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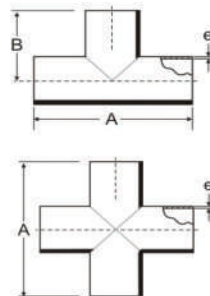
Tubos

Ø	A	e	P. máx à 20° C [Kg/cm²]
1"	25,4	1,2	95,0
1½"	38,1	1,2	50,0
2"	50,8	1,2	30,0
2"	50,8	1,5	50,0
2½"	63,5	1,5	30,0
3"	76,2	1,5	18,0
3"	76,2	2,0	36,0
4"	101,6	2,0	18,0
5"	127,0	2,0	17,0
6"	152,4	2,0	16,0



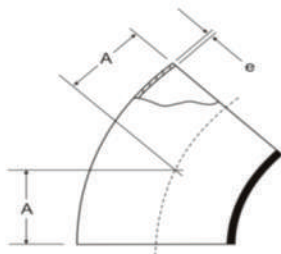
Tê Reto solda/cruzeta solda

Ø	A	B	e
1"	96,0	48,0	1,5
1½"	114,4	57,2	1,5
2"	152,4	76,2	1,5
2½"	154,0	77,0	1,5
3"	166,0	83,0	2,0
4"	197,0	98,5	2,0
5"	211,4	105,7	2,5
6"	226,0	113,0	2,0
8"	241,4	120,7	3,0



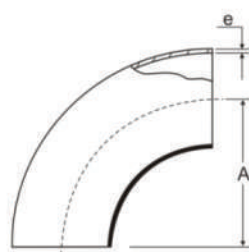
Curva 45° solda

Ø	A	e
1"	14,6	1,5
1½"	21,9	1,5
2"	29,2	1,5
2½"	36,5	1,5
3"	43,7	2,0
4"	58,3	2,0
5"	72,9	2,5
6"	87,5	2,0
8"	116,6	3,0



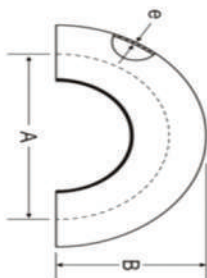
Curva 90° solda

Ø	A	e
1"	38,1	1,5
1½"	57,2	1,5
2"	76,2	1,5
2½"	95,3	1,5
3"	114,3	2,0
4"	152,4	2,0
5"	190,5	2,5
6"	228,6	2,0
8"	304,8	3,0



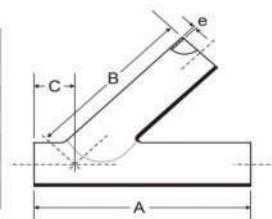
Curva 180° solda

Ø	A	B	e
1"	76,2	50,8	1,5
1½"	114,4	76,2	1,5
2"	152,4	101,6	1,5
2½"	190,5	127,0	1,5
3"	228,6	152,4	2,0
4"	304,8	203,2	2,0
5"	381,0	254,0	2,5
6"	457,2	304,8	2,5



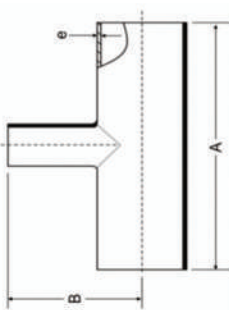
Tê 45° solda

Ø	A	B	C	e
1"	152,4	127,0	25,8	2,0
1½"	187,3	157,1	30,4	2,0
2"	222,2	180,9	41,5	2,0
2½"	254,0	215,7	38,2	2,0
3"	273,0	225,2	47,8	2,0
4"	325,4	272,8	52,0	2,0



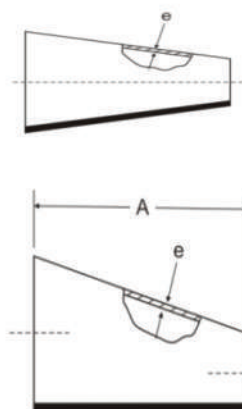
Tê Reto de Redução solda

Ø	A	B	e
1½" x 1"	114,4	57,2	1,5
2" x 1"	152,4	76,2	1,5
2" x 1½"	152,4	76,2	1,5
2½" x 1"	154,0	77,0	1,5
2½" x 1½"	154,0	77,0	1,5
2½" x 2"	154,0	77,0	1,5
3" x 1½"	166,0	83,0	2,0
3" x 2"	166,0	83,0	2,0
3" x 2½"	166,0	83,0	2,0
4" x 2"	197,0	98,5	2,0
4" x 2½"	197,0	98,5	2,0
4" x 3"	197,0	95,5	2,0
6" x 4"	226,0	113,0	2,0



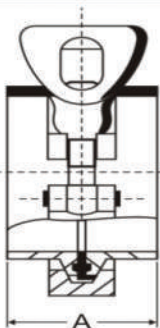
Redução Solda

Ø	A conc.	A exc.	e
1½" x 1"	44,0	39,0	2,0
2" x 1"	86,0	78,0	2,0
2" x 1½"	42,0	39,0	2,0
2½" x 1"	128,0	117,0	2,0
2½" x 1½"	84,0	78,0	2,0
2½" x 2"	42,0	39,0	2,0
3" x 1½"	126,0	117,0	2,0
3" x 2"	84,0	78,0	2,0
3" x 2½"	42,0	40,0	2,0
4" x 2"	167,0	157,0	2,0
4" x 2½"	125,0	118,0	2,0
4" x 3"	83,0	78,0	2,0
5" x 4"	83,0	78,0	2,0
6" x 4"	160,0	156,0	2,0
6" x 5"	83,0	78,0	2,0
8" x 6"	160,0	156,0	2,5



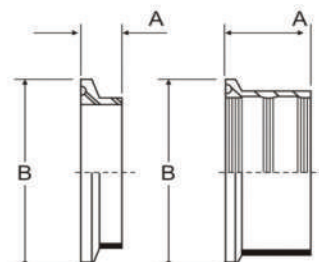
União TC

Ø	A		
	curta	longa	exp
1/2"	27,2	-	-
3/4"	27,2	-	-
1"	27,2	59,0	39,8
1 1/2"	27,2	59,0	45,8
2"	27,2	59,0	52,6
2 1/2"	27,2	59,0	59,0
3"	27,2	59,0	61,8
4"	33,6	59,0	-
6"	33,6	59,0	-
8"	33,6	59,0	-



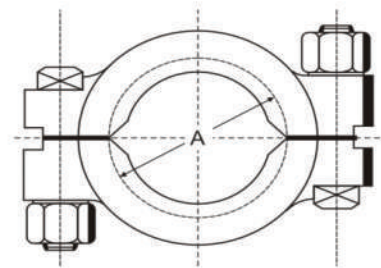
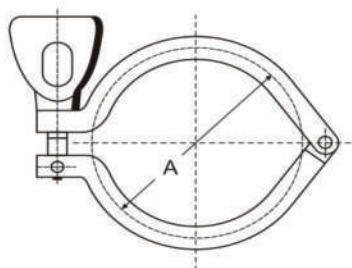
Niple solda TC / Niple expansão TC

Ø	A	A	B	exp
	curto	longo		
1/2"	12,7	-	32,0	-
3/4"	12,7	-	32,0	-
1"	12,7	21,5	50,0	-
1 1/2"	12,7	21,5	50,0	19,0
2"	12,7	21,5	64,0	22,0
2 1/2"	12,7	21,5	77,0	25,4
3"	12,7	21,5	91,0	28,6
4"	15,9	28,6	119,0	30,0
5"	15,9	28,6	144,5	-
6"	15,9	28,6	167,0	-
8"	15,9	28,6	220,6	-



Abraçadeira TC

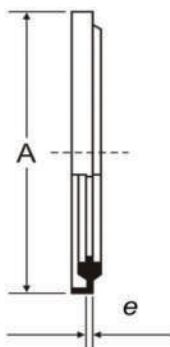
Ø	A		Pressão de serviço [Kgf/cm²]	
	normal	alta pressão	normal	alta pressão
1/2" e 3/4"	37,0	-	40,0	-
1" e 1 1/2"	54,0	52,0	34,0	70,0
2"	67,0	66,0	28,0	70,0
2 1/2"	81,0	79,0	26,0	70,0
3"	94,0	92,0	22,0	70,0
4"	122,0	120,0	12,0	70,0
6"	172,0	168,0	8,0	20,0



As pressões acima referem-se à t=20°C.
Para t=120° reduzi-las em 40%

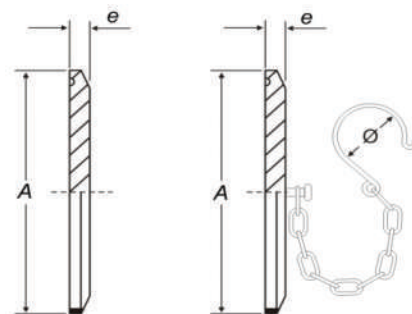
Anel de vedação TC

Ø	A	e
1/2"	34,0	1,8
3/4"	34,0	1,8
1"	52,0	1,8
1 1/2"	52,0	1,8
2"	66,0	1,8
2 1/2"	79,0	1,8
3"	93,0	1,8
4"	121,0	1,8
6"	169,0	1,8
8"	223,0	1,8



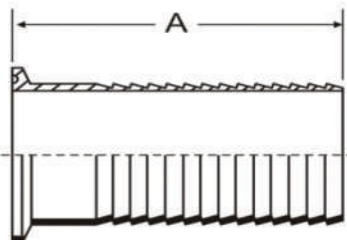
Tampão TC

Ø	A	e
1"	50,0	6,3
1 1/2"	50,0	6,3
2"	64,0	6,3
2 1/2"	77,0	6,3
3"	91,0	6,3
4"	119,0	7,9
6"	167,0	7,9



Niple adaptador TC x mangueira

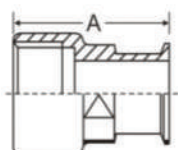
Ø	A
1"	72,7
1 1/2"	92,7
2"	92,7
2 1/2"	112,7
3"	112,7
4"	115,9
6"	135,9



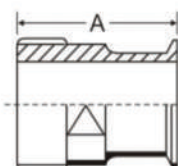
Niple adaptador TC tipo Luva / tipo Niple

Ø	A		
	tipo L	tipo N	
1"	BSP	NPT	BSP/NPT
1 1/2"	59,7	59,7	47,7
2"	64,7	61,7	52,7
2 1/2"	69,7	63,7	57,7
3"	74,7	71,7	61,7
4"	79,7	75,7	67,7
6"	90,9	80,9	75,9

Tipo L

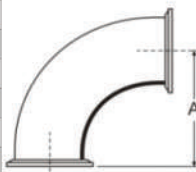


Tipo N



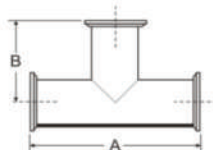
Curva 90° 2TC

Ø	A
1"	50,8
1½"	69,9
2"	88,9
2½"	108,0
3"	127,0
4"	168,3
6"	244,5



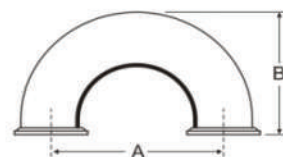
Tê reto 3TC

Ø	A	B
1"	121,4	60,7
1½"	139,8	69,9
2"	177,8	88,9
2½"	179,4	89,7
3"	191,4	95,7
4"	228,8	114,4
6"	257,8	128,9



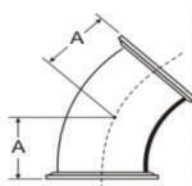
Curva 180° 2TC

Ø	A	B
1"	76,2	63,5
1½"	114,4	88,9
2"	152,4	114,3
2½"	190,5	139,7
3"	228,6	165,1
4"	304,8	219,1
6"	457,2	320,7



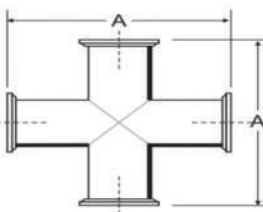
Curva 45° 2TC

Ø	A
1"	27,3
1½"	34,6
2"	41,9
2½"	49,2
3"	56,4
4"	74,2
6"	103,4



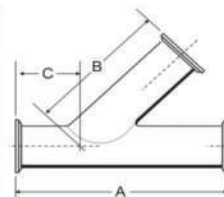
Cruzeta 4TC

Ø	A
1"	121,4
1½"	139,8
2"	177,8
2½"	179,4
3"	191,4
4"	228,8



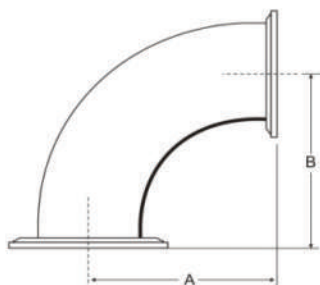
Tê 45° 3TC

Ø	A	B	C
1"	177,8	139,7	38,5
1½"	212,7	169,8	43,1
2"	247,6	193,6	54,2
2½"	279,4	228,4	50,9
3"	298,4	237,9	60,5
4"	357,2	288,7	67,9



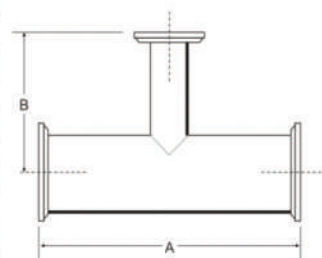
Curva de redução 90° 2TC

Ø	A	B
1½" x 1"	50,8	50,8
2" x 1"	50,8	50,8
2" x 1½"	69,9	69,9
2½" x 1"	50,8	50,8
2½" x 1½"	69,9	69,9
2½" x 2"	88,9	88,9
3" x 1½"	69,9	69,9
3" x 2"	88,9	88,9
3" x 2½"	108,0	108,0
4" x 2"	88,9	92,1
4" x 2½"	108,0	111,2
4" x 3"	127,0	130,2
6" x 4"	168,3	168,3



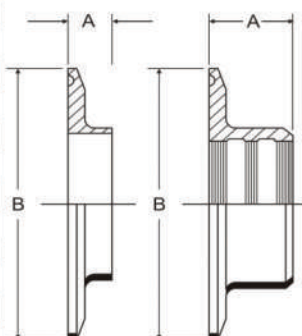
Tê redução 3TC

Ø	A	B
1½" x 1"	139,8	69,9
2" x 1"	177,8	88,9
2" x 1½"	177,8	88,9
2½" x 1"	179,4	89,7
2½" x 1½"	179,4	89,7
2½" x 2"	179,4	89,7
3" x 1½"	191,4	95,7
3" x 2"	191,4	95,7
3" x 1½"	191,4	95,7
4" x 2"	228,8	111,2
4" x 2½"	228,8	111,2
4" x 3"	228,8	112,2
6" x 4"	257,8	128,9



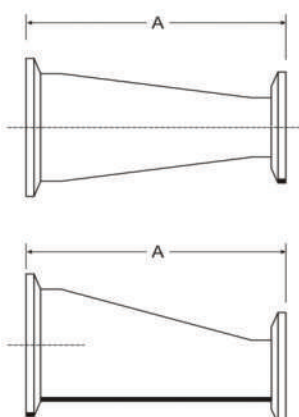
Niple de redução solda/expansão TC

Ø	A		B
	Solda	exp.	
1½" x 1"	12,7	19,0	50,0
2" x 1"	12,7	19,0	64,0
2" x 1½"	12,7	22,0	64,0
2½" x 1"	12,7	19,0	77,0
2½" x 1½"	12,7	22,0	77,0
2½" x 2"	12,7	25,4	77,0
3" x 1½"	12,7	22,0	91,0
3" x 2"	12,7	25,4	91,0
3" x 2½"	12,7	28,6	91,0
4" x 2"	12,7	25,4	119,0
4" x 2½"	12,7	28,6	119,0
4" x 3"	12,7	30,0	119,0
6" x 4"	15,9		167,0



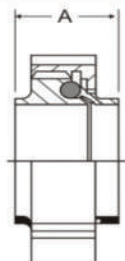
Redução 2TC (Concêntrica ou Excêntrica)

Ø	A
1½" x 1"	64,4
2" x 1"	103,4
2" x 1½"	64,4
2½" x 1"	142,4
2½" x 1½"	103,4
2½" x 2"	64,4
3" x 1½"	142,4
3" x 2"	103,4
3" x 1½"	64,4
4" x 2"	184,6
4" x 2½"	145,6
4" x 3"	106,6
6" x 4"	187,8



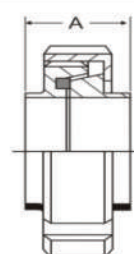
União RJT

Ø	A	
	solda	exp.
1"	35,9	41,2
1½"	35,9	49,2
2"	35,9	53,2
2½"	35,9	65,2
3"	35,9	65,2
4"	35,9	-
5"	47,8	-
6"	47,8	-



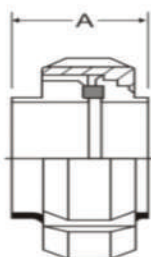
União DIN

Ø	A
½"	34,0
¾"	34,0
1"	38,0
1½"	38,0
2"	39,0
2½"	40,0
3"	48,8
4"	49,5
5"	62,0
6"	69,5



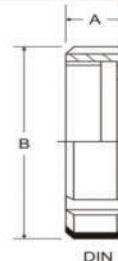
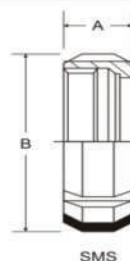
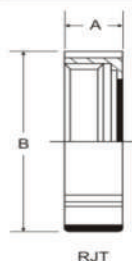
União SMS

Ø	A	
	solda	exp
1½"	34,9	38,9
2"	34,9	44,9
2½"	34,9	46,9
1"	38,9	46,9
3"	38,9	66,9
4"	53,9	-



Porca Circular

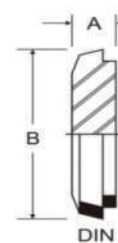
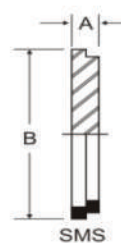
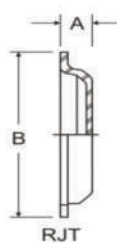
Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
½"	-	-	-	-	18,0	38,0
¾"	-	-	-	-	18,0	44,0
1"	22,0	59,0	20,0	51,0	21,0	63,0
1½"	22,0	72,0	25,0	74,0	21,0	78,0
2"	22,0	86,0	26,0	84,0	22,0	92,0
2½"	22,0	98,0	30,0	100,0	25,0	112,0
3"	22,0	111,0	32,0	114,0	29,0	127,0
4"	22,0	136,0	45,0	154,0	31,0	148,0
5"	26,0	187,0	-	-	35,0	178,0
6"	26,0	225,0	-	-	40,0	210,0



Fornecemos também Porca Tampão e Porca Tampão com corrente.

Tampão

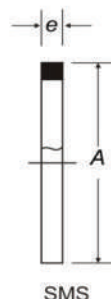
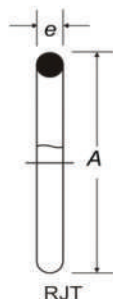
Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	10,0	42,0	7,5	35,5	10,0	44,0
1½"	10,0	54,0	8,0	55,0	10,0	56,0
2"	10,0	67,0	9,0	65,0	11,0	68,0
2½"	10,0	79,7	9,0	80,0	12,0	86,0
3"	10,0	92,6	11,0	93,0	12,0	100,0
4"	10,0	117,3	13,0	127,0	15,0	121,0
5"	10,0	143,0	-	-	17,0	156,0
6"	10,0	168,0	-	-	19,0	176,0



Fornecemos também tampão com corrente.

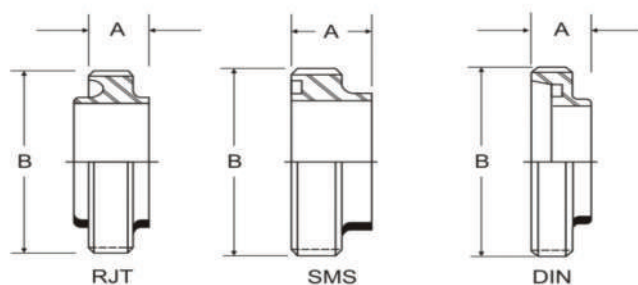
Anéis de Vedação

Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	6,6	33,2	5,5	32,0	5,0	40,0
1½"	6,6	45,9	5,5	48,0	5,0	52,0
2"	6,6	58,6	5,5	61,0	5,0	64,0
2½"	6,6	71,3	5,5	73,5	5,0	81,0
3"	6,6	84,0	5,5	86,0	5,0	95,0
4"	6,6	109,7	5,5	103,5	6,0	114,0
5"	6,6	142,0	-	-	7,0	142,0
6"	6,6	158,0	-	-	7,0	167,0



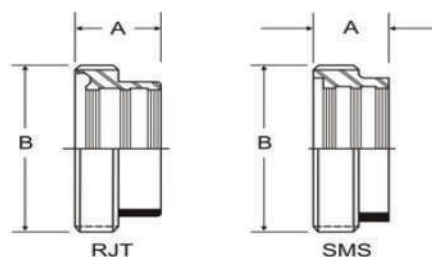
Macho Solda

Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1/2"	-	-	-	-	21,0	28,0
3/4"	-	-	-	-	21,0	34,0
1"	26,5	49,4	16,0	39,8	24,0	52,0
1 1/2"	26,5	58,1	20,0	59,8	24,0	65,0
2"	26,5	72,4	20,0	69,8	24,0	78,0
2 1/2"	26,5	85,1	24,0	84,8	27,0	95,0
3"	26,5	97,8	24,0	97,8	31,0	110,0
4"	26,5	123,2	35,0	131,2	31,0	130,0
5"	26,5	150,0	-	-	46,0	170,0
6"	26,5	175,0	-	-	50,0	190,0



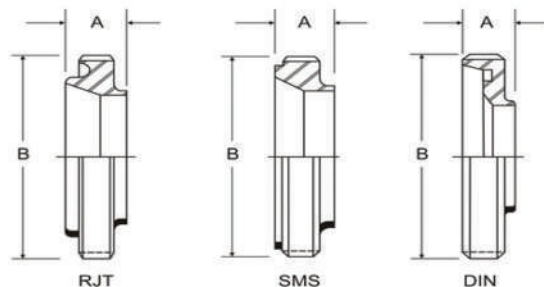
Macho Expansão

Ø	RJT		SMS	
	A	B	A	B
1"	20,0	45,4	20,0	39,8
1 1/2"	24,0	58,1	23,0	59,8
2"	28,0	72,4	25,0	69,8
2 1/2"	32,0	85,1	30,0	84,8
3"	32,0	97,8	35,0	97,8



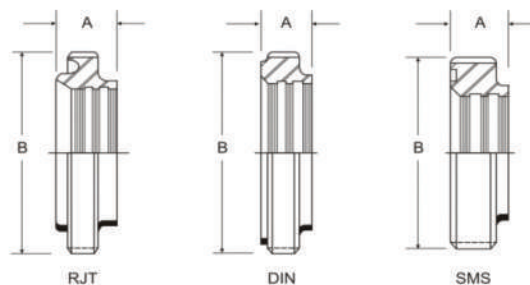
Macho de Redução Solda

Ø		RJT		SMS		DIN	
		A	B	A	B	A	B
1 1/2"	x 1"	26,5	58,1	20,0	60,1	24,0	65,0
2"	x 1"	26,5	72,4	20,0	70,1	24,0	78,0
2"	x 1 1/2"	26,5	72,4	20,0	70,1	24,0	78,0
2 1/2"	x 1"	26,5	85,1	24,0	85,1	27,0	95,0
2 1/2"	x 1 1/2"	26,5	85,1	24,0	85,1	27,0	95,0
2 1/2"	x 2"	26,5	85,1	24,0	85,1	27,0	95,0
3"	x 1 1/2"	26,5	97,8	24,0	98,1	31,0	110,0
3"	x 2"	26,5	97,8	24,0	98,1	31,0	110,0
3"	x 2 1/2"	26,5	97,8	24,0	98,1	31,0	110,0
4"	x 2"	26,5	123,2	24,0	131,3	31,0	130,0
4"	x 2 1/2"	26,5	123,2	24,0	131,3	31,0	130,0
4"	x 3"	26,5	123,2	24,0	131,3	31,0	130,0
6"	x 4"	26,5	175,0	-	-	45,0	190,0



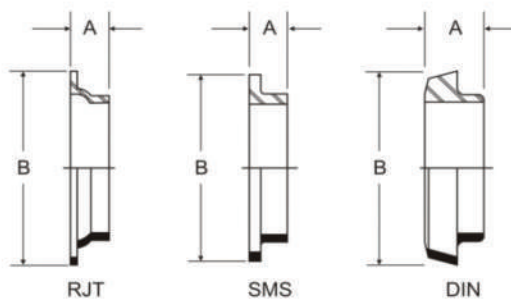
Macho de Redução Expansão

Ø		RJT		SMS		DIN	
		A	B	A	B	A	B
1 1/2"	x 1"	25,0	58,1	25,0	59,8	22,5	50,6
2"	x 1"	26,0	72,4	26,5	69,8	26,0	64,1
2"	x 1 1/2"	28,5	72,4	28,0	69,8	22,5	64,1
2 1/2"	x 1"	25,5	85,1	30,0	84,8	23,5	77,6
2 1/2"	x 1 1/2"	30,0	85,1	28,0	84,8	26,0	77,6
2 1/2"	x 2"	33,0	85,1	30,0	84,8	22,5	77,6
3"	x 1 1/2"	30,0	97,8	29,0	97,8	23,5	91,1
3"	x 2"	34,0	97,8	31,0	97,8	26,0	91,1
3"	x 2 1/2"	36,0	97,8	35,0	97,8	22,5	91,1



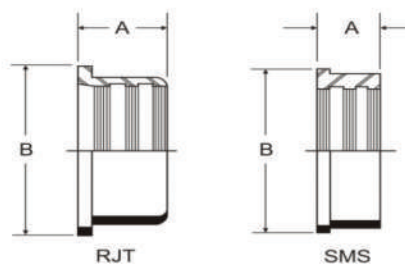
Niple Solda

Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
½"	-	-	-	-	17,0	22,5
¾"	-	-	-	-	17,0	28,5
1"	13,0	42,0	13,0	35,3	20,0	44,0
1½"	13,0	53,9	13,0	55,0	20,0	56,0
2"	13,0	67,6	13,0	65,0	21,0	68,5
2½"	13,0	80,3	13,0	80,0	24,0	86,0
3"	13,0	93,0	13,0	93,0	24,0	121,0
4"	15,0	117,7	17,0	127,0	28,0	121,0
5"	20,0	145,0	-	-	28,0	150,0
6"	20,0	168,0	-	-	37,0	176,0



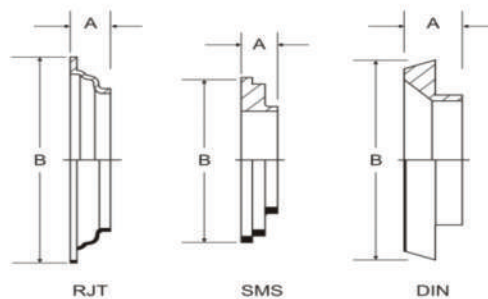
Niple Expansão

Ø	RJT		SMS	
	A	B	A	B
1"	20,0	41,3	17,0	35,5
1½"	24,0	54,0	20,0	55,0
2"	28,0	66,7	20,0	65,0
2½"	32,0	79,3	25,0	80,0
3"	32,0	92,0	30,0	93,0



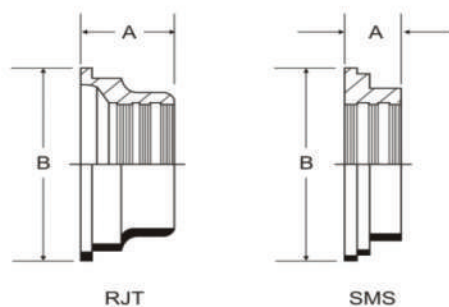
Nipples Redução Solda

Ø		RJT		SMS		DIN	
		A	B	A	B	A	B
1½"	x 1"	13,0	53,9	13,0	55,0	20,0	56,0
2"	x 1"	13,0	67,5	13,0	65,0	21,0	68,5
2"	x 1½"	13,0	67,5	13,0	65,0	21,0	68,5
2½"	x 1"	13,0	80,3	13,0	80,0	24,0	86,0
2½"	x 1½"	13,0	80,3	13,0	80,0	24,0	86,0
2½"	x 2"	13,0	80,3	13,0	80,0	24,0	86,0
3"	x 1½"	13,0	93,0	13,0	93,0	24,0	100,0
3"	x 2"	13,0	93,0	13,0	93,0	24,0	100,0
3"	x 2½"	13,0	93,0	13,0	93,0	24,0	100,0
4"	x 2"	15,0	117,7	17,0	127,0	28,0	121,0
4"	x 2½"	15,0	117,7	17,0	127,0	28,0	121,0
4"	x 3"	15,0	117,7	17,0	127,0	28,0	121,0
6"	x 4"	20,0	168,0	-	-	-	-

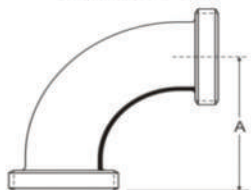


Nipples de Redução Expansão

Ø		RJT		SMS	
		A	B	A	B
1½"	x 1"	24,0	54,0	17,0	55,0
2"	x 1"	30,0	66,7	17,0	65,0
2"	x 1½"	30,0	66,7	20,0	65,0
2½"	x 1"	32,0	79,3	17,0	80,0
2½"	x 1½"	32,0	79,3	20,0	80,0
2½"	x 2"	32,0	79,3	20,0	80,0
3"	x 1½"	35,0	92,0	20,0	93,0
3"	x 2"	32,0	92,0	20,0	93,0
3"	x 2½"	32,0	92,0	15,0	93,0

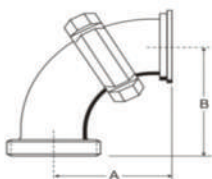


Curva 90° 2M



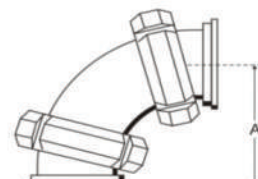
Ø	RJT	SMS	DIN
	A	A	A
1"	64,6	54,1	62,1
1½"	83,6	77,2	81,2
2"	103,0	96,2	100,2
2½"	122,3	119,2	122,3
3"	141,0	138,3	145,3
4"	179,0	187,4	183,4
6"	255,0	-	278,6

Curva 90° M-NP



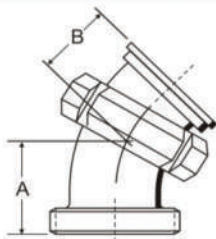
Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	51,1	64,6	51,1	54,1	58,1	62,1
1½"	70,2	83,7	70,2	77,1	77,2	81,2
2"	89,2	102,7	89,2	96,2	97,2	100,2
2½"	108,3	122,0	108,3	119,3	119,3	122,3
3"	127,3	140,8	127,3	138,3	138,3	145,3
4"	167,4	178,9	169,4	187,4	180,4	183,4
6"	248,6	255,1	-	-	265,6	278,6

Curva 90° 2NP



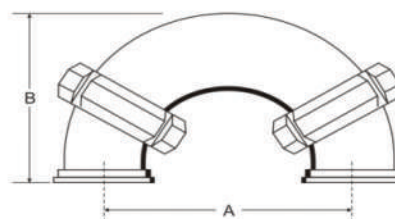
Ø	RJT	SMS	DIN
	A	A	A
1"	51,1	51,1	58,1
1½"	70,2	70,2	77,2
2"	89,2	89,2	97,2
2½"	108,2	108,2	119,3
3"	127,3	127,3	138,3
4"	167,4	167,4	180,4
6"	248,6	-	265,6

Curva 45° M-NP



Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	41,1	27,6	30,6	27,6	38,6	34,6
1½"	48,4	34,9	41,9	34,9	45,9	41,9
2"	55,7	42,2	49,2	42,2	53,2	50,2
2½"	63,0	49,5	60,5	49,5	63,5	60,5
3"	70,2	56,7	67,7	56,7	74,7	67,7
4"	84,8	73,3	93,3	75,3	89,3	86,3
6"	114,0	107,5	-	-	137,0	124,5

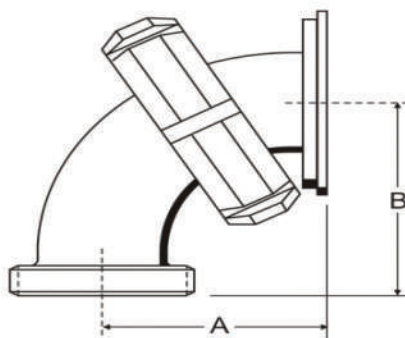
Curva 180° 2NP



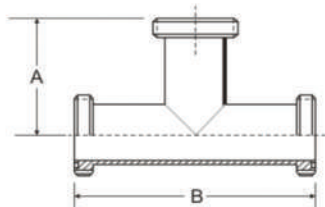
Ø	A	RJT	SMS	DIN
		B	B	B
1"	76,2	63,8	63,8	70,8
1½"	114,3	89,2	89,2	96,2
2"	152,4	114,6	152,4	122,6
2½"	190,5	140,0	140,0	151,0
3"	228,6	165,4	165,4	176,4
4"	304,8	218,2	220,2	231,2
6"	457,2	324,8	-	341,8

Curva de Redução 90° M-NP

Ø	RJT		SMS		DIN	
	A	B	A	B	B	
1½" x 1"	51,1	64,6	51,1	54,1	58,1	62,1
2" x 1"	51,1	64,6	51,1	54,1	59,1	62,1
2" x 1½"	70,2	83,6	70,2	77,2	78,2	81,2
2½" x 1"	51,1	64,6	51,1	54,1	62,1	62,1
2½" x 1½"	70,2	83,6	70,2	77,2	82,2	81,2
2½" x 2"	89,2	103,0	89,2	96,2	100,2	100,2
3" x 1½"	70,2	83,6	70,2	77,2	81,2	81,2
3" x 2"	89,2	103,0	89,2	96,2	100,2	100,2
3" x 2½"	108,3	122,3	108,3	119,2	119,3	122,3
4" x 2"	91,2	103,0	93,2	96,2	104,2	100,2
4" x 2½"	110,3	122,3	112,3	119,2	123,3	122,3
4" x 3"	129,3	141,0	131,3	138,3	142,3	145,3

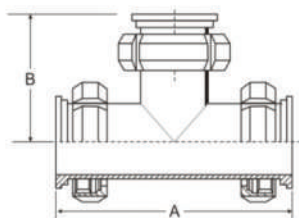


Tê Reto 3M



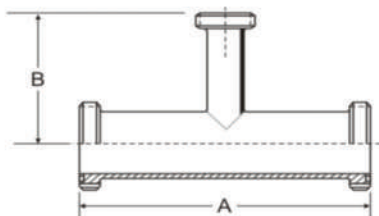
Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	149,0	74,5	128,0	64,0	144,0	72,0
1½"	167,4	83,7	154,4	77,2	162,4	81,2
2"	205,4	102,7	192,4	96,2	200,4	100,2
2½"	207,0	103,5	202,0	101,0	208,0	104,0
3"	219,0	109,5	214,0	107,0	228,0	114,0
4"	250,0	125,0	267,0	133,5	259,0	129,5
6"	279,0	139,5	-	-	326,0	163,0

Tê Reto 3 NP



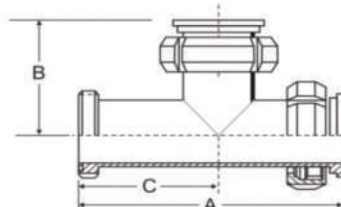
Ø	RJT		SMS		DIN	
	A	B	A	B	A	B
1"	122,0	61,0	122,0	61,0	136,0	68,0
1.1½"	140,4	70,2	140,4	70,2	154,4	77,2
2"	178,4	89,2	178,4	89,2	194,4	97,2
2.1½"	180,0	90,0	180,0	90,0	202,0	101,0
3"	192,0	96,0	192,0	96,0	214,0	107,0
4"	227,0	113,5	231,0	115,5	253,0	126,5
6"	266,0	133,0	-	-	300,0	150,0

Tê Reto de Redução 3M



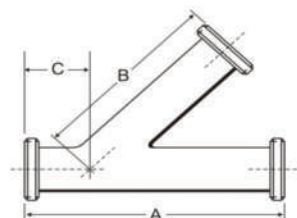
Ø		RJT		SMS		DIN	
		A	B	A	B	A	B
1½"	1"	167,4	83,7	154,4	77,2	162,4	81,2
2"	1"	205,4	102,7	192,4	96,2	200,4	100,2
2"	1½"	205,4	102,7	192,4	96,2	200,4	100,2
2½"	1"	205,4	102,7	202,0	101,0	208,0	104,0
2½"	1½"	207,0	103,5	202,0	101,0	208,0	104,0
2½"	2"	207,0	103,5	202,0	101,0	208,0	104,0
3"	1½"	219,0	109,5	214,0	107,0	228,0	114,0
3"	2"	219,0	109,5	214,0	107,0	228,0	114,0
3"	2½"	210,0	109,5	214,0	107,0	228,0	114,0
4"	2"	250,0	125,0	267,0	133,5	259,0	129,5
4"	2½"	250,0	125,0	267,0	133,5	259,0	129,5
4"	3"	250,0	125,0	267,0	133,5	259,0	129,5
6"	4"	279,0	139,5	-	-	-	-

Tê Reto M-NP-NP



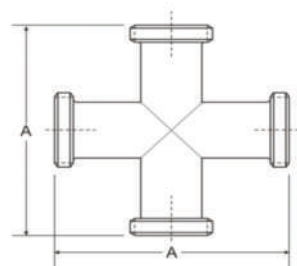
Ø	RJT			SMS			DIN		
	A	B	C	A	B	C	A	B	C
1"	135,5	61,0	74,5	125,0	61,0	64,0	140,0	68,0	72,0
1½"	153,9	70,2	83,7	147,4	70,2	77,2	158,4	77,2	81,2
2"	191,9	89,2	102,7	185,4	89,2	96,2	197,4	97,2	100,2
2½"	193,5	90,0	103,5	191,0	90,0	101,0	205,0	101,0	104,0
3"	205,5	96,0	109,5	203,0	96,0	107,0	221,0	107,0	114,0
4"	238,5	113,5	125,0	249,0	115,0	133,5	256,0	126,5	129,5
6"	272,5	133,0	139,5	-	-	-	313,0	150,0	163,0

Tê 45° 3M



Ø	RJT			SMS			DIN		
	A	B	C	A	B	C	A	B	C
1"	205,5	153,5	52,3	184,4	143,0	41,8	200,4	151,0	49,8
1½"	240,3	183,6	56,9	227,3	177,1	50,4	235,3	181,1	54,4
2"	275,2	207,4	68,0	262,2	200,9	61,5	270,2	204,9	65,5
2½"	307,0	242,2	64,7	302,0	239,7	62,2	308,0	242,7	65,2
3"	326,0	251,7	74,3	321,0	249,2	71,8	335,0	256,2	78,8
4"	378,4	299,3	78,5	395,4	307,8	87,0	387,4	303,8	83,0

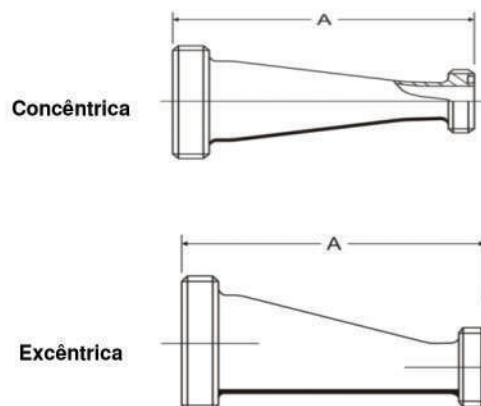
Cruzeta 4M



Ø		RJT	SMS	DIN
		A	A	A
1"	1"	149,0	128,0	144,0
1½"	1"	167,4	154,4	162,4
2"	1"	205,4	192,4	200,4
2½"	1"	207,0	202,0	208,0
3"	1½"	219,0	214,0	208,0
4"	2"	250,0	267,0	259,0
6"	4"	279,0	-	326,0

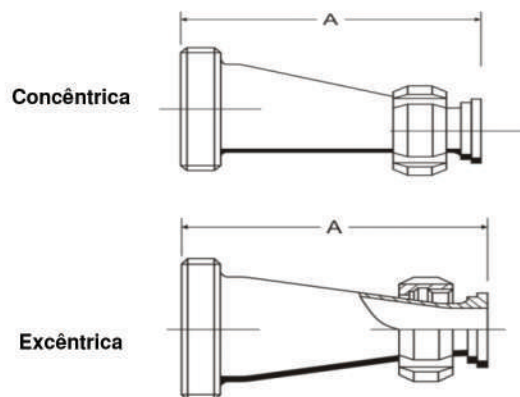
Redução 2M

Ø	RJT		SMS		DIN	
	conc.	exc.	conc.	exc.	conc.	exc.
1½" x 1"	97,0	92,0	80,0	75,0	92,0	87,0
2"x1" x 1"	139,0	131,0	122,0	114,0	134,0	126,0
2" x 1½"	95,0	92,0	82,0	79,0	90,0	87,0
2½" x 1"	181,0	170,0	168,0	157,0	182,0	171,0
2.1/2" x 1½"	137,0	131,0	128,0	122,0	135,0	129,0
2.½" x 2"	95,0	92,0	86,0	83,0	93,0	90,0
3" x 1½"	179,0	170,0	170,0	161,0	181,0	172,0
3" x 2"	137,0	131,0	128,0	122,0	139,0	133,0
3" x 2½"	95,0	93,0	90,0	88,0	100,0	98,0
4" x 2"	220,0	210,0	222,0	212,0	222,0	212,0
4" x 2½"	178,0	171,0	184,0	177,0	183,0	176,0
4" x 3"	136,0	131,0	142,0	137,0	145,0	140,0



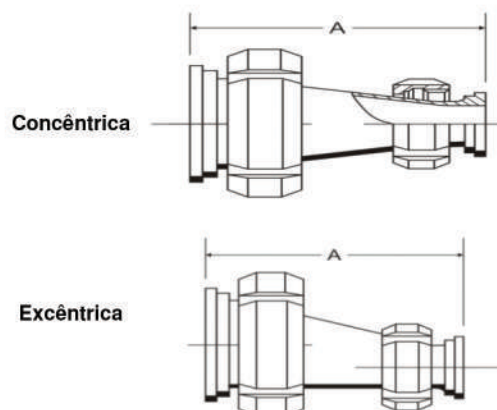
Redução M NP

Ø	RJT		SMS		DIN	
	conc.	exc.	conc.	exc.	conc.	exc.
1½" x 1"	83,5	78,5	77,0	72,0	88,0	83,0
2" x 1"	125,5	117,5	115,0	107,0	130,0	122,0
2" x 1½"	81,5	78,5	75,0	72,0	87,0	84,0
2½" x 1"	167,5	156,5	157,0	146,0	179,0	168,0
2½" x 1½"	123,5	117,5	117,0	111,0	132,0	126,0
2½" x 2"	81,5	78,5	75,0	72,0	90,0	87,0
3" x 1½"	165,5	156,5	159,0	150,0	177,0	168,0
3" x 2"	123,5	117,5	121,0	115,0	136,0	130,0
3" x 2½"	81,5	79,5	79,0	77,0	97,0	95,0
4" x 2"	208,5	198,5	215,0	205,0	219,0	209,0
4" x 2½"	166,5	159,5	173,0	166,0	180,0	173,0
4" x 3"	124,5	119,5	131,0	126,0	138,0	133,0

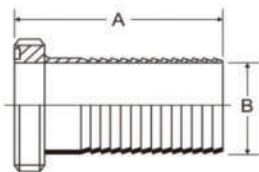


Redução 2 NP

Ø	RJT		SMS		DIN	
	conc.	exc.	conc.	exc.	conc.	exc.
1½" x 1"	70,0	65,0	70,0	65,0	84,0	79,0
2" x 1"	112,0	104,0	112,0	104,0	126,0	118,0
2" x 1½"	68,0	65,0	68,0	65,0	83,0	80,0
2½" x 1"	154,0	143,0	154,0	143,0	172,0	161,0
2½" x 1½"	110,0	104,0	110,0	104,0	128,0	122,0
2½" x 2"	68,0	63,0	68,0	63,0	87,0	84,0
3" x 1½"	152,0	143,0	152,0	143,0	170,0	161,0
3" x 2"	110,0	104,0	110,0	104,0	129,0	123,0
3" x 2½"	68,0	66,0	68,0	66,0	90,0	88,0
4" x 2"	195,0	185,0	197,0	187,0	216,0	206,0
4" x 2½"	153,0	146,0	155,0	148,0	177,0	170,0
4" x 3"	111,0	106,0	113,0	108,0	135,0	130,0

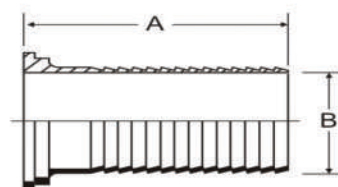


Macho adaptador p/ mangueira



Ø	A			B
	RJT	SMS	DIN	
1"	86,5	76,0	84,0	25,5
1½"	106,5	100,0	104,0	38,1
2"	106,5	100,0	104,0	50,8
2½"	126,5	124,0	127,0	63,5
3"	126,5	124,0	131,0	76,2
4"	126,5	135,0	131,0	101,6
6"	126,5	-	170,0	152,4

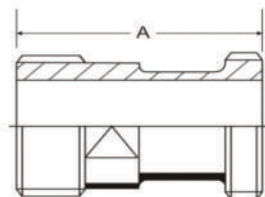
Niple Adaptador p/ mangueira



Ø	A			B
	RJT	SMS	DIN	
1"	73,0	73,0	80,0	25,4
1½"	93,0	93,0	100,0	38,1
2"	93,0	93,0	101,0	50,8
2½"	113,0	113,0	124,0	63,5
3"	113,0	113,0	124,0	76,2
4"	115,0	117,0	128,0	101,6
6"	140,0	-	152,0	125,4

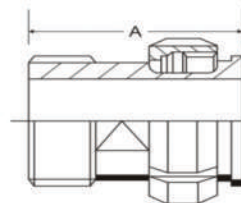
Macho Adaptador Tipo N

Ø	RJT		SMS		DIN	
	BSP	NPT	BSP	NPT	BSP	NPT
1"	73,5	73,5	63,0	63,0	71,0	71,0
1½"	78,5	75,5	72,0	69,0	76,0	73,0
2"	83,5	77,5	77,0	71,0	81,0	75,0
2½"	88,5	85,5	86,0	83,0	89,0	86,0
3"	93,5	89,5	91,0	87,0	98,0	94,0
4"	101,5	91,5	110,0	100,0	106,0	96,0



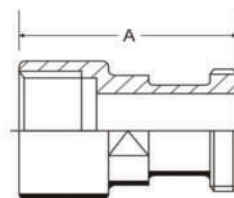
Niple Porca Adaptador Tipo N

Ø	RJT		SMS		DIN	
	BSP	NPT	BSP	NPT	BSP	NPT
1"	60,0	60,0	60,0	60,0	67,0	67,0
1½"	65,0	62,0	65,0	62,0	72,0	69,0
2"	70,0	64,0	70,0	64,0	78,0	72,0
2½"	75,0	72,0	75,0	72,0	86,0	83,0
3"	80,0	76,0	80,0	76,0	95,0	91,0
4"	90,0	80,0	92,0	82,0	107,0	97,0



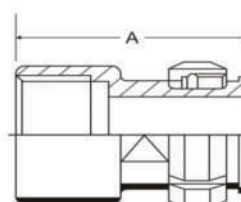
Macho Adaptador Tipo L

Ø	RJT		SMS		DIN	
	BSP	NPT	BSP	NPT	BSP	NPT
1"	61,5	61,5	51,0	51,0	59,0	59,0
1½"	66,5	66,5	60,0	60,0	64,0	64,0
2"	71,5	71,5	65,0	65,0	69,0	69,0
2½"	76,5	76,5	74,0	74,0	77,0	77,0
3"	81,5	81,5	79,0	79,0	86,0	86,0
4"	86,5	86,5	95,0	95,0	91,0	91,0



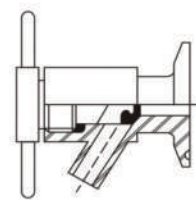
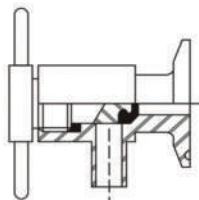
Niple Porca Adaptador Tipo L

Ø	RJT		SMS		DIN	
	BSP	NPT	BSP	NPT	BSP	NPT
1"	48,0	48,0	48,0	48,0	55,0	55,0
1½"	53,0	53,0	53,0	53,0	60,0	60,0
2"	58,0	58,0	58,0	58,0	66,0	66,0
2½"	63,0	63,0	63,0	63,0	74,0	74,0
3"	68,0	68,0	68,0	68,0	79,0	79,0
4"	75,0	75,0	77,0	77,0	88,0	88,0



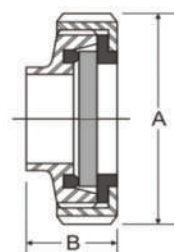
Torneira de Amostra

Terminais	
TC	1/2" e 3/4"
	1" e 1 1/2"
BSP	1/2"
	3/4"
NPT	1/2"
	3/4"



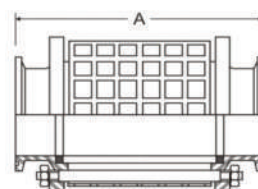
Visor de Linha Tipo Macho

Ø	A	B	Pressão Máx. (Kgf/cm ²)
1"	63,0	31,0	15,0
1 1/2"	78,0	31,0	11,0
2"	92,0	31,0	10,0
2 1/2"	112,0	35,0	10,0
3"	127,0	40,0	8,0
4"	148,0	41,0	6,0
5"	178,0	57,0	5,0
6"	210,0	62,0	4,0



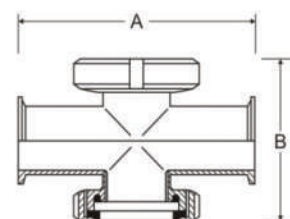
Visor de linha Tubular

Ø	solda	2TC	A					
			RJT		SMS		DIN	
			2M	M-NP	2M	M-NP	2M	M-NP
1"	145,0	170,4	198,0	184,5	177,0	174,0	193,0	189,0
1 1/2"	145,0	170,4	198,0	184,5	185,0	178,0	193,0	189,0
2"	145,0	170,4	198,0	184,5	185,0	178,0	193,0	190,0
2 1/2"	149,0	174,4	202,0	188,5	197,0	186,0	203,0	200,0
3"	153,0	178,4	206,0	192,5	201,0	190,0	215,0	208,0
4"	171,0	202,8	224,0	217,5	241,0	223,0	233,0	230,0



Visor de Linha tipo cruzeta

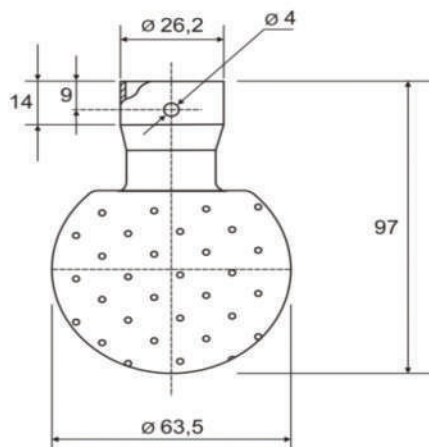
Ø	A					B
	solda	TC	SMS	RJT	DIN	
1"	96,0	121,4	149,0	128,0	144,0	93,4
1 1/2"	114,4	140,0	167,4	154,4	163,0	105,0
2"	152,4	177,8	205,4	192,4	202,0	119,0
2 1/2"	154,0	179,4	207,0	202,0	208,0	139,5
3"	166,0	191,4	219,0	214,0	228,0	162,2
4"	197,0	228,8	250,0	267,0	258,5	189,6
5"	226,0	257,8	-	-	-	247,0
6"	226,0	257,8	-	-	-	282,4



Os visores são fabricados em borossilicato temperado que possui alta resistência a ataques químicos, suporta temperaturas de até 320° C e tolera choques térmicos de até 265° C.

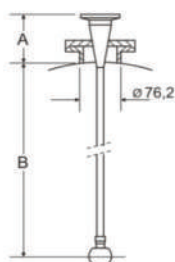
Aspersores "Spray-ball"

SPRAY BALL			
Esferas	Entrada	Furação	Furo
1"	1/2"	360°	1/16"
1"	1/2"	360°	1/16"
1"	1/2"	360°	1/16"
1.1/2"	3/4"	360°	1/16" e 3/32"
1.1/2"	3/4"	360°	1/16" e 3/32"
1.1/2"	3/4"	360°	1/16" e 3/32"
2.1/2"	1"	180° a 360°	1/16" e 3/32"
2.1/2"	1"	180° a 360°	1/16" e 3/32"
2.1/2"	1"	180° a 360°	1/16" e 3/32"
2.1/2"	1.1/2"	180° a 360°	1/16" e 3/32"
2.1/2"	1.1/2"	180° a 360°	1/16" e 3/32"
2.1/2"	1.1/2"	180° a 360°	1/16" e 3/32"
91MM	2"	180° a 360°	3/32"
91MM	2"	180° a 360°	3/32"
91MM	2"	180° a 360°	3/32"

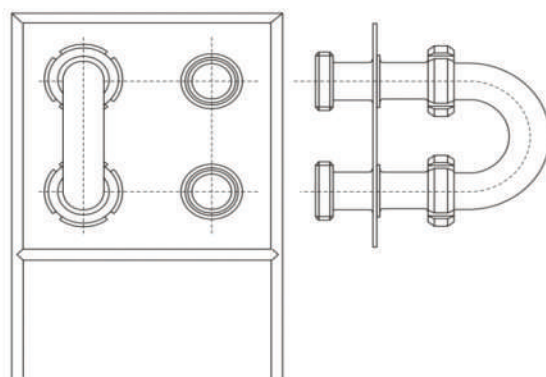


Adaptador para Aspersor

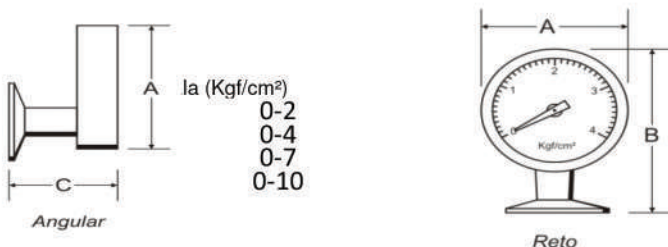
Ø	A				B
	TC	M RJT	M SMS	M DIN	
1"	92,2	106,0	95,5	103,5	800,0
1 1/2"	92,2	106,0	99,5	103,5	800,0
2"	128,2	142,0	135,3	139,3	800,0
2 1/2"	164,7	178,5	176,0	179,0	800,0



Painel de Distribuição de Fluxo



Manômetro

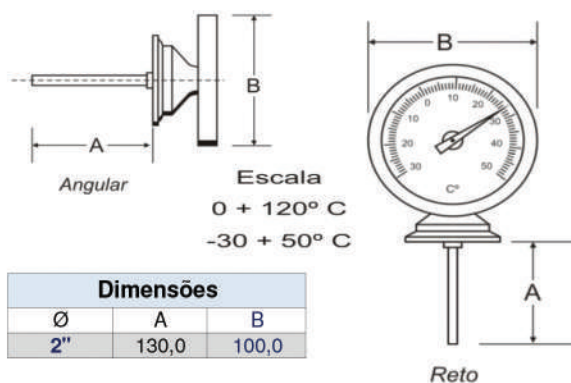


Dimensões			
Ø	A	B	C
2"	100,0	145,0	86,0

Diafragma Sanitário

Enchimento em glicerina para trabalho em tubulação sob efeito de vibrações

Termômetro

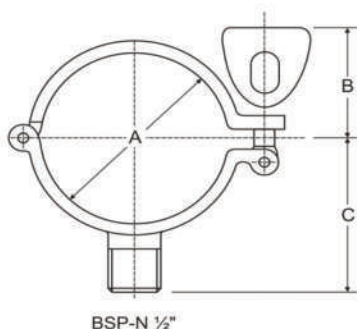


Dimensões		
Ø	A	B
2"	130,0	100,0

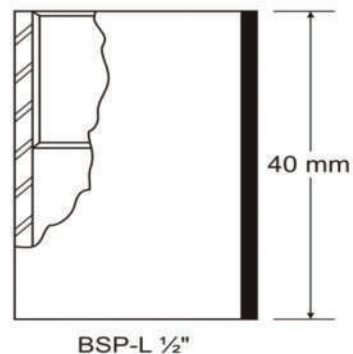
Com selo bimetalico sanitário.

Abraçadeira Suporte para Tubo

Ø A	B	C
1"	58,7	43,7
1½"	65,0	50,0
2"	71,4	62,7
2½"	84,1	56,4
3"	77,7	69,1
4"	96,8	81,8
5"	109,5	94,5
6"	122,2	107,2

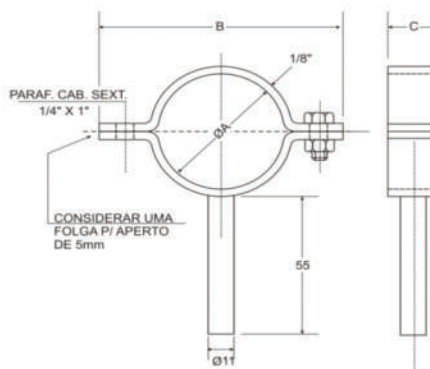


Luva para Abraçadeira



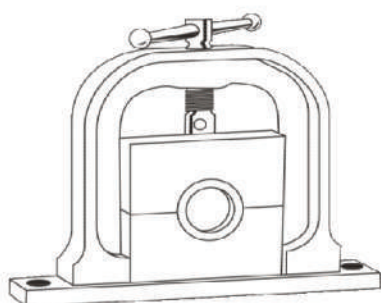
Abraçadeira Suporte para Tubo Haste Fixa

Ø	A	B	C
1/2"	12,7	59,0	3/4"
3/4"	19,5	65,0	3/4"
1"	25,5	80,0	3/4"
1½"	35,5	94,0	3/4"
2"	51,5	113,0	3/4"
2½"	64,0	127,0	3/4"
3"	76,5	144,0	3/4"
4"	102,0	168,0	3/4"



Morsa e Bloco de Expansão

Bitola
1"
1½"
2"
2½"
3"



Chave para Porca

Bitola
1"
1½"
2"
2½"
3"
4"
5"
6"



Expansor

Bitola	torque p/exp
	Kgf.m
1"	2,0
1½"	4,0
2"	8,0
2½"	14,0
3"	17,0



Guia para Corte de Tubo

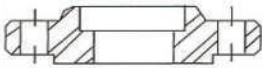
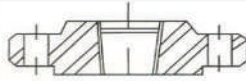
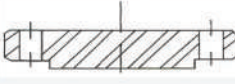
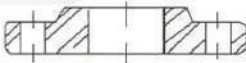
Bitola
1"
1½"
2"
2½"
3"
4"



ÍNDICE / FLANGES

• Tipo de Flanges	1
• Ansi B-16.5 Flanges Forjadas 150 LBS	2
• Ansi B-16.5 Flanges Forjadas 300 LBS	3

As flanges são normalmente utilizadas como elemento de ligação entre tubulações. Facilitam a montagem e desmontagem quando da limpeza, inspeção ou modificação a serem realizadas. Normalmente as Flanges são fixadas por parafusos.

Tipo de Flanges	
Pescoço Recebe solda circunferencial no pescoço, o que facilita o exame da solda por raio X. São resistentes à tensões e reduzem as turbulências e erosões dentro das tubulações. São recomendadas para trabalhos em qualquer situação de temperatura e pressão. 	Encaixe Dotada de um encaixe que recebe a tubulação a ser soldada, utilizando somente a solda externa. Facilita a condução de fluidos. Recomendadas para trabalhar em qualquer situação de pressão e temperatura, desde que não sujeitas a severos gradientes térmicos. Aplicáveis em diâmetros menores. 
Sobreposto Sobre põe ao tubo e recebe solda interna e externa. De fácil aplicação e recomendadas para pressão e esforço moderados. Tem uma vantagem econômica sobre a flange de perçoço. 	Roscadas Provida de rosca interna e usada para conectar outros componentes roscados em baixa pressão. Recomendados para temperaturas e tensões moderadas em qualquer pressão. Também são aplicáveis em diâmetros menores. 
Cego Utilizadas para interromper a passagem de fluidos em tubulações, válvulas e bombas. Usadas também para facilitar a inspeção da linha. Recomendadas para trabalhos em qualquer situação de pressão e temperatura, desde que não sujeitos a golpes de ariete. 	Solto Apropriadas para pestanas. Não são fixadas as tubulações por soldas, somente fixada a outra flange por parafusos, facilitando por estar solta na linha. Recomendadas para baixas pressões, representando baixo custo, pois são utilizadas em linhas de aço inox trabalhando em conjunto as pestanas. 

ESPECIFICAÇÕES

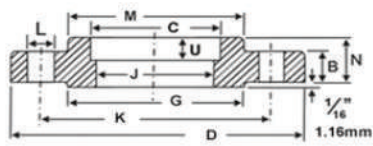
Normalmente as flanges já são especificadas com a indicação do material que serão fabricadas e devem ser complementadas com as informações sobre o diâmetro, espessura do tubo para alguns tipos, classe de pressão, tipos de faces e acabamento das faces.

A tabela abaixo indica as normas dimensionais com o enquadramento da bitola e as classes de pressão previstas.

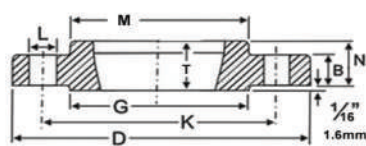
Os tipos de face tipicamente são: Face lisa, Face c/ ressalto, Face para junta anel e macho e fêmea. O acabamento da face pode ser pela AARH e normalmente chamado de liso, ranhurado concêntrico e ranhurado espiral.

Podemos fornecer flanges conforme dimensões DIN sob consulta.

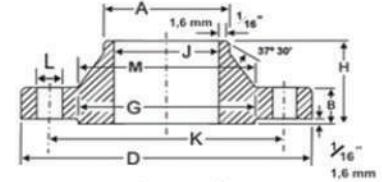
Encaixe Solda (Socket Welding)



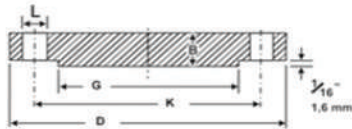
Roscada (Threaded)



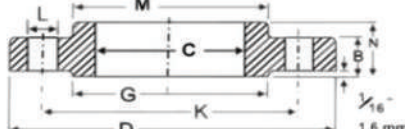
Pescoço (Welding Neck)



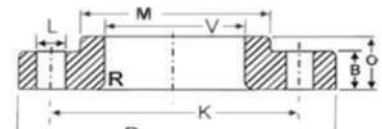
Cego (Blind)



Sobreposto (Slip-On)



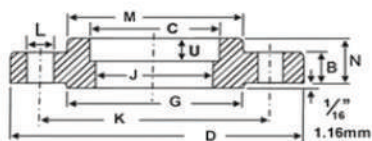
Solto (Lap Joint)



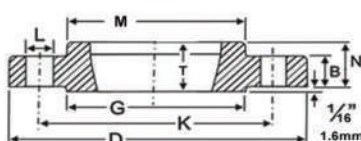
ANSI B-16.5 FLANGES FORJADAS 150 LBS

Diâmetro Nominal	Medidas Comuns					Diâmetro Externo do Chanfro	Altura Total Flange			Diâmetro Interno			Raio da Ranhura	Profundidade da Rosca	Profundidade do Encaixe	Furos		
	Diâmetro Externo	Diâmetro Externo do Ressalto	Diâmetro Externo do Pescoço	Espessura da Flange	Centro entre Furos		Sobreposto Roscada Encaixe	Pescoço	Solto	Sobreposto Encaixe	Pescoço Encaixe	Solto				Número de Furos	Diâmetro dos Furos	Diâmetro dos Parafusos
	D	G	M	B	K		A	N	H	O	C	J				V	R	T
½	88,9	34,9	30,2	11,2	60,3	21,3	15,9	47,6	15,9	22,2	15,8	22,9	3,2	15,9	9,5	4	15,9	12,7
¾	98,4	42,9	38,1	12,7	69,8	26,7	15,9	52,4	15,9	27,7	20,9	28,2	3,2	15,9	11,1	4	15,9	12,7
1	108,0	50,8	49,2	14,3	79,4	33,4	17,5	55,6	17,5	34,5	26,6	34,9	3,2	17,5	12,7	4	15,9	12,7
1¼	117,0	63,5	58,7	15,9	88,9	42,2	20,6	57,2	20,6	43,2	35,1	43,7	4,8	20,6	14,3	4	15,9	12,7
1½	127,0	73,0	65,1	17,5	98,4	48,3	22,2	61,9	22,2	49,5	40,9	50,0	6,4	22,2	15,9	4	15,9	12,7
2	152,0	92,1	77,8	19,1	121,0	60,3	25,4	63,5	25,4	61,9	52,5	62,5	7,9	25,4	17,5	4	19,0	15,9
2½	178,0	105,0	90,5	22,2	140,0	73,0	28,6	69,8	28,6	74,6	62,7	75,4	7,9	28,6	19,0	4	19,0	15,9
3	190,0	127,0	108,0	23,9	152,0	88,9	30,2	69,8	30,2	90,7	77,9	91,4	9,5	30,2	20,6	4	19,0	15,9
3½	216,0	140,0	122,0	23,9	178,0	101,6	31,8	71,4	31,8	103,4	90,1	104,1	9,5	31,8	22,2	8	19,0	15,9
4	229,0	157,0	135,0	23,9	190,0	114,3	33,3	76,2	33,3	116,1	102,3	116,8	11,1	33,3	23,8	8	19,0	15,9
5	254,0	186,0	164,0	23,9	216,0	141,3	36,5	88,9	36,5	143,8	128,2	144,4	11,1	36,5	23,8	8	22,2	19,0
6	279,0	216,0	192,0	25,4	241,0	168,3	39,7	88,9	39,7	170,7	154,1	171,4	12,7	39,7	27,0	8	22,2	19,0
8	343,0	270,0	246,0	28,6	298,0	219,1	44,4	102,0	44,4	221,5	202,7	222,2	12,7	44,4	31,7	8	22,2	19,0
10	406,0	324,0	305,0	30,2	362,0	273,0	49,2	102,0	49,2	276,2	254,6	277,4	12,7	49,2	33,3	12	25,4	22,2
12	483,0	381,0	365,0	31,8	432,0	323,8	55,6	114,0	55,6	327,0	304,8	328,2	12,7	55,6	39,7	12	25,4	22,2
14	533,0	413,0	400,0	34,9	476,0	355,6	57,2	127,0	79,4	359,2	336,5	360,2	12,7	57,2	41,3	12	28,6	25,4
16	597,0	470,0	457,0	36,6	540,0	406,4	63,5	127,0	87,3	410,5	387,0	411,2	12,7	63,5	44,4	16	28,6	25,4
18	635,0	533,0	505,0	39,7	578,0	457,0	68,3	140,0	96,8	461,8	438,0	462,3	12,7	68,3	49,2	16	31,8	28,6
20	698,0	584,0	559,0	42,9	635,0	508,0	73,0	144,0	103,0	513,1	489,0	514,4	12,7	73,0	54,0	20	31,8	28,6
24	813,0	692,0	664,0	47,7	749,0	610,0	82,6	152,0	111,0	616,0	590,5	616,0	12,7	82,6	63,5	20	34,9	31,8
26	869,9	742,9	723,9	50,8	806,4	660,4	85,7	127,0		666,8						24	34,9	31,8
28	927,1	793,7	781,0	52,4	863,6	711,2	87,3	128,6		717,6						28	34,9	31,8
30	984,2	857,2	831,8	54,0	914,4	762,0	88,9	130,2		768,4						28	34,9	31,8
32	1060,4	908,0	889,0	57,1	977,9	812,8	92,1	133,4		819,2						28	41,3	34,9
34	1111,2	958,8	939,8	58,7	1028,7	863,6	93,7	134,9		870,0						32	41,3	34,9
36	1168,4	1022,3	996,9	60,3	1085,8	914,4	95,2	136,5		920,8						32	41,3	34,9

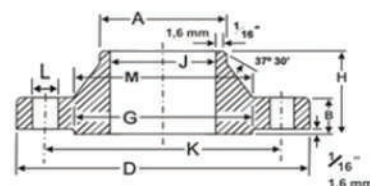
Encaixe Solda (Socket Welding)



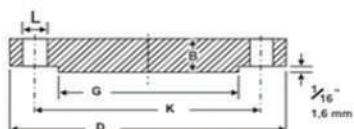
Roscada (Threaded)



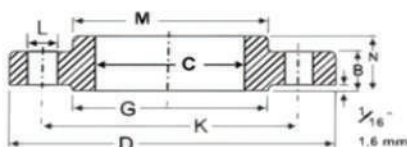
Pescoço (Welding Neck)



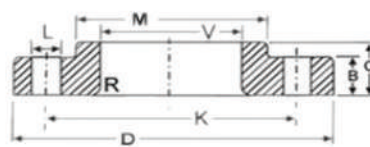
Cego (Blind)



Sobreposto (Slip-On)



Solto (Lap Joint)



ANSI B-16.5 FLANGES FORJADAS

300 LBS

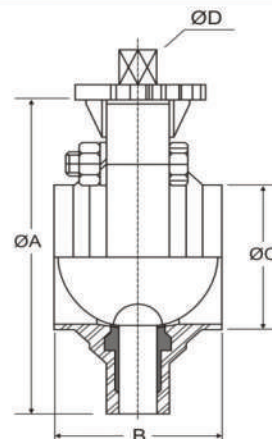
Diâmetro Nominal	Medidas Comuns					Diâmetro Externo do Chanfro	Altura Total da Flange			Diâmetro Interno			Raio da Ranhura	Profundidade da Rosca	Profundidade do Encaixe	Furos		
	Diâmetro Externo	Diâmetro Externo do Roscamento	Diâmetro Externo do Pescoço	Espessura da Flange	Centro entre Furos		Sobreposto Roscada Encaixe	Pescoço	Solto	Sobreposto Encaixe	Pescoço Encaixe	Solto				Número de furos	Diâmetro dos Furos	Diâmetro dos Parafusos
D	G	M	B	K	A	N	H	O	C	J	V	R	T	U	L			
½	95,2	34,9	38,1	14,3	66,7	21,3	22,2	52,4	22,2	22,2	15,8	22,9	3,2	15,9	9,5	4	15,9	12,7
¾	117,0	42,9	47,6	15,9	82,6	26,7	25,4	57,2	25,4	27,7	20,9	28,2	3,2	15,9	11,1	4	19,0	15,9
1	124,0	50,8	54,0	17,5	88,9	33,4	27,0	61,9	27,0	34,5	26,6	34,9	3,2	17,5	12,7	4	19,0	15,9
1¼	133,0	63,5	63,5	19,1	98,4	42,2	27,0	65,1	27,0	43,2	35,1	43,7	4,8	20,6	14,3	4	19,0	15,9
1½	156,0	73,0	69,8	20,7	114,0	48,3	30,2	68,3	30,2	49,5	40,9	50,0	6,4	22,2	15,9	4	22,2	19,0
2	165,0	92,1	84,1	22,3	127,0	60,3	33,3	69,8	33,3	61,9	52,5	62,5	7,9	28,6	17,5	8	19,0	15,9
2½	190,0	105,0	100,0	25,4	149,0	73,0	38,1	76,2	38,1	74,6	62,7	75,4	7,9	31,8	19,0	8	22,2	19,0
3	210,0	127,0	117,0	28,6	168,0	88,9	42,9	79,4	42,9	90,7	77,9	91,4	9,5	31,8	20,6	8	22,2	19,0
3½	229,0	140,0	133,0	30,2	184,0	101,6	44,4	81,0	44,4	103,4	90,1	104,1	9,5	36,5	22,2	8	22,2	19,0
4	254,0	157,0	146,0	31,8	200,0	114,3	47,6	85,7	47,6	116,1	102,3	116,8	11,1	36,5	23,8	8	22,2	19,0
5	279,0	186,0	178,0	35,0	235,0	141,3	50,8	98,4	50,8	143,8	128,2	144,4	11,1	42,9		8	22,2	19,0
6	318,0	216,0	206,0	36,6	270,0	168,3	52,4	98,4	52,4	170,7	154,1	171,4	12,7	46,0		12	22,2	19,0
8	381,0	270,0	260,0	41,3	330,0	219,1	61,9	111,0	61,9	221,5	202,7	222,2	12,7	50,8		12	25,4	22,2
10	444,0	324,0	321,0	47,7	387,0	273,0	66,7	117,0	95,2	276,2	254,6	277,4	12,7	55,6		16	28,6	25,4
12	521,0	381,0	375,0	50,8	451,0	323,8	73,0	130,0	102,0	327,0	304,8	328,2	12,7	60,3		16	31,8	28,6
14	584,0	413,0	425,0	54,0	514,0	355,6	76,2	143,0	111,0	359,2	336,5	360,2	12,7	63,5		20	31,8	28,6
16	648,0	470,0	483,0	57,2	572,0	406,4	82,6	146,0	121,0	410,5	387,0	411,2	12,7	68,3		20	34,9	31,8
18	711,0	533,0	533,0	60,4	629,0	457,0	88,9	159,0	130,0	461,8	438,0	462,3	12,7	69,8		24	34,9	31,8
20	775,0	584,0	587,0	63,5	686,0	508,0	95,2	162,0	140,0	513,1	489,0	514,4	12,7	73,0		24	34,9	31,8
24	914,0	692,0	702,0	69,9	813,0	610,0	106,0	168,0	152,0	616,0	590,5	616,0	12,7	82,6		24	41,3	34,9
26	971,5	749,3	720,7	79,4	876,3	666,7	184,2	184,2		666,8						28	44,4	41,3
28	1035,0	800,1	774,7	85,7	939,8	717,5	196,9	196,9		717,6						28	44,4	41,3
30	1092,2	857,2	827,1	92,1	996,9	768,3	209,6	209,6		768,4						28	47,6	44,4
32	1149,3	914,4	881,0	98,4	1054,1	819,1	222,3	222,3		819,2						28	50,8	47,6
34	1206,5	965,2	936,6	101,6	1104,9	871,5	231,8	231,8		870,0						28	50,8	47,6
36	1270,0	1022,3	990,6	104,8	1168,4	922,3	241,3	241,3		920,8						32	54,0	50,8

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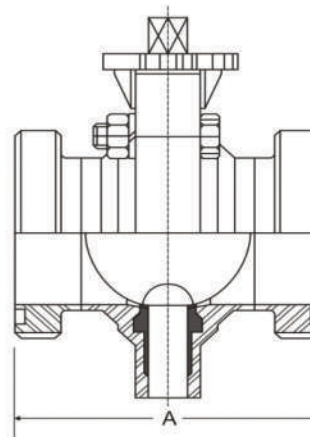
Válvula Borboleta tipo (VBA)- Solda

	Ø A	B	Ø C	Ø D
1"	74,0	36,0	25,4	9,5
1.1½"	97,0	44,0	38,1	9,5
2"	110,0	44,0	50,8	9,5
2.1½"	127,0	44,0	63,5	9,5
3"	140,0	48,0	76,2	9,5
4"	160,0	48,0	101,6	9,5
5"	192,0	60,0	127,0	15,0
6"	220,0	60,0	152,4	15,0



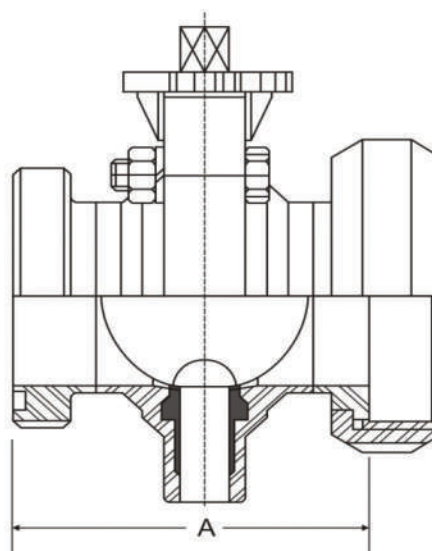
Válvula Borboleta tipo (VBB) - 2M

	A			
	DIN	RJT	SMS	IDF
1"	80,0	84,0	76,0	79,0
1.1½"	88,0	92,0	84,0	87,0
2"	88,0	92,0	84,0	87,0
2.1½"	96,0	92,0	92,0	87,0
3"	108,0	96,0	96,0	91,0
4"	108,0	96,0	118,0	91,0
5"	128,0	110,0	130,0	103,0
6"	140,0	118,0	130,0	103,0



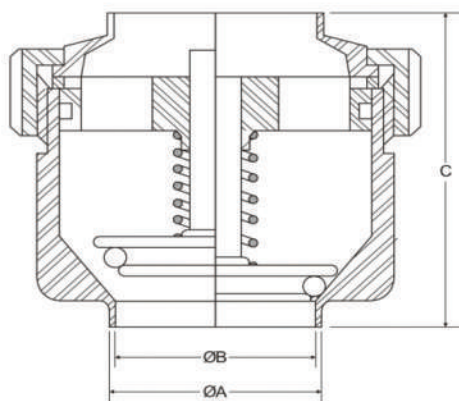
Válvula Borboleta tipo (VBC) - MNP

	A			
	DIN	RJT	SMS	IDF
1"	78,0	74,0	69,0	79,0
1.1½"	86,0	83,0	77,0	87,0
2"	88,0	84,0	77,0	87,0
2.1½"	94,0	84,0	81,0	87,0
3"	102,0	88,0	86,0	91,0
4"	105,0	88,0	99,0	91,0
5"	124,0	104,0	115,0	103,0
6"	130,0	109,0	115,0	103,0



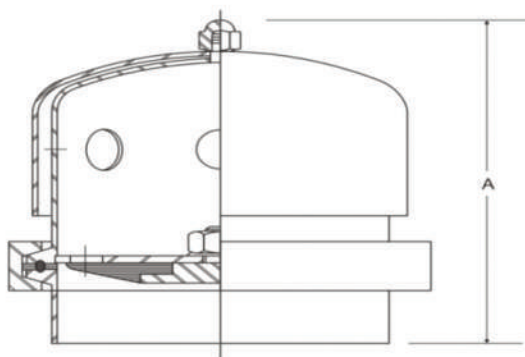
Válvula de Retenção para solda (VRA)

	ØA	ØB	C
1"	25,4	22,4	93,0
1½"	38,1	35,1	93,0
2"	50,8	47,8	104,0
2½"	63,5	59,5	122,0
3"	76,2	72,2	122,0
4"	101,6	97,6	154,0
5"	127,0	122,0	176,0
6"	152,4	147,4	176,0
8"	203,2	198,2	212,0



Válvula Quebra Vácuo

Ø	A
2"	82,0
4"	117,0



Pneumática

Para operações automatizadas a Válvula Borboleta pode ser fornecida com Atuador pneumático com acionamento por AR retorno por AR ou acionamento por AR e retorno por Mola, assumindo a posição NF (normalmente fechada) ou NA (normalmente aberta)

Opcionais:

Uma ou duas chaves de fim de curso (microswitches)
para indicação remota da posição da válvula (alternativa)
também disponível na Válvula Manual)
Válvula Solenóide para controle do ar do Atuador

Torque da Válvula Borboleta:

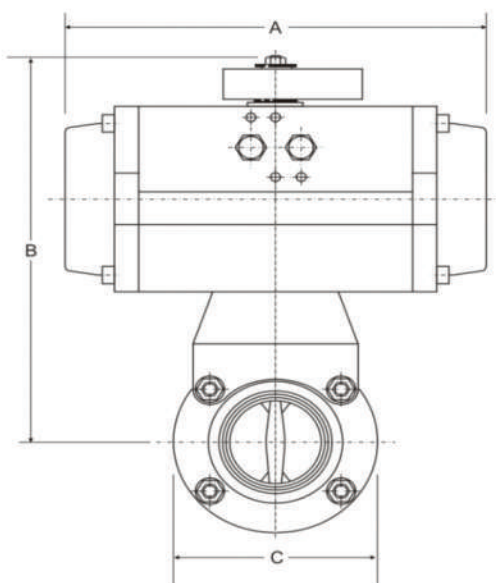
Bitola	1" 1½" 2" 2½" 3" 4"
Torque Kgf.m	0,7 1,0 1,4 2,0 2,4 3,1

Ar Comprimido:

Pressão mínima de ar recomendável: 6,0 Kgf/cm²
Pressão máxima de ar recomendável: 10,0 Kgf/cm²

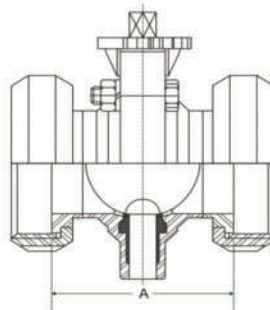
Ø	A	B	C
1"	152,0	148,6	80,0
1½"	152,0	176,3	96,0
2"	152,0	173,4	111,0
2½"	193,0	184,4	125,0
3"	193,0	201,8	132,0
4"	225,0	210,1	156,0

DEMAIS NORMAS OU GRAUS, SOB CONSULTA.



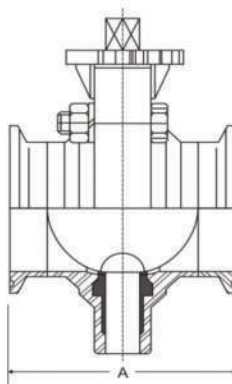
Válvula Borboleta tipo (VBD) - 2NP

	A			
	DIN	RJT	SMS	IDF
1"	76,0	64,0	62,0	79,0
1.1½"	84,0	74,0	70,0	87,0
2"	88,0	76,0	70,0	87,0
2.1½"	92,0	76,0	70,0	87,0
3"	96,0	80,0	76,0	91,0
4"	102,0	80,0	80,0	91,0
5"	120,0	100,0	100,0	103,0
6"	120,0	100,0	100,0	103,0



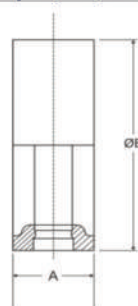
Válvula Borbolete tipo (VBE) - 2TC

Ø	A
1"	62,0
1.1½"	70,0
2"	70,0
2.1½"	70,0
3"	74,0
4"	74,0
5"	90,0
6"	90,0



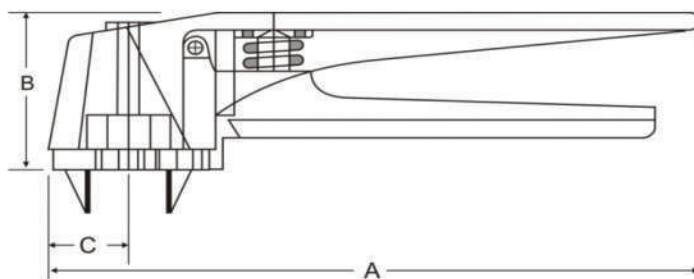
Vedação para Válvula Borboleta tipo (VB)

Ø	A	
1"	22,7	35,8
1.1½"	22,7	54,0
2"	22,7	66,0
2.1½"	22,7	82,0
3"	22,7	97,0
4"	26,5	116,4
5"	32,5	143,0
6"	32,5	168,0



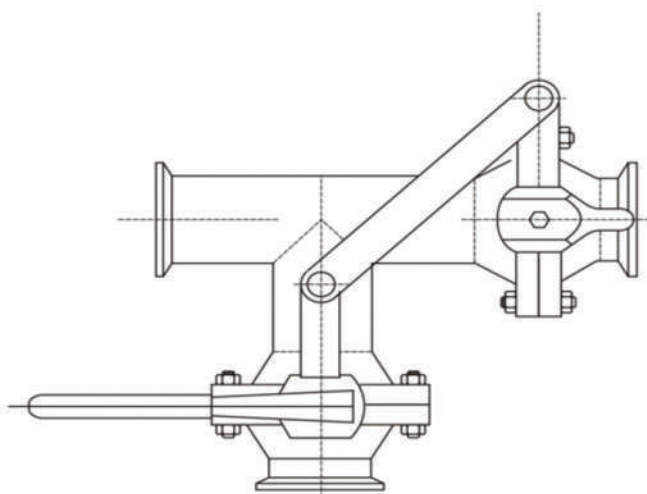
Manipulo com trava e regulagem de 0 a 90 graus

A	B	C
171	46,0	21,0

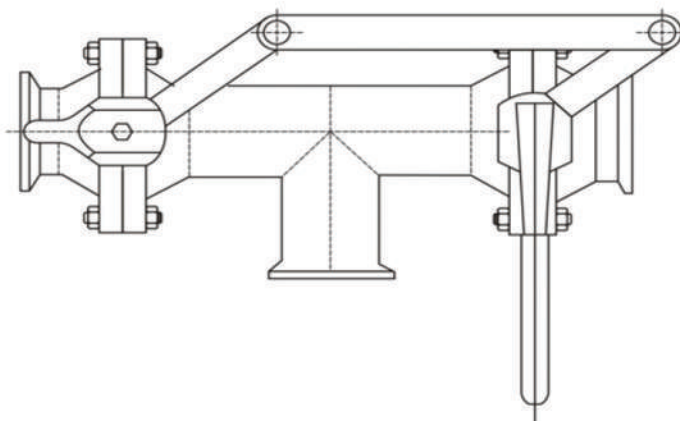


Ø	A	B	TC	C					D			
				RJT	SMS	IDF	DIM	TC	RJT	SMS	IDF	DIM
1"	40,0	148,0	61,0	75,0	64,0	70,0	72,0	131,0	145,0	134,0	140,0	142,0
1.1/2"	48,0	148,0	70,0	84,0	77,2	79,0	81,0	140,0	153,5	147,0	149,0	151,0
2"	55,5	148,0	89,0	103,0	96,2	98,0	100,0	159,0	172,5	166,0	168,0	170,0
2.1/2"	52,5	194,0	90,0	104,0	101,0	99,0	104,0	160,0	173,5	171,0	169,0	174,0
3"	66,0	194,0	96,0	110,0	107,0	105,0	114,0	166,0	179,5	177,0	175,0	184,0
4"	78,0	194,0	114,0	125,0	134,0	129,0	130,0	184,0	195,0	204,0	199,0	200,0
5"	92,0	230,0	122,0	132,0	-	-	152,0	212,0	122,5	-	-	242,0
6"	108,5	230,0	129,0	140,0	-	-	163,0	244,0	254,5	-	-	278,0

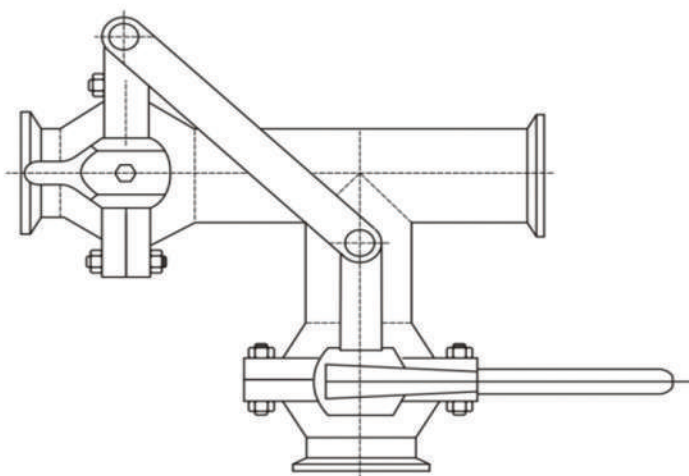
Modelo T1



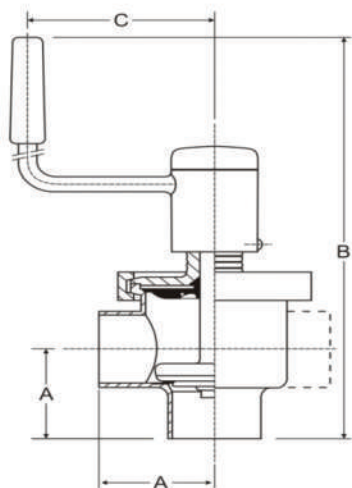
Modelo T2



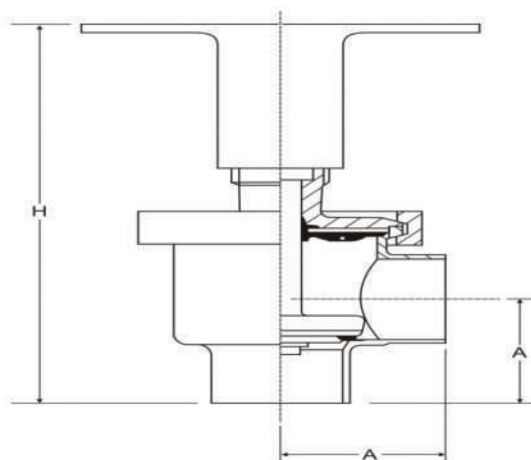
Modelo T3



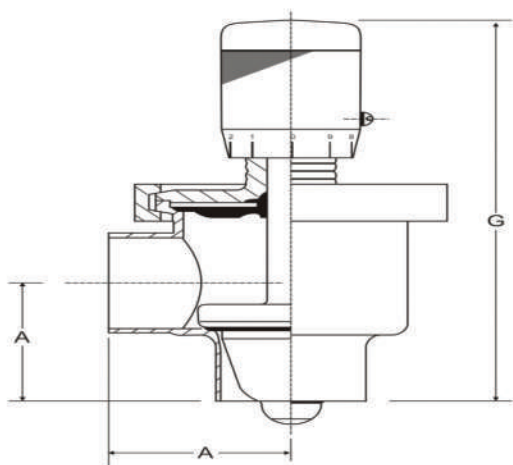
SMF Modelo 20



Segurança



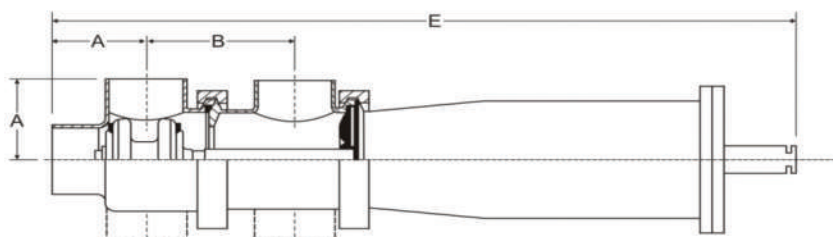
Micrométrica



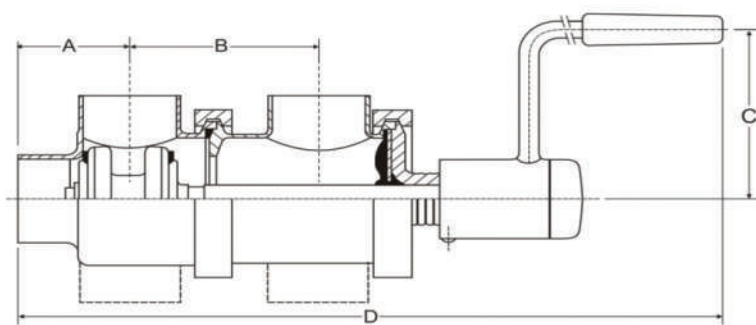
Ø	A	B	C	D	E	F	G	H
1"	48,2	298,5	100,0	-	-	-	214,5	272,5
1½"	48,5	292,5	100,0	-	-	-	208,5	266,5
2"	61,5	302,5	100,0	182,0	204,0	289,5	218,5	276,5
2½"	82,3	337,6	100,0	-	-	-	253,6	311,6
3"	87,3	355,2	100,0	-	-	-	271,2	329,2
4"	133,0	425,0	100,0	-	-	-	341,0	399,0

As dimensões referem-se à válvula para solda. Fornecemos também soldadas à terminais TC, RJT, SMS E DIN.

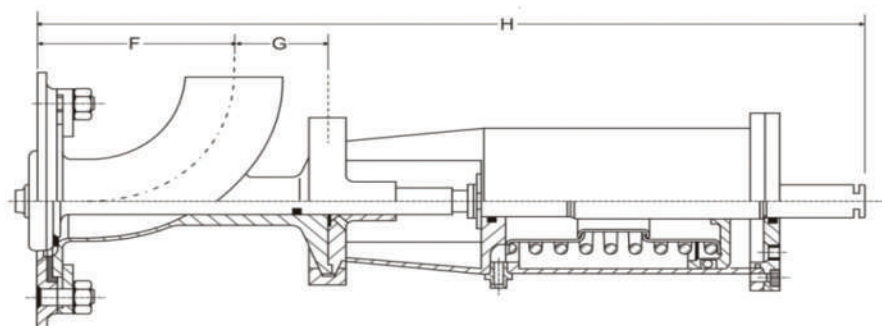
SRC Pneumática - Modelo 21



SRC Pneumática - Modelo 30



Válvula Fundo de Tanque Pneumática



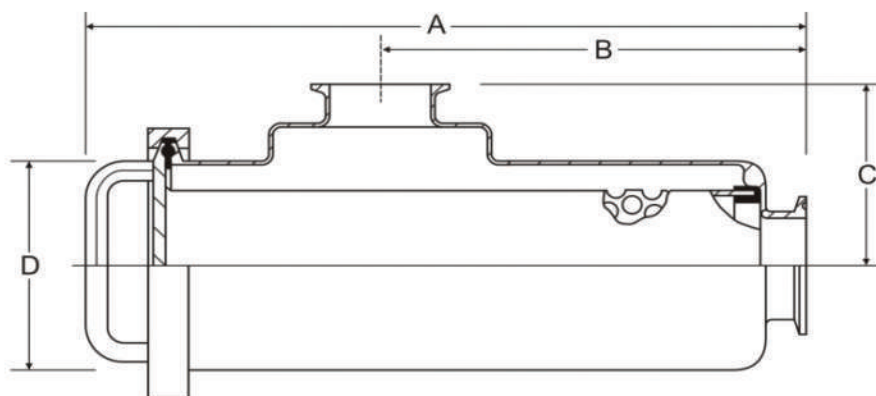
Ø	A	B	C	D	E	F	G	H
1"	48,2	85,7	100,0	298,5	377,0	63,5	38,1	384,8
1½"	48,5	79,5	100,0	292,5	371,0	82,6	44,5	410,3
2"	61,5	94,0	100,0	302,5	381,0	101,6	50,8	435,6
2½"	82,3	113,1	100,0	337,6	416,1	120,7	57,2	461,1
3"	87,3	131,9	100,0	355,2	438,2	139,7	63,5	486,4
4"	133,0	181,0	100,0	425,0	508,0	179,0	76,2	538,4

Nossa linha de válvulas da série SMF / SPF possuem peças modulares e intercambiáveis, facilitando assim a transformação de um modelo em outro. As válvulas manuais podem ser convertidas em pneumáticas apenas trocando-se o comando manual pelo atuador.

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Dimensões Gerais



MODELO F600

Bitola	A					B					C					ØD
Ø	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	
1"	320,5	333,2	347,0	336,5	344,5	182,1	194,8	208,6	198,1	206,1	72,0	84,7	98,5	88,0	96,0	101,6
1½"	320,5	333,2	347,0	340,5	344,5	182,1	194,8	208,6	202,1	206,1	72,0	84,7	98,5	92,0	96,0	101,6
2"	320,5	333,2	347,0	340,5	344,5	182,1	194,8	208,6	202,1	206,1	72,0	84,7	98,5	92,0	96,0	101,6
2½"	320,5	333,2	347,0	344,5	347,5	182,1	194,8	208,6	206,1	209,1	72,0	84,7	98,5	96,0	99,0	101,6
3"	331,5	344,2	358,0	355,5	362,5	193,1	205,8	219,6	217,1	224,1	72,0	84,7	98,5	96,0	103,0	101,6
4"	339,5	355,4	366,0	374,5	370,5	201,1	217,0	227,6	236,1	232,1	55,0	71,0	81,5	90,0	86,0	101,6

MODELO F1200

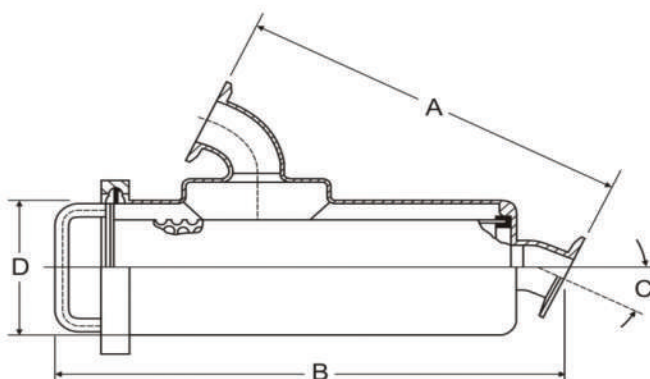
Bitola	A					B					C					ØD
Ø	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	
1"	600,5	613,2	627,0	616,5	624,5	462,1	474,8	488,6	478,1	486,1	72,0	84,7	98,5	88,0	96,0	101,6
1½"	600,5	613,2	627,0	620,5	624,5	462,1	474,8	488,6	482,1	486,1	72,0	84,7	98,5	92,0	96,0	101,6
2"	600,5	613,2	627,0	620,5	624,5	462,1	474,8	488,6	482,1	486,1	72,0	84,7	98,5	92,0	96,0	101,6
2½"	600,5	613,2	627,0	624,5	627,5	462,1	474,8	488,6	486,1	489,1	72,0	84,7	98,5	96,0	99,0	101,6
3"	611,5	624,2	638,0	635,5	642,5	473,1	485,8	499,6	497,1	504,1	72,0	84,7	98,5	96,0	103,0	101,6
4"	619,5	635,3	646,0	654,5	650,5	481,1	497,0	507,6	516,1	512,1	55,0	71,0	81,5	90,0	86,0	101,6

MODELO F750

Bitola	A					B					C					ØD
Ø	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	
1"	320,0	332,7	346,5	336,0	344,0	156,1	168,8	182,6	172,1	180,1	97,0	109,7	123,5	113,0	121,0	152,4
1½"	320,0	332,7	346,5	336,0	344,0	156,1	168,8	182,6	176,1	180,1	97,0	109,7	123,5	117,0	121,0	152,4
2"	320,0	332,7	346,5	336,0	344,0	156,1	168,8	182,6	176,1	180,1	97,0	109,7	123,5	117,0	121,0	152,4
2½"	320,0	332,7	346,5	336,0	347,0	156,1	168,8	182,6	180,1	183,1	97,0	109,7	123,5	121,0	124,0	152,4
3"	320,0	332,7	346,5	344,0	351,0	156,1	168,8	182,6	180,1	187,1	97,0	109,7	123,5	121,0	128,0	152,4
4"	327,0	343,4	353,5	362,0	358,0	163,6	179,5	190,1	198,6	194,6	80,0	96,0	106,5	115,0	111,0	152,4
5"	343,5	359,4	370,0	378,5	393,5	177,4	193,3	203,9	212,4	227,4	80,0	96,0	106,5	115,0	111,0	152,4
6"	343,5	359,4	370,0	378,5	393,5	177,4	193,3	203,9	212,4	227,4	80,0	96,0	106,5	115,0	111,0	152,4

MODELO F1500

Bitola	A					B					C					ØD
Ø	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	solda	TC	RJT	SMS	DIN	
1"	602,5	615,2	629,0	618,5	626,5	436,1	448,8	462,6	452,1	460,1	97,0	109,7	123,5	113,0	121,0	152,4
1½"	602,5	615,2	629,0	622,5	626,5	436,1	448,8	462,6	456,1	460,1	97,0	109,7	123,5	117,0	121,0	152,4
2"	602,5	615,2	629,0	622,5	626,5	436,1	448,8	462,6	456,1	460,1	97,0	109,7	123,5	117,0	121,0	152,4
2½"	602,5	615,2	629,0	626,5	629,5	436,1	448,8	462,6	460,1	463,1	97,0	109,7	123,5	121,0	124,0	152,4
3"	602,5	615,2	629,0	626,5	633,5	436,1	448,8	462,6	460,1	467,1	97,0	109,7	123,5	121,0	128,0	152,4
4"	610,0	625,9	636,5	645,0	641,0	443,6	459,5	470,1	478,6	474,6	80,0	95,9	106,5	115,0	111,0	152,4
5"	623,5	639,4	650,0	658,5	673,5	457,0	472,9	483,5	492,0	503,0	80,0	95,9	106,5	115,0	126,0	152,4
6"	623,5	639,4	650,0	658,5	673,5	457,0	472,9	483,5	492,0	507,0	80,0	95,9	106,5	115,0	130,0	152,4



MODELO F600 tipo Y

Bitola	A				
Ø	solda	TC	RJT	SMS	DIN
1"	246,2	271,6	299,2	278,2	294,2
1½"	273,3	298,7	326,3	313,3	321,3
2"	300,0	325,4	353,0	340,0	348,0
2½"	326,6	352,0	379,6	374,3	380,6
3"	352,8	278,2	405,8	400,8	414,8
4"	404,3	429,4	457,3	474,3	466,3

B					C	ØD
solda	TC	RJT	SMS	DIN		
199,1	217,0	226,6	226,3	226,3	26°	101,6
209,3	232,2	239,9	239,9	239,9	28°	101,6
220,0	248,4	254,9	254,9	254,9	29°	101,6
231,3	265,3	271,1	271,1	272,9	31°	101,6
252,3	292,5	297,3	297,3	301,4	31°	101,6
278,2	331,5	334,3	339,8	332,7	30°	101,6

MODELO F750 tipo y

Bitola	A				
Ø	solda	TC	RJT	SMS	DIN
1"	236,8	262,2	289,8	268,8	284,8
1½"	263,6	289,0	316,6	303,6	311,6
2"	290,4	315,8	343,4	330,4	338,4
2½"	317,3	342,7	370,3	365,3	371,3
3"	344,2	369,6	397,2	392,2	406,2
4"	397,2	428,9	450,2	467,2	459,2
6"	510,0	541,8	563,0	580,0	610,0

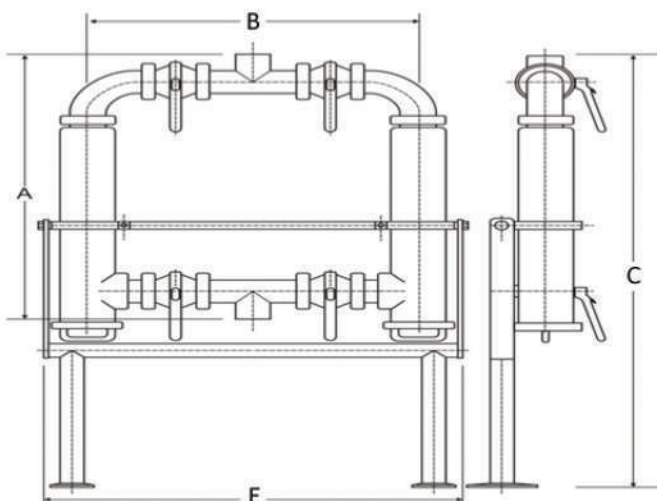
B					C	ØD
solda	TC	RJT	SMS	DIN		
341,7	359,7	341,6	362,8	368,8	34°	152,4
353,5	376,4	386,1	381,1	384,1	35°	152,4
365,4	393,8	402,3	397,3	400,3	36°	152,4
377,9	411,9	419,7	417,7	419,5	37°	152,4
390,4	430,5	437,4	435,4	439,5	38°	152,4
417,7	471,1	475,8	479,4	477,3	36°	152,4
481,2	493,9	501,9	509,2	520,7	37°	152,4

MODELO 2F 1200

Bitola	A	B	C	E
1"	624,0	490,0	1414,0	754,0
1½"	661,4	508,0	1442,0	772,0
2"	718,0	547,0	1480,0	811,0
2½"	739,1	549,0	1500,0	813,0
3"	770,1	560,4	1525,0	824,4
4"	842,4	576,6	1565,0	840,6

MODELO 2F 1500

Bitola	A	B	C	E
1"	500,5	538,4	1415,0	802,4
1½"	520,4	556,8	1444,0	820,8
2"	539,4	594,8	1482,0	858,8
2½"	558,5	596,4	1502,0	860,4
3"	577,5	608,4	1527,0	872,4
4"	629,5	631,0	1579,0	895,0
5"	665,9	700,0	1629,0	964,0
6"	705,3	750,0	1669,0	1014,0



Tecido Metálico

Abertura (microns)	Malha	Correção	CÓDIGO F600	CÓDIGO F1200	CÓDIGO F750	CÓDIGO F1500
1750	12,0	0,48	278092B-2	278094B-2	278092B-5	278094B-5
1130	16,0	0,50	278068B-2	278078B-2	278068B-5	278078B-5
910	20,0	0,63	278069B-2	278079B-2	278069B-5	278079B-5
640	30,0	0,79	278070B-2	278080B-2	278070B-5	278080B-5
430	40,0	0,87	278071B-2	278081B-2	278071B-5	278081B-5
308	50,0	0,92	278072B-2	278082B-2	278072B-5	278082B-5
263	60,0	0,95	278073B-2	278083B-2	278073B-5	818083B-5
192	80,0	0,97	278074B-2	278084B-2	278074B-5	278084B-5
154	100,0	1,00	278075B-2	278085B-2	278075B-5	278085B-5
131	120,0	1,10	278076B-2	278086B-2	278076B-5	278086B-5
106	150,0	1,30	278077B-2	278087B-2	278077B-5	278087B-5
96	180,0	1,34	278178B-2	278187B-2	278178B-5	278187B-5
82	200,0	1,43	278179B-2	278188B-2	278079B-5	278188B-5
70	220,0	1,55	278180B-2	278189B-2	278180B-5	278189B-5
61	250,0	1,65	278181B-2	278190B-2	278181B-5	278190B-5
54	270,0	1,70	278182B-2	278191B-2	278182B-5	278191B-5
44	300,0	1,74	278183B-2	278192B-2	278183B-5	278192B-5
42	235,0	1,80	278184B-2	278193B-2	278184B-5	278193B-5

Chapa Perfurada

Abertura(microns)	Furo	Correção	CÓDIGO F600	CÓDIGO F1200	CÓDIGO F750	CÓDIGO F1500
502	0,8	0,5	278-060B2	278-064B2	278-060B5	278-064B5
785	1,0	0,5	278-061B2	278-065B2	278-061B5	278-065B5
1130	1,2	0,4	278-062B2	278-066B2	278-062B5	278-066B5
1767	1,5	0,4	278-063B2	278-067B2	278-063B5	278-067B5
2010	1,6	0,4	278-095B2	278-096B2	278-095B5	278-096B5
3141	2,0	0,3	278-088B2	278-090B2	278-088B5	278-090B5
4908	2,5	0,3	278-089B2	278-091B2	278-089B5	278-091B5

Tecido não Metálico

Abertura(microns)	Material	CÓDIGO F600	CÓDIGO F1200	CÓDIGO F750	CÓDIGO F1500
760	Tecido de Nylon	278097-I2	278098-I2	278097-I5	278098-I5
500	Flanela de Algodão	278042-I2	278043-I2	278042-I5	278043-I5
200	Tecido de Polyester	278099-I2	278099-I2	278100-I5	278100-I5
20	Tecido de Nylon	278095-I5	278099-I2	278096-I5	278096-I5
5	Feltro Agulhado	278040-I2	278041-I2	278040-I5	278041-I5

Tecido Metálico

Abertura(microns)	Malha	Correção	CÓDIGO F600	CÓDIGO F1200	CÓDIGO F750	CÓDIGO F1500
1750	12,0	0,44	278592,0	278594B-2	278592B-5	278594B-5
1130	16,0	0,45	278568,0	278078B-2	278568B-5	278578B-5
910	20,0	0,55	278569,0	278079B-2	278569B-5	278579B-5
640	30,0	0,70	278570,0	278080B-2	278570B-5	278580B-5
430	40,0	0,78	278571,0	278081B-2	278571B-5	27858B-5
308	50,0	0,83	278572,0	278082B-2	278572B-5	278582B-5
263	60,0	0,85	278573,0	278083B-2	278573B-5	278583B-5
192	80,0	0,87	278574,0	278084B-2	278574B-5	278584B-5
154	100,0	0,94	278575,0	278085B-2	278575B-5	278585B-5
131	120,0	0,99	278576,0	278086B-2	278576B-5	278586B-5
106	150,0	1,20	278577,0	278087B-2	278577B-5	278587B-5
96	180,0	1,22	278578,0	278187B-2	278578B-5	278588B-5
82	200,0	1,28	278579,0	278188B-2	278579B-5	278589B-5
70	220,0	1,40	278580,0	278189B-2	278580B-5	278590B-5
61	250,0	1,50	278581,0	278190B-2	278581B-5	278591B-5
54	270,0	1,53	278582,0	278191B-2	278582B-5	278592B-5
44	300,0	1,57	278583,0	278192B-2	278483B-5	278593B-5
42	235,0	1,65	278584,0	278193B-2	278584B-5	278594B-5

São fornecidos em 06 modelos básicos:

MODELO	ÁREA DE FILTRAÇÃO (cm ²)
F600 e F600 tipo Y	606,0
F750 e F750 tipo Y	757,0
F1200	1239,0
F1500	1549,0
2F1200 (duplo)	2X1239
2F1500 (duplo)	2X1549

São fornecidas para solda ou acopladas à terminais conforme as normas sanitárias ISO 2852 (TC), BS 1864 (RJT), SMS 1145 e DIN 11851 nas bitolas de 1" à 6".