

Aço Inoxidável

Stainless Steel

Pipes - Fittings - Flanges

According to EN DIN Rules

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Tubo mecânico inoxidável ISO 2938
 Stainless steel hollow bars ISO 2938


OD	Espessura	Kg Weight
32,0	6,00	4,20
	8,00	5,07
36,0	5,50	4,55
	8,00	5,91
	10,00	6,78
40,0	6,00	5,59
	7,50	6,47
	10,00	7,83
45,0	6,50	6,70
	8,50	8,17
	12,50	10,50
50,0	7,00	8,01
	9,00	9,70
	12,50	12,10
56,0	8,00	10,20
	10,00	12,10
	14,00	15,20
63,0	6,50	9,91
	9,00	
	11,50	15,40
	15,50	19,00
71,0	7,50	12,90
	13,00	19,60
	15,50	22,10
	17,50	24,40
75,0	7,50	13,80
	12,50	20,70
	17,50	26,00
80,0	8,50	16,40
	15,00	25,30
	17,50	26,00
	20,00	30,30
90,0	9,50	20,6
	13,5	27,10
	17,0	32,00
	20,0	36,10
100,0	10,0	24,40
	14,5	32,70
	22,0	42,30
106,0	13,0	32,30
	17,5	40,60
	21,5	46,80
	25,0	52,10
112,0	11,0	30,20
	16,0	40,60
	24,5	55,30
118,0	14,0	39,00
	19,0	49,40
	27,5	64,80
125,0	12,5	38,30
	17,5	49,80
	22,5	59,60
	27,0	68,50
132,0	13,0	42,00
	21,0	61,10
	30,5	79,70
140,0	14,0	47,80
	20,0	63,30
	30,0	85,20
150,0	12,5	47,40
	22,0	74,20
	35,0	103,00
170,0	15,0	63,50
180,0	15,0	68,40
200,0	20,0	97,60
	25,0	117,00

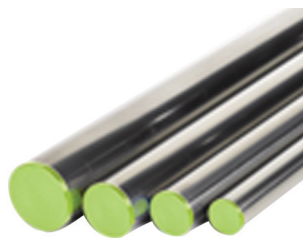
Tubos de aço inoxidável, com costura e acessórios

Stainless steel longitudinally welded pipe and fittings



Tubo pressfitting, com costura, recozido

Pressfitting longitudinally welded and annealed pipes



316 L			
OD	Espessura	Kg Weight	
15,0	1,00	0,333	
18,0	1,00	0,410	
22,0	1,20	0,624	
28,0	1,20	0,790	
35,0	1,50	1,240	
42,0	1,50	1,503	
54,0	1,50	1,970	
76,1	2,00	3,550	
88,9	2,00	4,150	
108,0	2,00	5,050	

Acessórios "Pressfitting" em aço inoxidável AISI 316 DN10 a DN100

Stainless steel Pressfitting fittings AISI 316 DN10 to DN100

Acessórios Fittings

					
União F/F	União longa F/F	Curva 90° F/F	Curva 90° M/F	Curva a 45° F/F	Curva a 45° M/F
					
Curva de ajuste a 90°	Curva de ajuste a 60°	Curva de ajuste a 30°	Curva de ajuste a 15°	Curva de cruzamento	Tê de ramos iguais F/F/F
					
Tê de redução F/F	Tê com saída rosca fêmea	Casquilho de transição com porca louca	União de redução M/F	Casquilho de transição com rosca macho	Casquilho de transição com rosca fêmea
					
Joelho 90° rosca macho	Joelho 90° rosca fêmea	Joelho macho a 90° com rosca fêmea	Junção de ligação com rosca macho	Junção de ligação com rosca fêmea	Pater a 90° rosca fêmea
					
Pater a 90° com rosca fêmea afastado	Pater de ligação dupla 90°/90° rosca fêmea	Flange de transição PN10/PN16	Tampão de fêmea	Abraçadeira puzzle	Abraçadeira reforçada

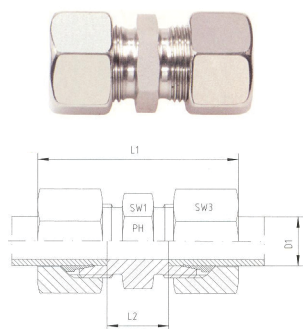
Tubos sem costura segundo ASTM A 269/ A 450 NACE MR 0175 - 00 - Recozido atmosfera inerte
Precision stainless steel tubing acc to ASTM A 269/ A 450 NACE MR 0175 - 00 - Bright annealed, length 6m



OD mm	Espessura Thickness	Kg Weight	
6,00	1,00	0,125	
6,35	1,24	0,160	
8,00	1,00	0,175	
8,00	1,50	0,240	
8,00	2,00	0,345	
9,53	1,24	0,257	
9,53	1,65	0,325	
10,00	1,00	0,225	
10,00	1,50	0,312	
10,00	2,00	0,390	
12,00	1,00	0,275	
12,00	1,50	0,390	
12,00	2,00	0,501	
12,70	1,24	0,356	
12,70	1,65	0,457	
14,00	1,50	0,470	
14,00	2,00	0,600	
14,00	2,50	0,720	
15,00	1,00	0,350	
15,00	1,50	0,470	
15,00	2,00	0,650	
16,00	1,50	0,550	
16,00	2,00	0,701	
16,00	2,50	0,830	
18,00	1,50	0,620	
18,00	2,00	0,800	
19,05	1,65	0,719	
19,05	2,11	0,919	
20,00	1,50	0,700	
20,00	2,00	0,901	
20,00	2,50	1,100	
20,00	3,00	1,281	
22,00	2,00	1,000	
25,00	2,00	1,152	
25,00	2,50	1,410	
25,00	3,00	1,657	
25,40	1,65	0,982	
25,40	2,11	1,229	
28,00	2,00	1,300	
30,00	2,00	1,400	
30,00	3,00	2,020	
31,75	2,11	1,590	
35,00	2,00	1,650	
35,00	3,00	2,400	
38,00	4,00	3,354	

União série L

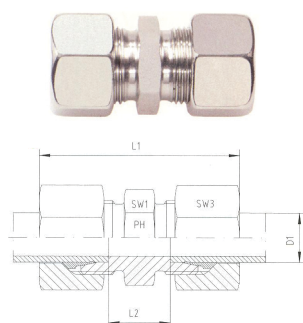
Straight coupling (light)



PN	D1	Serie	SW3	SW1	L1	L2
315	6	GV-L-06	14	12	44	10
315	8	GV-L-08	17	14	45	11
315	10	GV-L-10	19	17	48	13
315	12	GV-L-12	22	19	49	14
315	15	GV-L-15	27	24	54	16
315	18	GV-L-18	32	27	56	16
160	22	GV-L-22	36	32	63	20
160	28	GV-L-28	41	41	65	21
160	35	GV-L-35	50	46	74	20
160	42	GV-L-42	60	55	75	21

União série S

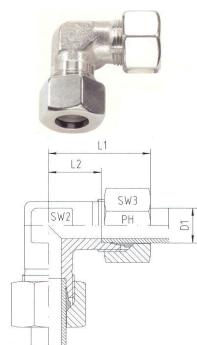
Straight coupling (heavy)



PN	D	Serie	Sw3	Sw1	L1	L2
630	6	GV-S-06	17	14	50	16
630	8	GV-S-08	19	17	52	18
630	10	GV-S-10	22	19	54	17
630	12	GV-S-12	24	22	57	19
630	14	GV-S-14	27	24	63	22
630	16	GV-S-16	30	27	65	21
400	20	GV-S-20	36	32	73	23
400	25	GV-S-25	46	41	84	26
400	30	GV-S-30	50	46	86	27
315	38	GV-S-38	60	55	99	29

Joelho série L

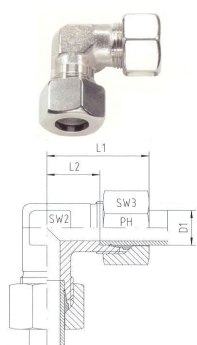
Equal elbow (light)



PN	D	Serie	Sw3	Sw2	L1	L2
315	6	WV-L-06	14	12	27	12,0
315	8	WV-L-08	17	12	29	14,0
315	10	WV-L-10	19	14	30	15,0
315	12	WV-L-12	22	17	32	17,0
315	15	WV-L-15	27	19	36	21,0
315	18	WV-L-18	32	24	40	23,5
160	22	WV-L-22	36	27	44	27,5
160	28	WV-L-28	41	36	47	30,5
160	35	WV-L-35	50	41	56	34,5
160	42	WV-L-42	60	50	63	40,0

Joelho série S

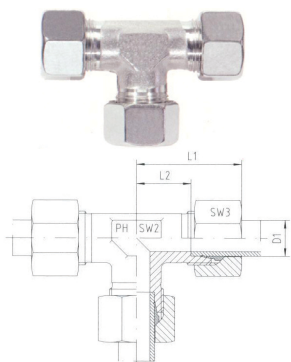
Equal elbow (heavy)



PN	D	Serie	Sw3	Sw2	L1	L2
630	6	WV-S-06	17	12	31	16,0
630	8	WV-S-08	19	14	32	17,0
630	10	WV-S-10	22	17	34	17,5
630	12	WV-S-12	24	17	38	21,5
630	14	WV-S-14	27	19	40	22,0
630	16	WV-S-16	30	24	43	24,5
400	20	WV-S-20	36	27	48	26,5
400	25	WV-S-25	46	36	54	30,0
400	30	WV-S-30	50	41	62	35,5
315	38	WV-S-38	60	50	72	41

Tê série L

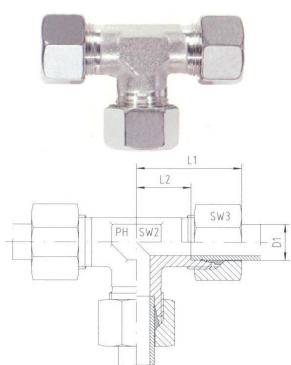
Equal tee (light)



PN	D	Serie	Sw3	Sw2	L1	L2	
L 315	6	TV-L-06	14	12	27	12,0	
L 315	8	TV-L-08	17	12	29	14,0	
L 315	10	TV-L-10	19	14	30	15,0	
L 315	12	TV-L-12	22	17	32	17,0	
L 315	15	TV-L-15	27	19	36	21,0	
L 315	18	TV-L-18	32	24	40	23,5	
L 160	22	TV-L-22	36	27	44	27,5	
L 160	28	TV-L-28	41	36	47	30,5	
L 160	35	TV-L-35	50	41	56	34,5	
L 160	42	TV-L-42	60	50	63	40,0	

Tê série S

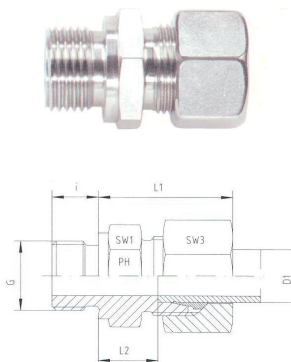
Equal tee (heavy)



PN	D	Serie	Sw3	Sw2	L1	L2	
630	6	TV-S-06	17	12	31	16,0	
630	8	TV-S-08	19	14	32	17,0	
630	10	TV-S-10	22	17	34	17,5	
630	12	TV-S-12	24	17	38	21,5	
630	14	TV-S-14	27	19	40	22,0	
630	16	TV-S-16	30	24	43	24,5	
400	20	TV-S-20	36	27	48	26,5	
400	25	TV-S-25	46	36	54	30,0	
400	30	TV-S-30	50	41	62	35,5	
315	38	TV-S-38	60	50	72	41	

Ligador direito com rosca paralela BSP, série L

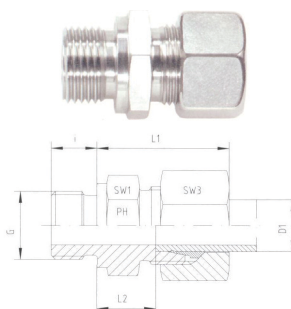
Male stub coupling with parallel BSP thread (light) AISI 316



PN	D	Serie	i	Sw1	Sw3	L1	L2	
315	6	GE-LR-06-G 1/8"	8	14	14	23,0	8,5	
315	6	GE-LR-06-G 1/4"	12	17	14	27,0	10,0	
315	8	GE-LR-08-G 1/8"	8	14	17	24,0	9,5	
315	8	GE-LR-08-G 1/4"	12	19	17	25,0	10,0	
315	8	GE-LR-08-G 1/2"	14	17	27	28,5	12,0	
315	10	GE-LR-10-G 1/4"	12	19	19	26,0	11,0	
315	10	GE-LR-10-G 3/8"	12	22	19	30,0	12,5	
315	10	GE-LR-10-G 1/2"	14	27	19	28,0	13,0	
315	12	GE-LR-12-G 3/8"	12	27	22	22,0	12,5	
315	12	GE-LR-12-G 1/2"	14	24	22	31,0	13,0	
315	15	GE-LR-15-G 1/2"	12	27	27	31,0	13,5	
315	15	GE-LR-15-G 3/8"	14	27	27	29,0	14,0	
315	18	GE-LR-18-G 1/2"	14	27	32	31,0	14,5	
160	22	GE-LR-22-G 3/4"	16	36	32	33,0	16,5	
160	28	GE-LR-28-G 1"	18	41	41	34,0	17,5	
160	35	GE-LR-35-G 1 1/4"	20	50	50	39,0	17,5	
160	42	GE-LR-42-G 1 1/2"	22	60	60	42,0	19,0	

Ligador direito com rosca paralela ISO 228, série S

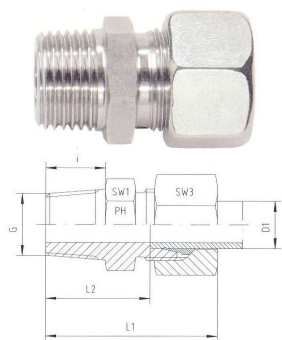
Male stub coupling with parallel BSP thread to ISO 228 (heavy)



PN	D	Size	i	Sw1	Sw3	L1	L2	
630	8	GE-SR-08-G 1/4"	12	19	19	30,0	15,0	
630	10	GE-SR-10-G 1/2"	14	27	22	34,0	17,5	
630	10	GE-SR-10-G 3/8"	12	22	22	31,0	15,0	
630	12	GE-SR-12-G 3/8"	12	24	24	33,0	17,0	
630	12	GE-SR-12-G 1/2"	14	27	24	34,0	17,5	
630	14	GE-SR-14-G 1/2"	14	27	27	37,0	19,0	
630	16	GE-SR-16-G 1/2"	14	27	30	37,0	18,5	
400	20	GE-SR-20-G 3/4"	16	32	36	42,0	20,5	
400	20	GE-SR-20-G 1"	18	41	36	42,0	22,5	
400	25	GE-SR-25-G 1"	18	41	46	47,0	23,0	
400	30	GE-SR-30-G 1 1/4"	20	50	50	50,0	23,5	
315	38	GE-SR-38-G 1 1/2"	22	55	60	57,0	26,0	

Ligador direito com rosca conica BSP, série L

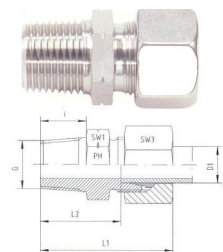
Male stub coupling with tapered BSP thread to DIN 3858 (light)



PN	D	Serie	i	Sw1	Sw3	L1	L2	
315	6	GE-L-06 R 1/8" K	8	14	14	30,0	15,0	
315	6	GE-L-06 R 1/4" K	12	17	14	35,0	20,0	
315	8	GE-L-08 R 1/4" K	12	17	17	35,0	20,0	
315	10	GE-L-10 R 1/4" K	12	17	19	36,0	21,0	
315	10	GE-L-10 R 3/8" K	12	17	19	36,0	21,0	
315	10	GE-L-10 R 1/2" K	14	22	19	39,0	24,0	
315	12	GE-L-12 R 3/8" K	12	19	22	37,0	22,0	
315	12	GE-L-12 R 1/2" K	14	22	22	39,0	24,0	
315	15	GE-L-15 R 1/2" K	14	24	27	40,0	25,0	
315	18	GE-L-18 R 1/2" K	14	27	32	42,0	25,5	
160	22	GE-L-22 R 3/4" K	16	32	36	46,0	29,5	
160	28	GE-L-28 R 1" K	18	41	41	49,0	32,5	
160	35	GE-L-35 R 1 1/4" K	20	50	46	56,0	34,5	
160	42	GE-L-42 R 1 1/2" K	22	55	60	61,0	38,0	

Ligador tubo/ rosca NPT

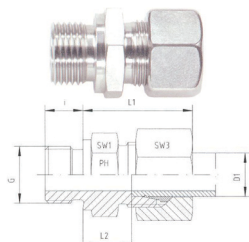
Male stud coupling tapered NPT threaded



PN	D	Serie	i	Sw1	Sw3	L1	L2	
315	6	GE-L-06 1/4" NPT	15	17	14	32	23	
315	6	GE-L-06 1/2" NPT	20	17	14	38	23	
315	8	GE-L-08 1/4" NPT	15	17	17	1	23	
315	10	GE-L-10 1/4" NPT	15	17	19	39	24	
315	10	GE-L-10 1/2" NPT	19,5	22	19	45	30	
315	12	GE-L-12 1/2" NPT	20	22	22	45	30	
315	15	GE-L-15 1/2" NPT	20	24	27	46	31,0	
315	18	GE-L-18 1/2" NPT	20	27	32	42	31,5	
315	22	GE-L-22 3/4" NPT	20	32	36	50	33,5	

Ligador direito com rosca paralela metrica

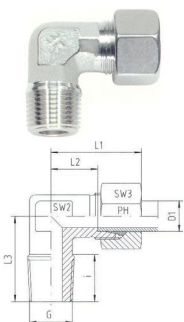
Male stud coupling with parallel metric threaded



PN	D	Serie	i	Sw3	Sw1	L1	L2	
315	6	GE-L06-M10x1	8	14	14	23	8,5	
315	8	GE-L08-M12x1,5	12	17	17	25	10,0	
315	28	GE-L28-M33x2	18	41	41	34	17,5	

Joelho tubo/ rosca BSP conica

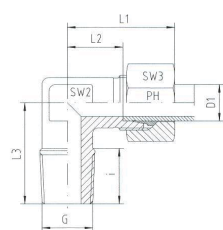
Stud elbow serie L-threaded BSP-Taper



PN	D	Serie	i	Sw2	Sw3	L1	L3	
315	6	WE-L-06-R 1/4" K	12	12	14	27	26	
315	8	WE-L-08-R 1/4" K	12	12	17	29	26	
315	10	WE-L-10-R 1/4" K	12	14	19	30	27	
315	10	WE-L-10-R 1/2" K	14	17	19	37	33	
315	12	WE-L-12-R 3/8" K	12	17	22	32	28	
315	12	WE-L-12-R 1/2" K	14	17	22	32	34	

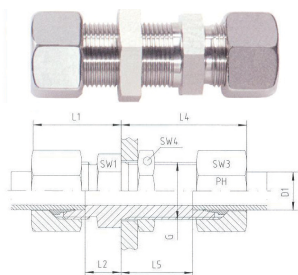
Joelho tubo/rosca BSP cônica

Stud elbow series threaded BSP-Tape (heavy)



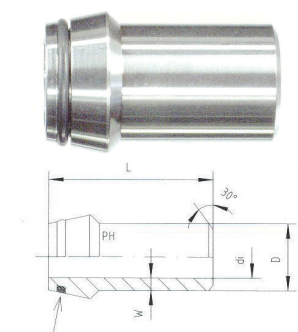
PN	D	Size	i	Sw2	Sw3	L1	L3	
630	6	WE-S-06-R1/4"-K	12	12	17	31	26	
630	10	WE-S-10-R3/8"-K	12	17	22	34	28	
630	12	WE-S-12-R3/8"-K	12	17	24	38	28	
630	16	WE-S-16-R1/2"-K	14	24	30	43	32	
400	20	WE-S-20-R1/2"-K	14	27	36	48	42	

União painel GSV-L
Straight bulkhead connection



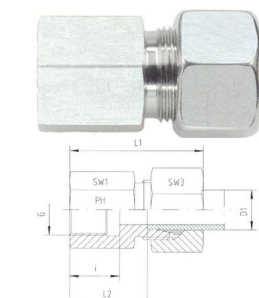
PN	D	Serie	G	Sw1	Sw3	L1	L4
315	6	GSV-L-06	M12x1,5	17	14	22	42
315	8	GSV-L-08	M14x1,5	19	17	23	42
315	10	GSV-L-10	M16x1,5	22	19	25	43
315	12	GSV-L-12	M18x1,5	24	22	25	44

Ponteira para soldar com "O'ring" viton - Cone 24°
Weld nipple SKV with O'ring viton - matching type 24° - inside taper



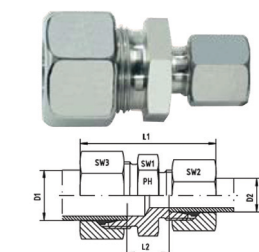
PN	D	Serie	di	L	O'ring
460	10 x 2,0	SKV-10 x 2	6	32,5	8,0 x 1,5
393	12 x 2,0	SKV-12 x 2,0	8	32,5	10,0 x 1,5
305	16 x 2,0	SKV-16 x 2,0	12	38,5	13,0 x 2,0
372	16 x 2,5	SKV-16 x 2,5	11	38,5	13,0 x 2,0
335	18 x 2,5	SKV-18 x 2,5	13	37,0	15,0 x 2,0
305	20 x 2,5	SKV-20 x 2,5	15	44,5	16,3 x 2,4
460	20 x 4,0	SKV-20 x 4,0	12	44,5	16,3 x 2,4
280	22 x 2,5	SKV-22 x 2,5	17	38,5	19,0 x 2,0
294	25 x 3,0	SKV-25 x 3,0	19	49,5	21,3 x 2,4
224	28 x 2,5	SKV-28 x 2,5	23	41,5	25,0 x 2,0
261	38 x 4,0	SKV-38 x 4,0	30	56,5	25,3 x 2,4
182	42 x 3,0	SKV-42 x 3,0	36	47,0	38,0 x 2,5

União Rosca F. BSP/tubo
Female stud coupling



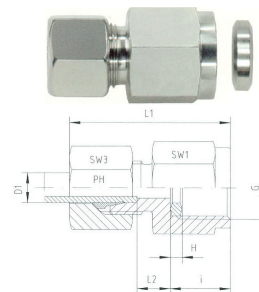
PN	D	Serie	i	Sw1	Sw3	L1	L2
630	10	GAI-S10-G3/8"	17,0	24	19	43,0	26,0
315	12	GAI-L12-G3/8"	17,0	24	22	43,0	26,0
630	16	GAI-S16-G1/2"	20,0	27	30	53,0	31,5

União redução GRV
E



PN	D	Serie	S1	Sw2	Sw3	L	I1
630	10/06	GRV-S 10/06	19	17	22	53,5	48
315	12/06	GRV-L 12/6	19	14	22	48,0	42

União para manometro rosca F/BSP com anilha vedação metálica
Gauge coupling internal threaded BSP parallel with metal sealing ring



PN	D	Serie	i	Sw1	SW3	L	I1
315	6	MV-L-06-G 1/4"	14,5	19	14		37
630	8	MV-S-8-G1/2"	20	27	19		46
630	10	MV-S-10-G1/2"	20	27	22		47

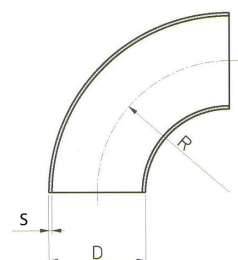
Tubos em aço inoxidável com costura , DIN 11850 - 10/99, EN-ISO 1127, (ISO 2037 Imperial)
Welded stainless steel pipes



OD mm	Epessura mm	Tipo	Kg Weight	
21,30	1,60	ISO 1127	0,790	
23,00	1,50	DIN 11850	0,809	
25,40	1,65	ISO 2037	0,970	
26,90	1,60	ISO 1127	1,010	
29,00	1,50	DIN 11850	1,033	
33,70	2,00	ISO 1127	1,590	
35,00	1,50	DIN 11850	1,258	
38,10	1,65	ISO 2037	1,489	
41,00	1,50	DIN 11850	1,484	
42,40	2,00	ISO 1127	2,020	
48,30	2,00	ISO 1127	2,320	
50,80	1,65	ISO 2037	2,077	
53,00	1,50	DIN 11850	1,934	
60,30	2,00	ISO 1127	2,920	
63,50	1,65	ISO 2037	2,525	
70,00	2,00	DIN 11850	3,405	
76,10	2,00	ISO 1127	3,711	
76,20	1,65	ISO 2037	3,080	
85,00	2,00	DIN 11850	4,157	
88,90	2,30	ISO 1127	4,352	
101,60	2,11	ISO 2037	4,988	
104,00	2,00	DIN 11850	5,108	
114,30	2,30	ISO 1127	6,100	

Curvas 90° com costura aço inoxidável DIN 11850/ ISO 2851

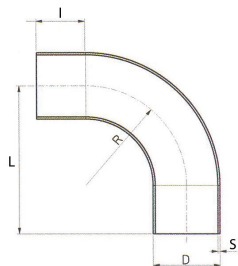
90° Elbow stainless steel, welded execution to DIN 11850/ ISO 2851



D mm	S mm	R		Kg Weight	
21,30	1,60	30,00	ISO 1127	0,030	
23,00	1,50	40,00	D 11850	0,060	
26,90	1,60	29,00	ISO 1127	0,050	
29,00	1,50	50,00	D 11850	0,085	
33,70	2,00	38,00	ISO 1127	0,100	
35,00	1,50	55,00	D 11850	0,110	
41,00	1,50	60,00	D 11850	0,140	
42,40	2,00	47,5	ISO 1127	0,135	
48,30	2,00	57,00	ISO 1127	0,204	
53,00	1,50	70,00	D 11850	0,220	
60,30	2,00	76,00	ISO 1127	0,340	
70,00	2,00	80,00	D 11850	0,410	
76,10	2,00	95,00	ISO 1127	0,545	
85,00	2,00	90,00	D 11850	0,570	
88,90	2,30	114,00	ISO 1127	0,810	
101,60	2,11	100,00	ISO 1127	0,810	
104,00	2,00	100,00	D 11850	0,810	
114,30	2,30	152,50	ISO 1127	1,48	

Curvas 90° com costura DIN 11852/ ISO-2851 com extremidades direitas

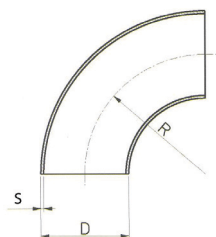
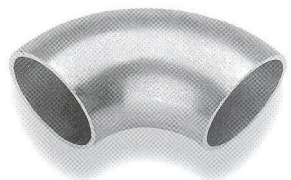
90° elbows welded execution DIN 11852/ ISO 2851, with straight ends



D mm	S mm	R	I	L	Kg/pc Weight	
21,30	1,60	30,0	25	55,0	0,076	
23,00	1,50	40,0	25	56,5	0,085	
26,90	1,60	28,5	40	68,5	0,126	
29,00	1,50	50,0	40	90,0	0,118	
33,70	2,00	38,0	40	78,0	0,222	
35,00	1,50	55,0	40	95,0	0,165	
41,00	1,50	60,0	40	100,0	0,220	
42,40	2,00	47,5	40	87,5	0,313	
48,30	2,00	57,0	40	97,0	0,394	
53,00	1,50	70,0	40	110,0	0,300	
60,30	2,00	76,0	40	116,0	0,584	
70,00	2,00	80,0	40	120,0	0,570	
76,10	2,00	95,0	55	150,0	0,964	
85,00	2,00	90,0	55	145,0	0,800	
88,90	2,30	114,0	55	169,0	1,446	
104,00	2,00	100,0	55	155,0	1,200	
114,30	2,30	152,5	55	207,5	2,250	

Curvas 90° com costura em aço inoxidável US Standard (ISO 2037 Imperial)

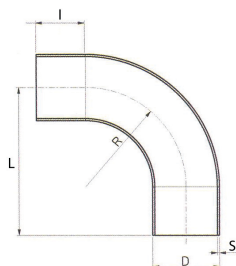
90° Elbow welded stainless steel US standard



OD mm	S mm	R	Kg Weight	
25,40	1,65	38,10	0,058	
38,10	1,65	57,10	0,130	
50,80	1,65	76,20	0,235	
63,50	1,65	95,20	0,370	
76,10	1,65	114,30	0,534	
101,60	2,11	152,40	1,190	

Curvas 90° com costura e extrimidades direitas US Standard (ISO 2037 Imperial)

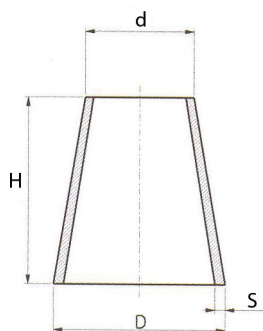
90° Elbow welded stainless steel with straight ends



OD mm	S mm	R	I	L	Kg Weight	
25,40	1,65	38,10	38,1	76,2	0,086	
38,10	1,65	57,20	38,1	95,3	0,183	
50,80	1,65	76,20	44,5	120,7	0,342	
63,50	1,65	95,30	44,5	132,7	0,553	
76,20	1,65	114,30	44,5	158,5	0,809	
101,60	2,11	152,40	50,8	203,2	1,780	

Reduções concêntricas em aço inoxidável, DIN 11865 (ISO1127 Imperial)

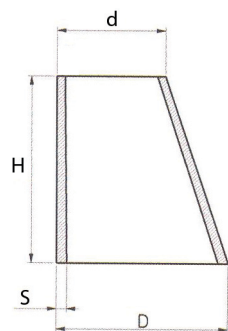
Welded concentric reducer DIN 11865



D x d mm	S mm	H	Kg Weight
38,1 x 25,4	1,65	90	
42,4 x 33,7	2,00	102	
42,4 x 26,9	2,00	102	
48,3 x 33,7	2,00	102	
48,3 x 26,9	2,00	102	
48,3 x 21,3	2,00	102	
50,8 x 38,1	1,65	100	
50,8 x 25,4	1,65	100	
53,0 x 41,0	1,50	90	
53,0 x 35,0	1,50	90	
53,0 x 29,0	1,50	90	
60,3 x 48,3	2,00	114	
60,3 x 33,7	2,00	107	
60,3 x 26,9	2,00	107	
63,5 x 50,8	1,65	100	
70,0 x 53,0	2,00	100	
70,0 x 41,0	2,00	100	
76,1 x 60,3	2,00	124	
76,1 x 48,3	2,00	124	
76,1 x 33,7	2,00	124	
85,0 x 70,0	2,00	100	
85,0 x 53,0	2,00	100	
88,9 x 76,0	2,00	124	
88,9 x 60,3	2,00	124	
88,9 x 48,3	2,00	124	
101,6 x 76,1	2,11	140	
101,6 x 63,5	2,11	140	
101,6 x 50,8	2,11	140	

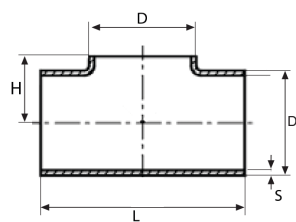
Reduções excêntricas em aço inoxidável, DIN 11865 - ISO1127 (ISO 2037 Imperial)

Welded excentric reducer DIN 11865



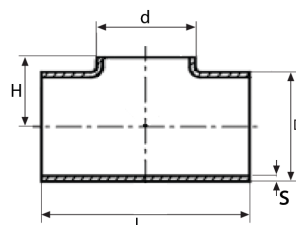
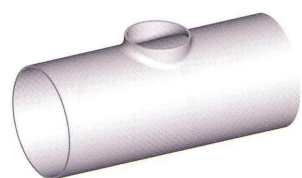
D x d mm	S mm	H	Kg Weight
38,1 x 25,4	1,65	70	
42,4 x 33,7	2,00	80	
42,4 x 26,9	2,00	80	
48,3 x 33,7	2,00	80	
48,3 x 26,9	2,00	80	
48,3 x 21,3	2,00	80	
50,8 x 38,1	1,65	90	
50,8 x 25,4	1,65	100	
53,0 x 41,0	1,50	90	
53,0 x 35,0	1,50	90	
53,0 x 29,0	1,50	90	
60,3 x 48,3	2,00	90	
60,3 x 33,7	2,00	80	
60,3 x 26,9	2,00	100	
63,5 x 50,8	1,65	100	
70,0 x 53,0	2,00	100	
70,0 x 41,0	2,00	100	
76,1 x 60,3	2,00	90	
76,1 x 50,8	1,65	100	
76,1 x 48,3	2,00	90	
76,1 x 33,7	2,00	110	
85,0 x 70,0	2,00	100	
85,0 x 54,0	2,00	100	
88,9 x 76,0	2,00	90	
88,9 x 60,3	2,00	90	
101,6 x 76,1	2,11	110	
101,6 x 63,5	2,00	120	
101,6 x 50,8	2,00	130	

Tês em aço inoxidável com costura , saída curta DIN 11852 - ISO1127 (ISO 2037 Imperial)
Equal welded Tees DIN 11852



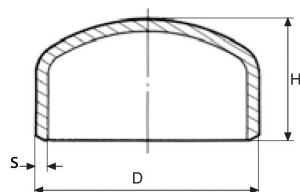
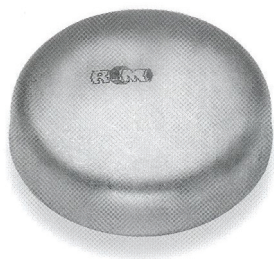
D mm	S mm	L	H	Kg Weight	
21,3	1,60	105	1,5	0,069	
23,0	1,50	80	1,5	0,068	
25,4	1,65	108	1,5	0,070	
26,9	1,60	60	2,0	0,047	
29,0	1,50	100	2,0	0,178	
33,7	2,00	140	2,0	0,110	
35,0	1,50	100	2,0	0,185	
38,1	1,65	127	1,5	0,105	
41,0	1,50	120	2,5	0,190	
42,4	2,00	160	2,5	0,195	
48,3	2,00	170	3,0	0,250	
50,8	1,65	146	3,0	0,244	
53,0	1,50	140	3,0	0,240	
60,3	2,00	180	4,0	0,272	
63,5	1,65	158	4,0	0,502	
70,0	2,00	160	3,5	0,640	
76,1	1,65	171	5,0	0,950	
76,1	2,00	130	5,0	0,465	
85,0	2,00	180	3,5	0,660	
88,9	2,30	160	5,0	0,635	
101,6	2,11	300	5,0	1,370	
104,0	2,00	200	5,0	1,140	
114,3	2,30	200	5,0	1,200	

Tês de redução em aço inoxidável, com costura DIN 11865 - ISO1127 (ISO 2037 Imperial)
Reduced welded Tees DIN 11865

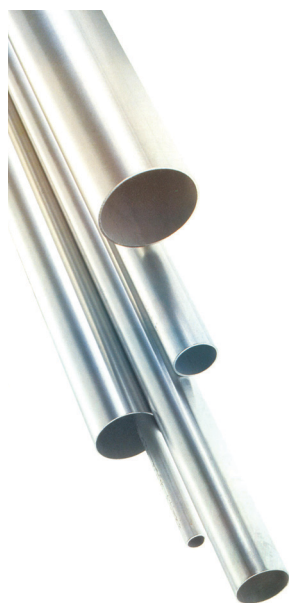


D x d mm	S mm	H mm	Kg Weight	
26,9 x 21,3	1,60	2,0	0,100	
29,0 x 23,0	1,50	2,0	0,175	
33,7 x 26,9	2,00	2,0	0,130	
33,7 x 21,3	2,00	2,0	0,130	
35,0 x 29,0	1,50	2,0	0,190	
35,0 x 23,0	1,50	2,0	0,195	
38,1 x 25,4	1,65	1,5	0,210	
41,0 x 35,0	1,50	2,5	0,192	
41,0 x 29,0	1,50	2,5	0,195	
42,4 x 33,7	2,00	2,5	0,200	
48,3 x 33,7	2,00	3,0	0,290	
48,3 x 26,9	2,00	3,0	0,295	
50,8 x 38,1	1,65	3,0	0,246	
50,8 x 25,4	1,65	3,0	0,248	
53,0 x 41,0	1,50	3,0	0,250	
53,0 x 35,0	1,50	3,0	0,260	
60,3 x 48,3	2,00	4,0	0,280	
60,3 x 33,7	2,00	4,0	0,285	
63,5 x 50,8	1,65	4,0	0,505	
63,5 x 38,1	1,65	4,0	0,510	
70,0 x 53,0	2,00	3,5	0,650	
70,0 x 41,0	2,00	3,5	0,655	
76,2 x 60,3	1,65	5,0	0,940	
76,1 x 48,3	2,00	5,0	0,950	
85,0 x 70,0	2,00	3,5	0,620	
85,0 x 53,0	2,00	3,5	0,650	
88,9 x 76,1	2,00	5,0	0,660	
88,9 x 60,3	2,00	5,0	0,670	
101,6 x 76,2	2,11	5,0	1,390	
101,6 x 63,5	2,11	5,0	1,400	
104,0 x 85,0	2,00	5,0	1,150	
104,0 x 70,0	2,00	5,0	1,180	
114,3 x 88,9	2,30	5,0	1,240	
114,3 x 60,3	2,00	5,0	1,250	

Tampos em aço inoxidável, com costura DIN 11865 - ISO1127 (ISO 2037 Imperial)
Caps DIN 11865

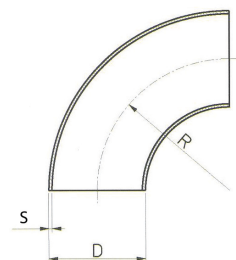


D mm	S mm	H mm	Kg Weight	
26,9	2,0	12,0	0,018	
29,0	1,5	11,5	0,023	
33,7	2,0	15,0	0,023	
41,0	1,5	14,0	0,033	
42,4	2,0	17,0	0,042	
48,3	2,0	21,0	0,050	
50,8	1,65	15,0	0,055	
60,3	2,0	22,0	0,076	
63,5	1,65	18,0	0,075	
70,0	2,0	21,5	0,097	
76,1	2,0	29,0	0,131	
76,2	1,65	20,0	0,097	
85,0	2,0	24,5	0,135	
88,9	3,0	29,0	0,166	
101,6	2,11	25,0	0,187	
104,0	2,0	28,5	0,187	
114,3	3,0	32,0	0,369	

Tubo DIN 17455, D3/T3
 Stainless steel pipe


OD	Espessura	Kg Weight
¹⁾ 13,5	2,35	0,66
17,2	1,60	0,64
¹⁾ 17,2	2,35	0,87
20,0	0,70	0,34
21,3	1,60	0,79
¹⁾ 21,3	2,00	0,97
21,3	2,65	1,22
22,0	1,50	0,77
26,9	1,60	1,01
26,9	2,00	1,25
¹⁾ 26,9	2,65	1,58
30,0	1,50	1,07
33,7	1,60	1,29
33,7	2,00	1,59
¹⁾ 33,7	3,25	2,44
38,0	1,50	1,37
42,4	1,60	1,62
42,4	2,00	2,02
¹⁾ 42,4	3,25	3,14
44,0	2,00	2,10
48,3	1,60	1,87
48,3	2,00	2,32
¹⁾ 48,3	3,25	3,61
54,0	2,00	2,60
60,3	1,60	2,35
60,3	2,00	2,92
¹⁾ 60,3	3,65	5,11
70,0	2,00	3,41
76,1	2,00	3,71
¹⁾ 76,1	3,65	6,53
84,0	2,00	4,11
88,9	2,00	4,35
88,9	2,90	6,24
104,0	2,00	5,11
114,3	2,00	5,62
114,3	3,00	8,36
129,0	2,00	6,39
139,7	2,00	6,90
139,7	2,60	10,27
139,7	3,00	10,30
154,0	2,00	7,64
168,3	2,00	8,33
168,3	2,60	10,79
168,3	3,00	12,42
204,0	2,00	10,15
219,1	2,00	10,87
219,1	3,00	16,23
255,0	2,50	15,71
273,0	2,60	18,30
305,0	2,50	18,85
306,0	3,00	22,62
323,9	3,00	24,11
355,6	3,00	26,50
406,4	3,00	30,30
408,0	4,00	40,21
508,0	4,00	50,48
610,0	5,00	75,50

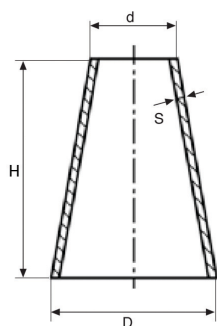
Curva 90° DIN 2605 com costura
But weld fitting



D	S	R	Kg Weight
21,3	2,0	38	0,58
26,9	2,0	28,5	0,06
33,7	2,0	38	0,10
42,4	2,0	47,5	0,15
44,5	2,0	51,0	0,170
48,3	2,0	57,0	0,21
54,0	2,0	68,5	0,280
60,3	2,0	76,0	0,35
70,0	2,0	92,0	0,50
76,1	2,0	95,0	0,56
84,0	2,0	120,0	0,93
88,9	2,0	114,0	0,79
88,9	2,6	114,0	1,05
104,0	2,0	150,0	1,203
114,3	2,0	152,0	1,35
114,3	2,6	152,0	1,60
129,0	2,0	188,0	1,880
139,7	2,0	190,0	2,07
139,7	3,0	190,0	3,08
154,0	2,0	225,0	2,69
168,3	2,0	229,0	3,00
168,3	3,0	229,0	4,50
204,0	2,0	300,0	4,78
219,1	2,0	305,0	5,21
219,1	3,0	305,0	7,80
256,0	3,0	375,0	11,190
273,0	2,0	381,0	8,12
273,0	3,0	381,0	12,20
305,0	2,5	450,0	13,30
306,0	3,0	450,0	14,40
323,9	3,0	457,0	17,30
356,0	3,0	534,0	22,21
406,4	3,0	610,0	29,03
406,4	4,0	610,0	38,60
408,0	4,0	610,0	38,60
508,0	4,0	762,0	60,40
610,0	5,0	914,0	105,0

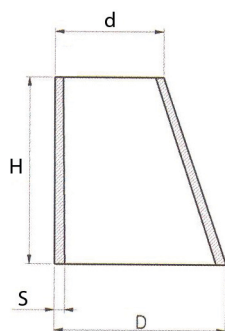
Reduções concentricas DIN 2616 com costura

Concentric reducer DIN 2616 welded execution stainless steel

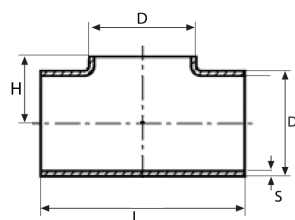


OD D x d	Espessura S	H	Kg Weight
48,3 x 26,9	2,0	64	0,15
48,3 x 33,7	2,0	64	0,18
54,0 x 44,0	2,0	54	0,07
60,3 x 48,3	2,0	76	0,19
60,3 x 33,7	2,0	76	0,24
60,3 x 26,9	2,0	76	0,30
70,0 x 44,0	2,0	65	0,15
76,1 x 33,7	2,0	90	0,46
76,1 x 48,3	2,0	90	0,41
76,1 x 60,3	2,0	90	0,45
84,0 x 70,0	2,0	80	0,17
84,0 x 54,0	2,0	80	0,30
88,9 x 60,3	2,0	90	0,50
88,9 x 48,3	2,0	90	0,50
104,0 x 84,0	2,0	100	0,27
104,0 x 70,0	2,0	100	0,37
104,0 x 54,0	2,0	100	0,44
114,3 x 88,9	2,0	102	0,80
114,3 x 76,1	3,0	102	1,10
114,3 x 60,3	2,0	102	0,85
114,3 x 48,3	2,0	102	0,85
129,0 x 84,0	2,0	125	0,70
129,0 x 70,0	2,0	125	0,80
139,7 x 114,3	2,0	127	1,00
139,7 x 88,9	2,0	127	0,90
139,7 x 88,9	3,0	127	1,30
154,0 x 129,0	2,0	150	0,95
154,0 x 104,0	2,0	150	0,95
154,0 x 84,0	2,0	150	1,22
168,3 x 114,3	2,0	140	1,20
168,3 x 114,3	3,0	140	1,74
168,3 x 88,9	2,0	140	1,20
204,0 x 154,0	2,0	200	1,33
204,0 x 129,0	2,0	200	1,85
204,0 x 104,0	2,0	200	2,28
219,1 x 168,3	2,0	152	2,70
219,1 x 168,3	3,0	152	3,40
219,1 x 114,3	3,0	152	3,60
255,0 x 155,0	2,5	250	3,00
255,0 x 205,0	2,5	250	2,10
273,0 x 219,1	3,0	178	3,02
273,0 x 168,3	3,0	178	5,27
323,9 x 273,0	3,0	203	5,46
323,9 x 219,1	3,0	203	5,80
323,9 x 168,3	3,0	203	6,70
355,6 x 273,0	3,0	330	5,90
355,6 x 219,1	3,0	330	6,50

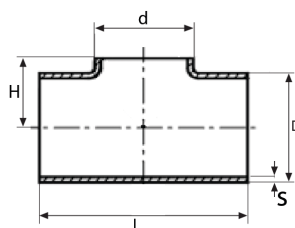
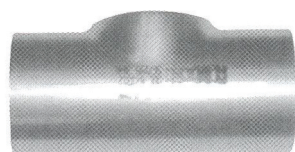
Reduções excentricas DIN 2616 ISO 5251 com costura
Excentric reducer DIN 2616 welded execution stainless steel



D x d	S Thickness	H	Kg Weight
48,3 x 33,7	2,0	64	0,180
60,3 x 48,3	2,0	76	0,210
60,3 x 33,7	2,0	76	0,240
70,0 x 44,0	2,0	65	0,850
76,1 x 48,3	2,0	90	0,410
76,1 x 60,3	2,0	90	0,450
84,0 x 54,0	2,0	89	0,277
88,9 x 60,3	2,0	90	0,500
88,9 x 60,3	3,0	90	0,700
88,9 x 48,3	2,0	90	0,500
104,0 x 84,0	2,0	89	0,472
104,0 x 70,0	2,0	100	0,435
114,3 x 88,9	2,0	100	0,800
114,3 x 88,9	3,0	100	1,100
114,3 x 76,1	2,0	100	0,800
114,3 x 76,1	3,0	100	1,100
114,3 x 60,3	2,0	100	0,850
129,0 x 70,0	2,0	125	0,622
139,7 x 114,3	2,0	127	1,000
139,7 x 88,9	2,0	127	0,900
154,0 x 104,0	2,0	150	0,972
154,0 x 84,0	2,0	150	0,897
168,3 x 114,3	2,0	140	1,200
168,3 x 114,3	3,0	140	1,700
168,3 x 88,9	2,0	140	1,200
168,3 x 88,9	3,0	140	1,700
204,0 x 154,0	2,0	200	1,800
204,0 x 129,0	2,0	200	1,673
204,0 x 104,0	2,0	200	1,547
219,1 x 168,3	3,0	152	3,400
219,1 x 114,3	3,0	152	3,600
255,0 x 155,0	2,5	250	3,220
273,0 x 219,1	3,0	178	2,200
273,0 x 168,3	3,0	178	2,960
306,0 x 206,0	3,0	203	5,788
323,9 x 219,1	3,0	203	4,153
356,0 x 206,0	3,0	330	7,412
356,0 x 168,3	3,0	330	6,514

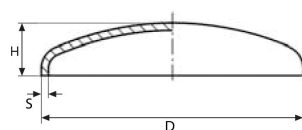
Tê com costura ISO, saída curta
 Equal tee welded execution stainless steel ISO


DN	D mm	S mm	L mm	H mm	Kg/ un.
15	21,3	2,0	51	13	0,44
20	26,9	2,0	57	16	0,63
25	33,7	2,0	76	20	0,107
32	42,4	2,0	95	24	0,179
40	48,3	2,0	114	27	0,242
50	54,0	2,0	100	30	0,218
50	60,3	2,0	100	35	0,345
50	60,3	3,0	100	35	0,509
65	76,1	2,5	130	45	0,550
80	84,0	2,0	160	47	0,680
80	88,9	2,0	160	50	0,680
80	88,9	3,0	160	50	0,970
100	104,0	2,0	200	57	0,954
100	114,3	2,0	200	64	1,100
100	114,3	3,0	200	64	1,642
125	129,0	2,0	250	70	1,423
125	139,7	2,0	250	76	1,50
125	139,7	3,0	250	76	2,254
150	154,0	2,0	300	84	2,150
150	168,3	2,0	300	93	2,200
150	168,3	3,0	300	93	3,130
200	205,0	3,0	400	117	4,760
200	219,1	3,0	400	122	3,400
200	219,1	3,0	400	122	4,910
250	256,0	3,0	500	138	10,000
250	273,0	3,0	500	145	7,600
300	323,9	3,0	600	176	13,400

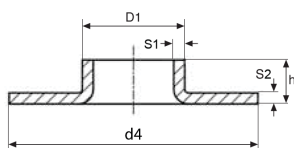
Tê redução com costura ISO aço inoxidável
 Reduced tee welded execution in stainless steel ISO


D	d mm	S mm	L mm	H mm	Kg/ un.
33,7	26,9	2	76	20	0,107
33,7	21,3	2	76	21	0,105
48,3	33,7	2	114	27	0,242
48,3	26,9	2	114	28	0,245
60,3	48,3	2	100	35	0,345
60,3	33,7	2	100	36	0,346
76,1	60,3	2	130	45	0,550
76,1	48,3	2	130	45	0,560
88,9	60,3	2	160	50	0,610
88,9	60,3	3	160	51	0,900
88,9	48,3	2	160	52	0,610
88,9	33,7	2	160	53	0,610
114,3	88,9	3	200	64	1,70
114,3	60,3	3	200	65	1,71
114,3	48,3	3	200	65	1,80
139,7	88,9	2	250	76	1,60
139,7	114,3	2	250	76	1,100
168,3	114,3	3	300	93	3,150
168,3	88,9	3	300	93	3,190
219,1	168,3	3	400	122	4,910
219,1	114,3	3	400	122	4,980

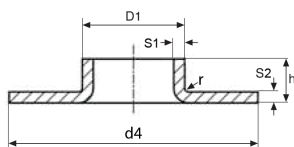
Tampo ISO
Cap ISO



DN	D mm	S mm	H mm	Kg/ un.
15	21,3	2	13	0,020
20	26,9	2	21,3	0,020
25	33,7	2	23	0,030
32	42,4	2	24	0,050
40	48,3	2	25	0,050
50	60,3	2	33	0,120
65	76,1	2,5	36	0,180
80	88,9	2,5	39	0,260
100	114,3	2,5	42	0,460
125	139,7	2,5	46	0,550
150	168,3	3	54	0,950
200	219,1	3	62	1,400
250	273,0	3	72	2,100
300	323,9	3	89	3,000

Colarinho curto de chapa prensada
Stainless steel light press collars


DN	D1	d4 max.	s1 min.	s2 min.	h	Press. MPa	Kg Weight
15	21,3	45	2,0	2,0	6	16	0,028
20	26,9	58	2,0	2,0	8	16	0,040
25	33,7	68	2,0	2,0	9	16	0,051
32	42,4	78	2,0	2,0	10	16	0,07
40	48,3	88	2,0	2,0	10	16	0,082
50	54,0	102	2,0	2,0	12	16	0,12
50	60,3	102	2,0	2,0	12	16	0,110
50	60,3	102	3,0	3,0	12	16	0,161
65	70,0	122	2,0	2,0	12	16	0,154
65	76,1	122	2,0	2,0	12	16	0,145
65	76,1	122	3,0	3,0	12	16	0,217
80	84,0	139	2,0	2,0	13	10	0,20
80	88,9	139	2,0	2,0	12	10	0,19
80	88,9	139	3,0	3,0	13	16	0,280
100	104,0	158	2,0	2,0	16	10	0,22
100	114,3	158	2,0	2,0	16	10	0,215
100	114,3	158	3,0	3,0	17	16	0,330
125	129,0	188	2,0	2,0	15	10	0,313
125	139,7	188	2,0	2,0	16	10	0,280
125	139,7	188	3,0	3,0	17	16	0,420
150	154,0	212	2,0	2,0	18	10	0,38
150	168,3	212	2,0	2,0	18	10	0,318
150	168,3	212	3,0	3,0	18	10	0,477
200	204,0	268	2,0	2,0	20	10	0,543
200	206,0	268	3,0	3,0	20	10	0,82
200	219,1	270	2,0	2,0	20	10	0,48
200	219,1	270	3,0	3,0	22	10	0,70
250	256,0	320	3,0	3,0	25	6	1,070
250	273,0	323	3,0	3,0	20	6	0,835
250	273,0	323	4,0	5,0	22	10	1,113
300	306,0	370	3,0	3,0	21	4	1,300
300	323,9	370	3,0	3,0	20		0,962
300	323,9	370	4,0	5,0	20		1,282
350	356,0	430	3,0	3,0	21		1,870
400	406,4	482	3,0	3,0	21		1,770
400	408,0	482	4,0	4,0	21		2,360
450	457,2	532	4,0	4,0	25		2,790
500	508,0	585	4,0	4,0	25		3,048
600	609,6	685	4,0	4,0	26		3,625

Colarinhos ISO DIN 2642, PN10 forjados
Forged press collars DIN 2642, PN10


DN	D1	d4 max.	s1 min.	s2 min.	r	h	Kg Weight
15	21,3	45	2,0	3,0	3	9	0,05
20	26,9	58	2,0	3,0	3	12	0,06
25	33,7	68	2,0	3,0	4	15	0,09
32	42,4	78	2,0	3,0	4	15	0,11
40	48,3	88	2,0	3,0	4	17	0,12
50	60,3	102	2,6	3,5	5	23	0,22
65	76,2	122	2,6	3,5	5	23	0,28
80	88,9	138	2,6	3,5	5	23	0,38
100	114,3	158	2,6	3,5	5	28	0,45
125	139,7	188	2,6	3,5	5	30	0,64
150	168,3	212	3,0	3,5	5	30	0,70
200	219,1	268	3,6	4,0	5	30	1,30
250	273,0	320	3,6	4,0	5	30	1,70
300	323,9	370	3,6	4,0	5	35	2,00
350	355,6	430	4,0	4,0	6	35	2,50
400	406,4	482	4,0	4,0	7	40	4,00
450	458,0	530	4,0	5,0	7	40	4,50
500	508,0	585	5,0	5,0	7	40	5,00
600	609,6	685	5,0	5,0	7	40	6,20

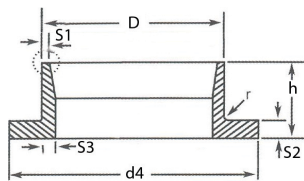
Colarinhos EN 1092-1 tipo 35 - ISO

Welding rings with collars



Colarinhos PN10 EN 1092-1 type 35 - ISO

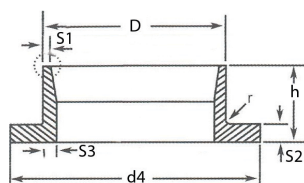
Welding rings with collar



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg
300	323,9	370	68	12	3,6	6,0	3	6,70
350	355,6	430	68	13	3,6	7,0	3	9,5
400	406,4	482	72	14	3,6	8,0	5	11,60
450	457,0	532	72	15	4,0	8,0	5	15,00
500	508,0	585	75	16	5,0	8,0	5	15,90
600	609,6	685	80	18	6,3	10,0	5	23,00
700	711,2	800	80	20	6,3	10,0	5	30,90
800	812,8	905	90	20	8,0	12,0	5	41,50
900	914,4	1005	95	22	8,0	12,0	5	51,20
1000	1016,0	1110	95	24	8,0	12,0	5	62,70
1200	1220,0	1330	115	26	10,0	16,0	5	100,00

Colarinhos PN16 EN 1092-1 type 35 - ISO

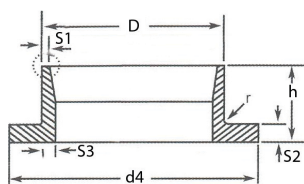
Welding rings with collar



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg
40	48,3	88	42	6	2,0	3,0	3	0,35
50	60,3	102	45	8	2,0	3,0	3	0,53
65	76,1	122	45	8	2,6	4,0	3	0,70
80	88,9	138	50	10	2,6	4,0	3	1,00
100	114,3	158	52	10	3,0	4,0	3	1,30
125	139,7	188	55	10	3,0	5,0	3	1,90
150	168,3	212	55	10	4,0	6,0	3	2,40
200	219,1	268	62	11	4,0	6,0	3	3,90
250	273,0	320	70	12	5,0	8,0	3	5,80
300	323,9	378	78	14	5,0	10,0	3	9,50
350	355,6	438	82	18	5,0	10,0	3	15,20
400	406,4	490	85	20	6,3	12,0	5	19,10
450	457,0	550	85	15	6,0	12,0	5	24,00
500	508,0	610	90	22	8,0	12,0	5	29,10
600	609,6	725	95	20	8,0	12,0	5	40,30
700	711,2	795	100	20	10,0	14,0	5	45,20
800	812,8	900	105	22	12,0	16,0	5	60,00
900	914,4	1000	110	24	12,0	18,0	5	75,60
1000	1016,0	1115	120	32	15,0	20,0	5	106,40

Colarinhos PN25 EN 1092-1 type 35 - ISO

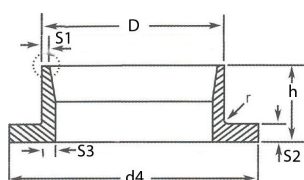
Welding rings with collar



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg
200	219,1	278	80	15	5,0	8,0	3	6,60
250	273,0	335	88	17	6,3	10,0	3	9,80
300	323,9	395	92	20	8,0	10,0	3	15,30
350	355,6	450	100	22	8,0	12,0	3	20,80
400	406,4	505	110	24	8,0	14,0	5	28,60
450	457,2	555	110	26	8,0	15,0	5	34,40
500	508,0	615	135	28	10,0	16,0	5	45,80
600	609,6	720	145	30	12,0	18,0	5	61,40
700	711,0	820	155	30	14,0	20,0	5	85,30
800	813,0	930	170	35	16,0	20,0	5	106,20

Colarinhos PN40 EN 1092-1 type 35 - ISO

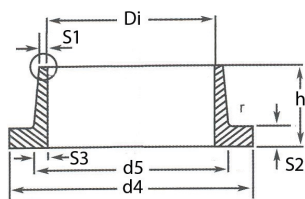
Welding rings with collar



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg
10	17,2	40	35	5	2,0	3	3	0,08
15	21,3	45	38	5	2,6	3	3	0,09
20	26,9	58	40	6	2,6	3	3	0,17
25	33,7	68	40	7	2,6	3	3	0,26
32	42,4	78	42	8	2,6	3	3	0,36
40	48,3	88	45	8	2,6	3	3	0,45
50	60,3	102	48	10	3,2	4	3	0,69
65	76,1	122	52	11	3,2	5	3	1,10
80	88,9	138	58	12	4,0	6	3	1,60
100	114,3	162	65	14	4,0	6	3	2,40
125	139,7	188	68	16	4,0	6	3	3,20
150	168,3	218	75	18	4,0	8	3	4,60
200	219,1	285	88	20	5,0	10	3	8,80
250	273,0	345	105	22	6,3	12	3	14,40
300	323,9	410	115	25	8,0	12	3	20,70
350	355,6	465	125	28	8,0	14	3	30,70
400	406,4	535	135	32	10,0	16	5	45,40

Colarinhos PN10 EN 1092-1 type 35 Metrico

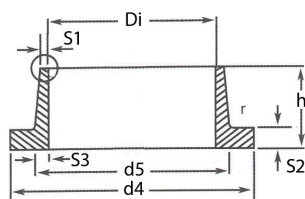
Welding rings with collars



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg
300	370	60	316	12	3,0	8,0	4	6,80
350	430	60	366	12	3,5	8,0	6	9,50
400	482	65	416	12	3,5	9,0	7	11,60
450	532	70	466	15	3,5	9,0	9	15,00
500	585	75	518	15	4,0	10,0	9	15,90
600	685	80	620	15	4,0	10,0	9	23,00
700	800	90	724	15	4,5	12,0	9	30,90
800	905	100	826	15	5,0	13,0	9	41,50
900	1005	110	930	18	6,0	15,0	10,5	50,00
1000	1110	120	1036	18	8,0	18,0	10,5	58,90
1200	1330	130	1236	22	10,0	18,0	12	93,20

Colarinhos PN16 EN 1092-1 type 35 Metrico

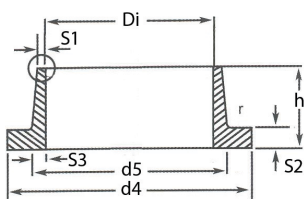
Welding ring with collars



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg
40	88	45	44	6	2,0	2,0	3,5	0,45
50	102	45	54	8	2,0	2,0	4,0	0,53
65	122	45	70	10	2,5	3,0	4,0	0,70
80	138	50	86	10	3,0	3,0	4,0	1,00
100	158	50	108	10	3,0	4,0	4,0	1,30
125	188	50	135	10	3,0	5,0	4,0	1,90
150	212	50	160	10	3,0	5,0	4,0	2,40
200	268	65	214	10	3,0	7,0	4,0	3,90
250	320	65	266	12	3,5	8,0	4,0	5,80
300	370	65	320	12	4,0	10,0	4,0	9,50
350	430	70	370	15	4,5	11,0	7,0	15,20
400	482	80	424	15	5,0	12,0	8,0	18,70
450	532	85	474	15	5,0	12,0	9,0	24,40
500	585	95	524	18	5,0	12,0	10,5	29,10
600	685	100	628	18	6,0	14,0	10,5	40,30
700	795	110	728	20	10,0	15,0	10,5	45,20
800	900	110	832	22	12,0	17,0	10,5	59,90
900	1000	115	936	24	12,0	18,0	12	75,60
1000	1115	130	1036	32	15,0	20,0	12	106,46
1200	1330	130	1244	32	15,0	22,0	12	130,50

Colarinhos PN25 EN 1092-1 type 35 Metrico

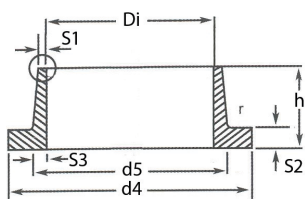
Welding ring with collars



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg
200	278	65	219	12	5,0	9,0	7,0	6,60
250	335	75	274	15	6,5	10,0	8,0	10,20
300	390	80	325	16	7,5	11,5	9,0	15,30
350	450	85	374	18	5,0	13,0	6,0	20,80
400	505	95	427	18	6,0	14,0	7,0	28,60
450	555	105	480	20	8,0	15,0	8,0	34,40
500	615	115	530	22	8,0	15,0	8,0	45,80
600	720	115	636	24	12,0	18,0	9,0	61,00

Colarinhos PN40 EN 1092-1 type 35 Metrico

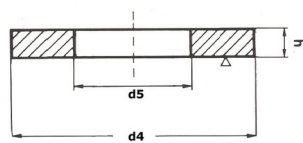
Welding ring with collars



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg
20	58	40	2,6	6	2,5	3,0	5,0	0,17
25	68	40	31,0	6	2,5	3,0	6,0	0,26
32	78	40	37,0	6	2,5	3,5	6,0	0,36
40	88	45	47,0	8	2,5	3,5	6,0	0,45
50	102	45	58,0	8	2,5	4,0	6,0	0,69
65	122	45	74,0	10	2,5	4,5	6,0	1,10
80	138	55	89,0	10	3,0	4,5	6,0	1,60
100	162	55	110,0	10	3,0	5,0	7,0	2,40
125	188	55	137,0	12	3,5	6,0	7,0	3,20
150	218	65	164,0	12	4,0	7,0	7,0	4,60
200	285	85	220,0	20	6,0	10,0	8,0	8,80
250	345	100	274,0	22	8,0	12,0	8,0	14,40
300	410	110	330,0	24	9,0	15,0	8,0	20,70

Aneis para soldar DIN 2642, PN10

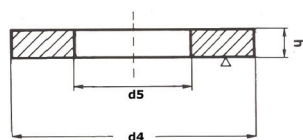
Welding rings DIN 2642, PN10



DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight
DN10 a DN40 ver PN40					
DN50 a DN150 ver PN16					
200	204,0	205,0	268	20	3,100
200	219,1	220,1	268	20	3,100
250	255,0	258,0	320	22	4,220
250	273,0	276,0	320	22	4,220
300	306,0	309,5	370	22	4,850
300	323,9	327,6	370	22	4,850
350	355,6	359,5	430	22	6,710
350	356,0	360,0	430	22	6,710
400	406,4	411,0	482	24	8,280
400	408,0	412,4	482	24	8,280
450	456,0	459,0	532	25	10,200
500	508,0	513,0	585	26	11,500

Aneis para soldar DIN 2654, PN16

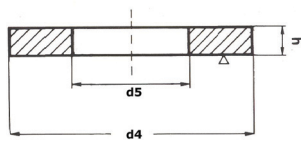
Welding rings DIN 2654, PN16



DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight
DN15 a DN40 usar aneis PN40					
50	54,0	55,0	102	14	0,618
50	60,3	60,8	102	14	0,618
65	70,0	71,5	122	14	0,786
65	76,2	76,6	122	14	0,786
80	84,0	85,0	138	16	1,100
80	88,9	90,3	138	16	1,100
100	104,0	105,0	158	16	1,310
100	114,3	115,5	158	16	1,310
125	129,0	130,0	186	18	1,960
125	139,7	140,7	188	18	1,960
150	154,0	155,0	212	18	2,180
150	168,3	170,0	212	18	2,180
200	204,0	205,0	268	20	3,100
200	219,1	220,1	268	20	3,100
250	255,0	258,0	320	22	4,220
250	273,0	276,0	320	22	4,220
300	306,0	309,5	370	24	4,850
300	323,9	327,6	370	24	4,850
350	355,6	359,5	430	26	6,710
350	356,0	360,0	430	26	6,710
400	406,4	411,0	482	28	8,280
400	408,0	412,4	482	28	8,280
450	456,0	459,0	522	30	10,200
500	508,0	513,0	585	32	11,500

Aneis para soldar DIN 2655, PN25

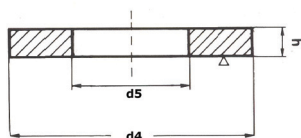
Welding rings DIN 2655, PN25



DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight
DN15 a DN150 usar aneis para soldar DIN 2656 PN40					
200	204,0	206,5	278	24	4,53
200	219,1	221,8	278	24	4,53
250	255,0	257,5	335	26	6,56
250	273,0	276,0	335	26	6,56
300	306,0	309,0	395	28	9,80
300	323,9	327,0	395	28	8,80
350	355,6	359,5	450	32	13,20
350	356,0	359,6	450	32	13,20
400	406,4	411,0	505	34	16,50
400	408,0	409,9	505	34	16,50
500	508,0	512,6	615	38	25,30

Aneis para soldar DIN 2656, PN40

Welding rings DIN 2656, PN40



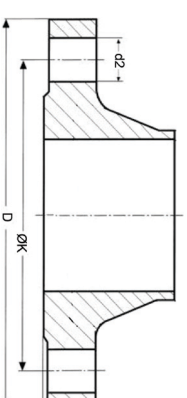
15	20,0	21,0	45	12	0,126
15	21,3	22,0	45	12	0,126
20	25,0	26,0	58	14	0,236
20	26,9	27,6	58	14	0,236
25	30,0	30,7	68	14	0,321
25	33,7	34,4	68	14	0,321
32	38,0	38,7	78	14	0,401
32	42,4	43,1	78	14	0,401
40	44,0	44,7	88	14	0,498
40	48,3	49,0	88	14	0,498
50	54,0	54,8	102	16	0,706
50	60,3	61,1	102	16	0,706
65	70,0	71,0	122	16	0,898
65	76,2	77,1	122	16	0,898
80	88,9	85,0	138	18	1,230
80	88,9	90,3	138	18	1,230
100	104,0	105,5	162	20	1,800
100	114,3	115,9	162	20	1,800
125	129,0	130,5	188	22	2,400
125	139,7	141,5	188	22	2,400
150	154,0	156,0	218	22	3,020
150	168,3	170,5	218	22	3,020
200	204,0	206,5	285	26	5,540
200	219,1	221,8	285	26	5,540
250	255,0	257,5	345	30	8,830
250	273,0	276,2	345	30	8,830
300	306,0	309,0	410	34	14,000
300	323,9	327,6	410	34	14,000
350	355,6	359,5	465	38	18,900
350	356,0	359,6	465	38	18,900
400	406,4	411,0	535	42	28,400
400	408,0	409,5	535	42	28,400

Flanges segundo EN 1092-1 (antes DIN 2501)

Flanges according to EN 10921 - 1 (former DIN 2501)

Principais dimensões das flanges

Main flange dimensions



DN	PN 6				PN 10				PN 16				PN 25				PN 40				DN
	D	ØK	d2	Nº furos	D	ØK	d2	Nº furos	D	ØK	d2	Nº furos	D	ØK	d2	Nº furos	D	ØK	d2	Nº furos	
10	75	50	11	4	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	165	125	18	4	360	310	26	12	90	60	14	4	10
15	80	55	11	4													95	65	14	4	15
20	90	65	11	4													105	75	14	4	20
25	100	75	11	4													115	85	14	4	25
32	120	90	14	4													140	100	18	4	32
40	130	100	14	4	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	150	110	18	4	150	110	18	4	150	110	18	4	40
50	140	110	14	4													165	125	18	4	50
65	160	130	14	4													185	145	18	*8(4)	65
80	190	150	18	4													200	160	18	8	80
100	210	170	18	4													220	180	18	8	100
125	240	200	18	8	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	250	210	18	8	485	430	30	16	270	220	26	8	125
150	265	225	18	8													285	240	22	8	150
200	320	280	18	8													340	295	22	12	200
250	375	335	18	12													395	350	22	12	250
300	440	395	22	12													445	400	22	12	300
350	490	445	22	12	505	460	22	16	520	470	26	16	555	490	33	16	580	510	36	16	350
400	540	495	22	16	565	515	26	16	580	525	30	16	620	550	36	16	660	585	39	16	400
450	595	550	22	16	615	565	26	20	640	585	30	20	670	600	36	20	685	610	39	20	450
500	645	600	22	20	670	620	26	20	715	650	33	20	730	660	36	20	755	670	42	20	500
600	755	705	26	20	780	725	30	20	840	770	36	20	845	770	39	20	890	795	48	20	600
700	860	810	26	24	895	840	30	24	910	840	36	24	960	875	42	24					700
800	975	920	30	24	1015	950	33	24	1025	950	39	24	1085	990	48	24					800
900	1075	1020	30	24	1115	1050	33	28	1125	1050	39	28	1185	1090	48	28					900
1000	1175	1120	30	28	1230	1160	36	28	1255	1170	42	28	1320	1210	56	28					1000

* Conforme última emenda da DIN 2501, as flanges DN65 PN 10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)

Tipos de flanges segundo EN 1092-1 Flanges type according to EN 1092-1



Flange lisa para soldar

Flat welding flange
EN 1092-1 Type 01, PN6 a PN40
(DIN 2573 a 2576)



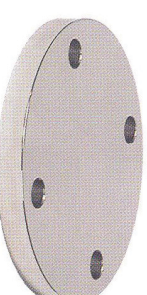
Flange louca

Loose flange
EN 1092-1 Type 02, PN10 a PN40
(DIN 2641, 2642, 2655, 2656)



Flange com colarinho

Welding neck flange
EN 1092-1 Type 11, PN10 a PN160
(DIN 2631, 2632, 2633, 2634, 2635
2636, 2637, 2638, 2628, 2629, 2627)



Flange cega

Blind flange
EN 1092-1 Type 05, PN6 a PN160
(DIN 2527 PN6 a PN160)

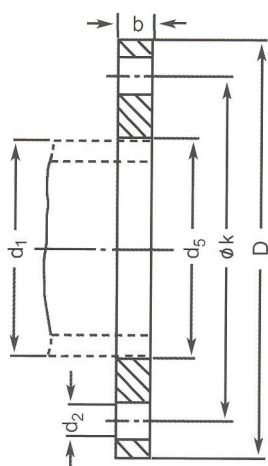


Flange rosca

Threaded flange
EN 1092-1 Type 13, PN10/40
(DIN 2566)

Flanges, forma B, EN 1092-1 Type 01, PN10, (DIN 2576)

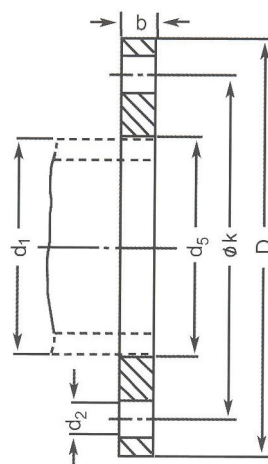
Flanges



DN	Ø Tubo	D	d5	b	k	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40							
DN50 a DN150 ver PN16							
200	219,10	340	221,5	24	295	8 x 22	9,30
250	273,00	395	276,5	26	350	12 x 22	12,00
300	323,90	445	327,5	26	400	12 x 22	14,00
350	355,60	505	359,5	30	460	16 x 22	21,00
400	406,40	565	411,0	32	515	16 x 26	28,00
450	457,00	615	462,0	36	565	20 x 26	34,00
500	508,00	670	513,5	38	620	20 x 26	40,20
600	612,00	780	616,5	42	725	20 x 30	54,50
700	711,00	895	a)	50	840	24 x 30	
800	813,00	1015	a)	56	950	24 x 33	
900	914,00	1115	a)	62	1050	28 x 33	
1000	1016,0	1230	a)	70	1160	28 x 36	
1200	1219,0	1455	a)	83	1380	32 x 39	

Flanges, forma B, EN 1092-1 Type 01, PN16

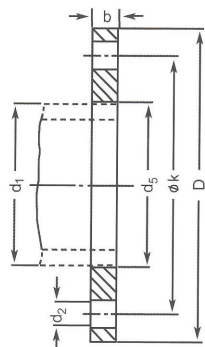
Flanges



DN	Ø Tubo	D	d5	b	k	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40							
50	60,3	165	61,5	20	125	4 x 18	2,80
65	76,1	185	77,5	20	145	8 x 18	3,16
80	88,9	200	90,5	20	160	8 x 18	3,60
100	114,3	220	116,0	22	180	8 x 18	4,40
125	139,7	250	141,5	22	210	8 x 18	5,41
150	168,3	285	170,5	24	240	8 x 22	7,14
200	219,1	340	221,5	26	295	12 x 22	9,73
250	273,0	405	276,5	29	355	12 x 26	14,20
300	323,9	460	327,5	32	410	12 x 26	19,00
350	355,6	520	359,5	35	470	16 x 26	28,20
400	406,4	580	411,0	38	525	16 x 30	36,00
450	457,0	640	462,0	42	585	20 x 30	46,10
500	508,0	715	513,5	46	650	20 x 33	64,00
600	610,0	840	616,5	55	770	20 x 36	102,00
700	711,0	910	a)	63	840	24 x 36	-
800	813,0	1025	a)	74	950	24 x 39	-
900	914,0	1125	a)	82	1050	28 x 39	-
1000	1016,0	1255	a)	90	1170	28 x 42	-

Flanges, forma B, EN 1092-1 Type 01, PN25

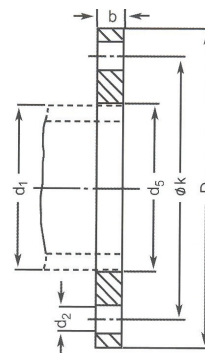
Flanges



DN	Ø Tubo	D	d5	b	k	d2 Furos x Ø	Kg Weight
DN10 a DN150 ver PN40							
200	219,1	360	221,5	32	310	12 x 26	14,30
250	273,0	425	276,5	35	370	12 x 30	20,10
300	323,9	485	327,5	38	430	16 x 30	26,60
350	355,6	555	359,5	42	490	16 x 33	41,80
400	406,4	620	411,0	48	550	16 x 36	57,60
450	457,0	670	462,0	54	600	20 x 36	69,80
500	508,0	730	513,5	58	660	20 x 36	87,00
600	610,0	845	616,5	68	770	20 x 39	127,00
700	711,0	960	a)	85	875	24 x 42	-
800	813,0	1085	a)	95	990	24 x 48	-

Flanges, forma B, EN 1092-1 Type 01, ISO PN40

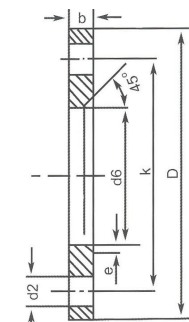
Flanges



DN	Ø Tubo	b	D	k	d5	d2 Furos x Ø	Kg Weight
10	17,2	14	90	60	18,0	4 x 14	0,60
15	21,3	14	95	65	22,0	4 x 14	0,67
20	26,9	16	105	75	27,5	4 x 14	0,94
25	33,7	16	115	85	34,5	4 x 14	1,11
32	42,4	18	140	100	43,5	4 x 18	1,82
40	48,3	18	150	110	49,5	4 x 18	2,08
50	60,3	20	165	125	61,5	4 x 18	2,73
65	76,1	22	185	145	77,5	8 x 18	3,48
80	88,9	24	200	160	90,5	8 x 18	4,32
100	114,3	26	235	190	116,0	8 x 22	6,07
125	139,7	28	270	220	141,5	8 x 26	8,19
150	168,3	30	300	250	170,5	8 x 26	10,30
200	219,1	36	375	320	221,5	12 x 30	17,90
250	273,0	42	450	385	276,5	12 x 33	29,30
300	323,9	52	515	450	327,5	16 x 33	45,10
350	355,6	58	580	510	359,5	16 x 36	66,70
400	406,4	65	660	585	411,0	16 x 39	97,10

Flanges loucas, EN 1092-1 Tipo 02 PN10, (DIN 2642)

Loose flanges



DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40								
DN50 a DN150 ver PN16								
200	204,00	340,0	211	20	295	5	8 x 22	8,90
200	219,10	340,0	226	20	295	5	12 x 22	8,87
250	254,00	395,0	262	22	350	5	12 x 22	11,30
250	273,00	395,0	281	22	350	5	12 x 22	11,30
300	306,00	445,0	315	26	400	5	12 x 22	13,00
300	323,90	445,0	333	26	400	6	12 x 22	13,00
350	356,00	505,0	365	28	450	6	16 x 22	14,40
400	408,00	565,0	416	32	515	6	16 x 26	26,50
450	457,20	615,0	467	38	565	6	20 x 26	32,60
500	508,00	670,0	519	38	620	6	20 x 26	38,50
600	610,00	780,0	622	44	725	6	20 x 30	52,30

Flanges loucas, EN 1092-1 Tipo 02 PN16

Loose flanges

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight
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DN10 a DN40 ver PN40

50	54,0	165	58,5	20	125	5	4 x 18	2,60
50	60,3	165	65,0	20	125	6	4 x 18	2,52
65	70,0	185	75,0	20	145	6	8 x 18	2,93
65	76,1	185	81,0	20	145	6	8 x 18	3,10
80	84,0	200	89,0	20	160	6	8 x 18	3,50
80	88,9	200	94,0	20	160	6	8 x 18	3,50
100	104,0	220	110,0	22	180	6	8 x 18	4,25
100	114,3	220	120,0	22	180	6	8 x 18	4,20
125	129,0	250	134,0	22	210	6	8 x 18	5,30
125	139,7	250	145,0	22	210	6	8 x 18	5,21
150	154,0	285	160,0	24	240	6	8 x 22	6,98
150	168,3	285	174,0	24	240	6	8 x 22	6,90
200	204,0	340	210,0	26	295	6	12 x 22	9,40
200	219,1	340	226,0	26	295	6	12 x 22	9,31
250	254,0	405	262,0	29	355	8	12 x 26	13,80
250	273,0	405	281,0	29	355	8	12 x 26	13,75
300	306,0	460	315,0	32	410	8	12 x 26	18,30
300	323,9	460	333,0	32	410	8	12 x 26	18,00
350	355,6	520	365,0	35	470	8	16 x 26	27,00
400	406,4	580	416,0	38	525	8	16 x 30	34,60
450	457,0	640	467,0	42	585	8	20 x 30	44,60
500	508,0	715	519,0	46	650	8	20 x 33	62,00

Flanges loucas galvanizadas, EN 1092-1 Tipo 02 PN25

Loose flanges hot dipped galvanized

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight
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DN10 a DN150 ver PN40

200	206,0	360	212,0	32	310	6	12 x 26	13,85
200	219,1	360	226,0	32	310	6	12 x 26	13,80
250	256,0	425	264,0	35	370	8	12 x 30	19,48
250	273,1	425	281,0	35	370	8	12 x 30	19,40
300	306,0	485	315,0	38	430	8	16 x 30	25,80
300	323,9	485	333,0	38	430	8	16 x 30	25,50
350	355,6	555	365,0	42	490	8	16 x 35	40,50
400	406,4	620	416,0	48	550	8	16 x 36	56,10
450	457,0	670	467,0	54	600	8	20 x 36	67,80
500	508,0	730	519,0	58	660	8	20 x 36	84,60

Flanges loucas, EN 1092-1 Tipo 02 ISO PN40

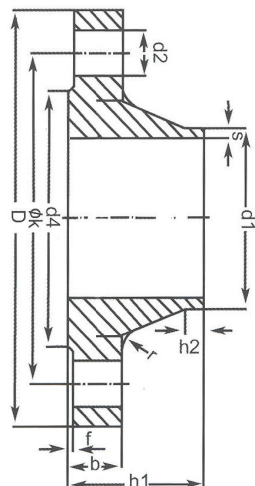
Loose flanges

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight
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10	17,2	90	21,0	14	60	3	4 x 14	0,59
15	21,3	95	25,0	14	65	3	4 x 14	0,65
20	26,9	105	31,0	16	75	4	4 x 14	0,91
25	33,7	115	38,0	16	85	4	4 x 14	1,08
32	42,4	140	47,0	18	100	5	4 x 18	1,77
40	48,3	150	53,0	18	110	5	4 x 18	2,02
50	54,0	165	58,5	20	125	5	8 x 18	2,70
50	60,3	165	65,0	20	125	6	8 x 18	2,65
65	70,0	185	75,0	22	145	8	8 x 18	3,42
65	76,1	185	81,0	22	145	8	8 x 18	3,36
80	84,0	200	89,0	24	160	8	8 x 18	4,25
80	88,9	200	94,0	24	160	8	8 x 18	4,18
100	104,0	235	110,0	26	190	8	8 x 22	5,95
100	114,3	235	120,0	26	190	8	8 x 22	5,87
125	130,0	270	135,0	28	220	8	8 x 26	8,10
125	139,7	270	145,0	28	220	8	8 x 26	7,95
150	156,0	300	162,0	30	250	8	8 x 26	10,20
150	168,3	300	174,0	30	250	8	8 x 26	10,10
200	208,0	375	214,0	36	320	8	12 x 30	17,80
200	219,1	375	226,0	36	320	8	12 x 30	17,50
250	260,0	450	268,0	42	385	8	12 x 33	28,50
250	273,1	450	281,0	42	385	8	12 x 33	28,40
300	310,0	515	320,0	52	450	8	16 x 33	43,70
300	323,8	515	333,0	52	450	8	16 x 33	43,60
350	355,6	580	365,0	58	510	8	16 x 36	64,90
400	406,4	660	416,0	65	585	8	16 x 39	95,10

Flanges com colarinho, forma C, EN 1092-1 Type 11, PN10

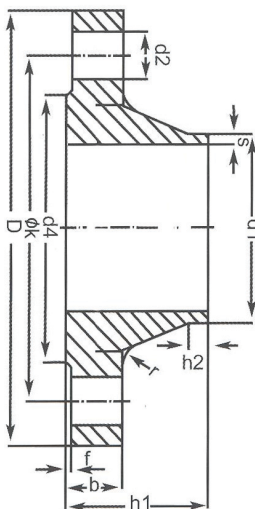
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40											
DN50 a DN150 ver PN16											
200	219,10	6,3	340	24	295	62	16	268	3	8 x 22	11,30
250	273,00	6,3	395	26	350	68	16	320	3	12 x 22	16,00
300	323,90	7,1	445	26	400	68	16	370	4	12 x 22	18,00
350	355,60	7,1	505	26	460	68	16	430	4	16 x 22	25,60
400	406,40	7,1	565	26	515	72	16	482	4	16 x 26	30,60
450	457,00	7,1	615	28	565	72	16	532	4	20 x 26	51,00
500	508,00	7,1	670	28	620	75	16	585	4	20 x 26	40,50
600	610,00	8,0	780	30	725	82	18	685	5	20 x 30	53,00
700	711,00	8,8	895	35	840	85	18	800	5	24 x 30	76,00
800	813,00	8,8	1015	38	950	96	18	905	5	24 x 33	102,00
900	914,00	12,5	1115	38	1050	99	20	1005	5	28 x 33	121,00
1000	1016,00	12,5	1230	44	1160	105	20	1110	5	28 x 36	161,00

Flanges com colarinho, EN 1092-1 Type 11, forma C, PN16 (DIN 2633)

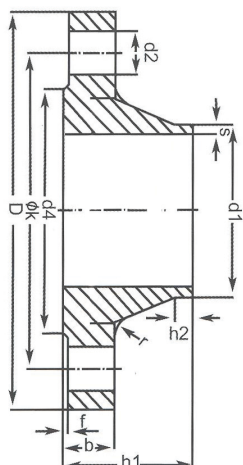
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40											
50	60,30	2,9	165	18	125	45	8	102	3	4 x 18	2,53
65	76,10	2,9	185	18	145	45	10	122	3	8 x 18	3,06
80	88,90	3,2	200	20	160	50	10	138	3	8 x 18	3,70
100	108,00	3,6	220	20	180	52	12	158	3	8 x 18	4,62
100	114,30	3,6	220	20	180	52	12	158	3	8 x 18	4,61
125	139,70	4,0	250	22	210	55	12	188	3	8 x 18	6,25
150	168,30	4,5	285	22	240	55	12	212	3	8 x 22	7,75
200	219,10	6,3	340	24	295	62	16	268	3	12 x 26	11,00
250	273,00	6,3	405	26	355	70	16	320	3	12 x 26	15,60
300	323,90	7,1	460	28	410	78	16	378	4	12 x 26	22,00
350	355,60	8,0	520	30	470	82	16	438	4	16 x 26	32,20
400	406,40	8,0	580	32	525	85	16	490	4	16 x 30	39,30
450	457,00	8,0	640	34	585	83	16	550	4	20 x 30	46,10
500	508,00	8,0	715	36	650	84	16	610	4	20 x 33	61,00
600	610,00	10,0	840	40	770	88	18	725	5	20 x 36	75,40
700	711,00	10,0	910	40	840	104	18	795	5	24 x 36	87,40
800	813,00	12,5	1025	41	950	108	20	900	5	24 x 39	109,00
900	914,00	12,5	1125	48	1050	118	20	1000	5	28 x 39	129,00
1000	1016,00	12,5	1255	59	1170	137	22	1115	5	28 x 42	175,00

Flanges com colarinho, forma C, EN 1092-1 Tipo 11 PN25 (DIN 2634)

Welding neck flanges

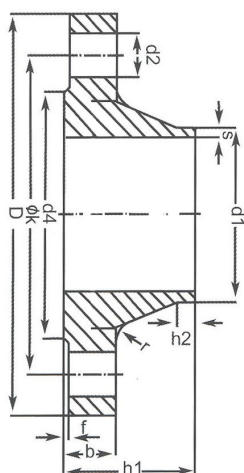


DN10 a DN150 ver PN40

DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight
200	219,1	6,3	360	30	310	80	16	278	3	12 x 26	17,0
250	273,0	7,1	425	32	370	88	18	335	3	12 x 30	24,4
300	323,9	8,0	485	34	430	92	18	395	4	16 x 30	31,8
350	355,6	8,0	555	38	490	100	20	450	4	16 x 33	48,8
400	406,4	8,8	620	40	550	110	20	505	4	16 x 36	63,3
450	457,0	8,8	670	46	600	110	20	555	4	20 x 36	76,0
500	508,0	10,0	730	48	660	125	20	615	4	20 x 36	97,0
600	610,0	11,0	845	48	770	125	20	720	4	20 x 39	121,0
700	711,0	14,2	960	50	875	129	20	820	5	24 x 42	155,0
800	813,0	16,0	1085	53	990	138	22	930	5	24 x 48	205,0
900	914,0	17,5	1185	57	1090	148	24	1030	5	24 x 48	249,0
1000	1016,0	20,0	1320	63	1210	160	24	1140	5	24 x 56	338,0

Flanges com colarinho, forma C, EN 1092-1 Tipo 11 PN40, (DIN 2635)

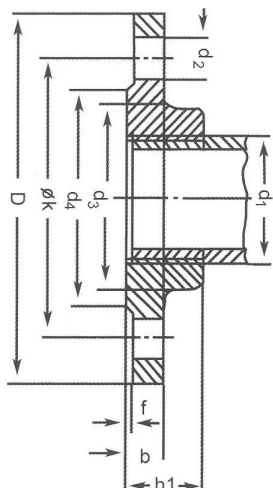
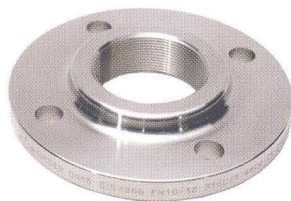
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight
15	21,30	2,0	95	16	65	38	6	45	2	4 x 14	0,77
20	26,90	2,3	105	16	75	40	6	58	2	4 x 14	1,09
25	33,70	2,6	115	18	85	40	6	68	2	4 x 14	1,29
32	42,40	2,6	140	18	100	42	6	78	2	4 x 18	1,88
40	48,30	2,6	150	18	110	45	7	88	2	4 x 18	2,15
50	60,30	2,9	165	20	125	48	8	102	3	4 x 18	2,85
65	76,10	2,9	185	22	145	52	10	122	3	8 x 18	3,70
80	88,90	3,2	200	24	160	58	12	138	3	8 x 18	4,80
100	114,30	3,6	235	24	190	65	12	162	3	8 x 22	6,50
125	139,70	4,0	270	26	220	68	12	190	3	8 x 26	8,90
150	168,30	4,5	300	28	250	75	12	218	3	8 x 26	11,80
200	219,10	6,3	375	34	320	88	16	285	4	12 x 30	21,50
250	273,00	7,1	450	38	385	105	18	345	4	12 x 33	34,90
300	323,90	8,0	515	42	450	115	18	410	4	16 x 36	48,00
350	355,60	8,8	580	46	510	125	20	465	4	16 x 36	69,30
400	406,40	11,0	660	50	585	135	20	535	4	16 x 39	98,80
450	457,00	12,5	685	57	610	135	20	560	4	20 x 39	105,00
500	508,00	14,2	755	57	140	140	20	615	4	20 x 42	130,00
600	610,00	16,0	890	72	150	150	20	735	4	20 x 48	209,00

Flanges roscadas EN 1092-1 Tipo 13 (PN10/16), (DIN 2566)

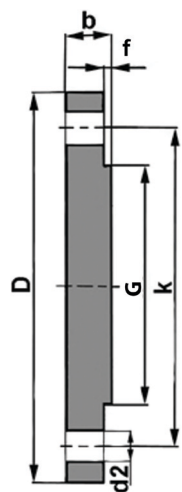
Threaded flanges



DN	PN	Rosca	D	b	k	h1	f	d2 Furos x Ø	Kg Weight
15	10/40	R 1/2"	95	14	45	20	2	4 x 14	0,77
20	10/40	R 3/4"	105	16	58	24	2	4 x 14	1,09
25	10/40	R 1"	115	16	68	24	2	4 x 14	1,30
32	10/40	R 1 1/4"	140	16	78	26	2	4 x 18	1,91
40	10/40	R 1 1/2"	150	16	88	26	2	4 x 18	2,15
50	10/40	R 2"	165	18	102	28	3	4 x 18	2,55
65	10/40	R 2 1/2"	185	18	122	32	3	8 (4) x 18	3,08
80	10/16	R 3"	200	20	138	34	3	8 x 18	4,12
100	10/16	R 4"	220	20	158	38	3	8 x 18	4,47
125	10/16	R 5"	250	22	188	40	3	8 x 18	6,13
150	10/16	R 6"	285	22	212	44	3	8 x 22	7,01

Flanges cegas EN 1092 - 1 Tipo 05/A, PN10, (DIN 2527)

Blind flanges



DN	D	b	k	G	f	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40							
DN50 a DN150 ver PN16							
200	340	24	295	268	3	8 x 22	16,50
250	395	26	350	324	3	12 x 22	24,70
300	445	26	400	374	4	12 x 22	30,80
350	505	26	460	434	4	16 x 22	40,00
400	565	26	515	482	4	16 x 26	50,00
450	615	28	565	534	4	20 x 26	63,00
500	670	28	620	588	4	20 x 26	75,20
600	780	34	725	695	4	20 x 30	124,00
700	895	38	840	804	5	24 x 30	183,00
800	1015	48	950	910	5	24 x 33	297,00
900	1115	50	1050	1010	5	28 x 33	374,00
1000	1230	54	1160	1118	5	28 x 36	492,00

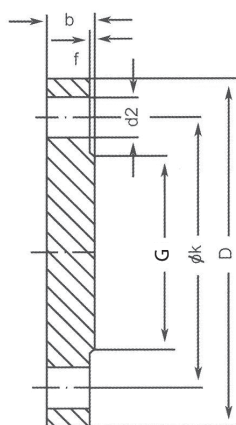
Flanges cegas EN 1092-1 Type 05/A, PN16

Blind flanges

DN	D	b	k	G	f	d2 Furos x Ø	Kg Weight
DN10 a DN40 ver PN40							
50	165	18	125	102	3	4 x 18	2,88
65	185	18	145	122	3	8 x 18	3,66
80	200	20	160	138	3	8 x 18	4,77
100	220	20	180	158	3	8 x 18	5,65
125	250	22	210	188	3	8 x 18	8,42
150	285	22	240	212	3	8 x 22	10,5
200	340	24	295	268	4	12 x 22	16,5
250	405	26	355	320	4	12 x 26	25,0
300	460	28	410	378	4	12 x 26	36,0
350	520	30	470	438	4	16 x 26	48,0
400	580	32	525	490	4	16 x 30	63,5
450	640	40	585	550	4	20 x 30	96,6
500	715	44	650	610	4	20 x 33	133,0
600	840	54	770	725	4	20 x 36	226,0
700	910	58	840	795	5	24 x 36	285,0
800	1025	62	950	900	5	24 x 39	388,0
900	1125	64	1050	1000	5	28 x 39	483,0
1000	1255	68	1170	1115	5	28 x 42	640,0

Flanges cegas EN 1092 - 1 Tipo 05/A PN25, (DIN 2527 PN25)

Blind flanges

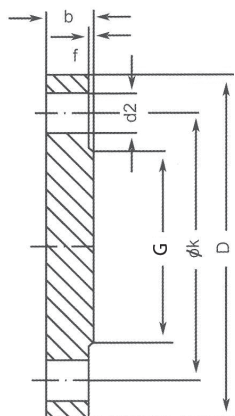


DN	D	b mm	k	G	f	d2 N° Furos x Ø	Kg Weight
DN10 a DN150 ver PN40							
200	360	30	310	278	3	12 x 26	22,70
250	425	32	370	335	3	12 x 30	34,00
300	485	34	430	395	4	16 x 30	46,30
350	555	38	490	450	4	16 x 33	68,10
400	620	40	550	505	4	16 x 36	90,00
450	670	50	600	555	4	20 x 36	130,00
500	730	51	660	615	4	20 x 36	160,00
600	845	66	770	720	5	20 x 39	278,00
700	960	a)	875	820	5	24 X 42	-
800	1085	a)	990	930	5	24 X 48	-

a) A determinar entre fabricante e utilizador.
To be decided by the manufacturer and user.

Flanges cegas EN 1092-1 Tipo 05 PN40, (DIN 2527 PN40)

Blind flanges



DN	D	b mm	k	G	f	d2 N° furos x Ø	Kg Weight
15	95	16	65	45	2	4 x 14	0,81
20	105	18	75	58	2	4 x 14	1,14
25	115	18	85	68	2	4 x 14	1,38
32	140	18	100	78	2	4 x 18	2,03
40	150	18	110	88	2	4 x 18	2,35
50	165	20	125	102	3	4 x 18	3,20
65	185	22	145	122	3	8 x 18	4,29
80	200	24	160	138	3	8 x 18	5,54
100	235	24	190	162	3	8 x 22	7,60
125	270	26	220	190	3	8 x 26	10,80
150	300	28	250	218	3	8 x 26	14,60
200	375	36	320	285	4	12 x 30	28,80
250	450	38	385	345	4	12 x 33	44,50
300	515	42	450	410	4	16 x 33	64,30
350	580	46	510	465	4	16 x 36	90,00
400	660	50	585	535	4	16 x 39	127,00
450	685	57	610	560	4	20 x 39	154,00
500	755	57	670	615	4	20 x 42	190,00
600	890	72	795	735	4	20 x 48	331,00

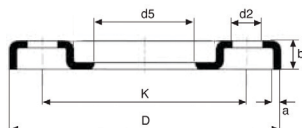
Flanges em chapa prensada de aço inoxidável

Stainless steel press plate lap joint flanges



Flanges loucas PN10 a 200 °C, DIN 2642

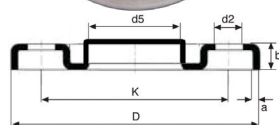
Pressed loose flange



DN	d1 mm	D mm	d5	k mm	a mm	b mm	d2 Furos x Ø	Kg Weight
25	33,7	115	37	85	3	16,0	4 x 13,5	0,30
32	42,4	140	46	100	3	16,5	4 x 18	0,45
40	48,3	150	54	110	4	17,5	4 x 18	0,62
50	54,0	165	59	125	4	19,5	4 x 18	0,90
50	60,3	165	65	125	4	19,5	4 x 18	0,90
65	70,0	185	75	145	5	21,0	4 x 18	1,20
65	76,1	185	81	145	5	21,0	4 x 18	1,20
80	84,0	200	94	160	5	22,0	8 x 18	1,30
80	88,9	200	94	160	5	22,0	8 x 18	1,30
100	104	220	109	180	6	23,0	8 x 18	1,75
100	114,3	220	119	180	6	23,0	8 x 18	1,75
125	129,0	250	134	210	6	25,0	8 x 18	2,20
125	139,7	250	145	210	6	25,0	8 x 18	2,20
150	154,0	285	160	240	6	27,0	8 x 22	2,70
150	168,3	285	173	240	6	27,0	8 x 22	2,70
200	204,0	340	210	295	8	31,0	8 x 22	4,60
200	219,1	340	225	295	8	31,0	8 x 22	4,60
250	256,0	295	262	350	8	31,0	8 x 22	6,10
250	273,0	395	279	350	8	31,0	12 x 22	6,10
300	323,9	445	329	400	8	34,0	12 x 22	7,70
350	355,6	505	363	460	8	36,0	16 x 22	7,50
400	406,4	565	414	515	8	38,0	16 x 26	9,20

Flanges roscadas PN16 a 200 °C, DIN 2566

Pressed threaded flange



DN	d5 mm	D mm	k mm	a mm	b mm	d2 Furos x Ø	Kg Weight
25	1"	115	85	3	16	4 x 13,5	0,45
32	1 1/4"	140	100	3	16	4 x 17,5	0,70
40	1 1/2"	150	110	4	17,5	4 x 17,5	0,80
50	2"	165	125	4	19,5	4 x 17,5	1,20
65	2 1/2"	185	145	4	21,0	4 x 17,5	1,60
80	3"	200	160	5	22,0	8 x 17,5	1,90
100	4"	220	180	6	23,0	8 x 17,5	2,30

Flanges loucas aço AISI 304, com colarinho PN16 DIN 2542

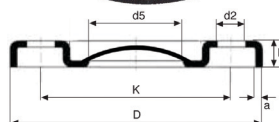
Loose flange with collar



DN	d1 mm	D mm	k mm	a mm	H mm	b mm	d2 Furos x Ø	Kg
25	33,7	115	85	3	38	16,0	4 x 13,5	0,50
32	42,4	140	100	3	40	16,5	4 x 17,5	0,70
40	48,3	150	110	4	42	17,5	4 x 17,5	0,93
50	60,3	165	125	4	45	19,5	4 x 17,5	1,30
65	76,1	185	145	4	45	21,0	4 x 17,5	1,80
80	88,9	200	160	5	50	22,0	8 x 17,5	2,00
100	114,3	220	180	6	52	23,0	8 x 17,5	2,95
125	139,7	250	210	6	55	25,0	8 x 17,5	3,50
150	168,3	285	240	6	55	27,0	8 x 21,5	4,20

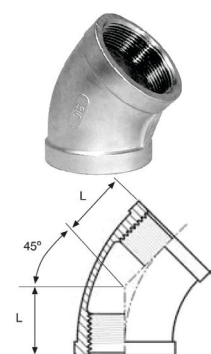
Flanges cegas PN10 200° C, DIN 2527

Blind flanges



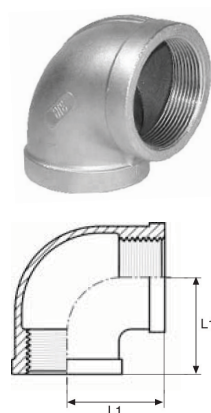
DN	D mm	k mm	a mm	b mm	d2 Furos x Ø	Kg
25	115	85	3	16,0	4 x 13,5	0,46
32	140	100	3	16,5	4 x 17,5	0,76
40	150	110	4	17,5	4 x 17,5	0,85
50	165	125	4	19,5	4 x 17,5	1,30
65	185	145	4	21,0	4 x 17,5	1,70
80	200	160	5	22,0	8 x 17,5	2,00
100	220	180	6	23,0	8 x 17,5	2,50
125	250	210	6	25,0	8 x 17,5	3,40
150	285	240	6	27,0	8 x 21,5	4,15

Joelho 45° F/F, AISI 316 / CF8M
Elbow 45° F/F



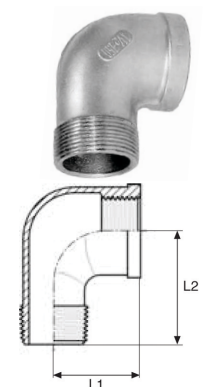
Size	L	Kg Weight	
1/2"	22	0,177	
3/4"	25	0,168	
1"	28	0,255	
1 1/4"	33	0,350	
1 1/2"	36	0,450	
2"	43	0,710	

Joelho 90° F/F, AISI 316 / CF8M
90° F/F elbow



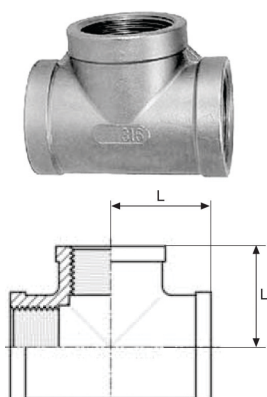
Size	L1	Kg Weight	
1/4"	19,5	0,037	
3/8"	24,0	0,055	
1/2"	29,0	0,110	
3/4"	32,0	0,150	
1"	37,5	0,275	
1 1/4"	43,5	0,400	
1 1/2"	48,0	0,512	
2"	55,5	0,754	
2 1/2"	67,0	1,692	

Joelho 90° M/F, AISI 316 / CF8M
90° Street elbow



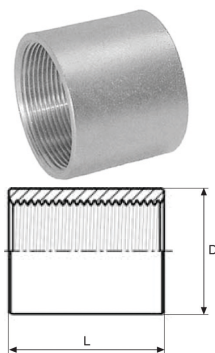
Size	L1	L2	Kg Weight	
1/4"	21	30	0,038	
3/8"	25	35	0,061	
1/2"	28	40	0,110	
3/4"	33	47	0,160	
1"	38	54	0,262	
1 1/4"	44	62	0,430	
1 1/2"	47	68	0,540	
2"	59	79	0,817	

Tê F/F/F AISI 316 / CF8M
Equal tee F/F/F



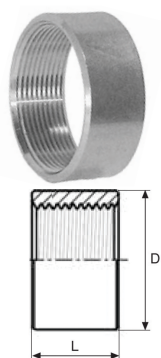
Size	L	Kg Weight	
1/4"	20,0	0,054	
3/8"	23,6	0,085	
1/2"	29,0	0,144	
3/4"	33	0,210	
1"	38	0,360	
1 1/4"	45	0,500	
1 1/2"	48	0,700	
2"	56,5	1,010	

União simples, AISI 316 / CF8M
 Coupling socket



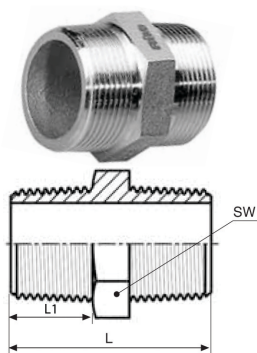
Size	L	D	Kg Weight
1/4"	25	18,5	0,030
3/8"	26	21,3	0,033
1/2"	34	26,5	0,065
3/4"	36	32,0	0,084
1"	43	39,0	0,145
1 1/4"	48	49,0	0,204
1 1/2"	48	55,0	0,242
2"	56	66,5	0,350
2 1/2"	65	82,0	0,506
3"	71	95,0	0,700

Meia união M/M, AISI 316 / CF8M
 Half socket



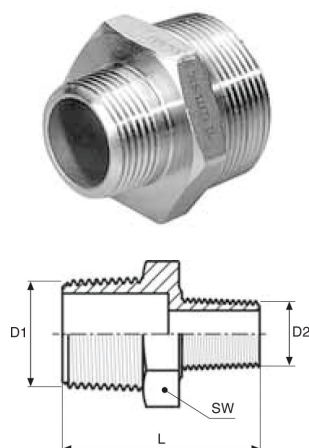
Size	L	D	Kg Weight
1/4"	15	18,5	0,012
3/8"	16,5	21,3	0,015
1/2"	18	26,5	0,028
3/4"	20,5	32,0	0,038
1"	23,5	39,5	0,060
1 1/4"	26,5	49,0	0,091
1 1/2"	26,5	55,0	0,108
2"	29,5	66,5	0,158
2 1/2"	31	82,0	0,233
3"	34,5	95,0	0,305
4"	38	122	0,560

Casquilho sextavado M/M, AISI 316 / CF8M
 Hexagonal nipple



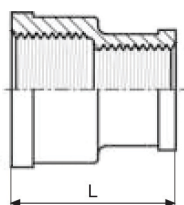
Size	L	L1	SW	Kg Weight
1/4"	33,0	13,0	15	0,028
3/8"	33,0	13,0	20	0,047
1/2"	41,0	16,5	23	0,080
3/4"	44,0	18,0	29	0,109
1"	49,0	20,5	36	0,174
1 1/4"	52,0	22,0	46	0,247
1 1/2"	52,0	22,2	51	0,371
2"	58,0	25,0	63	0,530
2 1/2"	63,0	28,0	79,5	1,141
3"	69,0	30,5	95	1,366
4"	80,0	36,0	120	1,900

Casquilho sextavado de redução
 Reducing hexagonal nipple



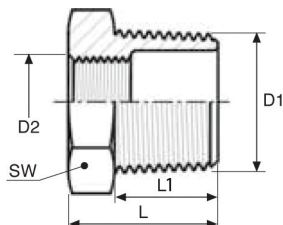
Size	L	SW	Kg Weight
1/2" x 3/8"	40	26	0,080
1/2" x 1/4"	40	26	0,078
3/4" x 1/2"	45	32	0,115
3/4" x 3/8"	42	32	0,100
1" x 3/4"	51	38	0,175
1" x 1/2"	48	38	0,180
1 1/4" x 1"	54	46	0,260
1 1/4" x 3/4"	55	46	0,265
1 1/2" x 1 1/4"	58	54	0,360
1 1/2" x 1"	55	54	0,350
1 1/2" x 3/4"	53	54	0,360
2" x 1 1/2"	64	63	0,500
2" x 1"	60	63	0,530
2 1/2" x 2"	74	80	0,850
2 1/2" x 1 1/2"	70	80	0,830

União redução F/F, AISI 316 / CF8M
Reducing coupling



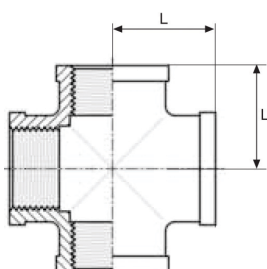
Size	L	Kg Weight	
1/4" x 1/8"	28,5	0,030	
1/2" x 3/8"	45	0,104	
1/2" x 1/4"	45	0,105	
3/4" x 1/2"	45	0,140	
1" x 3/4"	50	0,235	
1" x 1/2"	50	0,234	
1 1/4" x 1"	50	0,340	
1 1/2" x 1 1/4"	57	0,434	
1 1/2" x 1"	57	0,436	
2" x 1 1/2"	57	0,660	

Porca de redução M/F, AISI 316 / CF8M
Hexagonal bushing M/F



Size	L	L 1	SW	Kg Weight	
1/2" x 3/8"	25,5	20	26	0,059	
1/2" x 1/4"	25,5	20	26	0,059	
3/4" x 1/2"	26,5	20	32	0,091	
3/4" x 3/8"	26,5	20	32	0,091	
1" x 3/4"	33,5	25,5	38	0,153	
1" x 1/2"	33,5	25,5	38	0,153	
1 1/4" x 1"	34,0	26,0	46	0,220	
1 1/4" x 1/2"	34,0	26,0	46	0,220	
1 1/2" x 1 1/4"	36,0	26,0	52	0,293	
1 1/2" x 1"	36,0	26,0	52	0,293	
1 1/2" x 3/4"	36,0	26,0	52	0,300	
2" x 1 1/2"	36,0	26,0	63,0	0,456	
2" x 1 1/4"	36,0	26,0	63,0	0,480	
2" x 1"	36,0	26,0	63,0	0,500	
2 1/2" x 2"	49,0	37,0	80	0,827	
2 1/2" x 1 1/2"	49,0	37,0	80	0,827	

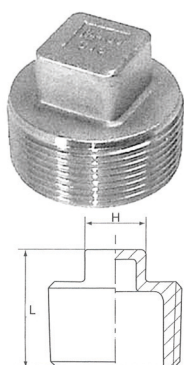
Cruzeta F/F/F/F, AISI 316 / CF8M
Crosse



Size	L	Kg Weight	
1/4"	19,0	0,083	
3/8"	23,0	0,167	
1/2"	29,0	0,220	
3/4"	32,5	0,325	
1"	37,5	0,540	

Bujão macho, cabeça quadrada, AISI 316 / CF8M

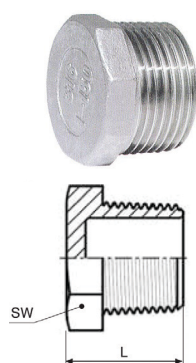
Square head plugs



Size	L	H	Kg Weight
1/4"	19	9	0,018
3/8"	20	10	0,028
1/2"	23	13	0,031
3/4"	30	18	0,070
1"	33	19	0,100
1 1/4"	39	23	0,160
1 1/2"	40	26	0,208
2"	45	29	0,312

Bujão cabeça sextavada, AISI 316 / CF8M

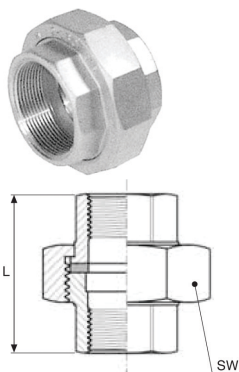
Hexagonal head plug



Size	L	SW	Kg Weight
1/4"	23	17	0,028
3/8"	23,5	21	0,035
1/2"	27	26	0,048
3/4"	28	32	0,088
1"	34	38	0,116
1 1/4"	35	46	0,188
1 1/2"	36	52	0,265
2"	37,5	65	0,395

Junção F/F, sede plana, AISI 316 / CF8M

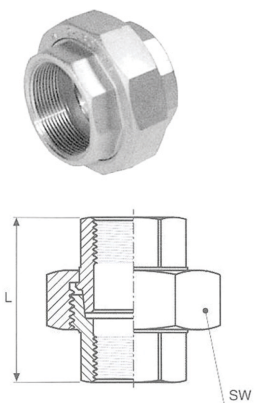
Union F/F, flat seat



Size	L	SW	Kg Weight
1/4"	37,5	29	0,114
3/8"	38,0	36	0,177
1/2"	42	41	0,220
3/4"	50,4	49	0,332
1"	48	58	0,503
1 1/4"	59	68	0,704
1 1/2"	65	77	0,871
2"	69	92	1,386
2 1/2"	80	109	2,067

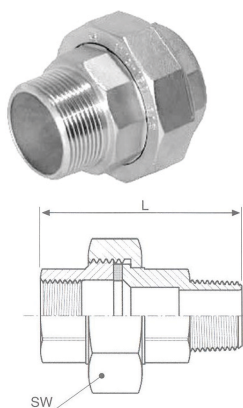
Junção F/F sede cônica, AISI 316 / CF8M

Union F/F conical seat



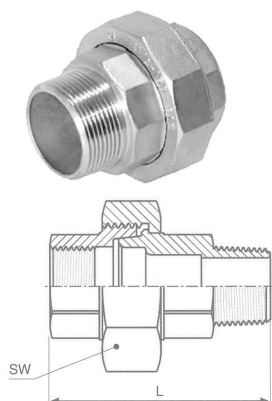
Size	L	SW	Kg Weight
1/4"	37,5	29	0,114
3/8"	38,0	36	0,177
1/2"	42	41	0,220
3/4"	50,4	49	0,332
1"	48	58	0,503
1 1/4"	59	68	0,704
1 1/2"	65	77	0,871
2"	69	92	1,386
2 1/2"	80	109	2,067
3"	88	125	2,980
4"	108	156	4,817

Junção M/F, sede plana, AISI 316 / CF8M
Union M/F, flat seat



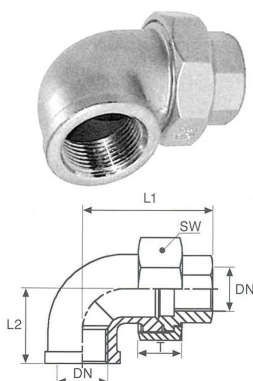
Size	L	SW	Kg Weight
1/4"	53	29	0,129
3/8"	57	36	0,207
1/2"	62	41	0,260
3/4"	66	49	0,400
1"	72	58	0,567
1 1/4"	78	68	0,800
1 1/2"	81	77	1,017
2"	88	92	1,510
2 1/2"	100	109	2,353
3"	119	125	3,486

Junção M/F, sede cônica, AISI 316 / CF8M
Union M/F, conical seat



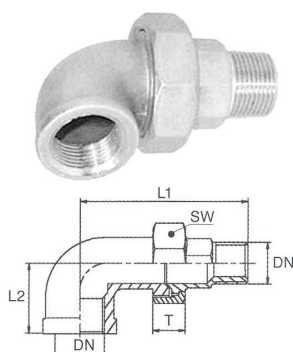
Size	L	SW	Kg Weight
1/4"	53	29	0,129
3/8"	57	36	0,207
1/2"	62	41	0,260
3/4"	66	49	0,400
1"	72	58	0,567
1 1/4"	78	68	0,800
1 1/2"	81	77	1,017
2"	88	92	1,510
2 1/2"	100	109	2,353
3"	119	125	2,486

Joelho junção 90° F/F, AISI 316 / CF8M
Union elbow 90° F/F



Size DN	L1	L2	SW	Kg Weight
1/2"	56	28	42	0,30
3/4"	62,7	33	47	0,43
1"	68,0	38	53	0,70
1 1/4"	79,5	45	71	0,92
1 1/2"	88,0	50	78	1,10
2"	93,8	58	92	1,71

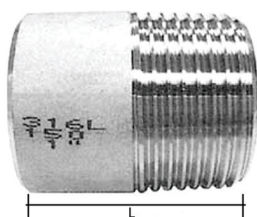
Joelho junção 90° M/F, AISI 316 / CF8M
Union elbow 90° M/F



Size DN	L1	L2	SW	Kg Weight
1/2"	71	28	42	0,34
3/4"	78,7	33	47	0,50
1"	88,4	38	53	0,80
1 1/4"	102,9	45	71	1,13
1 1/2"	110,3	50	77	1,35
2"	119,4	58	92	2,00

Ponta rosca/ soldar, AISI 316 / CF8M

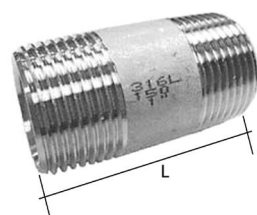
Welding nipple



Size	L mm	Kg Weight	
3/8"	30	0,020	
1/2"	35	0,036	
3/4"	40	0,055	
1"	40	0,084	
1 1/4"	50	0,135	
1 1/2"	50	0,161	
2"	50	0,203	

Ponta rosca/rosca, AISI 316 / CF8M

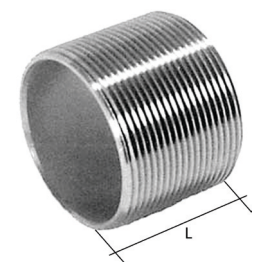
Barrel nipple



Size	L mm	Kg Weight	
3/8"	40	0,025	
1/2"	60	0,058	
3/4"	60	0,078	
1"	60	0,118	
1 1/4"	80	0,213	
1 1/2"	80	0,243	
2"	100	0,394	
2 1/2"	100	0,799	
3"	120	1,100	

Ponta rosca paralela, AISI 316 / CF8M

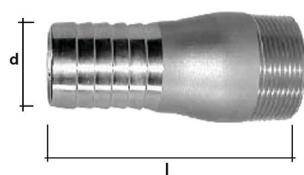
Parallel nipple



Size	L mm	Kg Weight	
3/8"	22	0,013	
1/2"	25	0,030	
3/4"	30	0,040	
1"	35	0,060	
1 1/4"	38	0,110	
1 1/2"	38	0,120	
2"	45	0,200	

Ponteira em tubo, AISI 316 / CF8M

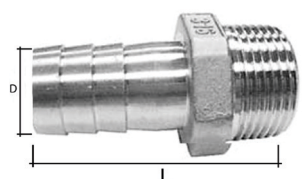
Pipe hose nipple



Size	d mm	L mm	Kg Weight	
3/8"	42	42	0,050	
1/2"	43	43	0,055	
3/4"	60	60	0,080	
1"	70	70	0,120	
1 1/4"	75	75	0,200	
1 1/2"	80	80	0,290	
2"	95	95	0,410	

Ponteira para mangueira, AISI 316 / CF8M

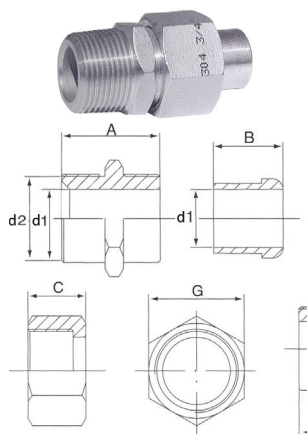
Hose nipple



Size	d mm	L mm	Kg Weight	
1/4"	8,0	46,5	0,031	
3/8"	10,0	51,5	0,045	
1/2"	13,5	62,5	0,08	
3/4"	19,5	72,5	0,140	
1"	25,5	82,0	0,200	
1 1/4"	32,5	87,0	0,300	
1 1/2"	38,5	92,5	0,375	
2"	50,5	109,5	0,650	

União compacta roscada para soldar

B



Size	L	A	B	C	G	d1	d2	Kg Weight
1/4"	45	29	19	15	17	7	10,5	0,070
3/8"	50,5	31	21	17	21	9	14	0,100
1/2"	58	37	23	19	24	13	18	0,150
3/4"	62,5	41	24	21	32	18	23	0,230
1"	67,5	44	26	23	38	23	29,5	0,350
1 1/4"	80	55	28	25	50	29	38	0,500
1 1/2"	80	55	28	25	54	35	44	0,600
2"	97,5	63	39	29	70	44	55,5	0,950
2 1/2"	121,5	83	44	40	85	57	71	1,400

Curva 90°, AISI 316 / CF8M

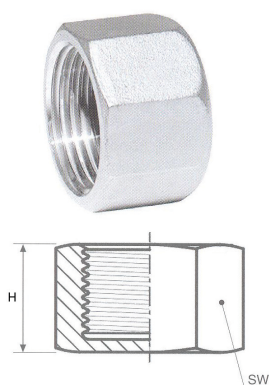
Bend 90°



Size	OD	L	Kg Weight
1/2"	21,3	95	0,23
3/4"	26,9	100	0,35
1"	33,7	140	0,61
1 1/4"	42,4	140	0,93
1 1/2"	48,3	160	1,18
2"	60,3	190	1,95

Tampão fêmea hexagonal, AISI 316 / CF8M

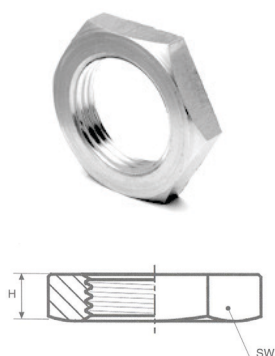
Hexagonal cap



Size	H	SW	Kg Weight
1/4"	20	18	0,030
3/8"	21	20	0,033
1/2"	22,5	26	0,073
3/4"	23	32	0,100
1"	26	39	0,170
1 1/4"	28,5	49	0,240
1 1/2"	32	55	0,380
2"	35	66	0,470

Porca sextavada, AISI 316 / CF8M

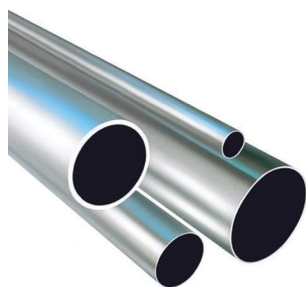
Hexagonal lock - nut



Size	H	SW	Kg Weight
1/4"	8,5	22	0,021
3/8"	9,0	27	0,030
1/2"	9,0	32	0,043
3/4"	10,0	36	0,050
1"	11,0	46	0,095
1 1/4"	12,0	55	0,136
1 1/2"	13,0	60	0,154
2"	13,5	75	0,252

Tubos soldados longitudinalmente em aço inoxidável AISI 304L

Welded stainless steel pipes DIN 2463 or EN1127, D3/ T3

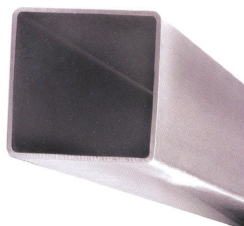


Size mm	Espessura mm	Kg Weight	
15,00	1,00	0,333	
16,00	1,00	0,376	
18,00	1,00	0,41	
20,00	1,00	0,476	
20,00	1,50	0,695	
21,30	1,50	0,744	
21,30	2,00	0,967	
21,30	2,50	1,177	
22,00	1,00	0,526	
22,00	1,50	0,770	
25,00	1,00	0,601	
25,00	1,50	0,883	
28,00	1,00	0,676	
28,00	1,50	1,000	
30,00	1,50	1,070	
30,00	2,00	1,400	
32,00	1,50	1,146	
32,00	2,00	1,847	
35,00	1,00	1,850	
35,00	1,50	1,258	
38,00	1,50	1,370	
40,00	1,50	1,446	
40,00	2,00	1,903	
42,40	1,50	1,503	
48,30	1,60	1,870	
48,30	2,00	2,319	
50,00	1,50	1,822	
50,00	2,00	2,404	
50,80	1,50	1,852	



Tubos quadrados em aço inoxidável

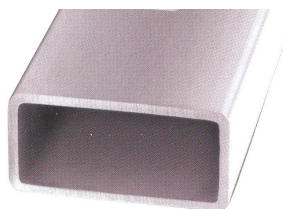
Square hollow sections



Size A x B mm	Espessura mm	Kg Weight	
10 x 10	1,0	0,300	
15 x 15	1,0	0,463	
20 x 20	1,2	0,745	
25 x 25	1,5	1,164	
30 x 30	1,2	1,136	
30 x 30	1,5	1,409	
30 x 30	2,0	1,853	
40 x 40	1,2	1,526	
40 x 40	1,5	1,897	
40 x 40	2,0	2,504	
50 x 50	1,5	2,385	
50 x 50	2,0	3,155	
60 x 60	2,0	3,806	
80 x 80	2,0	5,108	

Tubos rectangulares em aço inoxidável

Square hollow sections



Size A x B mm	Espessura mm	Kg Weight	
25 x 15	1,5	0,920	
30 x 20	1,5	1,164	
40 x 20	1,5	1,409	
50 x 25	1,5	1,775	
50 x 30	1,5	1,897	
50 x 30	2,0	2,504	
60 x 30	1,5	2,141	
60 x 30	2,0	2,830	
80 x 40	2,0	3,806	
100 x 50	2,0	4,783	

Tubos flexíveis tipo RS 321 S12 em aço AISI 316 com trança AISI 304
Flexible corrugated hose type RS 321 S12 stainless steel 316 with braiding

DN	Ø ext. sem malha mm	Ø interior mm	Raio min. curv. mm fixo / dinâmico	Press. bar 1 trança	Kg/m Weight	
8	13,50	8,31	35 / 125	160	0,195	
10	15,70	10,20	40 / 130	125	0,215	
12	18,20	12,20	45 / 140	80	0,240	
20	28,30	20,20	70 / 170	50	0,465	
25	34,20	25,50	85 / 190	50	0,745	
32	43,00	34,20	105 / 260	40	0,905	
40	52,00	40,10	130 / 300	40	1,340	
50	62,60	50,40	160 / 320	32	1,610	
65	80,60	65,40	200 / 460	40	2,720	
80	101,20	80,20	240 / 700	32	3,960	
100	121,20	100,20	290 / 750	25	4,580	
125	148,20	126,20	500 / 1000	19	5,240	
150	177,00	150,50	700 / 1300	13	10,000	

Temperaturas com extremidades por compressão - 100 °C / +250 °C.

Temperaturas com soldadura TIG por compressão - 170 °C / +600 °C.

Acessórios para tubos flexíveis inoxidáveis
Fittings for flexible corrugated stainless steel

