seller's liability in case of delayed or early delivery of the Products; Art. 5.5 - Forfeiture of the right of warranty; Art. 6 - Limited liability of Seller; Art. 7.2 - Civil Liability; Art. 8.3 - Invalidation of warranty due to late payment - Obligation to pay disputed amounts - No set-off; Art. 10 - Withdrawal from sales contract - Suspension; Art. 12 - Applicable law - Disputes.

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CONDIZIONI GENERALI DI VENDITA

Art. 1 - AMBITO DI APPLICAZIONE

1.1 - Le presenti Condizioni Generali disciplinano tutti gli attuali e futuri contratti di vendita stipulati dal Venditore relativamente ai suoi Prodotti salvo eventuali deroghe specificatamente concordate per iscritto e si applicano sia ai contratti con Parti aventi sede in Italia sia a contratti con Parti che abbiano sede in Stati diversi. Il riferimento ad eventuali termini di resa si intenderà fatto agli INCOTERMS ed. 2020 della Camera di Commercio Internazionale.

1.2 - Le presenti Condizioni Generali annullano e sostituiscono ogni eventuale altra clausola e/o Condizione Generale di Acquisto allegata o altrimenti indicata negli ordini e/o nella diversa documentazione trasmessa dal Compratore, a meno che espressamente accettata per iscritto dal Venditore. Anche in quest'ultimo caso però, salvo espressa deroga scritta tra le Parti, le stesse dovranno essere coordinate con le presenti Condizioni Generali che, in quanto compatibili, rimarranno comunque efficaci tra le Parti.

Art. 2 - FORMAZIONE DEL CONTRATTO DI VENDITA

2.1 - L'accettazione, da parte del Compratore, dell'offerta o della conferma d'ordine del Venditore, comunque effettuata, comporta l'applicazione al contratto di vendita delle presenti Condizioni Generali, e ciò anche quando l'accettazione avvenga mediante la semplice esecuzione del contratto. L'offerta del Venditore si considera ferma ed è irrevocabile soltanto se viene dallo stesso qualificata tale per iscritto ed è in essa specificato un termine di validità. Si considera controproposta, nonostante il silenzio del Venditore, la risposta del Compratore che contenga aggiunte o modifiche, anche se tali da non alterare sostanzialmente i termini della proposta. Eventuali offerte fatte da agenti, rappresentanti e/o ausiliari di commercio del Venditore non saranno impegnative per quest'ultimo fino alla conferma da parte del Venditore stesso.

Art. 3 - CAMPIONI, DISEGNI E DOCUMENTI TECNICI - SUBFORNITURA - RISERVATEZZA

3.1 - I pesi, le dimensioni, gli spessori, le capacità, i prezzi, i rendimenti, i colori e gli altri dati figuranti nei cataloghi, prospetti, annunci pubblicitari, illustrazioni, listini prezzi o altri documenti del Venditore, così come le caratteristiche dei campioni e dei modelli da quest'ultimo inviati al Compratore, hanno carattere di indicazioni approssimative e, pertanto, non hanno valore impegnativo se non nella misura in cui espressamente menzionati come tali nell'offerta o nella conferma d'ordine del Venditore.

3.2 - Qualsiasi disegno, documento, informazione tecnica o software che permetta la fabbricazione o il montaggio dei Prodotti venduti o di loro parti del Venditore che siano rimessi al Compratore, tanto prima che dopo la stipulazione del contratto, rimangono di esclusiva proprietà del Venditore. I suddetti disegni, documenti, informazioni tecniche o software non potranno essere utilizzati dal Compratore per fini extracontrattuali o copiati, riprodotti, trasmessi o comunicati a terzi senza il previo consenso scritto del Venditore. Il Compratore, in particolare, non potrà affidare a terzi, né effettuare direttamente, la realizzazione di Prodotti che siano una riproduzione, totale o parziale, dei Prodotti o che comunque impieghino diritti di proprietà intellettuale, know-how o tecnologia del Venditore.

3.3 - I disegni, documenti, informazione tecnica o software del Compratore rimesse al Venditore prima o dopo la stipula del contratto, rimangono di esclusiva titolarità del Compratore e non potranno essere utilizzati dal Venditore, o copiati, riprodotti, trasmessi o comunicati a terzi senza il consenso scritto del Compratore nei limiti in cui essi:

a) siano coperti da brevetto o ad un altro diritto di proprietà industriale o intellettuale del Compratore; ovvero

b) abbiano carattere segreto, e cioè non si riferiscano a cognizioni rese pubbliche dal Compratore o altrimenti note alla generalità degli operatori del settore, e non siano banali; purché, tuttavia, il Compratore abbia espressamente manifestato al Venditore per iscritto la propria volontà di riservarsene il diritto di sfruttamento esclusivo.

3.4 - Il Venditore si riserva il diritto, sotto la propria responsabilità, di affidare in subfornitura parte dei Prodotti commissionatigli dal Compratore.

3.5 - Il Compratore si impegna a non rivelare a terzi né ad utilizzare a fini extracontrattuali, anche dopo la cessazione di ogni rapporto con il Venditore, i segreti commerciali od aziendali, nonché ogni notizia riservata del Venditore di cui sia venuto a conoscenza in occasione dei rapporti contrattuali instaurati con quest'ultimo.

Art. 4 - CONSEGNA DEI PRODOTTI

4.1 - Salvo patto contrario, la consegna dei Prodotti ha luogo Ex works (INCOTERMS 2020), anche quando le Parti abbiano convenuto che la spedizione e/o il montaggio avvengano a cura dal Venditore: in tal caso, infatti, il Venditore agirà come mandatario del Compratore, essendo inteso che il trasporto verrà effettuato a spese e a rischio di quest'ultimo.

4.2 - I rischi passano al Compratore secondo quanto stabilito negli INCOTERMS applicabili. Il Venditore non risponde in nessun caso del perimento o del danneggiamento dei Prodotti avvenuto dopo il passaggio dei rischi ed il Compratore sarà comunque tenuto al pagamento del prezzo pattuito.

4.3 - Il Venditore farà del suo meglio per rispettare i termini di consegna indicati nell'offerta ovvero nella conferma d'ordine che comunque, salvo diverso accordo scritto tra le Parti, non potranno essere considerati essenziali.

4.4 - Laddove le Parti abbiano convenuto il pagamento di una penale da parte del Venditore per il caso di ritardo nella consegna dei Prodotti, il Compratore non potrà esigere, a titolo di risarcimento dei danni causati dal ritardo, il pagamento di somme ulteriori rispetto a quelle pattuite a titolo di penale.

4.5 - I termini di consegna dovranno intendersi prorogati di un periodo pari a quello di durata dell'impedimento qualora il Compratore non fornisca in tempo utile i dati o i materiali necessari alla fornitura, richieda delle varianti in corso di esecuzione ovvero ritardi nel rispondere alle richieste di approvazione dei disegni o degli schemi esecutivi.

4.6 - Il Compratore è sempre tenuto a prendere in consegna i Prodotti anche in caso di consegne parziali, anticipate o successive alla data concordata dalle Parti. In nessun caso il Venditore potrà essere ritenuto responsabile per i danni diretti e/o indiretti derivanti da anticipata o ritardata consegna dei Prodotti. Nel caso in cui il Compratore non abbia preso in consegna i Prodotti per cause non imputabili al Venditore o per cause di forza maggiore, il Compratore sopporterà tutte le spese, e ogni somma dovuta al Venditore, a qualsiasi titolo, diventerà immediatamente esigibile.

In tal caso il Venditore potrà:

a) immagazzinare i Prodotti a rischio, pericolo e spese del Compratore;

b) spedire i Prodotti in nome, per conto e a spese del Compratore presso la sede di quest'ultimo;

c) vendere con qualsiasi mezzo i Prodotti per conto del Compratore, trattenendo dal ricavato l'intero importo dovuto nonché le spese sostenute.

Sono fatti salvi gli ulteriori danni.

Art. 5 - GARANZIA

5.1 - Il Venditore garantisce che i Prodotti forniti sono conformi per quantità, qualità, tipo nonché alle specifiche tecniche espressamente concordate in contratto, con esclusione di qualunque garanzia circa l'impiego specifico al quale il Compratore, o il suo sub-acquirente, destina il prodotto acquistato, e che sono esenti da vizi che possano renderli non idonei all'uso cui sono destinati.

5.2 - La garanzia per vizi è limitata ai soli difetti dei Prodotti conseguenti a difetti di materiale o di fabbricazione riconducibili al Venditore e non opera nel caso in cui:

a) il Compratore non provi di aver effettuato un corretto uso, manutenzione, stoccaggio e conservazione dei Prodotti;

b) il Compratore abbia apportato delle modifiche o riparazioni ai Prodotti, senza il previo consenso scritto del Venditore;

c) i Prodotti siano stati montati o utilizzati non correttamente;

d) i difetti dei Prodotti siano dovuti alla normale usura di quelle parti che, per loro natura, sono soggette ad usura rapida e continua;

e) i difetti di conformità abbiano la loro causa in un fatto successivo al passaggio dei rischi al Compratore.

5.3 - La garanzia ha una durata di 12 (dodici) mesi decorrenti dalla data della consegna dei Prodotti al Compratore ed è subordinata alla regolare e tempestiva denunzia dei vizi e delle difformità da parte di quest'ultimo secondo quanto disposto al successivo comma, accompagnata dall'espressa richiesta scritta al Venditore di effettuare un intervento in garanzia. La garanzia per i Prodotti sostituiti o riparati decorre dal giorno dell'eventuale sostituzione o riparazione. La garanzia per i componenti del Prodotto sostituiti o riparati decorre dal giorno dell'eventuale sostituzione o riparazione, e comunque vale per il solo componente riparato o sostituito.

5.4 - La denuncia dei vizi o difetti di conformità dei Prodotti deve essere effettuata dal Compratore per iscritto e indicare dettagliatamente i vizi e le non conformità contestate, la data della consegna e la quantità di Prodotti difettosi. La denuncia deve essere effettuata, a pena di decadenza entro e non oltre 15 giorni decorrenti dalla data di consegna, nel caso di vizi palesi ovvero dalla data della scoperta, purché entro il periodo di durata della garanzia, laddove si tratti di vizi, difetti o non conformità occulti.

5.5 - Il Compratore decade dal diritto di garanzia laddove non consenta ogni ragionevole controllo richiesto dal Venditore o se, avendo il Venditore fatto richiesta di restituzione del Prodotto difettoso a proprie spese, il Compratore ometta di restituire i Prodotti difettosi entro 15 giorni dalla richiesta.

5.6 - Nel caso in cui la denuncia effettuata dal Compratore risulti infondata, quest'ultimo sarà tenuto a risarcire al Venditore tutte le spese da quest'ultimo sostenute per l'accertamento. Qualora invece la denuncia del Compratore, effettuata in conformità a quanto statuito nel presente articolo, risulti fondata, il Venditore provvederà - a sua esclusiva e discrezionale scelta ed entro un termine ragionevole (avuto riguardo all'entità della contestazione) - a riparare o sostituire gratuitamente EXW-sede del Venditore i Prodotti difettosi o non conformi, effettuando le suddette operazioni presso i propri stabilimenti. La resa dei Prodotti è a carico del Compratore. Laddove le Parti concordino sull'opportunità di effettuare le operazioni di riparazione o sostituzione direttamente presso gli stabilimenti del Compratore o in altro luogo, le spese di trasferta - comprendenti viaggio, vitto e alloggio del personale del Venditore - saranno a carico del Compratore, il quale fornirà inoltre tutti i mezzi e il personale ausiliario richiesti per eseguire l'intervento nel modo più rapido e sicuro.

5.7 - Decorsa la durata della garanzia, nessuna pretesa potrà essere fatta valere nei confronti del Venditore.

Art. 6 - LIMITAZIONE DI RESPONSABILITÀ DEL VENDITORE

6.1 - Salvo dolo o colpa grave del Venditore, l'eventuale risarcimento di qualsiasi danno al Compratore non potrà comunque superare il valore di fattura del Prodotto difettoso. La garanzia di cui al precedente Articolo è assorbente e sostitutiva delle garanzie legali per vizi e conformità ed esclude ogni altra possibile responsabilità del Venditore, comunque originata dai Prodotti forniti. Il Compratore non potrà pertan-

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to avanzare altre richieste di risarcimento del danno, di riduzione del prezzo o di risoluzione del contratto.

6.2 - La responsabilità del Venditore è contenuta nei limiti di cui al precedente Articolo ed è relativa ai soli Prodotti forniti dal Venditore medesimo. Quest'ultimo non assume pertanto alcuna responsabilità per l'eventuale difettoso funzionamento di sistemi o macchine realizzati dal Compratore o da terzi con i Prodotti forniti dal Venditore, anche nel caso gli stessi siano stati montati o collegati secondo schemi o disegni suggeriti dal Venditore, a meno che tali schemi e disegni non siano stati oggetto di distinta remunerazione: in tale ultimo caso, la responsabilità del Venditore sarà comunque circoscritta a quanto compreso negli schemi o disegni in oggetto.

6.3 - In nessun caso il Venditore potrà essere ritenuto responsabile per danni indiretti o consequenziali, perdite di produzione o mancati profitti.

Art. 7 - NORME TECNICHE E RESPONSABILITÀ CIVILE

7.1 - Il Venditore garantisce le prestazioni dei Prodotti solo ed esclusivamente in relazione ad usi, destinazioni, applicazioni, tolleranze, capacità da lui espressamente indicati e il Compratore non è dunque autorizzato a disporne in modo difforme. Qualora il Compratore destini i Prodotti alla rivendita, sarà suo onere e responsabilità portare a conoscenza dei suoi acquirenti le indicazioni di cui al precedente comma.

7.2 - Il risarcimento per eventuali danni a persone o cose, derivanti dalla difettosità dei Prodotti forniti e direttamente riconducibile al Venditore, è limitato al massimale indicato nella polizza per responsabilità civile della medesima ed è subordinato ai termini ed alle condizioni di applicazione di detta polizza.

Art. 8 - PREZZI - PAGAMENTI

8.1 - Salvo sia altrimenti specificato nell'offerta o nella conferma d'ordine, i prezzi si intendono sempre Ex Works e non comprendono: i costi di imballaggio, le imposte, i dazi e ogni altro onere aggiuntivo. Del pari, a meno che le Parti abbiano diversamente convenuto, non sono compresi nel prezzo: l'eventuale progettazione e l'installazione dei Prodotti forniti, i collaudi, manuali e corsi di addestramento, l'assistenza all'avviamento e tutte le prestazioni e gli oneri non menzionati nell'offerta o nella conferma d'ordine.

8.2 - I pagamenti, e ogni altra somma dovuta a qualsiasi titolo al Venditore, si intendono netti alla sede del Venditore e dovranno essere effettuati conformemente alle modalità convenute. Il Compratore, in caso di ritardo nel pagamento, sarà tenuto a corrispondere, senza necessità di messa in mora, gli interessi moratori.

8.3 - Eventuali ritardi nei pagamenti attribuiranno altresì al Venditore il diritto di escludere, per tutto il periodo di perduranza del ritardo, la garanzia di cui al precedente Art. 5. Il Compratore è tenuto al pagamento integrale del prezzo anche in caso di contestazione o controversia. Non è ammessa compensazione con eventuali crediti, comunque insorti, nei confronti del Venditore.

Art. 9 - RISERVA DI PROPRIETÀ

9.1 - Nel caso in cui il pagamento debba essere effettuato - in tutto o in parte - dopo la consegna, i Prodotti consegnati restano di proprietà del Venditore sino al momento del completo pagamento del prezzo nella misura permessa dalla legge del Paese dove i prodotti si trovano. Il Compratore s'impegna a fare quanto necessario per costituire nel suddetto Paese una valida riserva di proprietà nella forma più estesa consentita, o per porre in essere un'analoga forma di garanzia a favore del Venditore.

Art. 10 - RECESSO DAL CONTRATTO DI VENDITA - SOSPENSIONE

10.1 - Il Venditore si riserva il diritto di recedere dal contratto di vendita e annullare, in tutto od in parte, l'ordine del Compratore in caso di sensibile modifica delle condizioni economiche del Compratore e della sua solvibilità nonché qualsiasi ritardo o irregolarità nel pagamento da parte del Compratore, anche se relativo a una diversa fornitura.

10.2 - Il Venditore potrà in ogni momento sospendere l'esecuzione del contratto, dandone preavviso scritto di almeno 30 (trenta) giorni lavorativi al Compratore per un massimo di 3 (tre) mesi senza incorrere in alcuna responsabilità. Entro 3 (tre) mesi dalla relativa comunicazione di sospensione il Venditore dovrà comunicare al Compratore la ripresa dell'esecuzione del contratto dandone preavviso scritto di almeno 30 (trenta). giorni lavorativi. Qualora il Venditore non richieda la prosecuzione del contratto entro il temine stabilito di 3 (tre) mesi, il Compratore avrà la facoltà di risolvere immediatamente il contratto dandone tempestiva comunicazione scritta al Venditore.

Art. 11 - FORZA MAGGIORE

11.1 - Ove la produzione e/o la consegna dei Prodotti da parte del Venditore sia resa impossibile, eccessivamente onerosa o ritardata a causa di un Evento di Forza Maggiore come definito dal successivo Art. 11.2, il Venditore potrà, a propria scelta: (i) sospendere le consegne dei Prodotti fintantoché non sia cessato l'Evento di Forza Maggiore; (ii) consegnare una quantità minore di Prodotti, qualora i Prodotti presenti nel proprio magazzino siano insufficienti e vengano destinati in proporzione a soddisfare altri clienti del Venditore; (iii) recedere dal contratto, dandone tempestiva notifica per iscritto al Compratore. A seguito del recesso, il Venditore completerà l'esecuzione della consegna dei Prodotti acquistati dal Compratore per la parte non inficiata dall'Evento di Forza Maggiore, restando inteso che il Compratore non avanzerà qualsivoglia ulteriore pretesa nei confronti del Venditore, derivante direttamente o indirettamente dall'anticipato scioglimento del rapporto contrattuale.

Ove l'impedimento dovuto all'Evento di Forza Maggiore persista per un periodo superiore a 90 (novanta) giorni, ciascuna parte avrà diritto di recedere dal relativo contratto, senza che sorga in capo ad essa alcun diritto nei confronti dell'altra parte al risarcimento di danni.

Ove ricorrano Eventi di Forza Maggiore, il Venditore non risponderà in alcun caso di eventuali danni derivanti per il Compratore dal ritardo nella consegna dei Prodotti.

11.2 - Per "Evento di Forza Maggiore" si intende qualsiasi evento al di fuori del controllo del Venditore che incida sulla capacità produttiva o di consegna dei Prodotti – ivi inclusi, a titolo esemplificativo, scioperi, mancata o ritardata consegna, anche parziale, delle materie prime da parte dei fornitori del Venditore, rotture parziali o totali di macchinari e impianti da impiegarsi nella realizzazione dei Prodotti, incendi, inondazioni, rivolte, decisioni delle autorità, modifiche normative, epidemie, pandemie o altre emergenze sanitarie.

Art. 12 - LEGGE APPLICABILE - CONTROVERSIE

12.1 - Per tutto quanto non previsto le presenti Condizioni Generali sono regolate dalla legge italiana. Per ogni controversia relativa o comunque collegata ai contratti cui si applicano le presenti Condizioni Generali è esclusivamente competente il Foro del Venditore. Quest'ultimo avrà tuttavia facoltà di agire dinnanzi al foro della sede del Compratore.

Ai sensi e per gli effetti degli articoli 1341 e 1342 del Codice Civile si intendono espressamente approvati i seguenti articoli: Art. 4.6 – Obbligo del compratore di prendere in consegna i Prodotti – Limitazione di responsabilità del Venditore in caso di consegna ritardata o anticipata dei Prodotti; Art. 5.5 – Decadenza dal diritto di garanzia; Art. 6 – Limitazione di responsabilità del Venditore; Art. 7.2 – Responsabilità Civile; Art. 8.3 – Esclusione di garanzia per ritardo nel pagamento – Obbligo di pagamento somme contestate – Divieto di Compensazione; Art. 10 – Recesso dal contratto di vendita – Sospensione; Art. 12 – Legge applicabile – Controversie.

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2 - Authorization to use the IP Rights shall not grant to the third-party user any rights other than those contained in the agreement entered in writing by INTERTRACO with the third-party user. The authorization does not grant the third-party user any additional property rights, ownership rights and/or licences. The authorization will never confer to the third-party user any additional license and/or further rights;

3 - This authorization binds the third-party user to the destination and use of such IP Rights, documents, promotional materials provided by INTERTRACO, solely and exclusively in the manner and version provided by INTERTRACO. The information provided by INTERTRACO must be considered as definitive; therefore, any unauthorized amendment will be considered to the detriment of INTERTRACO, which will therefore have the right to take appropriate legal action to recover any damages suffered;

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6 - Under no circumstances does the authorization grant to the third-party user a license and/or allow the third-party user to present INTERTRACO Products on the third-party user websites, catalogues, brochures, product sheets or on any other official material in a manner that differs from what originally authorized and/or provided by INTERTRACO to the third-party user; the appearance, packaging and visual presentation of the Products and/or of the promotional materials created by and/or prepared by the third-party user must remain unchanged from what originally provided by INTERTRACO. The use and promotion of IP Rights and/or related Products via websites and/or e-commerce and/or social media channels and/or digital platforms is subject to specific authorization provided by INTERTRACO for each individual link;

7 - Under no circumstances does the authorization allow the use of IP Rights outside the previously agreed IP addresses and/or the online sites, as well as outside the previously agreed social media channels, digital platforms and/or other areas and/or channels (e.g. trade fairs, markets, exhibitions, etc.) agreed in advance by INTERTRACO and third-party user, all the above in any case subjected to prior reviews, analysis and authorization in writing by INTERTRACO and the third-party user;

8 - Under no circumstances does the authorization permit the creation and dissemination of information, notes or any information material and/or publications relating to the IP Rights and/or Products (e.g. newsletters) without prior review and written consent by INTERTRACO;

9 - The use of IP Rights, including the use of images and/or photographs of the Products into promotional material not initially supplied by and/or directly provided by INTERTRACO to the third-party user, but autonomously realized by the latter such as catalogues or any other material, must be reviewed and approved in writing by INTERTRACO in advance. Under no circumstances is the publication and use of such representations, photographs, images and descriptions of the Products at trade fairs, markets, exhibitions or elsewhere permitted without the prior written approval of INTERTRACO;

10 - Any use and/or distribution and/or public offering performed outside the established Territory or of the agreed sales channels concerning Products containing INTERTRACO's IP Rights, must be approved in writing by INTERTRACO.

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c) it is strictly forbidden to make misleading, distorted or otherwise non-compliant use of IP Rights and/or Products and/or any material owned by, originating from and/or connected to INTERTRACO, in such a way as to mislead the consumer about the origin of the products or their quality or technical and economic characteristics, their intended use or anything else not expressly provided for in the documentation supplied by INTERTRACO to the user.

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POLICY SULL'USO DEI DIRITTI DI PROPRIETÀ INDUSTRIALE ED INTELLETTUALE DI INTERTRACO (ITALIA) S.P.A.

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È sempre vietato l'utilizzo e l'applicazione dei Diritti IP di proprietà di INTERTRACO, e da questa ultima registrati, in relazione e/o in applicazione ai prodotti non appartenenti e/o provenienti da INTERTRACO o a questo riconducibili, così come alle immagini di prodotti o altra rappresentazione di prodotti non appartenenti e/o provenienti da INTERTRACO o a questo riconducibili.

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Al fine del mantenimento e/o dell'accrescimento del valore dei Diritti IP e nel rispetto degli stessi, i soggetti che verranno eventualmente autorizzati da INTERTRACO ad utilizzare i Diritti IP di cui al primo paragrafo di questo documento, dovranno necessariamente ed obbligatoriamente sottostare alle seguenti norme, che si considerano parte integrante e inderogabile dell'accordo esplicito tra INTERTRACO e ciascun singolo utilizzatore:

1 - Ciascun Diritto IP non può in alcun modo essere utilizzato se non a fronte di consenso scritto ed esplicito da parte di INTERTRACO;

2 - L' autorizzazione all'utilizzo dei Diritti IP non fornirà alle Parti che ne richiedono l'utilizzo alcun diritto ulteriore e diverso rispetto a quanto contenuto nell'accordo stipulato per iscritto da INTERTRACO con queste ultime. In nessun caso l'autorizzazione conferirà al terzo utilizzatore alcun diritto di proprietà, titolarità e/o licenza aggiuntiva;

3 - L'autorizzazione vincola l'utente alla destinazione e all'utilizzo dei Diritti di Proprietà Intellettuale, della documentazione e del materiale promozionale forniti da INTERTRACO, solo ed esclusivamente nella modalità e nella versione consegnata e/o fornita da INTERTRACO. Le informazioni fornite da INTERTRACO devono essere considerate come definitive; qualsiasi modifica non autorizzata verrà quindi considerata un'alterazione a danno di INTERTRACO, che avrà pertanto il diritto di intraprendere le opportune azioni legali per il risarcimento dei danni subiti;

4 - Nessun materiale relativo a Prodotti e/o alla loro rappresentazione scritta e/o figurativa, così come i relativi e correlati Diritti IP, consegnati da INTERTRACO all'utilizzatore potrà subire qualsivoglia alterazione o modifica da parte dell'utilizzatore senza il previo consenso scritto di INTERTRACO;

5 - L'autorizzazione in nessun caso fornisce licenza e/o permette all'utilizzatore di apportare modifiche a nomi, specifiche tecniche, loghi, marchi o altri Diritti IP, o a descrizioni dei Prodotti di INTERTRACO riportate nei siti web cataloghi, brochure, schede prodotto o in qualsiasi altro materiale ufficiale;

6 - L'autorizzazione in nessun caso dà licenza e/o permette all'utilizzatore di presentare i Prodotti di INTERTRACO su siti web, cataloghi, brochure dell'utilizzatore, così come su schede prodotto o qualsiasi altro materiale ufficiale, in modo difforme da come originariamente autorizzato d/o fornito da INTERTRACO: l'aspetto, la confezione e la presentazione visiva dei Prodotti e/o del materiale promozionale da parte dell'utilizzatore devono rimanere invariati rispetto a quanto originariamente fornito da INTERTRACO. L'uso e la promozione dei Diritti IP e/o dei Prodotti ad essi collegati, tramite sito internet e/o e-commerce e/o canali social e/o piattaforme digitali è oggetto a specifica autorizzazione da parte di INTERTRACO per ogni singolo link;

7 - L'autorizzazione in nessun caso permette l'utilizzo dei Diritti IP al di fuori dell'indirizzo IP e/o del sito online precedentemente concordati, dei canali social concordati, delle piattaforme digitali concordati o di altre aree o canali (esempio: fiere, mercati, esposizioni, ecc.) preventivamente concordati, tutti in ogni caso sottoposti a visione, analisi e autorizzazione preventiva per iscritto da INTERTRACO;

8 - L'autorizzazione in nessun caso permette la creazione e la circolazione di note informative o materiale informativo o altre pubblicazioni inerenti i Diritti IP e/o i Prodotti (ad esempio "newsletter") salvo preventiva visione ed approvazione per iscritto da parte di INTERTRACO;

9 - L'utilizzo di Diritti IP, incluse le applicazioni di immagini e/o fotografie dei Prodotti all'interno di materiale promozionale non fornito e/o consegnato direttamente da INTERTRACO alla Parte utilizzatrice ma direttamente realizzato da questa ultima come ad esempio cataloghi o altro, devono essere obbligatoriamente e preventivamente visionati ed approvati per iscritto da INTERTRACO. In nessun caso è autorizzata la pubblicazione e l'utilizzo di tali rappresentazioni, fotografie, immagini e descrizioni dei Prodotti in fiere, mercati, esposizioni o altro, senza l'approvazione preventiva scritta da parte di INTERTRACO;

10 - Ogni utilizzo e/o commercializzazione e/o proposta al pubblico al di fuori del Territorio stabilito o dei canali di vendita concordati di Prodotti contenenti Diritti IP di proprietà di INTERTRACO dovrà essere approvato per iscritto da INTERTRACO.

Resta inteso e vincolante all'utilizzatore quanto segue:

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b) Ogni utilizzo dei Diritti IP di INTERTRACO e/o del materiale fornito da INTERTRACO difforme rispetto a quanto ivi contenuto e preventivamente da questa ultima accordato per destinazione d'uso, sarà da considerarsi in lesione dei diritti di INTERTRACO e sarà perseguito legalmente;

c) È severamente vietato fare uso in modo ingannevole, distorto, o comunque difforme, dei Diritti IP e/o dei Prodotti e/o di qualsiasi materiale di proprietà di, proveniente da e/o collegato a INTERTRACO, in modo da trarre in inganno il consumatore circa la provenienza dei prodotti o la qualità degli stessi o le loro caratteristiche tecniche ed economiche, la loro destinazione di utilizzo o altro non espressamente previsto nella documentazione fornita da INTERTRACO all'utilizzatore.

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