

BIBUS

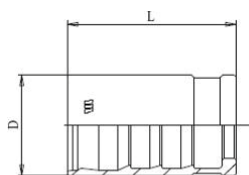
MOVICONTROL BIBUS



TERMINAIS PARA CRAVAR EM MANGUEIRAS

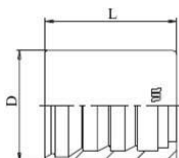


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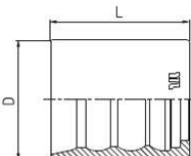

M00820

CAMISAS PARA MANGUEIRA R7 E 2TE

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES (MM)						
	DN	POL	TAM		D	L				
M00820-03	5	3/16"	- 03		14,0	26,4				
M00820-04	6	1/4"	- 04		18,0	30,2				
M00820-05	8	5/16"	- 05		19,0	32,0				
M00820-06	10	3/8"	- 06		22,0	33,0				
M00820-08	12	1/2"	- 08		26,0	33,9				
M00820-10	16	5/8"	- 10		29,0	35,9				
M00820-12	19	3/4"	- 12		33,0	41,7				
M00820-16	25	1"	- 16		41,0	49,7				
M00820-20	31	1.1/4"	- 20		48,0	57,0				
M00820-24	38	1.1/2"	- 24		55,5	66,0				
M00820-32	51	2"	- 32		68,6	70,0				

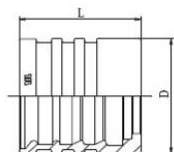

00110

CAMISAS PARA MANGUEIRA R1A


00120

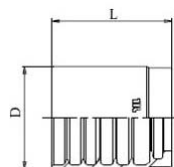
CAMISAS PARA MANGUEIRA R1A

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES						
	DN	POL	TAM		D	L				
00120-03	5	3/16"	- 03		17,0	23,9				
00120-04	6	1/4"	- 04		19,5	28,0				
00120-05	8	5/16"	- 05		20,0	28,6				
00120-06	10	3/8"	- 06		23,0	30,0				
00120-08	12	1/2"	- 08		26,7	32,0				
00120-10	16	5/8"	- 10		32,0	38,0				
00120-12	19	3/4"	- 12		35,8	41,7				
00120-16	25	1"	- 16		43,0	47,0				
00110-20	31	1.1/4"	- 20		50,5	59,0				
00110-24	38	1.1/2"	- 24		57,0	70,0				
00110-32	51	2"	- 32		70,0	72,0				


M00910/M00920

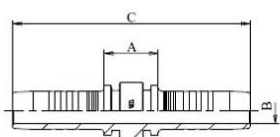
CAMISAS PARA MANGUEIRA 4SP/4SH E R2A

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES EM (mm)						
	DN	POL	TAM		D	L				
00910-03	5	3/16"	- 03		20,6	26,0				
00910-04	6	1/4"	- 04		22,0	30,0				
00910-05	8	5/16"	- 05		24,0	31,0				
00910-06	10	3/8"	- 06		26,0	33,0				
00910-08	12	1/2"	- 08		30,0	34,0				
00910-10	16	5/8"	- 10		33,0	39,0				
00920-12	19	3/4"	- 12		38,0	40,0				
00920-16	25	1"	- 16		46,0	54,0				
00920-20	31	1.1/4"	- 20		57,0	60,0				
00910-24	38	1.1/2"	- 24		65,0	70,0				
00910-32	51	2"	- 32		79,0	72,0				

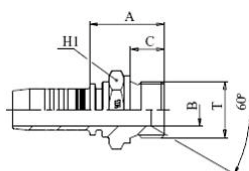

M03400

CAMISAS PARA MANGUEIRA R1AT E R2AT

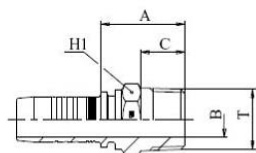
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES EM (MM)						
	DN	POL	TAM		D	L				
03400-03	5	3/16"	- 03		21,0	23,0				
03400-04	6	1/4"	- 04		23,0	30,1				
03400-05	8	5/16"	- 05		24,0	30,0				
03400-06	10	3/8"	- 06		26,0	31,1				
03400-08	12	1/2"	- 08		29,0	33,4				
03400-10	16	5/8"	- 10		33,0	37,0				
03400-12	19	3/4"	- 12		37,0	42,0				
03400-16	25	1"	- 16		46,0	51,0				
03400-20	31	1.1/4"	- 20		59,0	59,0				
03400-24	38	1.1/2"	- 24		67,0	67,0				
03400-32	51	2"	- 32		80,0	72,0				
03400-38	60	2.3/8"	- 38		82,5	69,0				
03400-40	63	2. 1/2"	- 40		88,2	68,8				
03400-48	76	3"	- 48		103,0	75,0				


M10050
NUCLEO DUPLO

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES EM (mm)						
	DN	POL	TAM		B	A	C			
10050-04-04	6	1/4"	- 04		4,0	14,0	69,0			
10050-05-05	8	5/16"	- 05		5,5	14,0	70,0			
10050-06-06	10	3/8"	- 06		7,0	14,7	73,5			
10050-08-08	12	1/2"	- 08		9,3	15,8	78,0			
10050-10-10	16	5/8"	- 10		12,5	15,4	84,0			
10050-12-12	19	3/4"	- 12		15,0	18,5	91,5			
10050-16-16	25	1"	- 16		19,8	22,6	119,0			

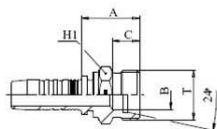

M10510
MACHO BSP PARALELO CONE 60°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H ₁	
10510-03-02	5	3/16"	- 03	1/8" - 28	3,5	22,5	10,0		14	
10510-04-02	6	1/4"	- 04	1/8" - 28	3,5	22,5	10,0		14	
10510-04-04	6	1/4"	- 04	1/4" - 19	5,0	25,5	11,0		19	
10510-04-06	6	1/4"	- 04	3/8" - 19	8,0	27,0	12,0		22	
10510-05-04	8	5/16"	- 05	1/4" - 19	5,0	26,0	11,0		19	
10510-05-06	8	5/16"	- 05	3/8" - 19	8,0	27,5	12,0		22	
10510-06-04	10	3/8"	- 06	1/4" - 19	5,0	26,0	11,0		19	
10510-06-06	10	3/8"	- 06	3/8" - 19	8,0	28,1	12,0		22	
10510-06-08	10	3/8"	- 06	1/2" - 14	11,0	30,6	14,0		27	
10510-08-06	12	1/2"	- 08	3/8" - 19	8,0	28,1	12,0		22	
10510-08-08	12	1/2"	- 08	1/2" - 14	11,0	31,1	14,0		27	
10510-08-10	12	1/2"	- 08	5/8" - 14	14,5	33,1	16,0		30	
10510-08-12	12	1/2"	- 08	3/4" - 14	17,0	34,1	16,0		32	
10510-10-10	16	5/8"	- 10	5/8" - 14	14,5	33,1	16,0		30	
10510-10-12	16	5/8"	- 10	3/4" - 14	17,0	34,1	16,0		32	
10510-12-12	19	3/4"	- 12	3/4" - 14	17,0	35,5	16,0		32	
10510-12-16	19	3/4"	- 12	1" - 11	22,5	39,5	19,0		41	
10510-16-16	25	1"	- 16	1" - 11	22,5	40,8	19,0		41	
10510-16-20	25	1"	- 16	1.1/4" - 11	28,5	44,8	20,0		50	
10510-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	46,5	20,0		50	
10510-24-24	38	1.1/2"	- 24	1.1/2" - 11	33,5	49,5	22,0		55	
10510-32-32	51	2"	- 32	2" - 11	46,0	53,9	25,0		70	

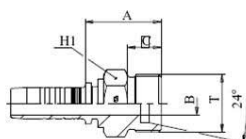

M10710

MACHO BSP (BSPT) ROSCA CONICA

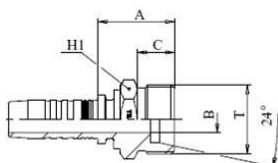
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			DIMENSÕES EM (MM)						
	DN	POL	TAM	T	B	A	C		H ₁	
10710-03-02	5	3/16"	- 03	1/8" - 28	4,5	20,6	8,0		12	
10710-03-04	5	3/16"	- 03	1/4" - 19	4,5	24,5	12,0		14	
10710-04-02	6	1/4"	- 04	1/8" - 28	4,5	21,0	8,0		12	
10710-04-04	6	1/4"	- 04	1/4" - 19	4,5	25,0	12,0		14	
10710-04-06	6	1/4"	- 04	3/8" - 19	7,0	26,0	12,0		19	
10710-04-08	6	1/4"	- 04	1/2" - 14	10,0	29,5	15,0		22	
10710-05-06	8	5/16"	- 05	3/8" - 19	7,0	26,5	12,0		19	
10710-05-08	8	5/16"	- 05	1/2" - 14	10,0	30,0	15,0		22	
10710-06-06	10	3/8"	- 06	3/8" - 19	7,0	27,1	12,0		19	
10710-06-08	10	3/8"	- 06	1/2" - 14	10,0	30,6	15,0		22	
10710-08-04	12	1/2"	- 08	1/4" - 19	4,5	26,0	12,0		19	
10710-08-08	12	1/2"	- 08	1/2" - 14	10,0	31,1	15,0		22	
10710-10-08	16	5/8"	- 10	1/2" - 14	10,0	31,0	15,0		22	
10710-10-12	16	5/8"	- 10	3/4" - 14	17,0	37,0	17,0		27	
10710-12-12	19	3/4"	- 12	3/4" - 14	17,0	35,5	17,0		27	
10710-16-16	25	1"	- 16	1" - 11	22,5	41,8	21,0		36	
10710-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	47,5	23,0		46	
10710-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	50,0	23,0		50	
10710-32-32	51	2"	- 32	2" - 11	44,0	55,4	27,0		65	


M11110
MACHO MÉTRICO CONE 24° SÉRIE LIGEIRA

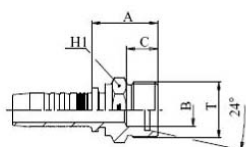
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C		H ₁	
11110-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	21,5	10,0		14	
11110-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	21,5	10,0		14	
11110-04-16	6	1/4"	- 04	M 16x1,5	10	7,0	23,5	11,0		17	
11110-04-18	6	1/4"	- 04	M 18x1,5	12	9,0	23,5	11,0		19	
11110-05-16	8	5/16"	- 05	M 16x1,5	10	7,0	24,0	11,0		17	
11110-05-18	8	5/16"	- 05	M 18x1,5	12	9,0	24,0	11,0		19	
11110-06-16	10	3/8"	- 06	M 16x1,5	10	7,0	24,1	11,0		17	
11110-06-18	10	3/8"	- 06	M 18x1,5	12	9,0	24,6	11,0		19	
11110-06-22	10	3/8"	- 06	M 22x1,5	15	10,0	25,6	12,0		22	
11110-08-22	12	1/2"	- 08	M 22x1,5	15	10,0	25,6	12,0		22	
11110-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	26,4	12,0		27	
11110-10-22	16	5/8"	- 10	M 22x1,5	15	10,0	25,5	12,0		22	
11110-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	26,7	12,0		27	
11110-12-30	19	3/4"	- 12	M 30x2	22	15,0	30,0	14,0		30	
11110-16-36	25	1"	- 16	M 36x2	28	20,0	32,3	14,0		36	
11110-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	40,5	16,0		46	
11110-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	42,6	16,0		55	


M11210
MACHO MÉTRICO CONE 24° - SÉRIE PESADA

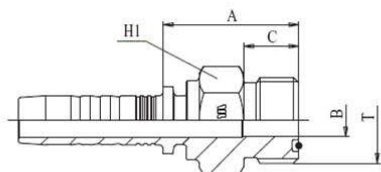
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C		H ₁	
11210-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	25,5	12,0		17	
11210-04-18	6	1/4"	- 04	M 18x1,5	10	6,0	26,5	12,0		19	
11210-04-20	6	1/4"	- 04	M 20x1,5	12	7,0	29,0	12,0		22	
11210-05-20	8	5/16"	- 05	M 20x1,5	12	7,0	29,0	12,0		22	
11210-06-18	10	3/8"	- 06	M 18x1,5	10	7,0	27,1	12,0		19	
11210-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	29,1	12,0		22	
11210-06-22	10	3/8"	- 06	M 22x1,5	14	8,0	31,1	14,0		22	
11210-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	31,6	14,0		24	
11210-10-30	16	5/8"	- 10	M 30x2	20	15,0	35,7	16,0		30	
11210-12-30	19	3/4"	- 12	M 30x2	20	15,0	37,0	16,0		30	
11210-12-36	19	3/4"	- 12	M 36x2	25	19,8	41,0	18,0		36	
11210-16-36	25	1"	- 16	M 36x2	25	19,8	42,3	18,0		36	
11210-16-42	25	1"	- 16	M 42x2	30	25,0	44,3	20,0		46	
11210-20-52	31	1.1/4"	- 20	M 52x2	38	30,0	50,5	22,0		55	


M11710
MACHO MÉTRICO FRANCÊS CONE 24°

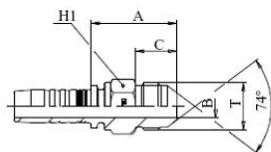
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C		H ₁	
11710-10-2718	16	5/8"	- 10	M 27x1,5	18	12,5	28,7	14,0		28	
11710-10-2720	16	5/8"	- 10	M 27x1,5	20	12,5	28,7	14,0		28	
11710-12-30	19	3/4"	- 12	M 30x1,5	22	15,0	30,0	14,0		30	
11710-12-33	19	3/4"	- 12	M 33x1,5	25	15,0	31,0	14,0		34	


M11810
MACHO MÉTRICO FRANCÊS CONE 24°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C		H ₁	
11810-05-20	8	5/16"	- 05	M 20x1,5	13,25	8,0	27,0	12,0		22	
11810-06-20	10	3/8"	- 06	M 20x1,5	13,25	8,0	27,6	12,0		22	
11810-06-24	10	3/8"	- 06	M 24x1,5	16,75	12,0	28,1	12,0		24	
11810-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	28,4	12,0		24	
11810-10-30	16	5/8"	- 10	M 30x1,5	21,25	15,0	31,7	14,0		30	
11810-12-36	19	3/4"	- 12	M 36x1,5	26,75	21,0	34,0	14,0		36	
11810-16-45	25	1"	- 16	M 45x1,5	33,50	26,0	39,3	16,0		46	

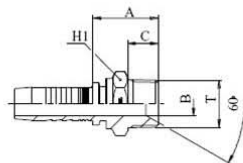

M12410
MACHO COM ROSCA ORFS

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H ₁	
12410-04-04	6	1/4"	- 04	9/16" - 18	4,0	24,0	9,8		16	
12410-04-06	6	1/4"	- 04	11/16" - 16	6,7	26,6	11,2		19	
12410-05-06	8	3/8"	- 05	11/16" - 16	6,7	27,0	11,2		19	
12410-06-06	10	5/16"	- 06	11/16" - 16	6,7	27,6	11,2		19	
12410-06-08	10	3/8"	- 06	13/16" - 16	9,3	30,0	12,8		22	
12410-08-08	12	1/2"	- 08	13/16" - 16	9,3	30,6	12,8		22	
12410-08-10	12	1/2"	- 08	1" - 14	12,5	35,0	15,5		27	
12410-10-10	16	5/8"	- 10	1" - 14	12,5	34,7	15,5		27	
12410-10-12	16	5/8"	- 10	1.3/16" - 12	15,0	37,5	17,0		32	
12410-12-12	19	3/4"	- 12	1.3/16" - 12	15,0	39,0	17,0		32	
12410-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	40,5	17,5		38	
12410-16-16	25	1"	- 16	1.7/16" - 12	19,8	41,8	17,5		38	
12410-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	46,3	17,5		46	
12410-24-24	38	1.1/2"	- 24	2" - 12	32,0	48,6	17,5		55	

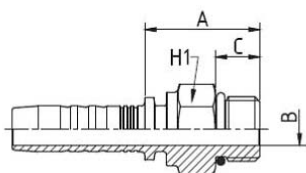

M12510

JIC MACHO VEDAÇÃO A 37° - SAE J516/J514

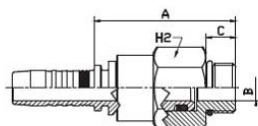
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H ₁	
12510-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,0	14,0		12	
12510-04-05	6	1/4"	- 04	1/2" - 20	5,5	29,0	14,0		14	
12510-04-06	6	1/4"	- 04	9/16" - 18	7,0	29,0	14,0		17	
12510-05-05	8	5/16"	- 05	1/2" - 20	5,5	29,0	14,0		14	
12510-05-06	8	5/16"	- 05	9/16" - 18	7,0	29,0	14,0		17	
12510-06-06	10	3/8"	- 06	9/16" - 18	7,0	29,6	14,0		17	
12510-06-08	10	3/8"	- 06	3/4" - 16	9,3	34,1	16,5		19	
12510-06-10	10	3/8"	- 06	7/8" - 14	12,5	38,6	19,5		24	
12510-08-06	12	1/2"	- 08	9/16" - 18	7,0	32,0	14,0		19	
12510-08-08	12	1/2"	- 08	3/4" - 16	9,3	34,4	16,5		19	
12510-08-10	12	1/2"	- 08	7/8" - 14	12,5	38,9	19,5		24	
12510-08-12	12	1/2"	- 08	1.1/16" - 12	15,0	42,9	22,0		27	
12510-10-10	16	5/8"	- 10	7/8" - 14	12,5	39,2	19,5		24	
12510-10-12	16	5/8"	- 10	1.1/16" - 12	15,0	42,7	22,0		27	
12510-12-10	19	3/4"	- 12	7/8" - 14	12,5	41,5	19,5		27	
12510-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	44,0	22,0		27	
12510-12-14	19	3/4"	- 12	1.3/16" - 12	16,0	44,5	22,5		32	
12510-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	47,0	23,0		34	
12510-16-12	25	1"	- 16	1.1/16" - 12	15,0	44,8	22,0		32	
12510-16-16	25	1"	- 16	1.5/16" - 12	19,8	47,8	23,0		34	
12510-16-20	25	1"	- 16	1.5/8" - 12	26,0	52,8	24,3		42	
12510-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	53,5	24,3		42	
12510-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	60,5	27,5		50	
12510-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	60,5	27,5		50	
12510-32-32	51	2"	- 32	2.1/2" - 12	42,0	71,8	34,0		65	


M12810
MACHO NPTF COM CONE A 30°

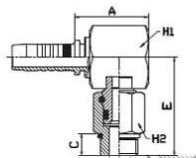
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H ₁	
12810-03-02	5	3/16"	- 03	1/8" - 27	4,0	23,6	10,0		12	
12810-03-04	5	3/16"	- 03	1/4" - 18	5,5	29,1	14,5		14	
12810-04-02	6	1/4"	- 04	1/8" - 27	4,0	24,1	10,0		12	
12810-04-04	6	1/4"	- 04	1/4" - 18	5,5	29,0	14,5		14	
12810-04-06	6	1/4"	- 04	3/8" - 18	9,3	31,5	14,5		19	
12810-04-08	6	1/4"	- 04	1/2" - 14	9,3	33,5	19,2		24	
12810-05-04	8	5/16"	- 05	1/4" - 18	5,5	30,0	14,5		14	
12810-05-06	8	5/16"	- 05	3/8" - 18	9,3	32,0	14,5		19	
12810-06-04	10	3/8"	- 06	1/4" - 18	5,5	30,1	14,5		14	
12810-06-06	10	3/8"	- 06	3/8" - 18	9,3	28,6	14,5		19	
12810-06-08	10	3/8"	- 06	1/2" - 14	12,5	34,6	19,2		24	
12810-08-06	12	1/2"	- 08	3/8" - 18	9,3	28,9	14,5		19	
12810-08-08	12	1/2"	- 08	1/2" - 14	12,5	34,9	19,2		24	
12810-08-12	12	1/2"	- 08	3/4" - 14	16,0	35,4	19,2		27	
12810-10-08	16	5/8"	- 10	1/2" - 14	12,5	38,7	19,2		24	
12810-10-12	16	5/8"	- 10	3/4" - 14	16,0	40,2	19,2		27	
12810-12-12	19	3/4"	- 12	3/4" - 14	16,0	36,5	19,2		27	
12810-12-08	19	3/4"	- 12	1/2" - 14	12,5	36,5	13,6		27	
12810-12-16	19	3/4"	- 12	1" - 11,5	19,8	46,0	24,2		36	
12810-16-12	25	1"	- 16	3/4" - 14	15,5	38,8	19,2		32	
12810-16-16	25	1"	- 16	1" - 11,5	19,8	43,8	24,2		36	
12810-16-20	25	1"	- 16	1.1/4" - 11,5	26,0	56,3	25,0		46	
12810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	56,5	25,0		46	
12810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	57,6	26,0		50	
12810-32-32	51	2"	- 32	2" - 11,5	45,0	64,3	26,5		65	


M13010
MACHO SAE COM O-RING SAE J516/J514

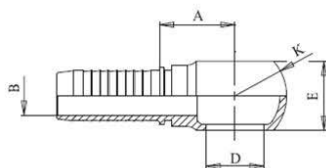
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H ₁	
13010-04-04	6	1/4"	- 04	7/16" - 20	4,0	24,0	9,1		14	
13010-04-06	6	1/4"	- 04	9/16" - 18	7,1	24,5	9,9		17	
13010-06-06	10	3/8"	- 06	9/16" - 18	7,0	25,6	9,9		17	
13010-06-08	10	3/8"	- 06	3/4" - 16	9,3	28,6	11,1		22	
13010-08-08	12	1/2"	- 08	3/4" - 16	9,3	28,9	11,1		22	
13010-08-10	12	1/2"	- 08	7/8" - 14	12,5	31,9	12,7		25	
13010-10-12	16	5/8"	- 10	1.1/16" - 12	15,0	37,7	15,1		32	
13010-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	39,5	15,1		32	
13010-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	40,0	15,1		38	
13010-16-16	25	1"	- 16	1.5/16" - 12	19,8	41,0	15,1		38	


M14310
MACHO SAE ORIENTÁVEL COM O-RING SAE J516/J514

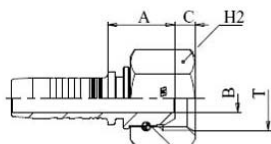
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C			H ₂
14310-04-04	6	1/4"	- 04	7/16" - 20	4,0	41,0	9,1			17
14310-04-06	6	1/4"	- 04	9/16" - 18	7,0	44,0	9,9			22
14310-06-06	10	3/8"	- 06	9/16" - 18	7,0	45,9	9,9			22
14310-06-08	10	3/8"	- 06	3/4" - 16	7,0	47,8	11,1			22
14310-08-08	12	1/2"	- 08	3/4" - 16	9,3	50,9	11,1			27
14310-08-10	12	1/2"	- 08	7/8" - 14	9,3	42,2	13,0			27
14310-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	49,4	15,0			32
14310-10-10	16	5/8"	- 10	7/8" - 14	9,3	41,4	13,0			27
14310-12-12	19	3/4"	- 12	1.1/16" - 12	12,5	47,8	15,0			32


M14390
MACHO 90° SAE ORIENTÁVEL COM O-RING SAE J516/J514

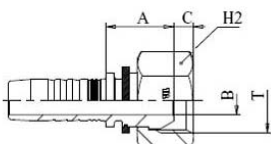
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E	H ₁	H ₂
14390-06-06	10	3/8"	- 06	9/16" - 18	5,7	20,1	9,9	40,0	22	17
14390-06-08	10	3/8"	- 06	3/4" - 16	7,0	20,1	11,1	44,4	22	22
14390-08-08	12	1/2"	- 08	3/4" - 16	9,3	22,1	11,1	49,0	27	22
14390-08-10	12	1/2"	- 08	7/8" - 14	9,3	27,5	13,0	47,5	27	27
14390-10-10	16	5/8"	- 10	7/8" - 14	9,3	28,0	13,0	47,5	27	27
14390-12-12	19	3/4"	- 12	1.1/16" - 12	12,5	27,5	15,0	55,5	32	32


O20310
BANJO BSP

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM		B	A	D	E	K	
20310-04-04	6	1/4"	- 04	1/4" - 19	4,1	22	13,3	14,0	24,0	
20310-05-06	8	5/16"	- 05	3/8" - 19	5,1	23	16,7	18,0	28,0	
20310-06-06	10	3/8"	- 06	3/8" - 19	7,1	24,1	16,7	18,0	28,0	
20310-06-08	10	3/8"	- 06	1/2" - 14	7,1	27,1	21,2	22,0	35,0	
20310-08-08	12	1/2"	- 08	1/2" - 14	9,6	27,5	21,2	22,0	35,0	
20310-10-10	16	5/8"	- 10	5/8" - 14	12,1	28,2	23,0	23,5	38,0	
20310-12-12	19	3/4"	- 12	3/4" - 14	15,0	36,5	26,7	29,0	45,0	
20310-16-16	25	1"	- 16	1" - 11	20,0	44,5	33,4	36,0	54,0	

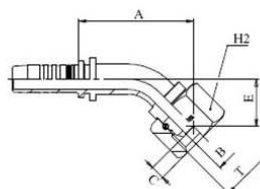

M20512

FÊMEA BSP VEDAÇÃO A 60° - BS5200 (PORCA LOUCA)

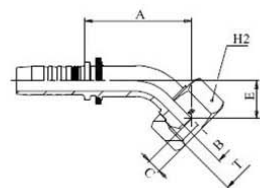

M20513

FÊMEA BSP VEDAÇÃO A 60° - BS5200 (PORCA LOUCA)

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
					T	B	A	C		H ₂
20512-03-02	5	3/16"	- 03	1/8" - 28	3,1	14,8	4,4			14
20513-03-04	5	3/16"	- 03	1/4" - 19	4,0	16,5	5,4			19
20512-04-02	6	1/4"	- 04	1/8" - 28	3,1	15,5	4,4			14
20513-04-04	6	1/4"	- 04	1/4" - 19	4,0	17,0	5,4			19
20513-04-06	6	1/4"	- 04	3/8" - 19	7,0	19,1	6,0			22
20512-05-04	8	5/16"	- 05	1/4" - 19	4,1	17,5	4,2			19
20513-05-06	8	5/16"	- 05	3/8" - 19	7,0	19,1	6,0			22
20512-06-04	10	3/8"	- 06	1/4" - 19	4,1	18,1	4,2			19
20513-06-06	10	3/8"	- 06	3/8" - 19	7,0	19,6	6,0			22
20513-06-08	10	3/8"	- 06	1/2" - 14	9,3	20,0	6,5			27
20512-08-06	12	1/2"	- 08	3/8" - 19	7,1	20,9	6,0			22
20513-08-08	12	1/2"	- 08	1/2" - 14	9,3	20,4	6,5			27
20512-08-10	12	1/2"	- 08	5/8" - 14	12,1	21,9	10,2			28
20512-08-12	12	1/2"	- 08	3/4" - 14	15,0	23,4	9,0			32
20512-10-10	16	5/8"	- 10	5/8" - 14	12,5	21,7	10,2			28
20512-10-12	16	5/8"	- 10	3/4" - 14	15,0	23,2	9,0			32
20512-12-12	19	3/4"	- 12	3/4" - 14	15,0	24,5	9,0			32
20512-12-16	19	3/4"	- 12	1" - 11	19,8	26,0	10,5			38
20512-16-16	25	1"	- 16	1" - 11	19,8	27,3	10,5			38

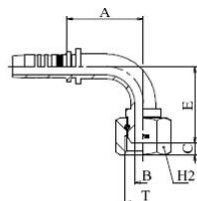

M20542

CURVA FÊMEA 45° BSP VEDAÇÃO A 60°

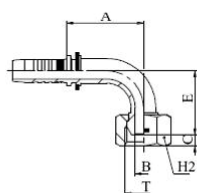

M20543

CURVA FÊMEA 45° BSP VEDAÇÃO A 60°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
					T	B	A	C	E	H ₂
20543-04-04	6	1/4"	- 04		1/4" - 19	4,0	36,0	5,4	15,0	19
20543-04-06	6	1/4"	- 04		3/8" - 19	7,0	37,5	6,0	16,0	19
20543-05-06	8	5/16"	- 05		3/8" - 19	7,0	38,0	6,0	13,5	22
20543-06-06	10	3/8"	- 06		3/8" - 19	7,0	42,0	6,0	15,0	22
20543-06-08	10	3/8"	- 06		1/2" - 14	9,3	42,5	6,5	16,0	27
20543-08-08	12	1/2"	- 08		1/2" - 14	9,3	49,5	6,5	17,0	27
20542-08-10	12	1/2"	- 08		5/8" - 14	12,1	54,5	10,2	22,5	28
20542-10-10	16	5/8"	- 10		5/8" - 14	12,5	63,0	10,2	26,0	28
20542-10-12	16	5/8"	- 10		3/4" - 14	15,0	64,0	9,0	27,0	32
20542-12-12	19	3/4"	- 12		3/4" - 14	15,5	70,5	9,0	28,5	32
20542-12-16	19	3/4"	- 12		1" - 11	19,8	72,5	10,5	30,0	38
20542-16-16	25	1"	- 16		1" - 11	19,8	91,0	10,5	36,5	38

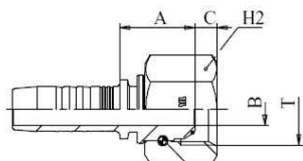

M20592

CURVA FÊMEA 90° BSP VEDAÇÃO A60°

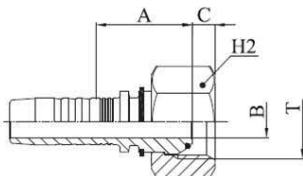

M20593

CURVA FÊMEA 90° BSP VEDAÇÃO A60°

REFERÊNCIA	DIÂMENTRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E		H ₂
20592-03-02	5	3/16"	- 03	1/8" -28	3,1	21,5	4,4	26,0		14
20592-04-02	6	1/4"	- 04	1/8" -28	3,1	28,5	4,4	27,0		14
20593-04-04	6	1/4"	- 04	1/4" -19	4,0	29,5	5,4	29,0		19
20593-04-06	6	1/4"	- 04	3/8" -19	7,0	29,5	6,0	31,0		22
20592-05-04	8	5/16"	- 05	1/4" -19	4,1	26,5	5,4	29,5		19
20593-05-06	8	5/16"	- 05	3/8" -19	7,0	32,0	6,0	27,5		22
20593-06-06	10	3/8"	- 06	3/8" -19	7,0	36,5	6,0	31,5		22
20593-06-08	10	3/8"	- 06	1/2" -14	9,3	36,5	6,5	32,0		27
20592-08-06	12	1/2"	- 08	3/8" -19	7,0	45,0	6,0	41,0		22
20593-08-08	12	1/2"	- 08	1/2" -14	9,3	45,0	6,5	36,5		27
20592-08-10	12	1/2"	- 08	5/8" -14	12,1	44,0	10,2	44,0		28
20592-08-12	12	1/2"	- 08	3/4" -14	15,0	44,0	9,0	45,5		32
20592-10-10	16	5/8"	- 10	5/8" -14	12,5	53,5	10,2	53,5		28
20592-10-12	16	5/8"	- 10	3/4" -14	15,0	53,5	9,0	55,0		32
20592-12-12	19	3/4"	- 12	3/4" -14	15,5	61,5	9,0	59,5		32
20592-12-16	19	3/4"	- 12	1" -11	19,8	61,5	10,5	62,0		38
20592-16-16	25	1"	- 16	1" -11	19,8	79,5	10,5	76,0		38

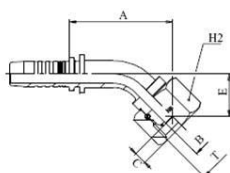

M20812

FÊMEA BSP VEDAÇÃO A 60° E O' RING

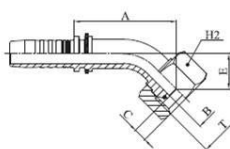

M20813

FÊMEA BSP VEDAÇÃO A 60° E O' RING

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM		T	B	A	C		H ₂
20813-04-04	6	1/4"	- 04		1/4" - 19	4,0	17,5	4,9		19
20812-06-04	10	3/8"	- 06		1/4" - 19	4,0	18,1	4,9		19
20813-06-06	10	3/8"	- 06		3/8" - 19	7,0	20,4	6,1		22
20813-08-08	12	1/2"	- 08		1/2" - 14	9,3	20,4	6,5		27
20812-10-10	16	5/8"	- 10		5/8" - 14	12,5	22,1	9,7		30
20812-12-12	19	3/4"	- 12		3/4" - 14	15,0	25,0	8,5		32
20812-16-16	25	1"	- 16		1" - 11	19,8	27,3	10,6		38
20812-16-20	25	1"	- 16		1.1/4" - 11	26,1	30,8	10,5		50
20812-20-20	31	1.1/4"	- 20		1.1/4" - 11	26,0	31,5	10,5		50
20812-20-24	31	1.1/4"	- 20		1.1/2" - 11	32,1	29,5	12,5		60
20812-24-24	38	1.1/2"	- 24		1.1/2" - 11	32,0	30,5	12,5		60
20812-32-32	51	2"	- 32		2" - 11	42,0	31,9	16,1		70

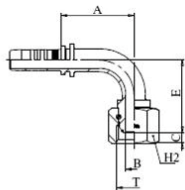

M20842

FÊMEA BSP CURVA A 45° VEDAÇÃO CONE A 60°

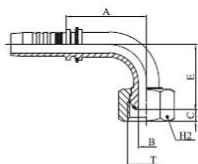

M20843

FÊMEA BSP CURVA A 45° VEDAÇÃO CONE A 60°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM		T	B	A	C	E	H ₂
20843-04-04	6	1/4"	- 04		1/4" - 19	4,0	36,0	4,9	15,0	19
20843-06-06	10	3/8"	- 06		3/8" - 19	7,0	44,5	6,1	18,5	22
20843-08-08	12	1/2"	- 08		1/2" - 14	9,3	52,0	6,5	20,5	27
20842-10-10	16	5/8"	- 10		5/8" - 14	12,5	63,5	9,7	27,5	30
20842-12-12	19	3/4"	- 12		3/4" - 14	15,5	71,0	8,5	29,0	32
20842-16-16	25	1"	- 16		1" - 11	19,8	90,5	10,6	35,6	38
20842-20-20	31	1.1/4"	- 20		1.1/4" - 11	26,0	101,5	10,5	39,0	50
20842-24-24	38	1.1/2"	- 24		1.1/2" - 11	32,0	118,0	12,5	45,0	60
20842-32-32	51	2"	- 32		2" - 11	42,0	134,0	16,1	47,0	70

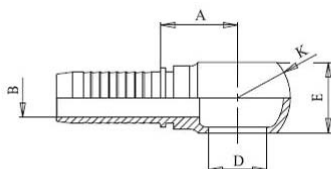

M20892

FÊMEAS CURVAS A 90° VEDAÇÃO CONE 60°

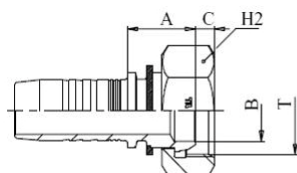

M20893

FÊMEAS CURVAS A 90° VEDAÇÃO CONE 60°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E		H ₂
20893-04-04	6	1/4"	- 04	1/4" - 19	4,0	28,5	4,9	28,5		19
20892-06-04	10	3/8"	-06	1/4" - 19	4,0	35,5	4,9	33,0		19
20893-06-06	10	3/8"	- 06	3/8" - 19	7,0	35,5	6,1	36,0		22
20893-08-08	12	1/2"	- 08	1/2" - 14	9,3	44,5	6,5	42,0		27
20892-10-10	16	5/8"	- 10	5/8" - 14	12,5	53,0	9,7	55,0		30
20892-12-12	19	3/4"	- 12	3/4" - 14	15,0	61,5	8,5	60,0		32
20892-16-16	25	1"	- 16	1" - 11	19,8	79,5	10,6	76,0		38
20892-16-20	25	1"	- 16	1.1/4" - 11	26,1	79,5	10,5	78,5		50
20892-20-20	31	1.1/4"	- 20	1.1/4" - 11	26,0	90,5	10,5	83,5		50
20892-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,1	90,5	12,5	84,5		60
20892-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	108,0	12,5	98,5		60
20892-32-32	51	2"	- 32	2" - 11	42,0	131,0	16,1	110,5		70

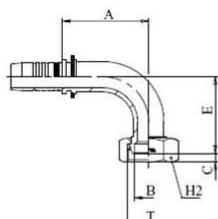

O20910
BANJO MÉTRICO

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM		B	A	D	E	K	
20910-04-12	6	1/4"	- 04	M12 x 1,5	4,1	21	12,0	12,0	20,0	
20910-04-14	6	1/4"	- 04	M14 x 1,5	4,1	21,5	14,0	14,0	24,0	
20910-05-14	8	5/16"	- 05	M14 x 1,5	5,1	23,1	14,0	14,0	24,0	
20910-06-14	10	3/8"	- 06	M14 x 1,5	7,1	24,1	14,0	14,0	24,0	
20910-06-16	10	3/8"	- 06	M16 x 1,5	7,1	24,1	16,0	18,0	28,0	
20910-06-18	10	3/8"	- 06	M18 x 1,5	7,1	27,1	18,0	20,0	32,0	
20910-08-18	12	1/2"	- 08	M18 x 1,5	9,6	27,5	18,0	20,0	32,0	
20910-08-22	12	1/2"	- 08	M22 x 1,5	9,6	27,5	22,0	22,0	35,0	
20910-10-22	16	5/8"	- 10	M22 x 1,5	12,1	28,2	22,0	23,5	38,0	
20910-12-26	19	3/4"	- 12	M26 x 1,5	15,0	36,5	26,0	29,0	45,0	


M21013

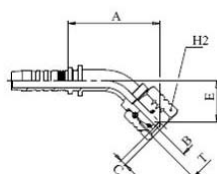
FÊMEA MÉTRICA CONE 60°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C			H ₂
21013-12-30	19	3/4"	- 12	M 30x1,5	20,0	21,0	8,1			36
21013-16-38	25	1"	- 16	M 38x1,5	26,0	22,8	7,6			46
21013-20-45	31	1.1/4"	- 20	M 45x1,5	33,0	23,5	8,1			50
21013-24-52	38	1.1/2"	- 24	M 52x1,5	40,0	25,0	8,1			60

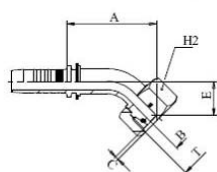

M21093

CURVA A 90° MÉTRICA CONE 60

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E		H ₂
21093-12-30	19	3/4"	- 12	M 30x1,5	20,0	61,5	8,1	54,5		36
21093-16-38	25	1"	- 16	M 38x1,5	26,0	76,5	7,6	63,0		46

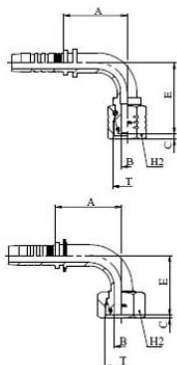

M21542

CURVA 45° MÉTRICA CONE 24°


M21543

CURVA 45° MÉTRICA CONE 24°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C	E		H ₂
21543-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	38,0	1,7	16,5		17
21543-04-16	6	1/4"	- 04	M 16x1,5	10	6,0	38,0	2,1	17,0		19
21543-05-16	8	5/16"	- 05	M 16x1,5	10	6,0	41,5	2,1	17,5		19
21543-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	41,5	2,3	17,0		22
21542-06-16	10	3/8"	- 06	M 16x1,5	10	6,0	47,5	3,0	21,5		19
21543-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	43,5	2,3	16,5		22
21543-06-22	10	3/8"	- 06	M 22x1,5	15	9,3	45,0	2,3	18,0		27
21543-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	52,0	2,3	19,0		27
21543-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	62,0	2,5	26,5		32
21543-12-30	19	3/4"	- 12	M 30x2	22	15,0	71,0	3,6	28,5		36
21543-16-36	25	1"	- 16	M 36x2	28	19,8	85,0	3,8	32,0		41
21543-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	99,5	5,1	36,0		50
21543-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	117,0	5,1	44,5		60

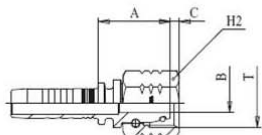
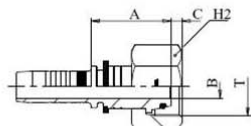

M21592

CURVA A 90° MÉTRICA CONE 24°- SÉRIE LIGEIRA

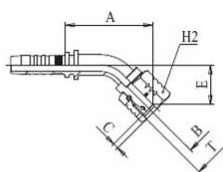
M21593

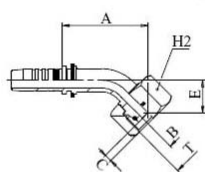
CURVA A 90° MÉTRICA CONE 24°-SÉRIE LIGEIRA

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C	E		H ₂
21593-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	26,0	1,7	30,0		14
21592-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	28,5	2,2	32,5		17
21593-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	29,5	1,7	31,5		17
21593-04-16	6	1/4"	- 04	M 16x1,5	10	6,0	29,5	2,1	32,0		19
21593-04-18	6	1/4"	- 04	M 18x1,5	12	7,0	29,5	2,3	33,0		22
21593-05-16	8	5/16"	- 05	M 16x1,5	10	6,0	32,0	2,1	32,5		19
21593-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	32,0	2,3	35,0		22
21592-06-16	10	3/8"	- 06	M 16x1,5	10	6,0	35,5	3,0	40,0		19
21593-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	36,5	2,3	33,5		22
21593-06-22	10	3/8"	- 06	M 22x1,5	15	9,3	36,5	2,3	35,0		27
21592-08-18	12	1/2"	- 08	M 18x1,5	12	7,0	44,0	2,9	48,0		22
21593-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	45,0	2,3	39,5		27
21593-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	45,0	2,5	40,0		32
21593-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	51,5	2,5	53,0		32
21593-10-30	16	5/8"	- 10	M 30x2	22	15,0	51,5	3,6	54,0		36
21593-12-30	19	3/4"	- 12	M 30x2	22	15,0	61,5	3,6	59,0		36
21593-16-36	25	1"	- 16	M 36x2	28	19,8	76,5	3,8	69,5		41
21593-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	93,5	5,1	81,0		50
21593-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	107,5	5,1	98,0		60


M21612
**FÊMEA MÉTRICA COM ORING CONE 24°
SÉRIE PESADA**

M21613
**FÊMEA MÉTRICA COM ORING CONE 24°
SÉRIE PESADA**

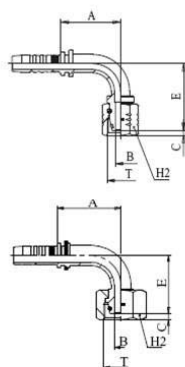
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C			H ₂
21613-03-16	5	3/16"	- 03	M 16x1,5	8	3,2	21,9	3,4			19
21613-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	23,5	3,5			17
21613-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	22,2	3,4			19
21613-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	28,0	3,0			22
21613-04-20	6	1/4"	- 04	M 20x1,5	12	7,0	25,7	2,5			24
21613-05-18	8	5/16"	- 05	M 18x1,5	10	5,5	28,0	3,0			22
21613-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	24,8	2,5			24
21613-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	25,3	2,5			24
21613-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	32,6	3,0			27
21613-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	26,7	3,0			30
21613-10-30	16	5/8"	- 10	M 30x2	20	12,5	30,6	3,5			36
21612-12-30	19	3/4"	- 12	M 30x2	20	12,5	33,5	2,2			36
21613-12-36	19	3/4"	- 12	M 36x2	25	15,0	34,1	4,5			41
21612-16-36	25	1"	- 16	M 36x2	25	15,0	35,3	1,7			41
21613-16-42	25	1"	- 16	M 42x2	30	19,8	35,4	6,3			50
21613-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	37,5	8,0			60
21613-24-52	38	1.1/2"	- 24	M 52x2	38	26,0	49,6	8,0			60


M21642

 CURVA MÉTRICA A 45° COM ORING CONE 24°
SÉRIE PESADA

M21643

 CURVA MÉTRICA A 45° COM ORING CONE 24°
SÉRIE PESADA

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C	E		H ₂
21643-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	36,0	3,4	15,0		19
21643-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	37,5	3,0	16,5		22
21643-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	42,5	2,5	18,5		24
21643-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	45,0	2,5	18,0		24
21643-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	46,5	3,0	19,5		27
21643-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	52,5	3,0	20,0		30
21643-10-30	16	5/8"	- 10	M 30x2	20	12,5	65,5	3,5	29,5		36
21642-12-30	19	3/4"	- 12	M 30x2	20	12,5	76,5	2,2	34,0		36
21643-12-36	19	3/4"	- 12	M 36x2	25	15,0	75,0	4,5	32,5		41
21643-16-42	25	1"	- 16	M 42x2	30	19,8	90,0	6,3	35,5		50
21643-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	103,0	8,0	39,5		60

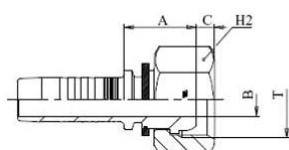

M21692

**CURVA MÉTRICA A 90° CONE 24°
SÉRIE PESADA**

M21693

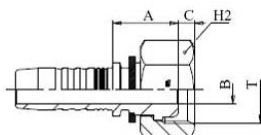
**CURVA MÉTRICA A 90° CONE 24°
SÉRIE PESADA**

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C	E		H ₂
21693-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	29,5	3,4	29,5		19
21693-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	29,5	3,0	31,0		22
21693-04-20	6	1/4"	- 04	M 20x1,5	12	5,5	29,5	2,5	34,5		24
21693-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	32,0	2,5	34,0		24
21693-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	36,5	2,5	35,0		24
21693-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	36,5	3,0	37,0		27
21693-06-24	10	3/8"	- 06	M 24x1,5	16	9,3	36,5	3,0	36,0		30
21693-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	45,0	3,0	40,5		30
21693-10-30	16	5/8"	- 10	M 30x2	20	12,5	51,5	3,5	57,5		36
21692-12-30	19	3/4"	- 12	M 30x2	20	12,5	61,5	2,2	67,5		36
21693-12-36	19	3/4"	- 12	M 36x2	25	15,0	61,5	4,5	64,5		41
21692-16-36	25	1"	- 16	M 36x2	25	15,0	79,5	1,7	86,0		41
21693-16-42	25	1"	- 16	M 42x2	30	19,8	79,0	6,3	74,5		50
21693-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	93,5	8,0	85,5		60

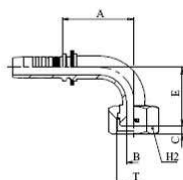

M21713

FÊMEA MÉTRICA FRANCESA CONE 24°

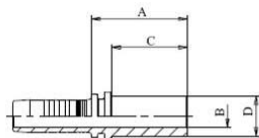
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C			H ₂
21713-10-2718	16	5/8"	- 10	M 27x1,5	18	12,5	22,2	5,1			32
21713-10-2720	16	5/8"	- 10	M 27x1,5	20	12,5	22,2	5,1			32
21713-12-30	19	3/4"	- 12	M 30x1,5	22	15,0	25,5	4,1			36
21713-12-33	19	3/4"	- 12	M 33x1,5	25	15,0	25,5	4,1			38
21713-16-36	25	1"	- 16	M 36x1,5	28	19,8	27,8	4,8			41
21713-16-39	25	1"	- 16	M 39x1,5	30	19,8	28,3	4,3			46


M21813
FÊMEA MÉTRICA FRANCESA

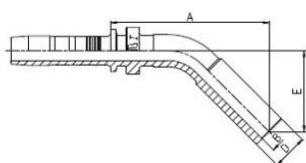
REFERÊNCIA	DIMENSÕES DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C			H ₂
21813-04-20	6	1/4"	- 04	M 20x1,5	13,25	7,0	22,1	4,3			24
21813-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	22,1	4,3			24
21813-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	22,6	4,3			24
21813-06-24	10	3/8"	- 06	M 24x1,5	16,75	9,3	25,6	4,0			30
21813-08-24	12	1/2"	- 08	M 24x1,5	16,75	9,3	26,5	4,0			30
21813-08-30	12	1/2"	- 08	M 30x1,5	21,25	12,5	23,6	5,1			36
21813-10-30	16	5/8"	- 10	M 30x1,5	21,25	12,5	23,7	5,1			36
21813-12-36	19	3/4"	- 12	M 36x1,5	26,75	15,0	27,0	4,8			41
21813-16-45	25	1"	- 16	M 45x1,5	33,50	19,8	26,8	4,6			50


M21893
CURVA MÉTRICA A 90° FRANCESA

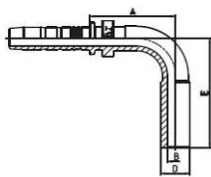
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	mm	B	A	C	E		H ₂
21893-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	32,0	4,3	29,5		24
21893-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	36,5	4,3	33,5		24
21893-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	45,0	4,0	41,0		30
21893-10-30	16	5/8"	- 10	M 30x1,5	21,25	12,5	51,5	5,1	53,5		36
21893-12-36	19	3/4"	- 12	M 36x1,5	26,75	15,0	61,5	4,8	60,0		41


M22010
PONTA TUBULAR -SÉRIE LIGEIRA

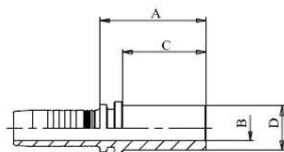
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			TUBO	DIMENSÕES EM (mm)				
	DN	POL	TAM	D	B	A	C		
22010-03-04	5	3/16"	- 03	4	2,0	29,6	22,0		
22010-03-06	5	3/16"	- 03	6	3,0	28,6	22,0		
22010-04-06	6	1/4"	- 04	6	3,0	29,5	22,0		
22010-05-10	8	5/16"	- 05	10	7,0	30,5	23,0		
22010-06-10	10	3/8"	- 06	10	7,0	30,6	23,0		
22010-06-12	10	3/8"	- 06	12	8,0	30,6	23,0		
22010-06-15	10	3/8"	- 06	15	10,5	32,6	25,0		
22010-08-12	12	1/2"	- 08	12	8,0	30,9	23,0		
22010-08-15	12	1/2"	- 08	15	10,5	32,9	25,0		
22010-08-18	12	1/2"	- 08	18	12,5	33,9	26,0		
22010-10-18	16	5/8"	- 10	18	12,5	34,2	26,0		
22010-10-22	16	5/8"	- 10	22	15,0	36,2	28,0		
22010-12-18	19	3/4"	- 12	18	15,0	36,2	26,0		
22010-12-22	19	3/4"	- 12	22	15,0	38,0	28,0		
22010-16-28	25	1"	- 16	28	20,5	41,3	30,0		
22010-20-35	31	1.1/4"	- 20	35	26,0	48,5	36,0		
22010-24-42	38	1.1/2"	- 24	42	32,0	52,6	40,0		


M22040
PONTA TUBULAR A 45° - SÉRIE LIGEIRA

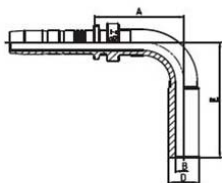
REFERÊNCIA	DIÂMETRO DA MANGUEIRA			TUBO	DIMENSÕES EM (MM)				
	DN	POL	TAM	D	B	A	E		
22040-04-06	6	1/4"	- 04	6	3,0	38,0	20,5		
22040-05-10	8	5/16"	- 05	10	7,0	44,5	22,5		
22040-06-10	10	3/8"	- 06	10	7,0	47,5	23,0		
22040-06-12	10	3/8"	- 06	12	8,0	49,5	25,0		
22040-08-15	12	1/2"	- 08	15	10,5	58,0	28,0		
22040-10-18	16	5/8"	- 10	18	12,5	63,5	30,5		
22040-12-22	19	3/4"	- 12	22	15,0	69,0	32,0		
22040-16-28	25	1"	- 16	28	19,8	81,5	37,0		


M22090
PONTA TUBULAR A 90° -SÉRIE LIGEIRA

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	D	B	A		E		
22090-03-06	5	3/16"	- 03	6	3,0	22,5		34,0		
22090-04-06	6	1/4"	- 04	6	3,0	23,0		34,0		
22090-05-10	8	5/16"	- 05	10	7,0	29,5		40,0		
22090-06-10	10	3/8"	- 06	10	7,0	34,0		42,5		
22090-06-12	10	3/8"	- 06	12	8,0	34,0		45,0		
22090-08-15	12	1/2"	- 08	15	10,5	42,0		52,0		
22090-08-18	12	1/2"	- 08	18	12,5	42,0		55,0		
22090-10-18	16	5/8"	- 10	18	12,5	49,0		59,0		
22090-12-22	19	3/4"	- 12	22	15,0	54,5		63,0		
22090-16-28	25	1"	- 16	28	19,8	67,5		75,0		
22090-20-35	31	1.1/4"	- 20	35	26,0	80,5		94,0		

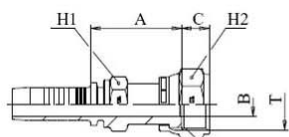

M22110
PONTA TUBULAR - SÉRIE PESADA

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	D	B	A	C			
22110-03-08	5	3/16"	- 03	8	3,0	30,6	24,0			
22110-04-08	6	1/4"	- 04	8	4,0	31,5	24,0			
22110-04-10	6	1/4"	- 04	10	4,0	33,5	26,0			
22110-04-12	6	1/4"	- 04	12	7,0	33,5	26,0			
22110-05-12	8	5/16"	- 05	12	7,0	33,5	26,0			
22110-06-14	10	3/8"	- 06	14	8,0	36,6	29,0			
22110-08-14	12	1/2"	- 08	14	9,3	36,9	29,0			
22110-08-16	12	1/2"	- 08	16	10,5	37,9	30,0			
22110-10-20	16	5/8"	- 10	20	12,5	44,2	36,0			
22110-12-20	19	3/4"	- 12	20	15,0	46,0	36,0			
22110-12-25	19	3/4"	- 12	25	15,0	50,0	40,0			
22110-16-25	25	1"	- 16	25	15,0	51,3	40,0			
22110-16-30	25	1"	- 16	30	20,5	55,3	44,0			
22110-16-38	25	1"	- 16	38	26,0	61,3	50,0			
22110-20-30	31	1.1/4"	- 20	30	20,5	56,5	44,0			
22110-20-38	31	1.1/4"	- 20	38	26,0	62,5	50,0			
22110-24-38	38	1.1/2"	- 24	38	26,0	62,6	50,0			


M22190

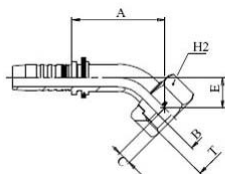
PONTA TUBULAR A 90°- SÉRIE PESADA

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			TUBO	DIMENSÕES EM (mm)					
	DN	POL	TAM	D	B	A		E		
22190-04-08	6	1/4"	- 04	8	4,0	27,0		38,0		
22190-04-10	6	1/4"	- 04	10	6,0	27,0		41,0		
22190-04-12	6	1/4"	- 04	12	7,0	27,0		44,0		
22190-05-12	8	5/16"	- 05	12	7,0	30,5		44,0		
22190-06-14	10	3/8"	- 06	14	9,3	35,0		51,0		
22190-08-14	12	1/2"	- 08	14	9,3	42,0		53,5		
22190-08-16	12	1/2"	- 08	16	10,5	43,0		55,0		
22190-10-20	16	5/8"	- 10	20	12,5	49,0		66,5		
22190-12-20	19	3/4"	- 12	20	15,0	54,5		69,0		
22190-12-25	19	3/4"	- 12	25	15,0	57,5		75,0		
22190-16-25	25	1"	- 16	25	15,0	61,5		76,5		
22190-16-30	25	1"	- 16	30	19,8	69,5		87,0		

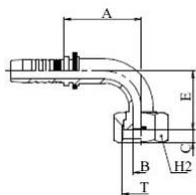

M22411

FÊMEA ORFS

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C		H1	H2
22411-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,0		13	19
22411-04-06	6	1/4"	- 04	11/16" - 16	7,0	30,0	9,5		16	22
22411-05-06	8	5/16"	- 05	11/16" - 16	7,0	30,5	9,5		16	22
22411-06-06	10	3/8"	- 06	11/16" - 16	7,0	31,1	9,5		16	22
22411-06-08	10	3/8"	- 06	13/16" - 16	9,3	35,6	11,0		19	24
22411-08-06	12	1/2"	- 08	11/16" - 16	7,0	31,9	9,5		19	22
22411-08-08	12	1/2"	- 08	13/16" - 16	9,3	35,9	11,0		19	24
22411-08-10	12	1/2"	- 08	1" - 14	11,5	38,4	13,5		24	30
22411-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	41,9	14,5		28	36
22411-10-10	16	5/8"	- 10	1" - 14	11,5	38,7	13,5		24	30
22411-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	42,0	14,5		28	36
22411-12-10	19	3/4"	- 12	1" - 14	11,5	41,0	13,5		28	30
22411-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	43,5	14,5		28	36
22411-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	45,5	15,0		36	41
22411-16-12	25	1"	- 16	1.3/16" - 12	13,9	45,8	14,5		36	36
22411-16-16	25	1"	- 16	1.7/16" - 12	19,8	46,3	15,0		36	41
22411-16-20	25	1"	- 16	1.11/16" - 12	26,0	49,5	14,8		41	50
22411-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	49,0	14,8		41	50
22411-24-24	38	1.1/2"	- 24	2" - 12	32,0	54,0	15,8		50	60

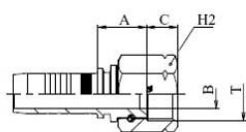

M22443

				T	B	A	C	E		H ₂
22443-04-04	6	1/4"	- 04	9/16" - 18	4,0	31,0	8,2	10,5		17
22443-04-06	6	1/4"	- 04	11/16" - 16	7,0	31,0	9,5	10,5		22
22443-05-06	8	5/16"	- 05	11/16" - 16	7,0	34,0	9,5	10,5		22
22443-06-06	10	3/8"	- 06	11/16" - 16	7,0	32,5	9,5	11,0		22
22443-06-08	10	3/8"	- 06	13/16" - 16	9,3	34,0	11,0	12,5		24
22441-08-06	12	1/2"	- 08	11/16" - 16	7,0	33,0	9,5	11,0		22
22443-08-08	12	1/2"	- 08	13/16" - 16	9,3	42,0	11,0	13,0		24
22443-08-10	12	1/2"	- 08	1" - 14	11,5	42,0	13,5	13,5		30
22443-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	46,5	14,5	18,5		36
22443-10-10	16	5/8"	- 10	1" - 14	11,5	49,0	13,5	16,0		30
22443-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	51,5	14,5	18,5		36
22441-12-10	19	3/4"	- 12	1" - 14	11,5	50,5	13,5	16,5		30
22443-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	60,5	14,5	21,5		36
22443-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	61,0	14,8	21,0		41
22443-16-16	25	1"	- 16	1.7/16" - 12	19,8	72,0	14,8	23,5		41
22443-16-20	25	1"	- 16	1.11/16" - 12	26,0	74,0	14,8	25,2		50
22443-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	82,0	14,8	27,0		50
22443-24-24	38	1.1/2"	- 24	2" - 12	32,0	98,0	14,8	31,5		60

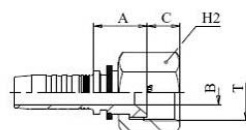

M22493

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				T	B	A	C	E		H ₂
22493-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,2	24,0		17
22493-04-06	6	1/4"	- 04	11/16" - 16	7,0	27,5	9,5	22,0		22
22493-05-06	8	5/16"	- 05	11/16" - 16	7,0	32	9,5	23,0		22
22493-06-06	10	3/8"	- 06	11/16" - 16	7,0	30,0	9,5	24,0		22
22493-06-08	10	3/8"	- 06	13/16" - 16	9,3	30,0	11,0	26,5		24
22491-08-06	12	1/2"	- 08	11/16" - 16	7,0	30,9	9,5	24,5		22
22493-08-08	12	1/2"	- 08	13/16" - 16	9,3	40,5	11,0	30,0		24
22493-08-10	12	1/2"	- 08	1" - 14	11,5	40,5	13,5	30,0		30
22493-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	39,5	14,5	37,5		36
22493-10-10	16	5/8"	- 10	1" - 14	11,5	48,0	13,5	37,5		30
22493-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	48,0	14,5	41,0		36
22491-12-10	19	3/4"	- 12	1" - 14	11,5	49,0	13,5	38,0		30
22493-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	56,5	14,5	48,0		36
22493-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	56,5	14,8	47,5		41
22491-16-12	25	1"	- 16	1.3/16" - 12	13,9	57,6	14,5	48,0		36
22493-16-16	25	1"	- 16	1.7/16" - 12	19,8	71,5	14,8	56,0		41
22493-16-20	25	1"	- 16	1.11/16" - 12	26,0	71,5	14,8	58,5		50
22493-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	83,0	14,8	66,0		50
22493-24-24	38	1.1/2"	- 24	2" - 12	32,0	102,0	14,8	79,5		60

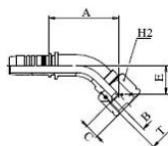

M22512

FÊMEA JIC VEDAÇÃO A 37°

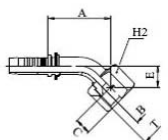

M22513

FÊMEA JIC VEDAÇÃO A 37°

REFERÊNCIA				ROSCA	DIMENSÕES EM (mm)					
				T	B	A	C			H ₂
M22513-03-04	5	3/16"	- 03	7/16" - 20	3,0	15,1	9,0			15
M22512-04-04	6	1/4"	- 04	7/16" - 20	4,0	15,5	8,2			17
M22512-04-05	6	1/4"	- 04	1/2" - 20	4,0	15,8	9,2			17
M22513-04-06	6	1/4"	- 04	9/16" - 18	4,0	16,5	9,8			19
M22512-05-05	8	5/16"	- 05	1/2" - 20	5,5	16,0	9,2			17
M22512-05-06	8	5/16"	- 05	9/16" - 18	7,0	15,7	9,7			19
M22513-05-08	8	5/16"	- 05	3/4" - 16	5,5	16,7	10,7			22
M22512-06-05	10	3/8"	- 06	1/2" - 20	5,5	16,6	9,5			17
M22512-06-06	10	3/8"	- 06	9/16" - 18	7,0	16,1	9,2			19
M22513-06-08	10	3/8"	- 06	3/4" - 16	7,0	17,3	10,7			22
M22513-06-10	10	3/8"	- 06	7/8" - 14	9,3	18,1	12,4			27
M22512-08-08	12	1/2"	- 08	3/4" - 16	9,3	19,9	10,2			22
M22513-08-10	12	1/2"	- 08	7/8" - 14	9,3	18,5	12,4			27
M22513-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	21,8	13,8			32
M22512-10-10	16	5/8"	- 10	7/8" - 14	12,5	19,9	12,3			27
M22513-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	21,7	13,8			32
M22512-12-10	19	3/4"	- 12	7/8" - 14	12,5	21,5	12,3			27
M22512-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	22,5	14,2			32
M22512-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	23,1	14,8			36
M22512-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	23,0	15,2			38
M22512-16-12	25	1"	- 16	1.1/16" - 12	15,0	23,3	14,4			32
M22512-16-16	25	1"	- 16	1.5/16" - 12	19,8	23,8	15,2			38
M22512-16-20	25	1"	- 16	1.5/8" - 12	26,0	29,8	16,2			50
M22512-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	30,0	16,2			50
M22512-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	35,0	18,8			60
M22512-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	35,0	18,8			60
M22512-32-32	51	2"	- 32	2.1/2" - 12	44,0	35,4	24,0			75

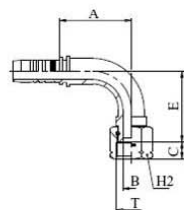

M22542

CURVA A 45° JIC COM VEDAÇÃO A 37°

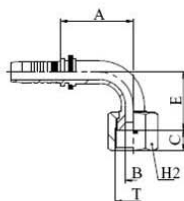

M22543

CURVA A 45° JIC COM VEDAÇÃO A 37°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E		H ₂
22542-04-04	6	1/4"	- 04	7/16" - 20	4,0	35,5	8,2	14,5		17
22542-04-05	6	1/4"	- 04	1/2" - 20	4,0	35,7	9,2	14,5		17
22543-04-06	6	1/4"	- 04	9/16" - 18	4,0	35,5	9,8	14,0		19
22542-05-05	8	5/16"	- 05	1/2" - 20	5,5	37,5	9,2	14,5		17
22542-05-06	8	5/16"	- 05	9/16" - 18	7,0	38,0	9,2	14,5		19
22542-06-06	10	3/8"	- 06	9/16" - 18	7,0	42,0	9,2	16,5		19
22543-06-08	10	3/8"	- 06	3/4" - 16	7,0	41,0	10,7	14,0		22
22543-06-10	10	3/8"	- 06	7/8" - 14	9,3	42,5	12,4	15,5		27
22542-08-08	12	1/2"	- 08	3/4" - 16	9,3	52,0	10,2	20,0		22
22543-08-10	12	1/2"	- 08	7/8" - 14	9,3	49,5	12,4	17,0		27
22543-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	50,0	13,8	17,0		32
22542-10-10	16	5/8"	- 10	7/8" - 14	12,5	62,0	12,3	25,5		27
22543-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	60,0	13,8	24,0		32
22542-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	70,0	14,2	27,5		32
22542-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	69,0	14,8	27,5		36
22542-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	70,0	15,2	27,5		38
22542-16-12	25	1"	- 16	1.1/16" - 12	15,0	72,5	14,2	27,5		32
22542-16-16	25	1"	- 16	1.5/16" - 12	19,8	86,0	15,2	32,0		38
22542-16-20	25	1"	- 16	1.5/8" - 12	26,0	90,0	16,2	36,0		50
22542-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	103,5	16,2	41,5		50
22542-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	106,5	18,8	44,5		60
22542-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	119,0	18,8	46,5		60
22542-32-32	51	2"	- 32	2.1/2" - 12	44,0	163,0	24,0	68,0		75


M22592

CURVAS 90° JIC COM VEDAÇÃO A 37°


M22593

CURVAS 90° JIC COM VEDAÇÃO A 37°

REFERÊNCIA	DIÂMETRO DA MANGUEIRA			ROSCA	DIMENSÕES EM (mm)					
	DN	POL	TAM	T	B	A	C	E		H ₂
22593-03-04	5	3/16"	- 03	7/16" - 20	3,0	26,0	9,0	23,5		15
22592-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	27,0		17
22592-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	27,5		17
22593-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	28,0		19
22593-04-08	6	1/4"	- 04	3/4" - 16	7,0	29,3	11,0	30,5		22
22592-05-05	8	5/16"	- 05	1/2" - 20	5,5	29,5	9,2	27,5		17
22592-05-06	8	5/16"	- 05	9/16" - 18	7,0	31,0	9,2	28,5		19
22592-06-05	10	3/8"	- 06	1/2" - 20	5,5	30,1	9,5	26,5		17
22592-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2	32,5		19
22593-06-08	10	3/8"	- 06	3/4" - 16	7,0	36,5	10,7	29,5		22
22593-06-10	10	3/8"	- 06	7/8" - 14	9,3	36,5	12,4	31,5		27
22592-08-06	12	1/2"	- 08	9/16" - 18	7,0	37,0	9,2	33,0		19
22592-08-08	12	1/2"	- 08	3/4" - 16	9,3	44,0	10,2	41,0		22
22593-08-10	12	1/2"	- 08	7/8" - 14	9,3	45,0	12,4	36,0		27
22593-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	45,0	13,8	36,0		32
22592-10-10	16	5/8"	- 10	7/8" - 14	12,5	53,5	12,3	52,5		27
22593-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	51,5	13,8	50,0		32
22592-12-10	19	3/4"	- 12	7/8" - 14	12,5	55,0	12,3	52,5		27
22592-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	62,0	14,2	58,0		32
22592-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	62,0	14,8	58,0		36
22592-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	62,0	15,2	57,5		38
22592-16-16	25	1"	- 16	1.5/16" - 12	19,8	77,0	15,2	67,0		38
22592-16-20	25	1"	- 16	1.5/8" - 12	26,0	77,5	16,2	74,5		50
22592-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	90,5	16,2	86,5		50
22592-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	90,5	18,8	91,0		60
22592-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	108,0	18,8	100,5		60
22592-32-32	51	2"	- 32	2.1/2" - 12	44,0	142,0	24,0	137,0		75