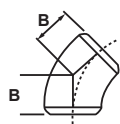
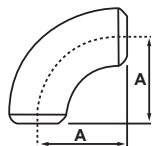




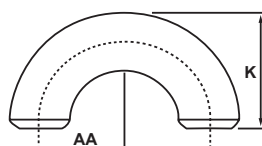
Tampão



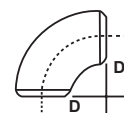
45º Raio Longo Solda



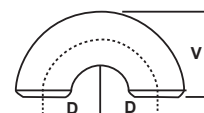
90º Raio Longo Solda



180º Raio Longo Solda



90º Raio Curto Solda

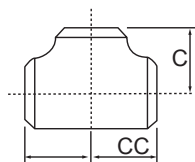


180º Raio Curto Solda

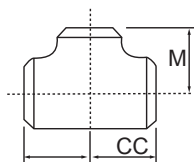
### Dimensões

Diâmetro Nominal (pol)	A (mm)	B (mm)	D (mm)	K (mm)	V (mm)	E (mm)
1/2	38,10	15,87	-	47,62	-	25,40
3/4	28,57	14,28	-	42,86	-	25,40
1	38,10	22,22	25,40	55,57	41,27	38,10
1 1/4	47,62	25,40	31,75	69,85	52,38	38,10
1 1/2	57,15	28,57	38,10	82,55	61,91	38,10
2	76,20	34,92	50,80	106,37	80,97	38,10
2 1/2	95,25	44,45	63,50	131,77	100,01	38,10
3	114,30	50,80	76,20	158,75	120,65	50,80
3 1/2	133,35	57,15	88,90	184,15	139,70	63,50
4	152,40	63,50	101,60	209,55	158,75	63,50
5	190,50	79,37	127,00	261,93	196,85	76,20
6	228,60	92,25	152,40	312,73	236,53	88,90
8	304,80	127,00	203,20	414,33	312,73	101,60
10	381,00	158,75	254,00	517,52	390,52	127,00
12	457,20	190,50	304,80	619,12	466,72	152,40
14	533,40	222,25	355,60	533,40	533,40	165,10
16	609,60	254,00	406,40	609,60	609,60	177,80
18	685,80	285,75	457,20	914,40	685,80	203,20
20	762,00	317,50	508,00	1016,00	762,00	228,60
24	914,40	381,00	609,60	1219,19	914,40	266,70

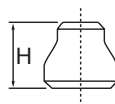
Diâmetro Nominal	Diâmetro Externo	Espessura de Parede											
		Schedule 20	Schedule 30	STD	Schedule 40	Schedule 60	XS	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	XXS
(pol)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1/2	21,33	-	-	2,76	2,76	-	3,73	3,73	-	-	-	4,77	7,46
3/4	26,67	-	-	2,87	2,87	-	3,91	3,91	-	-	-	5,56	7,82
1	33,40	-	-	3,37	3,37	-	4,54	4,54	-	-	-	6,35	9,09
1 1/4	42,16	-	-	3,55	3,55	-	4,85	4,85	-	-	-	6,35	9,70
1 1/2	48,26	-	-	3,68	3,68	-	5,08	5,08	-	-	-	7,13	10,16
2	60,32	-	-	3,91	3,91	-	5,53	5,53	-	-	-	8,73	11,07
2 1/2	73,02	-	-	5,15	5,15	-	7,01	7,01	-	-	-	9,52	14,02
3	88,90	-	-	5,48	5,48	-	7,62	7,62	-	-	-	11,12	15,24
3 1/2	101,60	-	-	5,74	5,74	-	8,07	8,07	-	-	-	-	16,15
4	114,30	-	-	6,02	6,02	-	8,56	8,56	-	11,12	-	13,48	17,12
5	141,30	-	-	6,55	6,55	-	9,52	9,52	-	12,70	-	18,87	19,05
6	168,27	-	-	7,11	7,11	-	10,97	10,97	-	14,27	-	18,26	21,94
8	219,07	6,35	7,03	8,17	8,17	10,31	12,70	12,70	15,08	18,26	20,62	23,01	22,22
10	273,05	6,35	7,79	9,27	9,27	12,70	12,70	15,08	21,43	25,40	25,40	28,57	25,40
12	328,85	6,35	8,38	9,52	10,31	14,27	12,70	17,47	25,40	28,57	28,57	33,32	25,40
14	355,60	7,92	9,52	9,52	11,12	15,08	12,70	19,50	23,82	27,78	31,75	35,71	-
16	406,40	7,92	9,52	9,52	12,70	16,66	12,70	21,43	26,18	30,96	36,52	40,48	-
18	457,20	7,92	11,12	9,52	14,27	19,05	12,70	23,82	29,36	34,92	39,67	45,23	-
20	580,00	9,52	12,70	9,52	15,08	20,62	12,70	26,18	32,53	38,10	44,45	50,01	-
24	609,60	9,52	14,27	9,52	17,47	24,61	12,70	30,96	38,88	46,02	52,37	59,53	-



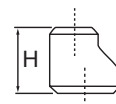
TE Reto



TE com Redução



Redução Concêntrica



Redução Excêntrica

### Dimensões

Diâmetro Nominal (pol)	Diâmetro Nominal de Saída (pol)	C (mm)	M (mm)	H (mm)
3/4	3/4	28,57	-	-
	1/2	28,57	28,57	38,10
1	1	38,10	-	-
	3/4	38,10	38,10	50,80
	1/2	38,10	38,10	50,80
1 1/4	1 1/4	47,62	-	-
	1	47,62	47,62	50,80
	3/4	47,62	47,62	50,80
	1/2	47,62	47,62	50,80
1 1/2	1 1/2	57,15	-	-
	1 1/4	57,15	57,15	63,50
	1	57,15	57,15	63,50
	3/4	57,15	57,15	63,50
	1/2	57,15	57,15	63,50
2	2	63,50	-	-
	1 1/2	63,50	60,32	76,20
	1 1/4	63,50	57,15	76,20
	1	63,50	50,80	76,20
	3/4	63,50	44,45	76,20
2 1/2	2 1/2	76,20	-	-
	2	76,20	69,85	88,90
	1 1/2	76,20	66,67	88,90
	1 1/4	76,20	63,50	88,90
	1	76,20	57,15	88,90
3	3	85,72	-	-
	2 1/2	85,72	82,55	88,90
	2	85,72	76,20	88,90
	1 1/2	85,72	73,02	88,90
	1 1/4	85,72	69,85	88,90
3 1/2	3 1/2	92,25	-	-
	3	92,25	92,07	101,60
	2 1/2	92,25	88,90	101,60
	2	92,25	82,55	101,60
	1 1/2	92,25	79,37	101,60
4	4	104,77	-	-
	3 1/2	104,77	101,60	101,60
	3	104,77	98,42	101,60
	2 1/2	104,77	95,25	101,60
	2	104,77	88,90	101,60
	1 1/2	104,77	85,72	101,60
5	5	123,82	-	-
	4	123,82	117,47	127,00
	3 1/2	123,82	114,30	127,00
	3	123,82	111,12	127,00
	2 1/2	123,82	107,95	127,00
	2	123,82	104,77	127,00

### Dimensões

Diâmetro Nominal (pol)	Diâmetro Nominal de Saída (pol)	C (mm)	M (mm)	H (mm)
6	6	142,87	-	-
	5	142,87	136,52	139,70
	4	142,87	130,17	139,70
	3 1/2	142,87	127,00	139,70
	3	142,87	123,82	139,70
	2 1/2	142,87	120,65	139,70
8	8	177,80	-	-
	6	177,80	168,27	152,40
	5	177,80	161,92	152,40
	4	177,80	155,57	152,40
	3 1/2	177,80	152,40	152,40
10	10	215,89	-	-
	8	215,89	203,20	177,80
	6	215,89	193,67	177,80
	5	215,89	190,50	177,80
	4	215,89	184,15	177,80
12	12	254,00	-	-
	10	254,00	241,30	203,20
	8	254,00	228,60	203,20
	6	254,00	219,07	203,20
	5	254,00	215,90	203,20
14	14	279,40	-	-
	12	279,40	269,87	330,20
	10	279,40	257,17	330,20
	8	279,40	247,65	330,20
	6	279,40	238,12	330,20
16	16	304,80	-	-
	14	304,80	304,80	355,60
	12	304,80	295,27	355,60
	10	304,80	282,57	355,60
	8	304,80	273,05	355,60
	6	304,80	263,52	355,60
18	18	342,90	-	-
	16	342,90	330,20	381,00
	14	342,90	330,20	381,00
	12	342,90	320,67	381,00
	10	342,90	307,97	381,00
	8	342,90	298,45	381,00
20	20	381,00	-	-
	18	381,00	368,30	508,00
	16	381,00	355,60	508,00
	14	381,00	355,60	508,00
	12	381,00	346,07	508,00
	10	381,00	333,37	508,00
	8	381,00	323,85	508,00
24	24	431,80	-	-
	20	431,80	431,80	508,00
	18	431,80	419,10	508,00
	16	431,80	406,40	508,00
	14	431,80	406,40	508,00
	12	431,80	396,87	508,00