

NOXEL

POWERING YOUR BUSINESS

Cupro - Niquel
Aço Inoxidável

Copper Nickel and Stainless Steel
According to EN DIN Rules

Pipes - Fittings - Flanges

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Tubos em Cupro-Níquel 90/10 (Cu Ni 10 Fe 1,6 Mn)
 Pipes made from Copper-Nickel

Lista 2012



DN mm	D x S	di	Kg Weight	DN mm	D x S	Di	Kg Weight
3/8"	16 x 1,0	14	0,42	12"	323,9 x 4,0	315,9	35,94
	16 x 2,0	12	0,79		323,9 x 5,0	313,9	44,78
1/2"	20 x 1,0	18	0,53		323,9 x 5,5	312,9	49,18
	20 x 2,0	16	1,01		323,9 x 7,0	309,9	62,30
3/4"	25 x 1,5	22	0,99	14"	368 x 4,0	360,0	40,89
	25 x 2,5	20	1,30		368 x 5,5	357,0	56,00
1"	30 x 1,5	27	1,20		368 x 6,5	355,0	65,99
	30 x 2,5	25	1,93		368 x 8,0	352,0	80,89
1 1/4"	38 x 1,5	35	1,54	16"	419,1 x 4,0	411,1	46,62
	38 x 2,5	33	2,50		419,1 x 6,0	407,1	69,60
1 1/2"	44,5 x 1,5	41,5	1,81		419,1 x 7,0	415,1	81,00
	44,5 x 2,5	39,5	2,95		419,1 x 9,0	401,1	103,64
2"	57 x 1,5	54	2,34	20"	508 x 4,5	499,0	63,63
	57 x 2,5	52	3,83		508 x 6,5	495,0	91,55
2 1/2"	76,1 x 2,0	72,1	4,16		508 x 8,5	493,0	119,24
	76,1 x 2,5	71,1	5,17		508 x 11,0	488,0	153,34
3"	88,9 x 2,0	84,9	4,88	24"	610 x 5,0	600,0	84,96
	88,9 x 2,5	83,9	6,07		610 x 8,0	594,0	135,26
4"	108 x 2,5	103	7,41		610 x 10,5	589,0	176,79
	108 x 3,0	102	8,85		610 x 13	584,0	217,97
6"	159 x 2,5	154	10,99	28"	711 x 6,0	699,0	118,86
	159 x 3,0	153	13,14		711 x 9,0	693,0	177,45
	159 x 3,5	152	15,29		711 x 12,0	687,0	235,58
8"	219,1 x 3,0	213,1	18,21		711 x 15,0	681,0	293,22
	219,1 x 3,5	212,1	21,19	32"	813 x 6,0	801,0	135,99
	219,1 x 4,0	211,1	24,17		813 x 10,0	793,0	225,53
	219,1 x 4,5	210,1	27,17		813 x 13,5	786,0	303,14
10"	267 x 3,0	261	22,24		813 x 17,0	779,0	380,06
	267 x 4,0	259	29,55	36"	914 x 8,0	898,0	203,57
	267 x 4,5	258	33,18		914 x 11,0	889,0	278,98
	267 x 5,5	256	40,39		914 x 15,5	883,0	391,14
					914 x 19,0	876,0	477,60

Acessórios em Cupro - Níquel 90/10 (Cu Ni 10 Fe 1,6 Mn)
 Pipes fittings made from Copper-Nickel 90/10

Acessórios

Butt welding fittings

Lista

Inner Flanges type S OD 20 until 914 mm	90° LR/SR Elbows OD 20 until 914 mm	Equal and reduced Tees OD 20 until 610	Outer flanges PN10/ PN16 DIN 2642, OD 20 until 914 galv. carbon steel alt. G-CuSn10 (Bz)	Blind flange cladding disc	Slip-on Flange OD 16 until 108
Welding collar OD 25 until 219	30° - 45° - 60° LR/SR Elbows DN25-984	Concentric reducer OD 20 until 914	Excentric reducer OD 20 x 16 until 914 x 813	End Cap OD 30 until 914	Saddles OD 20 until 914

Acessórios

All pipe connections for Brazing or threaded

Lista

Curvas 45° 45° Elbows	Redução concentrada Concentric reduction	Tampo Cap	União Coupling	Tê Equal tee	Entrada Bosse

 Para mais informação sobre outros acessórios, consulte-nos.
 For more information for other fittings, please ask.

Seleção dos tubos em Cupro-Níquel em função do diâmetro e pressão segundo EEMUA 144-87
Copper-Nickel pipes selection according to diameter and pressure according to EEMUA 144-87

Lista



Copper - Nickel alloy tubes for application in:

- Ship-building
- Sea water tubes
- Apparatus engineering
- Fittings - stamped parts

Outside diameter of pipe			10 bar		14 bar		16 bar		20 bar	
			Wall thickness	Theoret. weight	Wall thickness	Theoret. weight	Wall thickness	Theoret. weight	Wall thickness	Theoret. weight
nominal	actual									
inch	ND									
1/8"		10		0,26		0,26		0,26		0,26
1/4"		12		0,31		0,31	1,0	0,31	1,0	0,31
3/8"	10	16	1,0	0,42	1,0	0,42	2,0	0,79	2,0	0,79
1/2"	15	20		0,53		0,53		1,01		1,01
3/4"	20	25		0,99		0,99		1,30		1,30
1"	25	30		1,20		1,20		1,93		1,93
1 1/4"	32	38	1,5	1,54	1,5	1,54		2,50		2,50
1 1/2"	40	44,5		1,81		1,81	2,5	2,95	2,5	2,95
2"	50	57		2,34		2,34		3,83		3,83
2 1/2"	65	76,1	2,0	4,16	2,0	4,16		5,17		5,17
3"	80	88,9		4,88	2,5	6,07		6,07		6,07
4"	100	108		7,41		7,41		8,85	3,0	8,85
5"	125	133	2,5	9,16	3,0	10,95	3,0			10,95
6"	150	159		10,99		13,14		13,14	3,5	15,29
8"	200	219,1	3,0	18,21	3,5	21,19	4,0	24,17	4,5	27,12
10"	250	267		22,24	4,0	29,55	4,5	33,18	5,5	40,39
12"	300	323,9		35,94	5,0	44,78	5,5	49,18	7,0	62,30
14"	350	368	4,0	40,89	5,5	56,00	6,5	65,99	8,0	80,89
16"	400	419,1		46,62	6,0	69,60	7,0	81,00	9,0	103,64
Seamless or seam welded										
18"	450	457,2	4,0	50,91	6,0	76,03	8,0	100,93	9,5	119,45
20"	500	508	4,5	63,63	6,5	91,55	8,5	119,24	11,0	153,34
Seam welded										
24"	600	610	5,0	84,96	8,0	135,26	10,5	176,79	13,0	217,97
28"	700	711	6,0	118,80	9,0	177,45	12,0	235,58	15,0	293,22
32"	800	813		135,99	10,0	225,53	13,5	303,14	17,0	380,06
36"	900	914	8,0	203,57	11,0	278,98	15,5	391,14	19,0	477,60

Podemos também fornecer tubos e acessórios em Cupro-Níquel 90/10 ou 70/30 segundo normas ANSI-B36.19 - 55 - 105 - 40S - 80S. We can supply also pipes and fittings made from Copper Nickel 90/10 or 70/30 according to ANSI-B36.19 - 55 - 105 - 40S - 80S.



Comparação das diferentes normas internacionais

Comparison of standard specifications for NAVINIC -10 90/10 (CuNi 10 Fe 1,6 Mn)

Lista

	NAVINIC-10 (CuNi 90/10)	DIN 17664 2.0872	DIN 86019 2.1975	BS 2871 Cn 102	EEMUA 144-1987 UNS C 7060 x	MIL-T-16420K ASTM B 466 -C 70600	JIS H 3300 C 7060 T
Ni %	10,0 - 11,0	9,0-11,0	9,0-11,0	10,0-11,0	10,0-11,0	9,0-11,0	9,0-11,0
Fe %	1,5-1,8	1,5-1,8	1,5-1,8	1,0-2,0	1,5-2,0	1,0-1,8	1,0-1,8
Mn %	0,6 - 1,0	0,5-1,0	0,5-1,0	0,5-1,0	0,5-1,0	max. 1,0	0,2-1,0
C %	max. 0,05	max. 0,05	max. 0,05	max. 0,05	max. 0,05	max. 0,05	-
Pb %	max. 0,01	max. 0,03	max. 0,01	max. 0,01	max. 0,01	max. 0,02	max. 0,05
S %	max. 0,005	max. 0,02	max. 0,005	max. 0,05	max. 0,02	max. 0,02	-
P %	max. 0,02	max. 0,02	max. 0,02	-	max. 0,02	max. 0,02	-
Zn %	max. 0,05	max. 0,50	max. 0,05	-	max. 0,20	max. 0,50	max. 0,50
other imp.	max. 0,10	max. 0,30	max. 0,20	max. 0,30	max. 0,30	-	-
Cu %	rem.	rem.	rem.	rem.	rem.	Min 86,5	+Ni+Fe+Mn
Zr %	Max 0,03						min. 99,5

* CuNi 70/30

Podemos também fornecer tubos e acessórios na qualidade NAVINIC-30 (CuNi 70/30).

We can supply also pipes and fittings according to NAVINIC-30 (CuNi 70/30).

Além das ligas acima mencionadas podemos fornecer outras ligas, assim como barras, chapas e espelhos para permutadores furados ou não.

We can supply also other copper alloys, bars, sheet and plates, for heat exchangers drill or in blank.

Sumidouros, caleiras, tubos, acessórios, grelhas, sifões, separadores de gorduras

Material

Aço inoxidável 1.4401 (AISI 316 L)

Aço inoxidável AISI 304 L

Vedantes

EPDM (-40° a +100°C)

NBR (-30° a + 80°C)

FPM (-25° a +200°C)

Dimensões dos tubos

Diâmetros desde Ø50 até 250 mm

Comprimentos entre 150mm e 6000 mm.

Aplicações

Águas pluviais, águas residuais e quaisquer outros fluidos compatíveis com os materiais utilizados na sua fabricação, em ambientes agressivos ou onde a higiene seja fundamental.

Onde aplicar

Hospitais e Hotéis.

Apartamentos.

Indústria química e farmacêutica.

Laboratórios em geral.

Indústria alimentar.

Lavandarias.

Indústria de bebidas

Piscinas e Banheiros.

Indústria naval.

Cozinhas industriais.

Matadouros.

Etc.

Vantagens

Amigo do ambiente

Higiénico

Instalação fácil e rápida

Grande durabilidade

Resistente à corrosão

Não combustível



Pipes, pipe fittings, drains, grids, channels, water traps, grease separators.

Material

Stainless steel 1.4401 (AISI 316 L)

Stainless steel 1.4401 (AISI 304 L)

Seals

EPDM (-40° up to +100°C)

NBR (-30° up to + 80°C)

FPM (-25° up to +200°C)

Pipe dimensions

Ø50 up to 250 mm and lengths from 150mm up to 6000 mm.

Applications

Rain water, sewage water and other fluids compatible with Blucher materials, in aggressive environments and where hygiene is a requirement.

Where to use it

Hospitals and Hotels.

Apartment buildings.

Food and beverage industry.

Chemical/pharmaceutical industry

Laboratories.

Laundries.

Swimming pools and.

Naval industry.

Commercial kitchens.

Slaughterhouse.

Onboard ships.

Etc.



Advantages

Environmentally friendly

Hygienic

Easy and quick installation

Long product life expectancy

Corrosion resistant

Non-combustible



Tubo mecânico inoxidável ISO 2938
Stainless steel hollow bars ISO 2938

Lista



			304 L	316 L
OD	Espessura	Kg Weight	Art. Nº	Art. Nº
32,0	6,00	4,20	1113 1130	1113 6130
	8,00	5,07	1113 1131	1113 6131
	10,00	6,78	1113 1134	1113 6134
36,0	5,50	4,55	1113 1132	1113 6132
	8,00	5,91	1113 1133	1113 6133
	10,00	6,78	1113 1134	1113 6134
40,0	6,00	5,59	1113 1135	1113 6135
	7,50	6,47	1113 1136	1113 6136
	10,00	7,83	1113 1137	1113 6137
45,0	6,50	6,70	1113 1138	1113 6138
	8,50	8,17	1113 1139	1113 6139
	12,50	10,50	1113 1140	1113 6140
50,0	7,00	8,01	1113 1141	1113 6141
	9,00	9,70	1113 1142	1113 6142
	12,50	12,10	1113 1143	1113 6143
56,0	8,00	10,20	1113 1144	1113 6144
	10,00	12,10	1113 1145	1113 6145
	14,00	15,20	1113 1146	1113 6146
63,0	6,50	9,91	1113 1147	1113 6147
	9,00	11,50	1113 1148	1113 6148
	11,50	15,40	1113 1149	1113 6149
71,0	7,50	12,90	1113 1151	1113 6151
	13,00	19,60	1113 1152	1113 6152
	15,50	22,10	1113 1154	1113 6154
75,0	17,50	24,40	1113 1155	1113 6155
	7,50	13,80	1113 1156	1113 6156
	12,50	20,70	1113 1157	1113 6157
80,0	17,50	26,00	1113 1159	1113 6159
	8,50	16,40	1113 1161	1113 6161
	15,00	25,30	1113 1162	1113 6162
90,0	17,50	26,00	1113 1164	1113 6164
	20,00	30,30	1113 1165	1113 6165
	9,50	20,6	1113 1166	1113 6166
100,0	13,5	27,10	1113 1172	1113 6172
	17,0	32,00	1113 1174	1113 6174
	20,0	36,10	1113 1175	1113 6175
106,0	22,0	42,30	1113 1176	1113 6176
	13,0	32,30	1113 1182	1113 6182
	17,5	40,60	1113 1184	1113 6184
112,0	21,5	46,80	1113 1186	1113 6186
	25,0	52,10	1113 1189	1113 6189
	11,0	30,20	1113 1190	1113 6190
118,0	16,0	40,60	1113 1191	1113 6191
	24,5	55,30	1113 1192	1113 6192
	14,0	39,00	1113 1193	1113 6193
125,0	19,0	49,40	1113 1195	1113 6195
	27,5	64,80	1113 1197	1113 6197
	12,5	38,30	1113 1199	1113 6199
132,0	17,5	49,80	1113 1200	1113 6200
	22,5	59,60	1113 1202	1113 6202
	27,0	68,50	1113 1203	1113 6203
140,0	12,5	38,30	1113 1205	1113 6205
	17,5	49,80	1113 1206	1113 6206
	22,5	59,60	1113 1207	1113 6207
150,0	27,0	68,50	1113 1208	1113 6208
	13,0	42,00	1113 1210	1113 6210
	21,0	61,10	1113 1212	1113 6212
170,0	30,5	79,70	1113 1213	1113 6213
	14,0	47,80	1113 1215	1113 6215
	20,0	63,30	1113 1217	1113 6217
180,0	30,0	85,20	1113 1218	1113 6218
	12,5	47,40	1113 1221	1113 6221
	22,0	74,20	1113 1223	1113 6223
200,0	35,0	103,00	1113 1229	1113 6229
	15,0	63,50	1113 1234	1113 6234
	15,0	68,40	1113 1247	1113 6247
	20,0	97,60	1113 1248	1113 6248
	25,0	117,00		

Tubo pressfitting, com costura, recozido
Lista

Pressfitting longitudinally welded and annealed pipes



316 L			
OD	Espessura	Kg Weight	Art. Nº
15,0	1,00	0,333	2Z23 9002
18,0	1,00	0,410	2Z23 9003
22,0	1,20	0,624	2Z23 9004
28,0	1,20	0,790	2Z23 9005
35,0	1,50	1,240	2Z23 9006
42,0	1,50	1,503	2Z23 9007
54,0	1,50	1,970	2Z23 9008
76,1	2,00	3,550	2Z23 9009
88,9	2,00	4,150	2Z23 9010
108,0	2,00	5,050	2Z23 9011

 Tubo recozido com certificado segundo DVGW - DW 8501 AT 2552.
 Annealed pipes according to DVGW - DW 8501 AT 2552.

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

Stainless steel Pressfitting fittings AISI 316 DN10 to DN100

Acessórios
 Fittings

Lista

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/F	Tê com saída roscada 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

Para mais informações sobre produtos "Pressfitting", solicite o nosso catálogo "VSH"

For more information about "Pressfitting" products see our catalog "VSH"

Os tubos e acessórios "Pressfitting" fornecidos não só em inoxidável, mas também aço carbono galvanizado ou em cobre.

The Pressfitting system can be supplied in stainless steel, galvanized carbon steel and copper.

Tubos sem costura segundo ASTM A 269/ A 450 NACE MR 0175 - 00 - Recozido atmosfera inerte
Lista 2012

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	AISI TP 304L	AISI TP 316L
			Art. Nº	Art. Nº
6,00	1,00	0,125	2A05 7107	2A05 9107
6,35	1,24	0,160	2A05 7111	2A05 9111
8,00	1,00	0,175	2A05 7112	2A05 9112
8,00	1,50	0,240	2A05 7113	2A05 9113
8,00	2,00	0,345	2A05 7114	2A05 9114
9,53	1,24	0,257	2A05 7116	2A05 9116
9,53	1,65	0,325	2A05 7117	2A05 9117
10,00	1,00	0,225	2A05 7118	2A05 9118
10,00	1,50	0,312	2A05 7119	2A05 9119
10,00	2,00	0,390	2A05 7120	2A05 9120
12,00	1,00	0,275	2A05 7127	2A05 9127
12,00	1,50	0,390	2A05 7128	2A05 9128
12,00	2,00	0,501	2A05 7129	2A05 9129
12,70	1,24	0,356	2A05 7131	2A05 9131
12,70	1,65	0,457	2A05 7132	2A05 9132
14,00	1,50	0,470	2A05 7139	2A05 9139
14,00	2,00	0,600	2A05 7140	2A05 9140
14,00	2,50	0,720	2A05 7141	2A05 9141
15,00	1,00	0,350	2A05 7142	2A05 9142
15,00	1,50	0,470	2A05 7143	2A05 9143
15,00	2,00	0,650	2A05 7144	2A05 9144
16,00	1,50	0,550	2A05 7146	2A05 9146
16,00	2,00	0,701	2A05 7147	2A05 9147
16,00	2,50	0,830	2A05 7148	2A05 9148
18,00	1,50	0,620	2A05 7155	2A05 9155
18,00	2,00	0,800	2A05 7156	2A05 9156
19,05	1,65	0,719	2A04 4157	2A05 9157
19,05	2,11	0,919	2A04 4158	2A05 9158
20,00	1,50	0,700	2A05 7161	2A05 9161
20,00	2,00	0,901	2A05 7162	2A05 9162
20,00	2,50	1,100	2A05 7163	2A05 9163
20,00	3,00	1,281	2A05 7164	2A05 9164
22,00	2,00	1,000	2A05 7177	2A05 9177
25,00	2,00	1,152	2A05 7179	2A05 9179
25,00	2,50	1,410	2A05 7181	2A05 9181
25,00	3,00	1,657	2A05 7182	2A05 9182
25,40	1,65	0,982	2A04 4184	2A04 6184
25,40	2,11	1,229	2A04 4185	2A04 6185
28,00	2,00	1,300	2A05 7199	2A05 9199
30,00	2,00	1,400	2A05 7202	2A05 9202
30,00	3,00	2,020	2A05 7204	2A05 9204
31,75	2,11	1,590	2A05 7232	2A04 6232
35,00	2,00	1,650	2A05 7224	2A05 9224
35,00	3,00	2,400	2A05 7225	2A05 9225
38,00	4,00	3,354	2A05 722	2A05 922

União série L
 Straight coupling (light)

Lista


PN	D1	Serie	SW3	SW1	L1	L2	Art. N°
315	6	GV-L-06	14	12	44	10	2P02 4108
315	8	GV-L-08	17	14	45	11	2P02 4112
315	10	GV-L-10	19	17	48	13	2P02 4119
315	12	GV-L-12	22	19	49	14	2P02 4124
315	15	GV-L-15	27	24	54	16	2P02 4142
315	18	GV-L-18	32	27	56	16	2P02 4155
160	22	GV-L-22	36	32	63	20	2P02 4175
160	28	GV-L-28	41	41	65	21	2P02 4198
160	35	GV-L-35	50	46	74	20	2P02 4223
160	42	GV-L-42	60	55	75	21	2P02 4235

União série S
 Straight coupling (heavy)

Lista


PN	D	Serie	Sw3	Sw1	L1	L2	Art. N°
630	6	GV-S-06	17	14	50	16	2Q62 4109
630	8	GV-S-08	19	17	52	18	2Q62 4113
630	10	GV-S-10	22	19	54	17	2Q62 4120
630	12	GV-S-12	24	22	57	19	2Q62 4129
630	14	GV-S-14	27	24	63	22	2Q62 4139
630	16	GV-S-16	30	27	65	21	2Q62 4147
400	20	GV-S-20	36	32	73	23	2Q62 4164
400	25	GV-S-25	46	41	84	26	2Q62 4183
400	30	GV-S-30	50	46	86	27	2Q62 4201
315	38	GV-S-38	60	55	99	29	2Q62 4226

Joelho série L
 Equal elbow (light)

Lista


PN	D	Serie	Sw3	Sw2	L1	L2	Art. N°
315	6	WV-L-06	14	12	27	12,0	2P12 4108
315	8	WV-L-08	17	12	29	14,0	2P12 4112
315	10	WV-L-10	19	14	30	15,0	2P12 4119
315	12	WV-L-12	22	17	32	17,0	2P12 4128
315	15	WV-L-15	27	19	36	21,0	2P12 4142
315	18	WV-L-18	32	24	40	23,5	2P12 4155
160	22	WV-L-22	36	27	44	27,5	2P12 4175
160	28	WV-L-28	41	36	47	30,5	2P12 4198
160	35	WV-L-35	50	41	56	34,5	2P12 4223
160	42	WV-L-42	60	50	63	40,0	2P12 4235

Joelho série S
 Equal elbow (heavy)

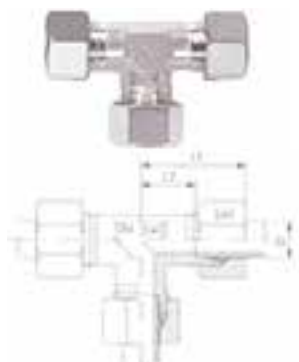
Lista


PN	D	Serie	Sw3	Sw2	L1	L2	Art. N°
630	6	WV-S-06	17	12	31	16,0	2Q72 4109
630	8	WV-S-08	19	14	32	17,0	2Q72 4113
630	10	WV-S-10	22	17	34	17,5	2Q72 4120
630	12	WV-S-12	24	17	38	21,5	2Q72 4129
630	14	WV-S-14	27	19	40	22,0	2Q72 4139
630	16	WV-S-16	30	24	43	24,5	2Q72 4147
400	20	WV-S-20	36	27	48	26,5	2Q72 4164
400	25	WV-S-25	46	36	54	30,0	2Q72 4183
400	30	WV-S-30	50	41	62	35,5	2Q72 4201
315	38	WV-S-38	60	50	72	41	2Q72 4226

Tê série L

Equal tee (light)

Lista

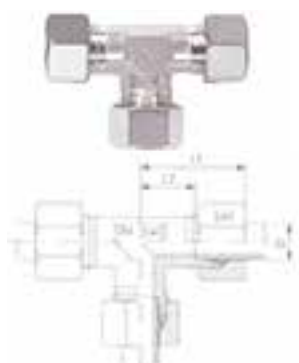


PN	D	Serie	Sw3	Sw2	L1	L2	Art. N°
L 315	6	TV-L-06	14	12	27	12,0	2P22 4108
L 315	8	TV-L-08	17	12	29	14,0	2P22 4112
L 315	10	TV-L-10	19	14	30	15,0	2P22 4119
L 315	12	TV-L-12	22	17	32	17,0	2P22 4128
L 315	15	TV-L-15	27	19	36	21,0	2P22 4142
L 315	18	TV-L-18	32	24	40	23,5	2P22 4155
L 160	22	TV-L-22	36	27	44	27,5	2P22 4175
L 160	28	TV-L-28	41	36	47	30,5	2P22 4198
L 160	35	TV-L-35	50	41	56	34,5	2P22 4223
L 160	42	TV-L-42	60	50	63	40,0	2P22 4235

Tê série S

Equal tee (heavy)

Lista

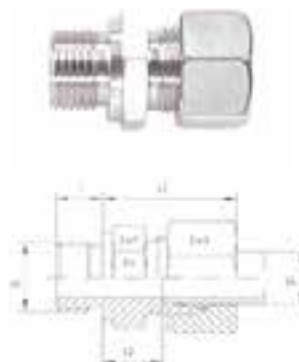


PN	D	Serie	Sw3	Sw2	L1	L2	Art. N°
630	6	TV-S-06	17	12	31	16,0	2Q82 4109
630	8	TV-S-08	19	14	32	17,0	2Q82 4113
630	10	TV-S-10	22	17	34	17,5	2Q82 4120
630	12	TV-S-12	24	17	38	21,5	2Q82 4129
630	14	TV-S-14	27	19	40	22,0	2Q82 4139
630	16	TV-S-16	30	24	43	24,5	2Q82 4147
400	20	TV-S-20	36	27	48	26,5	2Q82 4164
400	25	TV-S-25	46	36	54	30,0	2Q82 4183
400	30	TV-S-30	50	41	62	35,5	2Q82 4201
315	38	TV-S-38	60	50	72	41	2Q82 4226

Ligador direito com rosca paralela BSP, série L

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

Lista



PN	D	Serie	i	Sw1	Sw3	L1	L2	Art. N°
315	6	GE-LR-06-G 1/8"	8	14	14	23,0	8,5	2P52 4026
315	6	GE-LR-06-G 1/4"	12	17	14	27,0	10,0	2P52 4027
315	8	GE-LR-08-G 1/8"	8	14	17	24,0	9,5	2P52 4029
315	8	GE-LR-08-G 1/4"	12	19	17	25,0	10,0	2P52 4030
315	8	GE-LR-08-G 1/2"	14	17	27	28,5	12,0	2P52 4032
315	10	GE-LR-10-G 1/4"	12	19	19	26,0	11,0	2P52 4033
315	10	GE-LR-10-G 3/8"	12	22	19	30,0	12,5	2P52 4034
315	10	GE-LR-10-G 1/2"	14	27	19	28,0	13,0	2P52 4035
315	12	GE-LR-12-G 3/8"	12	27	22	22,0	12,5	2P52 4037
315	12	GE-LR-12-G 1/2"	14	24	22	31,0	13,0	2P52 4038
315	15	GE-LR-15-G 1/2"	12	27	27	31,0	13,5	2P52 4040
315	15	GE-LR-15-G 3/8"	14	27	27	29,0	14,0	2P52 4041
315	18	GE-LR-18-G 1/2"	14	27	32	31,0	14,5	2P52 4043
160	22	GE-LR-22-G 3/4"	16	36	32	33,0	16,5	2P52 4066
160	28	GE-LR-28-G 1"	18	41	41	34,0	17,5	2P52 4068
160	35	GE-LR-35-G 1 1/4"	20	50	50	39,0	17,5	2P52 40680
160	42	GE-LR-42-G 1 1/2"	22	60	60	42,0	19,0	2P52 40681

Ligador direito com rosca paralela ISO 228, série S

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

Lista



PN	D	Size	i	Sw1	Sw3	L1	L2	Art. N°
630	8	GE-SR-08-G 1/4"	12	19	19	30,0	15,0	2R12 4030
630	10	GE-SR-10-G 1/2"	14	27	22	34,0	17,5	2R12 4033
630	10	GE-SR-10-G 3/8"	12	22	22	31,0	15,0	2R12 4034
630	12	GE-SR-12-G 3/8"	12	24	24	33,0	17,0	2R12 4037
630	12	GE-SR-12-G 1/2"	14	27	24	34,0	17,5	2R12 4038
630	14	GE-SR-14-G 1/2"	14	27	27	37,0	19,0	2R12 4040
630	16	GE-SR-16-G 1/2"	14	27	30	37,0	18,5	2R12 4042
400	20	GE-SR-20-G 3/4"	16	32	36	42,0	20,5	2R12 4045
400	20	GE-SR-20-G 1"	18	41	36	42,0	22,5	2R12 4046
400	25	GE-SR-25-G 1"	18	41	46	47,0	23,0	2R12 4048
400	30	GE-SR-30-G 1 1/4"	20	50	50	50,0	23,5	2R12 40480
315	38	GE-SR-38-G 1 1/2"	22	55	60	57,0	26,0	2R12 40481

Ligador direito com rosca conica BSP, série L
Lista

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



PN	D	Serie	i	Sw1	Sw3	L1	L2	Art. N°
315	6	GE-L-06 R 1/8" K	8	14	14	30,0	15,0	2P32 4026
315	6	GE-L-06 R 1/4" K	12	17	14	35,0	20,0	2P32 4027
315	8	GE-L-08 R 1/4" K	12	17	17	35,0	20,0	2P32 4030
315	10	GE-L-10 R 1/4" K	12	17	19	36,0	21,0	2P32 4033
315	10	GE-L-10 R 3/8" K	12	17	19	36,0	21,0	2P32 4034
315	10	GE-L-10 R 1/2" K	14	22	19	39,0	24,0	2P32 4035
315	12	GE-L-12 R 3/8" K	12	19	22	37,0	22,0	2P32 4037
315	12	GE-L-12 R 1/2" K	14	22	22	39,0	24,0	2P32 4038
315	15	GE-L-15 R 1/2" K	14	24	27	40,0	25,0	2P32 4041
315	18	GE-L-18 R 1/2" K	14	27	32	42,0	25,5	2P32 4043
160	22	GE-L-22 R 3/4" K	16	32	36	46,0	29,5	2P32 4066
160	28	GE-L-28 R 1" K	18	41	41	49,0	32,5	2P32 4068
160	35	GE-L-35 R 1 1/4" K	20	50	46	56,0	34,5	2P32 40680
160	42	GE-L-42 R 1 1/2" K	22	55	60	61,0	38,0	2P32 40681

Ligador tubo/ rosca NPT
Lista 2115

Male stud coupling tapered NPT threaded



PN	D	Serie	i	Sw1	Sw3	L1	L2	Art. N°
315	6	GE-L-06 1/4" NPT	15	17	14	32	23	2P52 4050
315	6	GE-L-06 1/2" NPT	20	17	14	38	23	2P52 4051
315	8	GE-L-08 1/4" NPT	15	17	17	1	23	2P52 4053
315	10	GE-L-10 1/4" NPT	15	17	19	39	24	2P52 4054
315	10	GE-L-10 1/2" NPT	19,5	22	19	45	30	2P52 4055
315	12	GE-L-12 1/2" NPT	20	22	22	45	30	2P52 4059
315	15	GE-L-15 1/2" NPT	20	24	27	46	31,0	2P52 40
315	18	GE-L-18 1/2" NPT	20	27	32	42	31,5	2P52 40
315	22	GE-L-22 3/4" NPT	20	32	36	50	33,5	2P52 40

Ligador direito com rosca paralela metrica
Lista 2115

Male stud coupling with parallel metric threaded



PN	D	Serie	i	Sw3	Sw1	L1	L2	Art. N°
315	6	GE-L06-M10x1	8	14	14	23	8,5	2P52 4069
315	8	GE-L08-M12x1,5	12	17	17	25	10,0	2P52 4070
315	28	GE-L28-M33x2	18	41	41	34	17,5	2P52 4198

Joelho tubo/ rosca BSP conica
Lista 2115

Stud elbow serie L-threaded BSP-Taper



PN	D	Serie	i	Sw2	Sw3	L1	L3	Art. N°
315	6	WE-L-06-R 1/4" K	12	12	14	27	26	2P62 4020
315	8	WE-L-08-R 1/4" K	12	12	17	29	26	2P62 4030
315	10	WE-L-10-R 1/4" K	12	14	19	30	27	2P62 4033
315	10	WE-L-10-R 1/2" K	14	17	19	37	33	2P62 4035
315	12	WE-L-12-R 3/8" K	12	17	22	32	28	2P62 4037
315	12	WE-L-12-R 1/2" K	14	17	22	32	34	2P62 4038

Joelho tubo/rosca BSP cónica
Lista 2115

Stud elbow series threaded BSP-Tape (heavy)

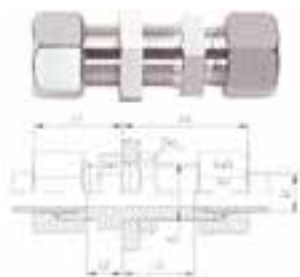


PN	D	Size	i	Sw2	Sw3	L1	L3	Art. N°
630	6	WE-S-06-R1/4"-K	12	12	17	31	26	2R32 4027
630	10	WE-S-10-R3/8"-K	12	17	22	34	28	2R32 4034
630	12	WE-S-12-R3/8"-K	12	17	24	38	28	2R32 4037
630	16	WE-S-16-R1/2"-K	14	24	30	43	32	2R32 4038
400	20	WE-S-20-R1/2"-K	14	27	36	48	42	2R32 4045

União painel GSV-L

Straight bulkhead connection

Lista 2115



PN	D	Serie	G	Sw1	Sw3	L1	L4	Art. Nº
315	6	GSV-L-06	M12x1,5	17	14	22	42	2P82 4108
315	8	GSV-L-08	M14x1,5	19	17	23	42	2P82 4112
315	10	GSV-L-10	M16x1,5	22	19	25	43	2P82 4119
315	12	GSV-L-12	M18x1,5	24	22	25	44	2P82 4128

Ponteira para soldar com "O'ring" viton - Cone 24°

Weld nipple SKV with O'ring viton - matching type 24° - inside taper

Lista 2115



PN	D	Serie	di	L	O'ring	Art. Nº
460	10 x 2,0	SKV-10 x 2	6	32,5	8,0 x 1,5	2Q00 1020
393	12 x 2,0	SKV-12 x 2,0	8	32,5	10,0 x 1,5	2Q00 1220
305	16 x 2,0	SKV-16 x 2,0	12	38,5	13,0 x 2,0	2Q00 1620
372	16 x 2,5	SKV-16 x 2,5	11	38,5	13,0 x 2,0	2Q00 1625
335	18 x 2,5	SKV-18 x 2,5	13	37,0	15,0 x 2,0	2Q00 1825
305	20 x 2,5	SKV-20 x 2,5	15	44,5	16,3 x 2,4	2Q00 2025
460	20 x 4,0	SKV-20 x 4,0	12	44,5	16,3 x 2,4	2Q00 2035
280	22 x 2,5	SKV-22 x 2,5	17	38,5	19,0 x 2,0	2Q00 2225
294	25 x 3,0	SKV-25 x 3,0	19	49,5	21,3 x 2,4	2Q00 2530
224	28 x 2,5	SKV-28 x 2,5	23	41,5	25,0 x 2,0	2Q00 2825
261	38 x 4,0	SKV-38 x 4,0	30	56,5	25,3 x 2,4	2Q00 3840
182	42 x 3,0	SKV-42 x 3,0	36	47,0	38,0 x 2,5	2Q00 4230

União Rosca F. BSP/tubo

Female stud coupling

Lista 2115



PN	D	Serie	i	Sw1	Sw3	L1	L2	Art. Nº
630	10	GAI-S10-G3/8"	17,0	24	19	43,0	26,0	2R02 4034
315	12	GAI-L12-G3/8"	17,0	24	22	43,0	26,0	2R02 4037
630	16	GAI-S16-G1/2"	20,0	27	30	53,0	31,5	2R02 4147

União redução GRV

E

Lista 2115

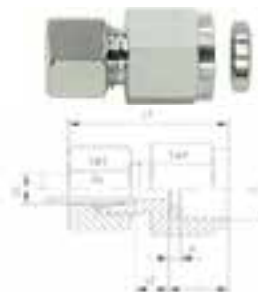


PN	D	Serie	S1	Sw2	Sw3	L	I1	Art. Nº
630	10/06	GRV-S 10/06	19	17	22	53,5	48	2522 4084
315	12/06	GRV-L 12/6	19	14	22	48,0	42	2Q12 4084

União para manometro rosca F/BSP com anilha vedação metálica

Gauge coupling internal threaded BSP parallel with metal sealing ring

Lista 2115



PN	D	Serie	i	Sw1	SW3	L	I1	Art. Nº
315	6	MV-L-06-G 1/4"	14,5	19	14		37	2Q22 4027
630	8	MV-S-8-G1/2"	20	27	19		46	2R92 4032
630	10	MV-S-10-G1/2"	20	27	22		47	2R92 4035

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

LISTA

Welded stainless steel pipes

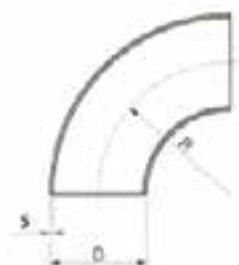


OD mm	Espessura mm	Tipo	Kg Weight	AISI 304L	AISI 316L
				Art. Nº	Art. Nº
21,30	1,60	ISO 1127	0,790	2A196165	2A197165
23,00	1,50	DIN 11850	0,809	2A196177	2A197177
25,40	1,65	ISO 2037	0,970	2A196184	2A197184
26,90	1,60	ISO 1127	1,010	2A196187	2A197187
29,00	1,50	DIN 11850	1,033	2A196200	2A197200
33,70	2,00	ISO 1127	1,590	2A196214	2A197214
35,00	1,50	DIN 11850	1,258	2A196223	2A197223
38,10	1,65	ISO 2037	1,489	2A196226	2A197226
41,00	1,50	DIN 11850	1,484	2A196235	2A197235
42,40	2,00	ISO 1127	2,020	2A196238	2A197238
48,30	2,00	ISO 1127	2,320	2A196255	2A197255
50,80	1,65	ISO 2037	2,077	2A196266	2A197266
53,00	1,50	DIN 11850	1,934	2A196273	2A197273
60,30	2,00	ISO 1127	2,920	2A196279	2A197279
63,50	1,65	ISO 2037	2,525	2A196295	2A197295
70,00	2,00	DIN 11850	3,405	2A196300	2A197300
76,10	2,00	ISO 1127	3,711	2A196314	2A197314
76,20	1,65	ISO 2037	3,080	2A196315	2A197315
85,00	2,00	DIN 11850	4,157	2A1963281	2A1973281
88,90	2,30	ISO 1127	4,352	2A196330	2A197330
101,60	2,11	ISO 2037	4,988	2A196343	2A197343
104,00	2,00	DIN 11850	5,108	2A196352	2A197352
114,30	2,30	ISO 1127	6,100	2A196359	2A197359

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

LISTA

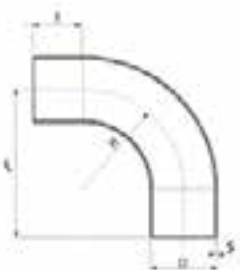
90° Elbow stainless steel, welded execution to DIN 11850/ ISO 2851



D mm	S mm	R		Kg Weight	AISI 304L	AISI 316L
					Art. Nº	Art. Nº
21,30	1,60	30,00	ISO 1127	0,030	2A396165	2A397165
23,00	1,50	40,00	D 11850	0,060	2A396177	2A397177
26,90	1,60	29,00	ISO 1127	0,050	2A396187	2A397187
29,00	1,50	50,00	D 11850	0,085	2A396200	2A397200
33,70	2,00	38,00	ISO 1127	0,100	2A396214	2A397214
35,00	1,50	55,00	D 11850	0,110	2A396223	2A397223
41,00	1,50	60,00	D 11850	0,140	2A396234	2A397234
42,40	2,00	47,5	ISO 1127	0,135	2A396235	2A397235
48,30	2,00	57,00	ISO 1127	0,204	2A396249	2A397249
53,00	1,50	70,00	D 11850	0,220	2A396273	2A397273
60,30	2,00	76,00	ISO 1127	0,340	2A396279	2A397279
70,00	2,00	80,00	D 11850	0,410	2A396300	2A397300
76,10	2,00	95,00	ISO 1127	0,545	2A396315	2A397315
85,00	2,00	90,00	D 11850	0,570	2A3963281	2A3973281
88,90	2,30	114,00	ISO 1127	0,810	2A396330	2A397330
101,60	2,11	100,00	ISO 1127	0,810	2A396343	2A397343
104,00	2,00	100,00	D 11850	0,810	2A396352	2A397352
114,30	2,30	152,50	ISO 1127	1,48	2A396359	2A397359

Curvas 90° com costura DIN 11852/ ISO-2851 com extremidades direitas
90° elbows welded execution DIN 11852/ ISO 2851, with straight ends

Lista



D mm	S mm	R	I	L	Kg/pc Weight	AISI 304L Art.Nº	AISI 316L Art.Nº
21,30	1,60	30,0	25	55,0	0,076	2D39 6165C	2D39 7165C
23,00	1,50	40,0	25	56,5	0,085	2D39 6177C	2D39 7177C
26,90	1,60	28,5	40	68,5	0,126	2D39 6187C	2D39 7187C
29,00	1,50	50,0	40	90,0	0,118	2D39 6200C	2D39 7200C
33,70	2,00	38,0	40	78,0	0,222	2D39 6214C	2D39 7214C
35,00	1,50	55,0	40	95,0	0,165	2D39 6223C	2D39 7223C
41,00	1,50	60,0	40	100,0	0,220	2D39 6235C	2D39 7235C
42,40	2,00	47,5	40	87,5	0,313	2D39 6238C	2D39 7238C
48,30	2,00	57,0	40	97,0	0,394	2D39 6255C	2D39 7255C
53,00	1,50	70,0	40	110,0	0,300	2D39 6273C	2D39 7273C
60,30	2,00	76,0	40	116,0	0,584	2D39 6279C	2D39 7279C
70,00	2,00	80,0	40	120,0	0,570	2D39 6300C	2D39 7300C
76,10	2,00	95,0	55	150,0	0,964	2D39 6315C	2D39 7315C
85,00	2,00	90,0	55	145,0	0,800	2D39 63281	2D39 73281
88,90	2,30	114,0	55	169,0	1,446	2D39 6330	2D39 7330
104,00	2,00	100,0	55	155,0	1,200	2D39 6352	2D39 7352
114,30	2,30	152,5	55	207,5	2,250	2D39 6358	2D39 7358

Curvas 90° com costura em aço inoxidável US Standard (ISO 2037 Imperial)
90° Elbow welded stainless steel US standard

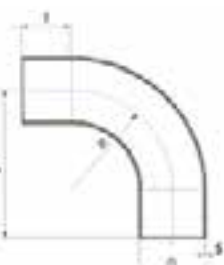
Lista



OD mm	S mm	R	Kg Weight	AISI 304L Art. Nº	AISI 316L Art. Nº
25,40	1,65	38,10	0,058	2A39 6184C	2A39 7184C
38,10	1,65	57,10	0,130	2A39 6226C	2A39 7226C
50,80	1,65	76,20	0,235	2A39 6266C	2A39 7266C
63,50	1,65	95,20	0,370	2A39 6295C	2A39 7295C
76,10	1,65	114,30	0,534	2A39 6315C	2A39 7315C
101,60	2,11	152,40	1,190	2A39 6343C	2A39 7343C

Curvas 90° com costura e extrimidades direitas US Standard (ISO 2037 Imperial)
90° Elbow welded stainless steel with straight ends

Lista



OD mm	S mm	R	I	L	Kg Weight	AISI 304L Art N°	AISI 316L Art N°
25,40	1,65	38,10	38,1	76,2	0,086	2A39 6184C	2A39 7184C
38,10	1,65	57,20	38,1	95,3	0,183	2A39 6226C	2A39 7226C
50,80	1,65	76,20	44,5	120,7	0,342	2A39 6266C	2A39 7266C
63,50	1,65	95,30	44,5	132,7	0,553	2A39 6295C	2A39 7295C
76,20	1,65	114,30	44,5	158,5	0,809	2A39 6315C	2A39 7315C
101,60	2,11	152,40	50,8	203,2	1,780	2A39 6343C	2A39 7343C

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

Welded concentric reducer DIN 11865



D x d mm	S mm	H	Kg Weight	AISI 304L	AISI 316L
				Art. N°	Art. N°
38,1 x 25,4	1,65	90		2E92 3669	2E92 5669
42,4 x 33,7	2,00	102		2E92 3670	2E92 5670
42,4 x 26,9	2,00	102		2E92 3674	2E92 5674
48,3 x 33,7	2,00	102		2E92 3683	2E92 5683
48,3 x 26,9	2,00	102		2E92 3687	2E92 5687
48,3 x 21,3	2,00	102		2E92 3689	2E92 5689
50,8 x 38,1	1,65	100		2E92 3695	2E92 5695
50,8 x 25,4	1,65	100		2E92 36951	2E92 56951
53,0 x 41,0	1,50	90		2E92 3690	2E92 5690
53,0 x 35,0	1,50	90		2E92 36901	2E92 56901
53,0 x 29,0	1,50	90		2E92 36902	2E92 56902
60,3 x 48,3	2,00	114		2E92 3693	2E92 5693
60,3 x 33,7	2,00	107		2E92 3701	2E92 5701
60,3 x 26,9	2,00	107		2E92 3704	2E92 5704
63,5 x 50,8	1,65	100		2E92 3710	2E92 5710
70,0 x 53,0	2,00	100		2E92 37081	2E92 57081
70,0 x 41,0	2,00	100		2E92 37082	2E92 57082
76,1 x 60,3	2,00	124		2E92 3714	2E92 5714
76,1 x 48,3	2,00	124		2E92 3718	2E92 5718
76,1 x 33,7	2,00	124		2E92 3727	2E92 5727
85,0 x 70,0	2,00	100		2E92 3729	2E92 5729
85,0 x 53,0	2,00	100		2E92 3730	2E92 5730
88,9 x 76,0	2,00	124		2E92 3733	2E92 5733
88,9 x 60,3	2,00	124		2E92 3737	2E92 5737
88,9 x 48,3	2,00	124		2E92 3742	2E92 5742
101,6 x 76,1	2,11	140		2E92 3755	2E92 5755
101,6 x 63,5	2,11	140		2E92 3757	2E92 5757
101,6 x 50,8	2,11	140		2E92 37581	2E92 57581

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

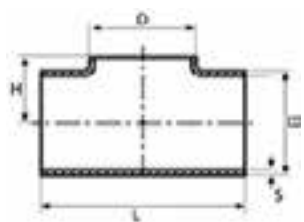
Welded excentric reducer DIN 11865



D x d mm	S mm	H	Kg Weight	AISI 304L	AISI 316L
				Art. N°	Art. N°
38,1 x 25,4	1,65	70		2E93 3669	2E93 4669
42,4 x 33,7	2,00	80		2E93 3670	2E93 4670
42,4 x 26,9	2,00	80		2E93 3674	2E93 4674
48,3 x 33,7	2,00	80		2E93 3683	2E93 4683
48,3 x 26,9	2,00	80		2E93 3687	2E93 4687
48,3 x 21,3	2,00	80		2E93 3689	2E93 4689
50,8 x 38,1	1,65	90		2E93 3695	2E93 4695
50,8 x 25,4	1,65	100		2E93 36951	2E93 46951
53,0 x 41,0	1,50	90		2E93 3690	2E93 4690
53,0 x 35,0	1,50	90		2E93 36901	2E93 46901
53,0 x 29,0	1,50	90		2E93 36902	2E93 46902
60,3 x 48,3	2,00	90		2E93 3693	2E93 4693
60,3 x 33,7	2,00	80		2E93 3701	2E93 4701
60,3 x 26,9	2,00	100		2E93 3704	2E93 4704
63,5 x 50,8	1,65	100		2E93 3710	2E93 4710
70,0 x 53,0	2,00	100		2E93 37081	2E93 47081
70,0 x 41,0	2,00	100		2E93 37082	2E93 47082
76,1 x 60,3	2,00	90		2E93 3714	2E93 4714
76,1 x 50,8	1,65	100		2E93 3716	2E93 4716
76,1 x 48,3	2,00	90		2E93 3718	2E93 4718
76,1 x 33,7	2,00	110		2E93 3727	2E93 4727
85,0 x 70,0	2,00	100		2E93 3729	2E93 4729
85,0 x 54,0	2,00	100		2E93 3730	2E93 4730
88,9 x 76,0	2,00	90		2E93 3733	2E93 4733
88,9 x 60,3	2,00	90		2E93 3737	2E93 4737
101,6 x 76,1	2,11	110		2E93 3755	2E93 4755
101,6 x 63,5	2,00	120		2E93 3757	2E93 4757
101,6 x 50,8	2,00	130		2E93 37581	2E93 47581

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

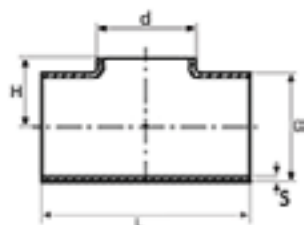
Lista



D mm	S mm	L	H	Kg Weight	AISI 304L	AISI 316L
					Art. N°	Art. N°
21,3	1,60	105	1,5	0,069	2F02 3165	2F02 4165
23,0	1,50	80	1,5	0,068	2F02 3177	2F02 4177
25,4	1,65	108	1,5	0,070	2F02 3184	2F02 4184
26,9	1,60	60	2,0	0,047	2F02 3187	2F02 4187
29,0	1,50	100	2,0	0,178	2F02 3200	2F02 4200
33,7	2,00	140	2,0	0,110	2F02 3214	2F02 4214
35,0	1,50	100	2,0	0,185	2F02 3223	2F02 4223
38,1	1,65	127	1,5	0,105	2F02 3226	2F02 4226
41,0	1,50	120	2,5	0,190	2F02 3235	2F02 4235
42,4	2,00	160	2,5	0,195	2F02 3238	2F02 4238
48,3	2,00	170	3,0	0,250	2F02 3255	2F02 4255
50,8	1,65	146	3,0	0,244	2F02 3266	2F02 4266
53,0	1,50	140	3,0	0,240	2F02 3273	2F02 4273
60,3	2,00	180	4,0	0,272	2F02 3279	2F02 4279
63,5	1,65	158	4,0	0,502	2F02 3295	2F02 4295
70,0	2,00	160	3,5	0,640	2F02 3300	2F02 4300
76,1	1,65	171	5,0	0,950	2F02 3314	2F02 4314
76,1	2,00	130	5,0	0,465	2F02 3315	2F02 4315
85,0	2,00	180	3,5	0,660	2F02 33281	2F02 43281
88,9	2,30	160	5,0	0,635	2F02 3330	2F02 4330
101,6	2,11	300	5,0	1,370	2F02 3343	2F02 4343
104,0	2,00	200	5,0	1,140	2F02 3352	2F02 4352
114,3	2,30	200	5,0	1,200	2F02 3359	2F02 4359

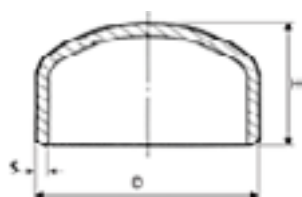
Tês de redução em aço inoxidável, com costura DIN 11865 - ISO1127 (ISO 2037 Imperial)
Reduced welded Tees DIN 11865

Lista



D x d mm	S mm	H mm	Kg Weight	AISI 304L	AISI 316L
				Art. N°	Art. N°
26,9 x 21,3	1,60	2,0	0,100	2F00 23654	2F00 24654
29,0 x 23,0	1,50	2,0	0,175	2F00 23656	2F00 24656
33,7 x 26,9	2,00	2,0	0,130	2F00 23660	2F00 24660
33,7 x 21,3	2,00	2,0	0,130	2F00 23664	2F00 24664
35,0 x 29,0	1,50	2,0	0,190	2F00 23665	2F00 24665
35,0 x 23,0	1,50	2,0	0,195	2F00 23666	2F00 24666
38,1 x 25,4	1,65	1,5	0,210	2F00 23667	2F00 24667
41,0 x 35,0	1,50	2,5	0,192	2F00 23668	2F00 24668
41,0 x 29,0	1,50	2,5	0,195	2F00 23669	2F00 24669
42,4 x 33,7	2,00	2,5	0,200	2F00 23670	2F00 24670
48,3 x 33,7	2,00	3,0	0,290	2F00 23683	2F00 24683
48,3 x 26,9	2,00	3,0	0,295	2F00 23687	2F00 24687
50,8 x 38,1	1,65	3,0	0,246	2F00 23688	2F00 24688
50,8 x 25,4	1,65	3,0	0,248	2F00 23689	2F00 24689
53,0 x 41,0	1,50	3,0	0,250	2F00 23690	2F00 24690
53,0 x 35,0	1,50	3,0	0,260	2F00 23691	2F00 24691
60,3 x 48,3	2,00	4,0	0,280	2F00 23693	2F00 24693
60,3 x 33,7	2,00	4,0	0,285	2F00 23701	2F00 24701
63,5 x 50,8	1,65	4,0	0,505	2F00 23702	2F00 24702
63,5 x 38,1	1,65	4,0	0,510	2F00 23703	2F00 24703
70,0 x 53,0	2,00	3,5	0,650	2F00 23704	2F00 24704
70,0 x 41,0	2,00	3,5	0,655	2F00 23705	2F00 24705
76,2 x 60,3	1,65	5,0	0,940	2F00 23714	2F00 24714
76,1 x 48,3	2,00	5,0	0,950	2F00 23718	2F00 24718
85,0 x 70,0	2,00	3,5	0,620	2F00 23720	2F00 24720
85,0 x 53,0	2,00	3,5	0,650	2F00 23721	2F00 24721
88,9 x 76,1	2,00	5,0	0,660	2F00 23733	2F00 24733
88,9 x 60,3	2,00	5,0	0,670	2F00 23737	2F00 24737
101,6 x 76,2	2,11	5,0	1,390	2F00 23755	2F00 24755
101,6 x 63,5	2,11	5,0	1,400	2F00 23756	2F00 24756
104,0 x 85,0	2,00	5,0	1,150	2F00 23758	2F00 24758
104,0 x 70,0	2,00	5,0	1,180	2F00 23759	2F00 24759
114,3 x 88,9	2,30	5,0	1,240	2F00 23769	2F00 24769
114,3 x 60,3	2,00	5,0	1,250	2F00 23778	2F00 24778

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

Lista


D mm	S mm	H mm	Kg Weight	AISI 304L	AISI 316L
				Art. Nº	Art. Nº
26,9	2,0	12,0	0,018	2F22 3188	2F22 4188
29,0	1,5	11,5	0,023	2F22 3200	2F22 4200
33,7	2,0	15,0	0,023	2F22 3214	2F22 4214
41,0	1,5	14,0	0,033	2F22 3235	2F22 4235
42,4	2,0	17,0	0,042	2F22 3238	2F22 4238
48,3	2,0	21,0	0,050	2F22 3255	2F22 4255
50,8	1,65	15,0	0,055	2F22 3266	2F22 4266
60,3	2,0	22,0	0,076	2F22 3279	2F22 4279
63,5	1,65	18,0	0,075	2F22 3294	2F22 4294
70,0	2,0	21,5	0,097	2F22 3300	2F22 4300
76,1	2,0	29,0	0,131	2F22 3315	2F22 4315
76,2	1,65	20,0	0,097	2F22 3314	2F22 4314
85,0	2,0	24,5	0,135	2F22 3328	2F22 4328
88,9	3,0	29,0	0,166	2F22 3333	2F22 4333
101,6	2,11	25,0	0,187	2F22 3343	2F22 4343
104,0	2,0	28,5	0,187	2F22 3352	2F22 4352
114,3	3,0	32,0	0,369	2F22 3360	2F22 4360



Utilizando os nossos produtos em stock, podemos transformá-los ou executar nas nossas oficinas, conjuntos segundo desenho do cliente.
 Employing the products from our stock, we can machine them in our workshop, or fabricate specials, according to client's drawing requirements.

Tubo DIN 17455, D3/T3
Stainless steel pipe

Lista

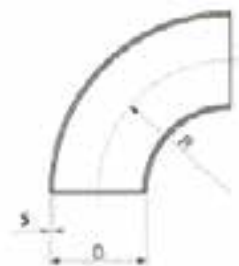


OD	Espessura	Kg Weight	304 L	316 L
			Art. Nº	Art. Nº
¹⁾ 13,5	2,35	0,66	2A12 3136	2A12 5136
17,2	1,60	0,64	2A12 3149	2A12 5149
¹⁾ 17,2	2,35	0,87	2A12 3152	2A12 5152
20,0	0,70	0,34	2A12 3159	2A12 5159
21,3	1,60	0,79	2A12 3165	2A12 5165
¹⁾ 21,3	2,00	0,97	2A12 3166	2A12 5166
21,3	2,65	1,22	2A12 3169	2A12 5169
22,0	1,50	0,77	2A12 3174	2A12 5174
26,9	1,60	1,01	2A12 3187	2A12 5187
26,9	2,00	1,25	2A12 3188	2A12 5188
¹⁾ 26,9	2,65	1,58	2A12 3190	2A12 5190
30,0	1,50	1,07	2A12 3201	2A12 5201
33,7	1,60	1,29	2A12 3213	2A12 5213
33,7	2,00	1,59	2A12 3214	2A12 5214
¹⁾ 33,7	3,25	2,44	2A12 3218	2A12 5218
38,0	1,50	1,37	2A12 3226	2A12 5226
42,4	1,60	1,62	2A12 3237	2A12 5237
42,4	2,00	2,02	2A12 3238	2A12 5238
¹⁾ 42,4	3,25	3,14	2A12 3242	2A12 5242
44,0	2,00	2,10	2A12 31250	2A12 51250
48,3	1,60	1,87	2A12 3254	2A12 5254
48,3	2,00	2,32	2A12 3255	2A12 5255
¹⁾ 48,3	3,25	3,61	2A12 3259	2A12 5259
54,0	2,00	2,60	2A12 2274	2A12 4274
60,3	1,60	2,35	2A12 3278	2A12 5278
60,3	2,00	2,92	2A12 3279	2A12 5279
¹⁾ 60,3	3,65	5,11	2A12 3285	2A12 5285
70,0	2,00	3,41	2A12 2300	2A12 4300
76,1	2,00	3,71	2A12 3315	2A12 5315
¹⁾ 76,1	3,65	6,53	2A12 3320	2A12 5320
84,0	2,00	4,11	2A12 2328	2A12 4328
88,9	2,00	4,35	2A12 3330	2A12 5330
88,9	2,90	6,24	2A12 3332	2A12 5332
104,0	2,00	5,11	2A12 2352	2A12 4352
114,3	2,00	5,62	2A12 3358	2A12 5358
114,3	3,00	8,36	2A12 3360	2A12 5360
129,0	2,00	6,39	2A12 2369	2A12 4369
139,7	2,00	6,90	2A12 3372	2A12 5372
139,7	2,60	10,27	2A12 3374	2A12 5374
139,7	3,00	10,30	2A12 3376	2A12 5376
154,0	2,00	7,64	2A12 2386	2A12 4386
168,3	2,00	8,33	2A12 3391	2A12 5391
168,3	2,60	10,79	2A12 3392	2A12 5392
168,3	3,00	12,42	2A12 3393	2A12 5393
204,0	2,00	10,15	2A12 2406	2A12 4406
219,1	2,00	10,87	2A12 3408	2A12 5408
219,1	3,00	16,23	2A12 3410	2A12 5410
255,0	2,50	15,71	2A12 2422	2A12 5422
273,0	2,60	18,30	2A12 3421	2A12 5421
305,0	2,50	18,85	2A12 2432	2A12 4432
306,0	3,00	22,62	2A12 2433	2A12 4433
323,9	3,00	24,11	2A12 3434	2A12 5434
355,6	3,00	26,50	2A12 3457	2A12 5457
406,4	3,00	30,30	2A12 2459	2A12 4459
408,0	4,00	40,21	2A12 2469	2A12 4469
508,0	4,00	50,48	2A12 2480	2A12 4480
610,0	5,00	75,50	2A12 2494	2A12 4494

(1) - Tubo segundo EN 10216.5 normalizado, apto para ser roscado e/ou curvado.
Pipes according to EN 10216.5 annealed to be bend or threaded.

Nota: Tubos de aço inoxidável com e sem costura segundo ASME, ver páginas D2 e D3.
For welded or seamless pipes according to ASME, see pag. D2 e D3.

Curva 90° DIN 2605 com costura
 But weld fitting

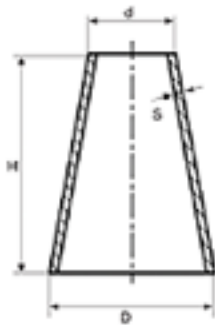
Lista


				304 L	316 L
D	S	R	Kg Weight	Art. Nº	Art. Nº
21,3	2,0	38	0,58	2E42 3166	2E42 5166
26,9	2,0	28,5	0,06	2E42 3188	2E42 5188
33,7	2,0	38	0,10	2E42 3214	2E42 5214
42,4	2,0	47,5	0,15	2E42 3238	2E42 5238
44,5	2,0	51,0	0,170	2E42 3250	2E42 5250
48,3	2,0	57,0	0,21	2E42 3255	2E42 5255
54,0	2,0	68,5	0,280	2E42 3274	2E42 5274
60,3	2,0	76,0	0,35	2E42 3279	2E42 5279
70,0	2,0	92,0	0,50	2E42 3300	2E42 5300
76,1	2,0	95,0	0,56	2E42 3315	2E42 5315
84,0	2,0	120,0	0,93	2E42 3328	2E42 4328
88,9	2,0	114,0	0,79	2E42 3330	2E42 5330
88,9	2,6	114,0	1,05	2E42 3332	2E42 5332
104,0	2,0	150,0	1,203	2E42 3352	2E42 5352
114,3	2,0	152,0	1,35	2E42 3358	2E42 5358
114,3	2,6	152,0	1,60	2E42 3359	2E42 5359
129,0	2,0	188,0	1,880	2E42 3369	2E42 5369
139,7	2,0	190,0	2,07	2E42 3372	2E42 5372
139,7	3,0	190,0	3,08	2E42 3374	2E42 5374
154,0	2,0	225,0	2,69	2E42 3386	2E42 5386
168,3	2,0	229,0	3,00	2E42 3391	2E42 5391
168,3	3,0	229,0	4,50	2E42 3393	2E42 5393
204,0	2,0	300,0	4,78	2E42 3406	2E42 5406
219,1	2,0	305,0	5,21	2E42 3408	2E42 5408
219,1	3,0	305,0	7,80	2E42 3410	2E42 5410
256,0	3,0	375,0	11,190	2E42 3419	2E42 4419
273,0	2,0	381,0	8,12	2E42 3420	2E42 5420
273,0	3,0	381,0	12,20	2E42 3422	2E42 5422
305,0	2,5	450,0	13,30	2E42 3432	2E42 5432
306,0	3,0	450,0	14,40	2E42 3433	2E42 5433
323,9	3,0	457,0	17,30	2E42 3434	2E42 5434
356,0	3,0	534,0	22,21	2E42 3457	2E42 5457
406,4	3,0	610,0	29,03	2E42 3459	2E42 5459
406,4	4,0	610,0	38,60	2E42 3460	2E42 5460
408,0	4,0	610,0	38,60	2E42 3469	2E42 5469
508,0	4,0	762,0	60,40	2E42 3480	2E42 5480
610,0	5,0	914,0	105,0	2E42 3494	2E42 5494



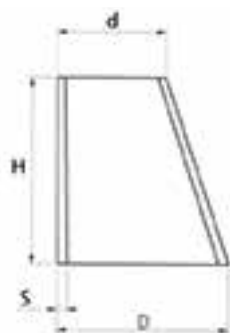
Reduções concentricas DIN 2616 com costura
Concentric reducer DIN 2616 welded execution stainless steel

Lista



OD D x d	Espessura S	H	Kg Weight	304 L	316 L
				Art. N°	Art. N°
48,3 x 26,9	2,0	64	0,15	2E92 3687	2E92 5687
48,3 x 33,7	2,0	64	0,18	2E92 3683	2E92 5683
54,0 x 44,0	2,0	54	0,07	2E92 3690	2E92 5690
60,3 x 48,3	2,0	76	0,19	2E92 3693	2E92 5693
60,3 x 33,7	2,0	76	0,24	2E92 3701	2E92 5701
60,3 x 26,9	2,0	76	0,30	2E92 3704	2E92 5705
70,0 x 44,0	2,0	65	0,15	2E92 3708	2E92 5708
76,1 x 33,7	2,0	90	0,46	2E92 3727	2E92 5727
76,1 x 48,3	2,0	90	0,41	2E92 3718	2E92 5718
76,1 x 60,3	2,0	90	0,45	2E92 3714	2E92 5714
84,0 x 70,0	2,0	80	0,17	2E92 3729	2E92 4728
84,0 x 54,0	2,0	80	0,30	2E92 3730	2E92 4730
88,9 x 60,3	2,0	90	0,50	2E92 3737	2E92 5737
88,9 x 48,3	2,0	90	0,50	2E92 3742	2E92 5742
104,0 x 84,0	2,0	100	0,27	2E92 3760	2E92 5760
104,0 x 70,0	2,0	100	0,37	2E92 3758	2E92 5758
104,0 x 54,0	2,0	100	0,44	2E92 3759	2E92 5759
114,3 x 88,9	2,0	102	0,80	2E92 3769	2E92 5769
114,3 x 76,1	3,0	102	1,10	2E92 3775	2E92 5775
114,3 x 60,3	2,0	102	0,85	2E92 3778	2E92 5778
114,3 x 48,3	2,0	102	0,85	2E92 3783	2E92 5783
129,0 x 84,0	2,0	125	0,70	2E92 3786	2E92 5790
129,0 x 70,0	2,0	125	0,80	2E92 3787	2E92 5787
139,7 x 114,3	2,0	127	1,00	2E92 3795	2E92 5795
139,7 x 88,9	2,0	127	0,90	2E92 3798	2E92 5798
139,7 x 88,9	3,0	127	1,30	2E92 3799	2E92 5799
154,0 x 129,0	2,0	150	0,95	2E92 3808	2E92 5808
154,0 x 104,0	2,0	150	0,95	2E92 3809	2E92 5809
154,0 x 84,0	2,0	150	1,22	2E92 3810	2E92 5810
168,3 x 114,3	2,0	140	1,20	2E92 5822	2E92 5822
168,3 x 114,3	3,0	140	1,74	2E92 3823	2E92 5823
168,3 x 88,9	2,0	140	1,20	2E92 3828	2E92 5828
204,0 x 154,0	2,0	200	1,33	2E92 2839	2E92 5839
204,0 x 129,0	2,0	200	1,85	2E92 2841	2E92 5841
204,0 x 104,0	2,0	200	2,28	2E92 2842	2E92 5842
219,1 x 168,3	2,0	152	2,70	2E92 2845	2E92 5845
219,1 x 168,3	3,0	152	3,40	2E92 3846	2E92 5846
219,1 x 114,3	3,0	152	3,60	2E92 3859	2E92 5859
255,0 x 155,0	2,5	250	3,00	2E92 3868	2E92 5868
255,0 x 205,0	2,5	250	2,10	2E92 38670	2E92 58670
273,0 x 219,1	3,0	178	3,02	2E92 3874	2E92 5874
273,0 x 168,3	3,0	178	5,27	2E92 3880	2E92 5880
323,9 x 273,0	3,0	203	5,46	2E92 3893	2E92 5893
323,9 x 219,1	3,0	203	5,80	2E92 3898	2E92 5898
323,9 x 168,3	3,0	203	6,70	2E92 3902	2E92 5902
355,6 x 273,0	3,0	330	5,90	2E92 3912	2E92 5912
355,6 x 219,1	3,0	330	6,50	2E92 3917	2E92 5917

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

Lista


				304 L	316 L
D x d	S Thickness	H	Kg Weight	Art. Nº	Art. Nº
48,3 x 33,7	2,0	64	0,180	2E93 3683	2E93 5783
60,3 x 48,3	2,0	76	0,210	2E93 3693	2E93 5793
60,3 x 33,7	2,0	76	0,240	2E93 3701	2E93 5701
70,0 x 44,0	2,0	65	0,850	2E93 3708	2E93 5708
76,1 x 48,3	2,0	90	0,410	2E93 3718	2E93 5718
76,1 x 60,3	2,0	90	0,450		
84,0 x 54,0	2,0	89	0,277	2E93 3730	2E93 5730
88,9 x 60,3	2,0	90	0,500	2E93 3737	2E93 5737
88,9 x 60,3	3,0	90	0,700	2E93 3738	2E93 5738
88,9 x 48,3	2,0	90	0,500	2E93 3742	2E93 5742
104,0 x 84,0	2,0	89	0,472	2E93 3758	2E93 5758
104,0 x 70,0	2,0	100	0,435	2E93 3759	2E93 5759
114,3 x 88,9	2,0	100	0,800	2E93 3769	2E93 5769
114,3 x 88,9	3,0	100	1,100	2E93 3770	2E93 5770
114,3 x 76,1	2,0	100	0,800	2E93 3774	2E93 5774
114,3 x 76,1	3,0	100	1,100	2E93 3775	2E93 5775
114,3 x 60,3	2,0	100	0,850	2E93 3778	2E93 5778
129,0 x 70,0	2,0	125	0,622	2E93 3790	2E93 5790
139,7 x 114,3	2,0	127	1,000	2E93 3795	2E93 5795
139,7 x 88,9	2,0	127	0,900	2E93 3798	2E93 5798
154,0 x 104,0	2,0	150	0,972	2E93 3809	2E93 5809
154,0 x 84,0	2,0	150	0,897	2E93 3810	2E93 5810
168,3 x 114,3	2,0	140	1,200	2E93 3823	2E93 5823
168,3 x 114,3	3,0	140	1,700	2E93 3824	2E93 5824
168,3 x 88,9	2,0	140	1,200	2E93 3828	2E93 5828
168,3 x 88,9	3,0	140	1,700	2E93 3829	2E93 5829
204,0 x 154,0	2,0	200	1,800	2E93 3839	2E93 5839
204,0 x 129,0	2,0	200	1,673	2E93 3841	2E93 5841
204,0 x 104,0	2,0	200	1,547	2E93 3842	2E93 5842
219,1 x 168,3	3,0	152	3,400	2E93 3845	2E93 5845
219,1 x 114,3	3,0	152	3,600	2E93 3859	2E93 5859
255,0 x 155,0	2,5	250	3,220	2E93 3870	2E93 5870
273,0 x 219,1	3,0	178	2,200	2E93 3874	2E93 5874
273,0 x 168,3	3,0	178	2,960	2E93 3880	2E93 5880
306,0 x 206,0	3,0	203	5,788	2E93 3897	2E93 5897
323,9 x 219,1	3,0	203	4,153	2E98 3898	2E93 5898
356,0 x 206,0	3,0	330	7,412	2E93 3922	2E93 5922
356,0 x 168,3	3,0	330	6,514	2E93 3924	2E93 5924

Tês iguais ou de redução, Manifoldes
 Igual and reducer tees, Manifolds

Lista


Podemos fornecer, para entrega em 24 horas, Tês iguais ou de redução, como também MANIFOLDES fabricados a partir de tubos do nosso stock, em aço de carbono, liga ou inoxidável, segundo desenho.

Mínimo/ máximo Ø do colector NPS 1 1/2" a 8".
 Mínimo/ máximo Ø de saída NPS 1 1/2" a 6".
 Espessura de parede Sch10 a Sch40.

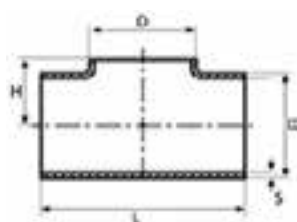
We can supply in 24 hours equal or reduction Tees or MANIFOLDS, manufactured from carbon, alloy or stainless steel pipes, from our stock, according to client drawing.

Minimum/ maximum OD collector NPS 1 1/2" a 8".
 Minimum/ maximum out OD NPS 1 1/2" a 6".
 Wall thickness from Sch 10 to Sch 40.



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

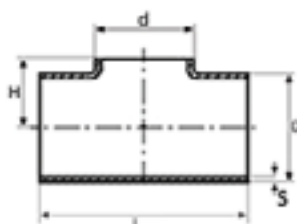
Lista



DN	D mm	S mm	L mm	H mm	Kg/ un.	304 L	316 L
						Art. N°	Art. N°
15	21,3	2,0	51	13	0,44	2F02 3166	2F02 5166
20	26,9	2,0	57	16	0,63	2F02 3188	2F02 5188
25	33,7	2,0	76	20	0,107	2F02 3214	2F02 5214
32	42,4	2,0	95	24	0,179	2F02 3238	2F02 5238
40	48,3	2,0	114	27	0,242	2F02 3255	2F02 5255
50	54,0	2,0	100	30	0,218	2F02 3274	2F02 5274
50	60,3	2,0	100	35	0,345	2F02 3279	2F02 5279
50	60,3	3,0	100	35	0,509	2F02 3280	2F02 5280
65	76,1	2,5	130	45	0,550	2F02 3315	2F02 5315
80	84,0	2,0	160	47	0,680	2F02 3328	2F02 5328
80	88,9	2,0	160	50	0,680	2F02 3330	2F02 5330
80	88,9	3,0	160	50	0,970	2F02 3331	2F02 5331
100	104,0	2,0	200	57	0,954	2F02 3352	2F02 5352
100	114,3	2,0	200	64	1,100	2F02 3358	2F02 5358
100	114,3	3,0	200	64	1,642	2F02 3359	2F02 5359
125	129,0	2,0	250	70	1,423	2F02 3369	2F02 5369
125	139,7	2,0	250	76	1,50	2F02 3372	2F02 5372
125	139,7	3,0	250	76	2,254	2F02 3373	2F02 5373
150	154,0	2,0	300	84	2,150	2F02 3386	2F02 5386
150	168,3	2,0	300	93	2,200	2F02 3391	2F02 5391
150	168,3	3,0	300	93	3,130	2F02 3392	2F02 5392
200	205,0	3,0	400	117	4,760	2F02 3406	2F02 5406
200	219,1	3,0	400	122	3,400	2F02 3408	2F02 5408
200	219,1	3,0	400	122	4,910	2F02 3409	2F02 5409
250	256,0	3,0	500	138	10,000	2F02 3420	2F02 5420
250	273,0	3,0	500	145	7,600	2F02 3422	2F02 5422
300	323,9	3,0	600	176	13,400	2F02 3434	2F02 5434

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

Lista



D	d mm	S mm	L mm	H mm	Kg/ un.	304 L	316 L
						Art. N°	Art. N°
33,7	26,9	2	76	20	0,107	2F12 3660	2F12 5660
33,7	21,3	2	76	21	0,105	2F12 3664	2F12 5664
48,3	33,7	2	114	27	0,242	2F12 3683	2F12 5683
48,3	26,9	2	114	28	0,245	2F12 3687	2F12 5687
60,3	48,3	2	100	35	0,345	2F12 3693	2F12 5693
60,3	33,7	2	100	36	0,346	2F12 3701	2F12 5701
76,1	60,3	2	130	45	0,550	2F12 3714	2F12 5714
76,1	48,3	2	130	45	0,560	2F12 3718	2F12 5718
88,9	60,3	2	160	50	0,610	2F12 3737	2F12 5737
88,9	60,3	3	160	51	0,900	2F12 3738	2F12 5738
88,9	48,3	2	160	52	0,610	2F12 3742	2F12 5742
88,9	33,7	2	160	53	0,610	2F12 3750	2F12 5750
114,3	88,9	3	200	64	1,70	2F12 3769	2F12 5769
114,3	60,3	3	200	65	1,71	2F12 3778	2F12 5778
114,3	48,3	3	200	65	1,80	2F12 3783	2F12 5783
139,7	88,9	2	250	76	1,60	2F12 3798	2F12 5798
139,7	114,3	2	250	76	1,100	2F12 3793	2F12 5793
168,3	114,3	3	300	93	3,150	2F12 3823	2F12 5823
168,3	88,9	3	300	93	3,190	2F12 3828	2F12 5828
219,1	168,3	3	400	122	4,910	2F12 3845	2F12 5845
219,1	114,3	3	400	122	4,980	2F12 3859	2F12 5859

Podemos fornecer em 24 horas Tês de ramos iguais ou de redução em aço 304L ou 316L, bem como manifolds fabricados segundo desenho do cliente. Diâmetro maior do colector 42,4 a 219,1. Diâmetro de saída 42,4 a 168,3.

We can supply in 24 hours Equal or Reduction Tees made from AISI 304 or 316L minimum. Maximum Ø collector NPS 1 1/4" until 8", minimum / maximum out NPS 1 1/4" until 6" - shc 105 to 405.

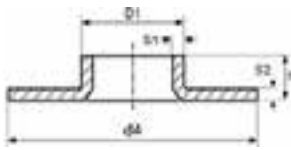
Tampo ISO
 Cap ISO

Lista


					304 L	316 L
DN	D mm	S mm	H mm	Kg/ un.	Art. N°	Art. N°
15	21,3	2	13	0,020	2F22 3166	2F22 5166
20	26,9	2	21,3	0,020	2F22 3188	2F22 5188
25	33,7	2	23	0,030	2F22 3114	2F22 5114
32	42,4	2	24	0,050	2F22 3238	2F22 5238
40	48,3	2	25	0,050	2F22 3255	2F22 5255
50	60,3	2	33	0,120	2F22 3279	2F22 5279
65	76,1	2,5	36	0,180	2F22 3315	2F22 5315
80	88,9	2,5	39	0,260	2F22 3330	2F22 5330
100	114,3	2,5	42	0,460	2F22 3358	2F22 5358
125	139,7	2,5	46	0,550	2F22 3372	2F22 5372
150	168,3	3	54	0,950	2F22 3391	2F22 5391
200	219,1	3	62	1,400	2F22 3409	2F22 5409
250	273,0	3	72	2,100	2F22 3422	2F22 5422
300	323,9	3	89	3,000	2F22 3424	2F22 5434

Colarinho curto de chapa prensada
Stainless steel light press collars

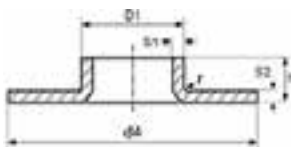
Lista



DN	D1	d4 max.	s1 min.	s2 min.	h	Press. MPa	Kg Weight	304 L	316 L
								Art. Nº	Art. Nº
15	21,3	45	2,0	2,0	6	16	0,028	2F62 3166	2F62 5166
20	26,9	58	2,0	2,0	8	16	0,040	2F62 3188	2F62 5188
25	33,7	68	2,0	2,0	9	16	0,051	2F62 3214	2F62 5214
32	42,4	78	2,0	2,0	10	16	0,07	2F62 3238	2F62 5238
40	48,3	88	2,0	2,0	10	16	0,082	2F62 3255	2F62 5255
50	54,0	102	2,0	2,0	12	16	0,12	2F62 3276	2F62 5276
50	60,3	102	2,0	2,0	12	16	0,110	2F62 3279	2F62 5279
50	60,3	102	3,0	3,0	12	16	0,161	2F62 3282	2F62 5282
65	70,0	122	2,0	2,0	12	16	0,154	2F62 3300	2F62 5300
65	76,1	122	2,0	2,0	12	16	0,145	2F62 3315	2F62 5315
65	76,1	122	3,0	3,0	12	16	0,217	2F62 3318	2F62 5318
80	84,0	139	2,0	2,0	13	10	0,20	2F62 3328	2F62 5328
80	88,9	139	2,0	2,0	12	10	0,19	2F62 3330	2F62 5330
80	88,9	139	3,0	3,0	13	16	0,280	2F62 3333	2F62 5333
100	104,0	158	2,0	2,0	16	10	0,22	2F62 3352	2F62 5352
100	114,3	158	2,0	2,0	16	10	0,215	2F62 3358	2F62 5358
100	114,3	158	3,0	3,0	17	16	0,330	2F62 3360	2F62 5360
125	129,0	188	2,0	2,0	15	10	0,313	2F62 3369	2F62 5369
125	139,7	188	2,0	2,0	16	10	0,280	2F62 3372	2F62 5372
125	139,7	188	3,0	3,0	17	16	0,420	2F62 3374	2F62 5374
150	154,0	212	2,0	2,0	18	10	0,38	2F62 3386	2F62 5386
150	168,3	212	2,0	2,0	18	10	0,318	2F62 3391	2F62 5391
150	168,3	212	3,0	3,0	18	10	0,477	2F62 3393	2F62 5393
200	204,0	268	2,0	2,0	20	10	0,543	2F62 3406	2F62 5406
200	206,0	268	3,0	3,0	20	10	0,82	2F62 3407	2F62 5407
200	219,1	270	2,0	2,0	20	10	0,48	2F62 3408	2F62 5408
200	219,1	270	3,0	3,0	22	10	0,70	2F62 3410	2F62 5410
250	256,0	320	3,0	3,0	25	6	1,070	2F62 3420	2F62 5420
250	273,0	323	3,0	3,0	20	6	0,835	2F62 3422	2F62 5422
250	273,0	323	4,0	5,0	22	10	1,113	2F62 3423	2F62 5423
300	306,0	370	3,0	3,0	21	4	1,300	2F62 3433	2F62 5433
300	323,9	370	3,0	3,0	20		0,962	2F62 3434	2F62 5434
300	323,9	370	4,0	5,0	20		1,282	2F62 3435	2F62 5435
350	356,0	430	3,0	3,0	21		1,870	2F62 3457	2F62 5457
400	406,4	482	3,0	3,0	21		1,770	2F62 3459	2F62 5459
400	408,0	482	4,0	4,0	21		2,360	2F62 3460	2F62 5460
450	457,2	532	4,0	4,0	25		2,790	2F62 3472	2F62 5472
500	508,0	585	4,0	4,0	25		3,048	2F62 3480	2F62 5480
600	609,6	685	4,0	4,0	26		3,625	2F62 3493	2F62 5493

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

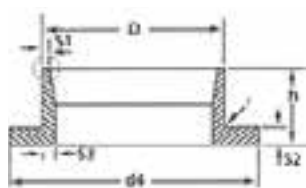
Lista



DN	D1	d4 max.	s1 min.	s2 min.	r	h	Kg Weight	304 L	316 L
								Art. Nº	Art. Nº
15	21,3	45	2,0	3,0	3	9	0,05	2F52 3166	2F52 5166
20	26,9	58	2,0	3,0	3	12	0,06	2F52 3138	2F52 5188
25	33,7	68	2,0	3,0	4	15	0,09	2F52 3214	2F52 5214
32	42,4	78	2,0	3,0	4	15	0,11	2F52 3238	2F52 5238
40	48,3	88	2,0	3,0	4	17	0,12	2F52 3255	2F52 5255
50	60,3	102	2,6	3,5	5	23	0,22	2F52 3279	2F52 5279
65	76,2	122	2,6	3,5	5	23	0,28	2F52 3315	2F52 5315
80	88,9	138	2,6	3,5	5	23	0,38	2F52 3333	2F52 5333
100	114,3	158	2,6	3,5	5	28	0,45	2F52 3360	2F52 5360
125	139,7	188	2,6	3,5	5	30	0,64	2F52 3372	2F52 5372
150	168,3	212	3,0	3,5	5	30	0,70	2F52 3393	2F52 5393
200	219,1	268	3,6	4,0	5	30	1,30	2F52 3410	2F52 5410
250	273,0	320	3,6	4,0	5	30	1,70	2F52 3422	2F52 5422
300	323,9	370	3,6	4,0	5	35	2,00	2F52 3434	2F52 5434
350	355,6	430	4,0	4,0	6	35	2,50	2F52 3457	2F52 5457
400	406,4	482	4,0	4,0	7	40	4,00	2F52 3460	2F52 5460
450	458,0	530	4,0	5,0	7	40	4,50	2F52 3472	2F52 5472
500	508,0	585	5,0	5,0	7	40	5,00	2F52 3480	2F52 5480
600	609,6	685	5,0	5,0	7	40	6,20	2F52 3493	2F52 5493

Colarinhos PN10 EN 1092-1 type 35 - ISO
 Welding rings with collar

Lista 2155



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
300	323,9	370	68	12	3,6	6,0	3	6,70	2F92 34401	2F92 34401
350	355,6	430	68	13	3,6	7,0	3	9,5	2F92 34521	2F92 34521
400	406,4	482	72	14	3,6	8,0	5	11,60	2F92 34641	2F92 34641
450	457,0	532	72	15	4,0	8,0	5	15,00	2F92 34751	2F92 34751
500	508,0	585	75	16	5,0	8,0	5	15,90	2F92 34831	2F92 34831
600	609,6	685	80	18	6,3	10,0	5	23,00	2F92 34951	2F92 34951
700	711,2	800	80	20	6,3	10,0	5	30,90	2F92 35021	2F92 35021
800	812,8	905	90	20	8,0	12,0	5	41,50	2F92 35041	2F92 35041
900	914,4	1005	95	22	8,0	12,0	5	51,20	2F92 35051	2F92 35051
1000	1016,0	1110	95	24	8,0	12,0	5	62,70	2F92 35061	2F92 35061
1200	1220,0	1330	115	26	10,0	16,0	5	100,00	2F92 35091	2F92 35091

Colarinhos PN16 EN 1092-1 type 35 - ISO
 Welding rings with collar

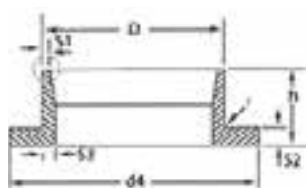
Lista 2155



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
40	48,3	88	42	6	2,0	3,0	3	0,35	2F92 32562	2F92 52562
50	60,3	102	45	8	2,0	3,0	3	0,53	2F92 32742	2F92 52742
65	76,1	122	45	8	2,6	4,0	3	0,70	2F92 33182	2F92 53182
80	88,9	138	50	10	2,6	4,0	3	1,00	2F92 33282	2F92 53282
100	114,3	158	52	10	3,0	4,0	3	1,30	2F92 33612	2F92 53612
125	139,7	188	55	10	3,0	5,0	3	1,90	2F92 33752	2F92 53752
150	168,3	212	55	10	4,0	6,0	3	2,40	2F92 33882	2F92 53882
200	219,1	268	62	11	4,0	6,0	3	3,90	2F92 34142	2F92 54142
250	273,0	320	70	12	5,0	8,0	3	5,80	2F92 34252	2F92 54252
300	323,9	378	78	14	5,0	10,0	3	9,50	2F92 34402	2F92 54402
350	355,6	438	82	18	5,0	10,0	3	15,20	2F92 34522	2F92 54522
400	406,4	490	85	20	6,3	12,0	5	19,10	2F92 34642	2F92 54642
450	457,0	550	85	15	6,0	12,0	5	24,00	2F92 34752	2F92 54752
500	508,0	610	90	22	8,0	12,0	5	29,10	2F92 34832	2F92 54832
600	609,6	725	95	20	8,0	12,0	5	40,30	2F92 34952	2F92 54952
700	711,2	795	100	20	10,0	14,0	5	45,20	2F92 35022	2F92 55022
800	812,8	900	105	22	12,0	16,0	5	60,00	2F92 35042	2F92 55042
900	914,4	1000	110	24	12,0	18,0	5	75,60	2F92 35052	2F92 55052
1000	1016,0	1115	120	32	15,0	20,0	5	106,40	2F92 35062	2F92 55062

Colarinhos PN25 EN 1092-1 type 35 - ISO
 Welding rings with collar

Lista 2155



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
200	219,1	278	80	15	5,0	8,0	3	6,60	2F92 34143	2F92 54143
250	273,0	335	88	17	6,3	10,0	3	9,80	2F92 34253	2F92 54253
300	323,9	395	92	20	8,0	10,0	3	15,30	2F92 34403	2F92 54403
350	355,6	450	100	22	8,0	12,0	3	20,80	2F92 34523	2F92 54523
400	406,4	505	110	24	8,0	14,0	5	28,60	2F92 34643	2F92 54643
450	457,2	555	110	26	8,0	15,0	5	34,40	2F92 34753	2F92 54753
500	508,0	615	135	28	10,0	16,0	5	45,80	2F92 34833	2F92 54833
600	609,6	720	145	30	12,0	18,0	5	61,40	2F92 34953	2F92 54953
700	711,0	820	155	30	14,0	20,0	5	85,30	2F92 35023	2F92 55023
800	813,0	930	170	35	16,0	20,0	5	106,20	2F92 35043	2F92 55043

Colarinhos PN40 EN 1092-1 type 35 - ISO
 Welding rings with collar

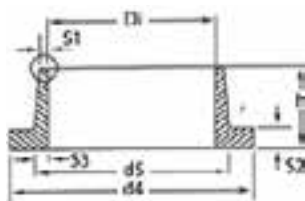
Lista 2155



DN	D mm	d4 mm	h mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
10	17,2	40	35	5	2,0	3	3	0,08	2F92 31494	2F92 51494
15	21,3	45	38	5	2,6	3	3	0,09	2F92 31704	2F92 51704
20	26,9	58	40	6	2,6	3	3	0,17	2F92 31894	2F92 51894
25	33,7	68	40	7	2,6	3	3	0,26	2F92 32164	2F92 52164
32	42,4	78	42	8	2,6	3	3	0,36	2F92 32394	2F92 52394
40	48,3	88	45	8	2,6	3	3	0,45	2F92 32564	2F92 52564
50	60,3	102	48	10	3,2	4	3	0,69	2F92 32744	2F92 52744
65	76,1	122	52	11	3,2	5	3	1,10	2F92 33184	2F92 53184
80	88,9	138	58	12	4,0	6	3	1,60	2F92 33284	2F92 53284
100	114,3	162	65	14	4,0	6	3	2,40	2F92 33614	2F92 53614
125	139,7	188	68	16	4,0	6	3	3,20	2F92 33754	2F92 53754
150	168,3	218	75	18	4,0	8	3	4,60	2F92 33884	2F92 53884
200	219,1	285	88	20	5,0	10	3	8,80	2F92 34144	2F92 54144
250	273,0	345	105	22	6,3	12	3	14,40	2F92 34254	2F92 54254
300	323,9	410	115	25	8,0	12	3	20,70	2F92 34404	2F92 54404
350	355,6	465	125	28	8,0	14	3	30,70	2F92 34524	2F92 54524
400	406,4	535	135	32	10,0	16	5	45,40	2F92 34644	2F92 54644

Colarinhos PN10 EN 1092-1 type 35 Metrico
Welding rings with collars

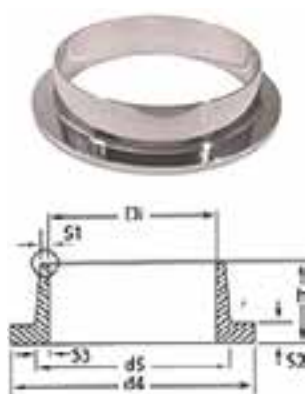
Lista 2155



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
300	370	60	316	12	3,0	8,0	4	6,80	2F82 34401	2F82 54401
350	430	60	366	12	3,5	8,0	6	9,50	2F82 34521	2F82 54521
400	482	65	416	12	3,5	9,0	7	11,60	2F82 34641	2F82 54641
450	532	70	466	15	3,5	9,0	9	15,00	2F82 34751	2F82 54751
500	585	75	518	15	4,0	10,0	9	15,90	2F82 34831	2F82 54831
600	685	80	620	15	4,0	10,0	9	23,00	2F82 34951	2F82 54951
700	800	90	724	15	4,5	12,0	9	30,90	2F82 35021	2F82 55021
800	905	100	826	15	5,0	13,0	9	41,50	2F82 35041	2F82 55041
900	1005	110	930	18	6,0	15,0	10,5	50,00	2F82 35051	2F82 55051
1000	1110	120	1036	18	8,0	18,0	10,5	58,90	2F82 35061	2F82 55061
1200	1330	130	1236	22	10,0	18,0	12	93,20	2F82 35091	2F82 55091

Colarinhos PN16 EN 1092-1 type 35 Metrico
Welding ring with collars

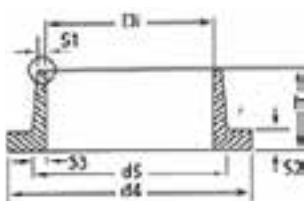
Lista 2155



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
40	88	45	44	6	2,0	2,0	3,5	0,45	2F82 32562	2F82 52562
50	102	45	54	8	2,0	2,0	4,0	0,53	2F82 32742	2F82 52742
65	122	45	70	10	2,5	3,0	4,0	0,70	2F82 33182	2F82 53182
80	138	50	86	10	3,0	3,0	4,0	1,00	2F82 33282	2F82 53282
100	158	50	108	10	3,0	4,0	4,0	1,30	2F82 33612	2F82 53612
125	188	50	135	10	3,0	5,0	4,0	1,90	2F82 33752	2F82 53752
150	212	50	160	10	3,0	5,0	4,0	2,40	2F82 33882	2F82 53882
200	268	65	214	10	3,0	7,0	4,0	3,90	2F82 34142	2F82 54142
250	320	65	266	12	3,5	8,0	4,0	5,80	2F82 34252	2F82 54252
300	370	65	320	12	4,0	10,0	4,0	9,50	2F82 34402	2F82 54402
350	430	70	370	15	4,5	11,0	7,0	15,20	2F82 34522	2F82 54522
400	482	80	424	15	5,0	12,0	8,0	18,70	2F82 34642	2F82 54642
450	532	85	474	15	5,0	12,0	9,0	24,40	2F82 34752	2F82 54752
500	585	95	524	18	5,0	12,0	10,5	29,10	2F82 34832	2F82 54832
600	685	100	628	18	6,0	14,0	10,5	40,30	2F82 34952	2F82 54952
700	795	110	728	20	10,0	15,0	10,5	45,20	2F82 35022	2F82 55022
800	900	110	832	22	12,0	17,0	10,5	59,90	2F82 35042	2F82 55042
900	1000	115	936	24	12,0	18,0	12	75,60	2F82 35052	2F82 55052
1000	1115	130	1036	32	15,0	20,0	12	106,46	2F82 35062	2F82 55062
1200	1330	130	1244	32	15,0	22,0	12	130,50	2F82 35072	2F82 55072

Colarinhos PN25 EN 1092-1 type 35 Metrico
Welding ring with collars

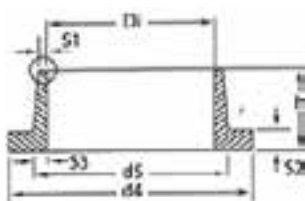
Lista 2155



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
200	278	65	219	12	5,0	9,0	7,0	6,60	2F82 34143	2F82 54143
250	335	75	274	15	6,5	10,0	8,0	10,20	2F82 34253	2F82 54253
300	390	80	325	16	7,5	11,5	9,0	15,30	2F82 34403	2F82 54403
350	450	85	374	18	5,0	13,0	6,0	20,80	2F82 34523	2F82 54523
400	505	95	427	18	6,0	14,0	7,0	28,60	2F82 34643	2F82 54643
450	555	105	480	20	8,0	15,0	8,0	34,40	2F82 34753	2F82 54753
500	615	115	530	22	8,0	15,0	8,0	45,80	2F82 34833	2F82 54833
600	720	115	636	24	12,0	18,0	9,0	61,00	2F82 34953	2F82 54953

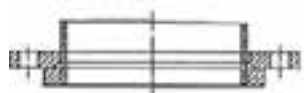
Colarinhos PN40 EN 1092-1 type 35 Metrico
Welding ring with collars

Lista 2155



DN/Di	d4 mm	h mm	d5 mm	S2 mm	S1 mm	S3 mm	r mm	Kg	AISI TP 304L Art. N°	AISI TP 316L Art. N°
20	58	40	2,6	6	2,5	3,0	5,0	0,17	2F82 31894	2F82 51894
25	68	40	31,0	6	2,5	3,0	6,0	0,26	2F82 32164	2F82 52164
32	78	40	37,0	6	2,5	3,5	6,0	0,36	2F82 32394	2F82 52394
40	88	45	47,0	8	2,5	3,5	6,0	0,45	2F82 32564	2F82 52564
50	102	45	58,0	8	2,5	4,0	6,0	0,69	2F82 32744	2F82 52744
65	122	45	74,0	10	2,5	4,5	6,0	1,10	2F82 33184	2F82 53184
80	138	55	89,0	10	3,0	4,5	6,0	1,60	2F82 33284	2F82 53284
100	162	55	110,0	10	3,0	5,0	7,0	2,40	2F82 33614	2F82 53614
125	188	55	137,0	12	3,5	6,0	7,0	3,20	2F82 33754	2F82 53754
150	218	65	164,0	12	4,0	7,0	7,0	4,60	2F82 33884	2F82 53884
200	285	85	220,0	20	6,0	10,0	8,0	8,80	2F82 34144	2F82 54144
250	345	100	274,0	22	8,0	12,0	8,0	14,40	2F82 34254	2F82 54254
300	410	110	330,0	24	9,0	15,0	8,0	20,70	2F82 34404	2F82 54404

Aneis para soldar DIN 2642, PN10
 Welding rings DIN 2642, PN10

Lista


						304 L	316 L
DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight	Art. N°	Art. N°
DN10 a DN40 ver PN40							
DN50 a DN150 ver PN16							
200	204,0	205,0	268	20	3,100	2F94 3406	2F94 5406
200	219,1	220,1	268	20	3,100	2F94 3408	2F94 5408
250	255,0	258,0	320	22	4,220	2F94 3420	2F94 5420
250	273,0	276,0	320	22	4,220	2F94 3425	2F94 5425
300	306,0	309,5	370	22	4,850	2F94 3433	2F94 5433
300	323,9	327,6	370	22	4,850	2F94 3434	2F94 5434
350	355,6	359,5	430	22	6,710	2F94 3452	2F94 5452
350	356,0	360,0	430	22	6,710	2F94 3457	2F94 5457
400	406,4	411,0	482	24	8,280	2F94 3464	2F94 5464
400	408,0	412,4	482	24	8,280	2F94 3469	2F94 5469
450	456,0	459,0	532	25	10,200	2F94 3475	2F94 5475
500	508,0	513,0	585	26	11,500	2F94 3483	2F94 5483

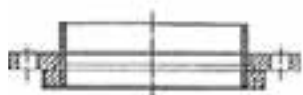
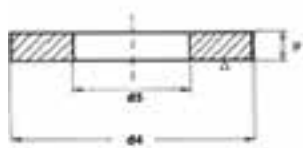
Aneis para soldar DIN 2654, PN16
 Welding rings DIN 2654, PN16

Lista


						304 L	316 L
DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight	Art. Nº	Art. Nº
DN15 a DN40 usar aneis PN40							
50	54,0	55,0	102	14	0,618	2F94 4274	2F94 6274
50	60,3	60,8	102	14	0,618	2F94 4283	2F94 6283
65	70,0	71,5	122	14	0,786	2F94 4300	2F94 6300
65	76,2	76,6	122	14	0,786	2F94 4318	2F94 6318
80	84,0	85,0	138	16	1,100	2F94 4328	2F94 6328
80	88,9	90,3	138	16	1,100	2F94 4334	2F94 6334
100	104,0	105,0	158	16	1,310	2F94 4352	2F94 6352
100	114,3	115,5	158	16	1,310	2F94 4361	2F94 6361
125	129,0	130,0	186	18	1,960	2F94 4369	2F94 6369
125	139,7	140,7	188	18	1,960	2F94 4375	2F94 6375
150	154,0	155,0	212	18	2,180	2F94 4386	2F94 6386
150	168,3	170,0	212	18	2,180	2F94 4388	2F94 6388
200	204,0	205,0	268	20	3,100	2F94 4406	2F94 6406
200	219,1	220,1	268	20	3,100	2F94 4414	2F94 6414
250	255,0	258,0	320	22	4,220	2F94 4419	2F94 6419
250	273,0	276,0	320	22	4,220	2F94 4425	2F94 6425
300	306,0	309,5	370	24	4,850	2F94 4433	2F94 6433
300	323,9	327,6	370	24	4,850	2F94 4440	2F94 6440
350	355,6	359,5	430	26	6,710	2F94 4452	2F94 6452
350	356,0	360,0	430	26	6,710	2F94 4457	2F94 6457
400	406,4	411,0	482	28	8,280	2F94 4464	2F94 6464
400	408,0	412,4	482	28	8,280	2F94 4469	2F94 6469
450	456,0	459,0	522	30	10,200	2F94 4475	2F94 6475
500	508,0	513,0	585	32	11,500	2F94 4483	2F94 6483

Aneis para soldar DIN 2655, PN25
Welding rings DIN 2655, PN25

Lista



						304 L	316 L
DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg Weight	Art. Nº	Art. Nº
DN15 a DN150 usar aneis para soldar DIN 2656 PN40							
200	204,0	206,5	278	24	4,53	2F94 7406	2F94 8406
200	219,1	221,8	278	24	4,53	2F94 7414	2F94 8414
250	255,0	257,5	335	26	6,56	2F94 7419	2F94 8419
250	273,0	276,0	335	26	6,56	2F94 7425	2F94 8425
300	306,0	309,0	395	28	9,80	2F94 7433	2F94 8433
300	323,9	327,0	395	28	8,80	2F94 7440	2F94 8440
350	355,6	359,5	450	32	13,20	2F94 7452	2F94 8452
350	356,0	359,6	450	32	13,20	2F94 7452	2F94 8452
400	406,4	411,0	505	34	16,50	2F94 7460	2F94 8460
400	408,0	409,9	505	34	16,50	2F94 7469	2F94 8469
500	508,0	512,6	615	38	25,30	2F94 7480	2F94 8480

Aneis para soldar DIN 2656, PN40
Welding rings DIN 2656, PN40

Lista



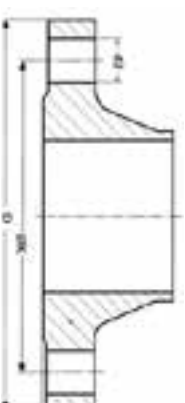
						304 L	316 L
DN	Ø Ext. Tubo	d5	d4 max.	h min.	Kg	Art. Nº	Art. Nº
15	20,0	21,0	45	12	0,126	2F94 7160	2F94 8160
15	21,3	22,0	45	12	0,126	2F94 7168	2F94 8168
20	25,0	26,0	58	14	0,236	2F94 7178	2F94 8178
20	26,9	27,6	58	14	0,236	2F94 7189	2F94 8189
25	30,0	30,7	68	14	0,321	2F94 7201	2F94 8201
25	33,7	34,4	68	14	0,321	2F94 7214	2F94 8214
32	38,0	38,7	78	14	0,401	2F94 71226	2F94 81226
32	42,4	43,1	78	14	0,401	2F94 7239	2F94 8239
40	44,0	44,7	88	14	0,498	2F94 7250	2F94 8250
40	48,3	49,0	88	14	0,498	2F94 7256	2F94 8256
50	54,0	54,8	102	16	0,706	2F94 7274	2F94 8274
50	60,3	61,1	102	16	0,706	2F94 7283	2F94 8283
65	70,0	71,0	122	16	0,898	2F94 7300	2F94 8300
65	76,2	77,1	122	16	0,898	2F94 7318	2F94 8318
80	88,9	85,0	138	18	1,230	2F94 7328	2F94 8328
80	88,9	90,3	138	18	1,230	2F94 7334	2F94 8334
100	104,0	105,5	162	20	1,800	2F94 7352	2F94 8352
100	114,3	115,9	162	20	1,800	2F94 7361	2F94 8361
125	129,0	130,5	188	22	2,400	2F94 7369	2F94 8369
125	139,7	141,5	188	22	2,400	2F94 7375	2F94 8375
150	154,0	156,0	218	22	3,020	2F94 7386	2F94 8386
150	168,3	170,5	218	22	3,020	2F94 7388	2F94 8388
200	204,0	206,5	285	26	5,540	2F94 7406	2F94 8406
200	219,1	221,8	285	26	5,540	2F94 7414	2F94 8414
250	255,0	257,5	345	30	8,830	2F94 7419	2F95 8419
250	273,0	276,2	345	30	8,830	2F94 7425	2F94 8425
300	306,0	309,0	410	34	14,000	2F94 7433	2F94 8433
300	323,9	327,6	410	34	14,000	2F94 7440	2F94 8440
350	355,6	359,5	465	38	18,900	2F94 7452	2F94 8452
350	356,0	359,6	465	38	18,900	2F94 7457	2F94 8457
400	406,4	411,0	535	42	28,400	2F94 7460	2F94 8460
400	408,0	409,5	535	42	28,400	2F94 7469	2F94 8469

Flanges segundo EN 1092-1 (antes DIN 2501)

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

Principais dimensões das flanges

Main flange dimensions



NOX
L

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	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	Ver dimensões PN40 See dimensions PN40	90	60	14	4	10
15	80	55	11	4					185	145	18	*8(4)					95	65	14	4	15
20	90	65	11	4					200	160	18	8					105	75	14	4	20
25	100	75	11	4					220	180	18	8					115	85	14	4	25
32	120	90	14	4					250	210	18	8					140	100	18	4	32
40	130	100	14	4	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	Ver dimensões PN16 See dimensions PN16	360	310	26	12	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	40
50	140	110	14	4					285	240	22	8					165	125	18	4	50
65	160	130	14	4					340	295	22	8					185	145	18	8	65
80	190	150	18	4					405	355	26	12					200	160	18	8	80
100	210	170	18	4					425	370	30	12					235	190	22	8	100
125	240	200	18	8	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	555	490	33	16	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN10 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	270	220	26	8	125
150	265	225	18	8					620	550	36	16					300	250	26	8	150
200	320	280	18	8					670	600	36	20					375	320	30	12	200
250	375	335	18	12					730	660	36	20					425	370	30	12	250
300	440	395	22	12					845	770	39	20					485	430	30	16	300
350	490	445	22	12	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	580	510	36	16	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	515	450	33	16	350
400	540	495	22	16					620	550	36	16					580	510	36	16	400
450	595	550	22	16					670	600	36	20					660	585	39	16	450
500	645	600	22	20					730	660	36	20					685	610	39	20	500
600	755	705	26	20					845	770	39	20					755	670	42	20	600
700	860	810	26	24	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	960	875	42	24	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	Ver dimensões PN6 a PN 40 tem 8 furos. Refer to the latest DIN data sheet (Beuth - Vertrieb GmbH Berlin and Köln - Germany)	890	795	48	20	700
800	975	920	30	24					1085	990	48	24									800
900	1075	1020	30	24					1185	1090	48	28									900
1000	1175	1120	30	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)

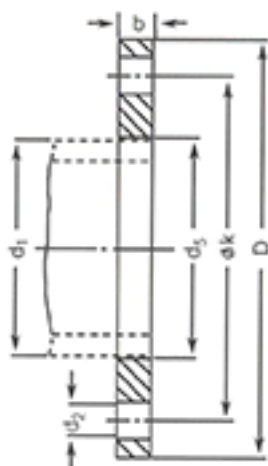


Flange rosca

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

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

Flanges

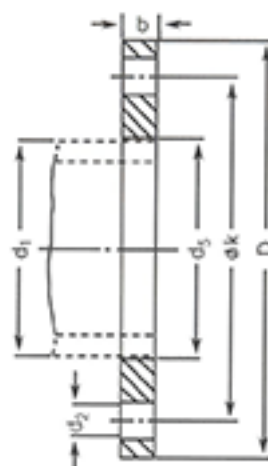


DN	Ø Tubo	D	d5	b	k	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40 DN50 a DN150 ver PN16									
200	219,10	340	221,5	24	295	8 x 22	9,30	2A32 3414	2A32 5414
250	273,00	395	276,5	26	350	12 x 22	12,00	2A32 3425	2A32 5425
300	323,90	445	327,5	26	400	12 x 22	14,00	2A32 3440	2A32 5440
350	355,60	505	359,5	30	460	16 x 22	21,00	2A32 3452	2A32 5452
400	406,40	565	411,0	32	515	16 x 26	28,00	2A32 3464	2A32 5464
450	457,00	615	462,0	36	565	20 x 26	34,00	2A32 3475	2A32 5475
500	508,00	670	513,5	38	620	20 x 26	40,20	2A32 3483	2A32 5483
600	612,00	780	616,5	42	725	20 x 30	54,50	2A32 3495	2A32 5495
700	711,00	895	a)	50	840	24 x 30		2A32 3502	2A32 5502
800	813,00	1015	a)	56	950	24 x 33		2A32 3504	2A32 5504
900	914,00	1115	a)	62	1050	28 x 33		2A32 3505	2A32 5505
1000	1016,0	1230	a)	70	1160	28 x 36		2A32 3506	2A32 5506
1200	1219,0	1455	a)	83	1380	32 x 39		2A32 3509	2A32 5509

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

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

Flanges

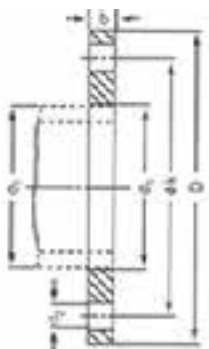


DN	Ø Tubo	D	d5	b	k	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40									
50	60,3	165	61,5	20	125	4 x 18	2,80	2A32 3283	2A32 5283
65	76,1	185	77,5	20	145	8 x 18	3,16	2A32 3318	2A32 5318
80	88,9	200	90,5	20	160	8 x 18	3,60	2A32 3334	2A32 5334
100	114,3	220	116,0	22	180	8 x 18	4,40	2A32 3361	2A32 5361
125	139,7	250	141,5	22	210	8 x 18	5,41	2A32 3375	2A32 5375
150	168,3	285	170,5	24	240	8 x 22	7,14	2A32 3388	2A32 5388
200	219,1	340	221,5	26	295	12 x 22	9,73	2A32 3414E	2A32 5414E
250	273,0	405	276,5	29	355	12 x 26	14,20	2A32 3425E	2A32 5425E
300	323,9	460	327,5	32	410	12 x 26	19,00	2A32 3440E	2A32 5440E
350	355,6	520	359,5	35	470	16 x 26	28,20	2A32 3452E	2A32 5452E
400	406,4	580	411,0	38	525	16 x 30	36,00	2A32 3464E	2A32 5464E
450	457,0	640	462,0	42	585	20 x 30	46,10	2A32 3475E	2A32 5475E
500	508,0	715	513,5	46	650	20 x 33	64,00	2A32 3483E	2A32 5483E
600	610,0	840	616,5	55	770	20 x 36	102,00	2A32 3495E	2A32 5495E
700	711,0	910	a)	63	840	24 x 36	-	2A32 3502E	2A32 5502E
800	813,0	1025	a)	74	950	24 x 39	-	2A32 3504E	2A32 5504E
900	914,0	1125	a)	82	1050	28 x 39	-	2A32 3505E	2A32 5505E
1000	1016,0	1255	a)	90	1170	28 x 42	-	2A32 3506E	2A32 5506E

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

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

Lista

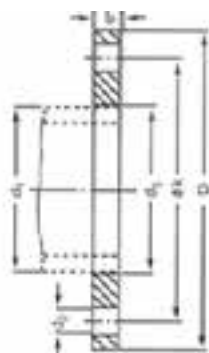


DN	ØTubo	D	d5	b	k	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN150 ver PN40									
200	219,1	360	221,5	32	310	12 x 26	14,30	2A32 3414F	2A32 5414F
250	273,0	425	276,5	35	370	12 x 30	20,10	2A32 3425F	2A32 5425F
300	323,9	485	327,5	38	430	16 x 30	26,60	2A32 3440F	2A32 5440F
350	355,6	555	359,5	42	490	16 x 33	41,80	2A32 3452F	2A32 5452F
400	406,4	620	411,0	48	550	16 x 36	57,60	2A32 3464F	2A32 5464F
450	457,0	670	462,0	54	600	20 x 36	69,80	2A32 3475F	2A32 5475F
500	508,0	730	513,5	58	660	20 x 36	87,00	2A32 3483F	2A32 5483F
600	610,0	845	616,5	68	770	20 x 39	127,00	2A32 3495F	2A32 5495F
700	711,0	960	a)	85	875	24 x 42	-	2A32 3505F	2A32 5505F
800	813,0	1085	a)	95	990	24 x 48	-	2A32 3504F	2A32 5504F

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

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

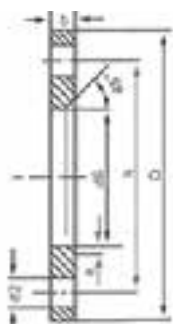
Lista



DN	ØTubo	b	D	k	d5	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
10	17,2	14	90	60	18,0	4 x 14	0,60	2A32 3149	2A32 5149
15	21,3	14	95	65	22,0	4 x 14	0,67	2A32 3168	2A32 5168
20	26,9	16	105	75	27,5	4 x 14	0,94	2A32 3189	2A32 5189
25	33,7	16	115	85	34,5	4 x 14	1,11	2A32 3216	2A32 5216
32	42,4	18	140	100	43,5	4 x 18	1,82	2A32 3239	2A32 5239
40	48,3	18	150	110	49,5	4 x 18	2,08	2A32 3256	2A32 5256
50	60,3	20	165	125	61,5	4 x 18	2,73	2A32 3283G	2A32 5283G
65	76,1	22	185	145	77,5	8 x 18	3,48	2A32 3318G	2A32 5318G
80	88,9	24	200	160	90,5	8 x 18	4,32	2A32 3334G	2A32 5334G
100	114,3	26	235	190	116,0	8 x 22	6,07	2A32 3361G	2A32 5361G
125	139,7	28	270	220	141,5	8 x 26	8,19	2A32 3375G	2A32 5375G
150	168,3	30	300	250	170,5	8 x 26	10,30	2A32 3388G	2A32 5388G
200	219,1	36	375	320	221,5	12 x 30	17,90	2A32 3414G	2A32 5414G
250	273,0	42	450	385	276,5	12 x 33	29,30	2A32 3425G	2A32 5425G
300	323,9	52	515	450	327,5	16 x 33	45,10	2A32 3440G	2A32 5440G
350	355,6	58	580	510	359,5	16 x 36	66,70	2A32 3452G	2A32 5452G
400	406,4	65	660	585	411,0	16 x 39	97,10	2A32 3464G	2A32 5464G

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

Lista



DN	ØTubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40										
DN50 a DN150 ver PN16										
200	204,00	340,0	211	20	295	5	8 x 22	8,90	2B12 3406	2B12 5406
200	219,10	340,0	226	20	295	5	12 x 22	8,87	2B12 3414	2B12 5414
250	254,00	395,0	262	22	350	5	12 x 22	11,30	2B12 3419	2B12 5419
250	273,00	395,0	281	22	350	5	12 x 22	11,30	2B12 3425	2B12 5425
300	306,00	445,0	315	26	400	5	12 x 22	13,00	2B12 3433	2B12 5433
300	323,90	445,0	333	26	400	6	12 x 22	13,00	2B12 3434	2B12 5434
350	356,00	505,0	365	28	450	6	16 x 22	14,40	2B12 3457	2B12 5457
400	408,00	565,0	416	32	515	6	16 x 26	26,50	2B12 3469	2B12 5469
450	457,20	615,0	467	38	565	6	20 x 26	32,60	2B12 3475	2B12 5475
500	508,00	670,0	519	38	620	6	20 x 26	38,50	2B12 3483	2B12 5483
600	610,00	780,0	622	44	725	6	20 x 30	52,30	2B12 3495	2B12 5495

Para flanges loucas em aço carbono galvanizado ver pag. A43-44.
 For galvanized carbon steel poosse flanges, please see pag. A43-44.

Flanges loucas, EN 1092-1 Tipo 02 PN16
Loose flanges

Lista

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
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DN10 a DN40 ver PN40

50	54,0	165	58,5	20	125	5	4 x 18	2,60	2B12 3274	2B12 5274
50	60,3	165	65,0	20	125	6	4 x 18	2,52	2B12 3283	2B12 5283
65	70,0	185	75,0	20	145	6	8 x 18	2,93	2B12 3300	2B12 5300
65	76,1	185	81,0	20	145	6	8 x 18	3,10	2B12 3318	2B12 5318
80	84,0	200	89,0	20	160	6	8 x 18	3,50	2B12 3328	2B12 5328
80	88,9	200	94,0	20	160	6	8 x 18	3,50	2B12 3334	2B12 5334
100	104,0	220	110,0	22	180	6	8 x 18	4,25	2B12 3352	2B12 5352
100	114,3	220	120,0	22	180	6	8 x 18	4,20	2B12 3361	2B12 5361
125	129,0	250	134,0	22	210	6	8 x 18	5,30	2B12 3369	2B12 5369
125	139,7	250	145,0	22	210	6	8 x 18	5,21	2B12 3375	2B12 5375
150	154,0	285	160,0	24	240	6	8 x 22	6,98	2B12 3386	2B12 5386
150	168,3	285	174,0	24	240	6	8 x 22	6,90	2B12 3388	2B12 5388
200	204,0	340	210,0	26	295	6	12 x 22	9,40	2B12 3406	2B12 5406
200	219,1	340	226,0	26	295	6	12 x 22	9,31	2B12 3414E	2B12 5414E
250	254,0	405	262,0	29	355	8	12 x 26	13,80	2B12 3419E	2B12 5419E
250	273,0	405	281,0	29	355	8	12 x 26	13,75	2B12 3425E	2B12 5425E
300	306,0	460	315,0	32	410	8	12 x 26	18,30	2B12 3433E	2B12 5433E
300	323,9	460	333,0	32	410	8	12 x 26	18,00	2B12 3440E	2B12 5440E
350	355,6	520	365,0	35	470	8	16 x 26	27,00	2B12 3452E	2B12 5452E
400	406,4	580	416,0	38	525	8	16 x 30	34,60	2B12 3464E	2B12 5464E
450	457,0	640	467,0	42	585	8	20 x 30	44,60	2B12 3475E	2B12 5475E
500	508,0	715	519,0	46	650	8	20 x 33	62,00	2B12 3483E	2B12 5483E

Flanges loucas galvanizadas, EN 1092-1 Tipo 02 PN25
Loose flanges hot dipped galvanized

Lista

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
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DN10 a DN150 ver PN40

200	206,0	360	212,0	32	310	6	12 x 26	13,85	2B12 3407F	2B12 5407F
200	219,1	360	226,0	32	310	6	12 x 26	13,80	2B12 3414F	2B12 5414F
250	256,0	425	264,0	35	370	8	12 x 30	19,48	2B12 3420F	2B12 5420F
250	273,1	425	281,0	35	370	8	12 x 30	19,40	2B12 3425F	2B12 5425F
300	306,0	485	315,0	38	430	8	16 x 30	25,80	2B12 3433F	2B12 5433F
300	323,9	485	333,0	38	430	8	16 x 30	25,50	2B12 3440F	2B12 5440F
350	355,6	555	365,0	42	490	8	16 x 35	40,50	2B12 3452F	2B12 5452F
400	406,4	620	416,0	48	550	8	16 x 36	56,10	2B12 3464F	2B12 5464F
450	457,0	670	467,0	54	600	8	20 x 36	67,80	2B12 3475F	2B12 5475F
500	508,0	730	519,0	58	660	8	20 x 36	84,60	2B12 3483F	2B12 5483F

Flanges loucas, EN 1092-1 Tipo 02 ISO PN40
Loose flanges

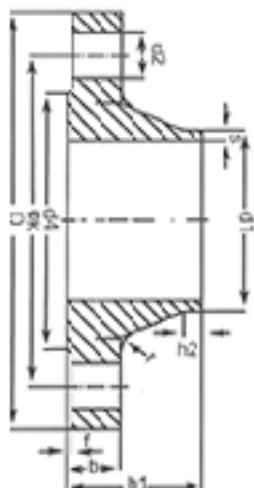
Lista

DN	Ø Tubo	D	d6	b	k	e	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
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10	17,2	90	21,0	14	60	3	4 x 14	0,59	2B12 3149	2B12 5149
15	21,3	95	25,0	14	65	3	4 x 14	0,65	2B12 3168	2B12 5168
20	26,9	105	31,0	16	75	4	4 x 14	0,91	2B12 3189	2B12 5189
25	33,7	115	38,0	16	85	4	4 x 14	1,08	2B12 3216	2B12 5216
32	42,4	140	47,0	18	100	5	4 x 18	1,77	2B12 3239	2B12 5239
40	48,3	150	53,0	18	110	5	4 x 18	2,02	2B12 3256	2B12 5256
50	54,0	165	58,5	20	125	5	8 x 18	2,70	2B12 3274G	2B12 5274G
50	60,3	165	65,0	20	125	6	8 x 18	2,65	2B12 3283G	2B12 5283G
65	70,0	185	75,0	22	145	8	8 x 18	3,42	2B12 3300G	2B12 5300G
65	76,1	185	81,0	22	145	8	8 x 18	3,36	2B12 3318G	2B12 5318G
80	84,0	200	89,0	24	160	8	8 x 18	4,25	2B12 3328G	2B12 5328G
80	88,9	200	94,0	24	160	8	8 x 18	4,18	2B12 3334G	2B12 5334G
100	104,0	235	110,0	26	190	8	8 x 22	5,95	2B12 3352G	2B12 5352G
100	114,3	235	120,0	26	190	8	8 x 22	5,87	2B12 3361G	2B12 5361G
125	130,0	270	135,0	28	220	8	8 x 26	8,10	2B12 3369G	2B12 5369G
125	139,7	270	145,0	28	220	8	8 x 26	7,95	2B12 3375G	2B12 5375G
150	156,0	300	162,0	30	250	8	8 x 26	10,20	2B12 3386G	2B12 5386G
150	168,3	300	174,0	30	250	8	8 x 26	10,10	2B12 3388G	2B12 5388G
200	208,0	375	214,0	36	320	8	12 x 30	17,80	2B12 3407G	2B12 5407G
200	219,1	375	226,0	36	320	8	12 x 30	17,50	2B12 3414G	2B12 5414G
250	260,0	450	268,0	42	385	8	12 x 33	28,50	2B12 3420G	2B12 5420G
250	273,1	450	281,0	42	385	8	12 x 33	28,40	2B12 3425G	2B12 5425G
300	310,0	515	320,0	52	450	8	16 x 33	43,70	2B12 3433G	2B12 5433G
300	323,8	515	333,0	52	450	8	16 x 33	43,60	2B12 3440G	2B12 5440G
350	355,6	580	365,0	58	510	8	16 x 36	64,90	2B12 3452G	2B12 5452G
400	406,4	660	416,0	65	585	8	16 x 39	95,10	2B12 3464G	2B12 5464G

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

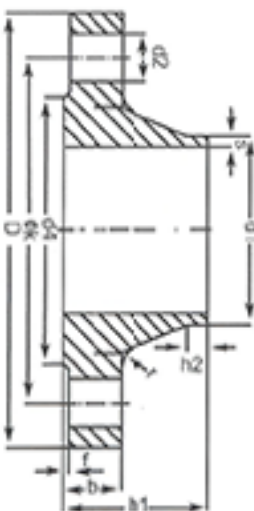
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
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	2A72 3414	2A72 5414
250	273,00	6,3	395	26	350	68	16	320	3	12 x 22	16,00	2A72 3425	2A72 5425
300	323,90	7,1	445	26	400	68	16	370	4	12 x 22	18,00	2A72 3440	2A72 5440
350	355,60	7,1	505	26	460	68	16	430	4	16 x 22	25,60	2A72 3452	2A72 5452
400	406,40	7,1	565	26	515	72	16	482	4	16 x 26	30,60	2A72 3464	2A72 5464
450	457,00	7,1	615	28	565	72	16	532	4	20 x 26	51,00	2A72 3475	2A72 5475
500	508,00	7,1	670	28	620	75	16	585	4	20 x 26	40,50	2A72 3484	2A72 5484
600	610,00	8,0	780	30	725	82	18	685	5	20 x 30	53,00	2A72 3495	2A72 5495
700	711,00	8,8	895	35	840	85	18	800	5	24 x 30	76,00	2A72 3502	2A72 5502
800	813,00	8,8	1015	38	950	96	18	905	5	24 x 33	102,00	2A72 3504	2A72 5504
900	914,00	12,5	1115	38	1050	99	20	1005	5	28 x 33	121,00	2A72 3505	2A72 5505
1000	1016,00	12,5	1230	44	1160	105	20	1110	5	28 x 36	161,00	2A72 3506	2A72 5506

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

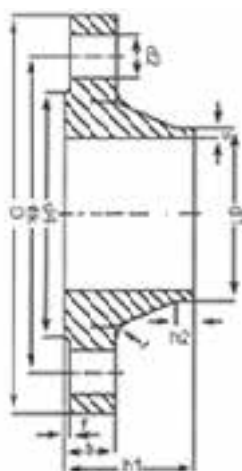
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40													
50	60,30	2,9	165	18	125	45	8	102	3	4 x 18	2,53	2A82 3281	2A82 5281
65	76,10	2,9	185	18	145	45	10	122	3	8 x 18	3,06	2A82 3318	2A82 5318
80	88,90	3,2	200	20	160	50	10	138	3	8 x 18	3,70	2A82 3334	2A82 5334
100	108,00	3,6	220	20	180	52	12	158	3	8 x 18	4,62	2A82 3353	2A82 5353
100	114,30	3,6	220	20	180	52	12	158	3	8 x 18	4,61	2A82 3361	2A82 5361
125	139,70	4,0	250	22	210	55	12	188	3	8 x 18	6,25	2A82 3369	2A82 5369
150	168,30	4,5	285	22	240	55	12	212	3	8 x 22	7,75	2A82 3397	2A82 5397
200	219,10	6,3	340	24	295	62	16	268	3	12 x 26	11,00	2A82 3414	2A82 5414
250	273,00	6,3	405	26	355	70	16	320	3	12 x 26	15,60	2A82 3425	2A82 5425
300	323,90	7,1	460	28	410	78	16	378	4	12 x 26	22,00	2A82 3440	2A82 5440
350	355,60	8,0	520	30	470	82	16	438	4	16 x 26	32,20	2A82 3452	2A82 5452
400	406,40	8,0	580	32	525	85	16	490	4	16 x 30	39,30	2A82 3464	2A82 5464
450	457,00	8,0	640	34	585	83	16	550	4	20 x 30	46,10	2A82 3475	2A82 5475
500	508,00	8,0	715	36	650	84	16	610	4	20 x 33	61,00	2A82 3484	2A82 5484
600	610,00	10,0	840	40	770	88	18	725	5	20 x 36	75,40	2A82 3495	2A82 5495
700	711,00	10,0	910	40	840	104	18	795	5	24 x 36	87,40	2A82 3502	2A82 5502
800	813,00	12,5	1025	41	950	108	20	900	5	24 x 39	109,00	2A82 3504	2A82 5504
900	914,00	12,5	1125	48	1050	118	20	1000	5	28 x 39	129,00	2A82 3505	2A82 5505
1000	1016,00	12,5	1255	59	1170	137	22	1115	5	28 x 42	175,00	2A82 3506	2A82 5506

Flanges com colarinho, forma C, EN 1092-1 Tipo 11 PN25 (DIN 2634)
Lista 2155

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	AISI TP 304L Art. Nº	AISI TP 316L Art. Nº
200	219,1	6,3	360	30	310	80	16	278	3	12 x 26	17,0	2A92 3414	2A92 5414
250	273,0	7,1	425	32	370	88	18	335	3	12 x 30	24,4	2A92 3425	2A92 5425
300	323,9	8,0	485	34	430	92	18	395	4	16 x 30	31,8	2A92 3440	2A92 5440
350	355,6	8,0	555	38	490	100	20	450	4	16 x 33	48,8	2A92 3452	2A92 5452
400	406,4	8,8	620	40	550	110	20	505	4	16 x 36	63,3	2A92 3464	2A92 5464
450	457,0	8,8	670	46	600	110	20	555	4	20 x 36	76,0	2A92 3475	2A92 5475
500	508,0	10,0	730	48	660	125	20	615	4	20 x 36	97,0	2A92 3483	2A92 5483
600	610,0	11,0	845	48	770	125	20	720	4	20 x 39	121,0	2A92 3495	2A92 5495
700	711,0	14,2	960	50	875	129	20	820	5	24 x 42	155,0	2A92 3502	2A92 5502
800	813,0	16,0	1085	53	990	138	22	930	5	24 x 48	205,0	2A92 3504	2A92 5504
900	914,0	17,5	1185	57	1090	148	24	1030	5	24 x 48	249,0	2A92 3505	2A92 5505
1000	1016,0	20,0	1320	63	1210	160	24	1140	5	24 x 56	338,0	2A92 3506	2A92 5506

Flanges com colarinho, forma C, EN 1092-1 Tipo 11 PN40, (DIN 2635)
Lista 2155

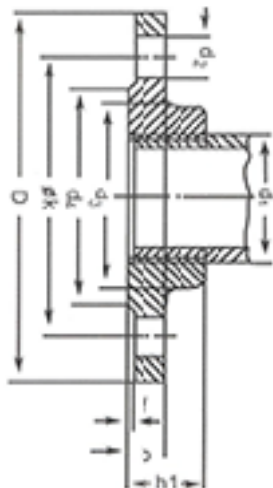
Welding neck flanges



DN	Ø Tubo d1	Esp. Tick	D	b	k	h1	h2	d4	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. Nº	AISI TP 316L Art. Nº
15	21,30	2,0	95	16	65	38	6	45	2	4 x 14	0,77	2B02 3166	2B02 5166
20	26,90	2,3	105	16	75	40	6	58	2	4 x 14	1,09	2B02 3189	2B02 5189
25	33,70	2,6	115	18	85	40	6	68	2	4 x 14	1,29	2B02 3216	2B02 5216
32	42,40	2,6	140	18	100	42	6	78	2	4 x 18	1,88	2B02 3239	2B02 5239
40	48,30	2,6	150	18	110	45	7	88	2	4 x 18	2,15	2B02 3256	2B02 5256
50	60,30	2,9	165	20	125	48	8	102	3	4 x 18	2,85	2B02 3281	2B02 5281
65	76,10	2,9	185	22	145	52	10	122	3	8 x 18	3,70	2B02 3318	2B02 5318
80	88,90	3,2	200	24	160	58	12	138	3	8 x 18	4,80	2B02 3334	2B02 5334
100	114,30	3,6	235	24	190	65	12	162	3	8 x 22	6,50	2B02 3361	2B02 5361
125	139,70	4,0	270	26	220	68	12	190	3	8 x 26	8,90	2B02 3369	2B02 5369
150	168,30	4,5	300	28	250	75	12	218	3	8 x 26	11,80	2B02 3397	2B02 5397
200	219,10	6,3	375	34	320	88	16	285	4	12 x 30	21,50	2B02 3414	2B02 5414
250	273,00	7,1	450	38	385	105	18	345	4	12 x 33	34,90	2B02 3425	2B02 5425
300	323,90	8,0	515	42	450	115	18	410	4	16 x 36	48,00	2B02 3440	2B02 5440
350	355,60	8,8	580	46	510	125	20	465	4	16 x 36	69,30	2B02 3452	2B02 5452
400	406,40	11,0	660	50	585	135	20	535	4	16 x 39	98,80	2B02 3464	2B02 5464
450	457,00	12,5	685	57	610	135	20	560	4	20 x 39	105,00	2B02 3475	2B02 5475
500	508,00	14,2	755	57	680	140	20	615	4	20 x 42	130,00	2B02 3483	2B02 5483
600	610,00	16,0	890	72	890	150	20	735	4	20 x 48	209,00	2B02 3495	2B02 5495

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

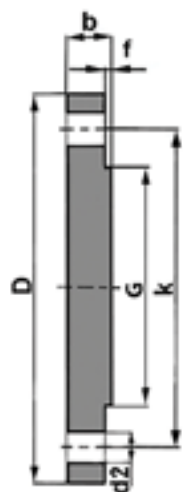
Threaded flanges



DN	PN	Rosca	D	b	k	h1	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
15	10/40	R 1/2"	95	14	45	20	2	4 x 14	0,77	2B52 3168	2B52 5168
20	10/40	R 3/4"	105	16	58	24	2	4 x 14	1,09	2B52 3189	2B52 5189
25	10/40	R 1"	115	16	68	24	2	4 x 14	1,30	2B52 3216	2B52 5216
32	10/40	R 1 1/4"	140	16	78	26	2	4 x 18	1,91	2B52 3239	2B52 5239
40	10/40	R 1 1/2"	150	16	88	26	2	4 x 18	2,15	2B52 3256	2B52 5256
50	10/40	R 2"	165	18	102	28	3	4 x 18	2,55	2B52 3281	2B52 5281
65	10/40	R 2 1/2"	185	18	122	32	3	8 (4) x 18	3,08	2B52 3318	2B52 5318
80	10/16	R 3"	200	20	138	34	3	8 x 18	4,12	2B52 3334	2B52 5334
100	10/16	R 4"	220	20	158	38	3	8 x 18	4,47	2B52 3361	2B52 5361
125	10/16	R 5"	250	22	188	40	3	8 x 18	6,13	2B52 3371	2B52 5371
150	10/16	R 6"	285	22	212	44	3	8 x 22	7,01	2B52 3397	2B52 5397

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

Blind flanges



DN	D	b	k	G	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40 DN50 a DN150 ver PN16									
200	340	24	295	268	3	8 x 22	16,50	2A42 3414	2A42 5414
250	395	26	350	324	3	12 x 22	24,70	2A42 3425	2A42 5425
300	445	26	400	374	4	12 x 22	30,80	2A42 3440	2A42 5440
350	505	26	460	434	4	16 x 22	40,00	2A42 3452	2A42 5452
400	565	26	515	482	4	16 x 26	50,00	2A42 3464	2A42 5464
450	615	28	565	534	4	20 x 26	63,00	2A42 3475	2A42 5475
500	670	28	620	588	4	20 x 26	75,20	2A42 3483	2A42 5483
600	780	34	725	695	4	20 x 30	124,00	2A42 3495	2A42 5495
700	895	38	840	804	5	24 x 30	183,00	2A42 3502	2A42 5502
800	1015	48	950	910	5	24 x 33	297,00	2A42 3504	2A42 5504
900	1115	50	1050	1010	5	28 x 33	374,00	2A42 3505	2A42 5505
1000	1230	54	1160	1118	5	28 x 36	492,00	2A42 3506	2A42 5506

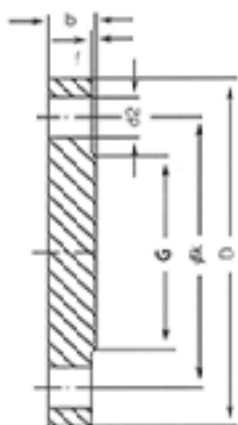
Flanges cegas EN 1092-1 Type 05/A, PN16
Lista

Blind flanges

DN	D	b	k	G	f	d2 Furos x Ø	Kg Weight	AISI TP 304L Art. N°	AISI TP 316L Art. N°
DN10 a DN40 ver PN40									
50	165	18	125	102	3	4 x 18	2,88	2A52 3281	2A52 5281
65	185	18	145	122	3	8 x 18	3,66	2A52 3318	2A52 5318
80	200	20	160	138	3	8 x 18	4,77	2A52 3334	2A52 5334
100	220	20	180	158	3	8 x 18	5,65	2A52 3361	2A52 5361
125	250	22	210	188	3	8 x 18	8,42	2A52 3369	2A52 5369
150	285	22	240	212	3	8 x 22	10,5	2A52 3397	2A52 5397
200	340	24	295	268	4	12 x 22	16,5	2A52 3414	2A52 5414
250	405	26	355	320	4	12 x 26	25,0	2A52 3425	2A52 5425
300	460	28	410	378	4	12 x 26	36,0	2A52 3440	2A52 5440
350	520	30	470	438	4	16 x 26	48,0	2A52 3452	2A52 5452
400	580	32	525	490	4	16 x 30	63,5	2A52 3464	2A52 5464
450	640	40	585	550	4	20 x 30	96,6	2A52 3475	2A52 5475
500	715	44	650	610	4	20 x 33	133,0	2A52 3483	2A52 5483
600	840	54	770	725	4	20 x 36	226,0	2A52 3495	2A52 5495
700	910	58	840	795	5	24 x 36	285,0	2A52 3502	2A52 5502
800	1025	62	950	900	5	24 x 39	388,0	2A52 3504	2A52 5504
900	1125	64	1050	1000	5	28 x 39	483,0	2A52 3505	2A52 5505
1000	1255	68	1170	1115	5	28 x 42	640,0	2A52 3506	2A52 5506

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

Blind flanges

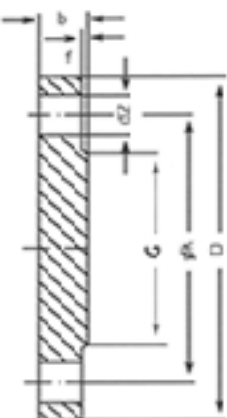


DN	D	b mm	k	G	f	d2 Nº Furos x Ø	Kg Weight	AISI TP 304L Art. Nº	AISI TP 316L Art. Nº
DN10 a DN150 ver PN40									
200	360	30	310	278	3	12 x 26	22,70	2A62 3414	2A62 5414
250	425	32	370	335	3	12 x 30	34,00	2A62 3425	2A62 5425
300	485	34	430	395	4	16 x 30	46,30	2A62 3440	2A62 5440
350	555	38	490	450	4	16 x 33	68,10	2A62 3452	2A62 5452
400	620	40	550	505	4	16 x 36	90,00	2A62 3464	2A62 5464
450	670	50	600	555	4	20 x 36	130,00	2A62 3475	2A62 5475
500	730	51	660	615	4	20 x 36	160,00	2A62 3483	2A62 5483
600	845	66	770	720	5	20 x 39	278,00	2A62 3495	2A62 5495
700	960	a)	875	820	5	24 X 42	-	2A62 3502	2A62 5502
800	1085	a)	990	930	5	24 X 48	-	2A62 3504	2A62 5504

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)
Lista

Blind flanges



DN	D	b mm	k	G	f	d2 Nº furos x Ø	Kg Weight	AISI TP 304L Art. Nº	AISI TP 316L Art. Nº
15	95	16	65	45	2	4 x 14	0,81	2442 3168	2442 5168
20	105	18	75	58	2	4 x 14	1,14	2442 3189	2442 5189
25	115	18	85	68	2	4 x 14	1,38	2442 3216	2442 5216
32	140	18	100	78	2	4 x 18	2,03	2442 3239	2442 5239
40	150	18	110	88	2	4 x 18	2,35	2442 3256	2442 5256
50	165	20	125	102	3	4 x 18	3,20	2442 3283	2442 5283
65	185	22	145	122	3	8 x 18	4,29	2442 3318	2442 5318
80	200	24	160	138	3	8 x 18	5,54	2442 3334	2442 5334
100	235	24	190	162	3	8 x 22	7,60	2442 3361	2442 5361
125	270	26	220	190	3	8 x 26	10,80	2442 3375	2442 5375
150	300	28	250	218	3	8 x 26	14,60	2442 3388	2442 5388
200	375	36	320	285	4	12 x 30	28,80	2442 3407	2442 5407
250	450	38	385	345	4	12 x 33	44,50	2442 3425	2442 5425
300	515	42	450	410	4	16 x 33	64,30	2442 3440	2442 5440
350	580	46	510	465	4	16 x 36	90,00	2442 3452	2442 5452
400	660	50	585	535	4	16 x 39	127,00	2442 3464	2442 5464
450	685	57	610	560	4	20 x 39	154,00	2442 3475	2442 5475
500	755	57	670	615	4	20 x 42	190,00	2442 3483	2442 5483
600	890	72	795	735	4	20 x 48	331,00	2442 3495	2442 5495

Flanges loucas PN10 a 200 °C, DIN 2642
 Pressed loose flange

Lista 2155


DN	d1 mm	D mm	d5 mm	k mm	a mm	b mm	d2 Furos x Ø	Kg Weight	AISI 304L Art. Nº	AISI 316L Art. Nº
25	33,7	115	37	85	3	16,0	4 x 13,5	0,30	2B22 2216	2B22 4216
32	42,4	140	46	100	3	16,5	4 x 18	0,45	2B22 2239	2B22 4239
40	48,3	150	54	110	4	17,5	4 x 18	0,62	2B22 2256	2B22 4256
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	2B22 2281	2B22 4281
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	2B22 2318	2B22 4318
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	2B22 2334	2B22 4334
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	2B22 2361	2B22 4361
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	2B22 2375	2B22 4375
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	2B22 2397	2B22 4397
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	2B22 2414	2B22 4414
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	2B22 2425	2B22 4425
300	323,9	445	329	400	8	34,0	12 x 22	7,70	2B22 2440	2B22 4440
350	355,6	505	363	460	8	36,0	16 x 22	7,50	2B22 2444	2B22 4444
400	406,4	565	414	515	8	38,0	16 x 26	9,20	2B22 2448	2B22 4448

Flanges roscadas PN16 a 200 °C, DIN 2566
 Pressed threaded flange

Lista 2155


DN	d5 mm	D mm	k mm	a mm	b mm	d2 Furos x Ø	Kg Weight	AISI 304L Art. Nº	AISI 316L Art. Nº
25	1"	115	85	3	16	4 x 13,5	0,45	2B54 4216	2B54 6216
32	1 1/4"	140	100	3	16	4 x 17,5	0,70	2B54 4239	2B54 6239
40	1 1/2"	150	110	4	17,5	4 x 17,5	0,80	2B54 4256	2B54 6256
50	2"	165	125	4	19,5	4 x 17,5	1,20	2B54 4283	2B54 6283
65	2 1/2"	185	145	4	21,0	4 x 17,5	1,60	2B54 4318	2B54 6318
80	3"	200	160	5	22,0	8 x 17,5	1,90	2B54 4334	2B54 6334
100	4"	220	180	6	23,0	8 x 17,5	2,30	2B54 4361	2B54 6361

Flanges loucas aço AISI 304, com colarinho PN16 DIN 2542
 Loose flange with collar

Lista 2155


DN	d1 mm	D mm	k mm	a mm	H mm	b mm	d2 Furos x Ø	Kg	Collar 304L Art. Nº	Collar 316L Art. Nº
25	33,7	115	85	3	38	16,0	4 x 13,5	0,50	2B42 2216	2B42 4216
32	42,4	140	100	3	40	16,5	4 x 17,5	0,70	2B42 2239	2B42 4239
40	48,3	150	110	4	42	17,5	4 x 17,5	0,93	2B42 2256	2B42 4256
50	60,3	165	125	4	45	19,5	4 x 17,5	1,30	2B42 2281	2B42 4281
65	76,1	185	145	4	45	21,0	4 x 17,5	1,80	2B42 2318	2B42 4318
80	88,9	200	160	5	50	22,0	8 x 17,5	2,00	2B42 2334	2B42 4334
100	114,3	220	180	6	52	23,0	8 x 17,5	2,95	2B42 2361	2B42 4361
125	139,7	250	210	6	55	25,0	8 x 17,5	3,50	2B42 2373	2B42 4373
150	168,3	285	240	6	55	27,0	8 x 21,5	4,20	2B42 2397	2B42 4397

Flanges cegas PN10 200° C, DIN 2527
 Blind flanges

Lista 2155


DN	D mm	k mm	a mm	b mm	d2 Furos x Ø	Kg	AISI TP 304L Art. Nº	AISI TP 316L Art. Nº
25	115	85	3	16,0	4 x 13,5	0,46	2B32 3216	2B52 3216
32	140	100	3	16,5	4 x 17,5	0,76	2B32 3239	2B52 3239
40	150	110	4	17,5	4 x 17,5	0,85	2B32 3249	2B52 3249
50	165	125	4	19,5	4 x 17,5	1,30	2B32 3264	2B52 3264
65	185	145	4	21,0	4 x 17,5	1,70	2B32 3212	2B52 3212
80	200	160	5	22,0	8 x 17,5	2,00	2B32 3328	2B52 3328
100	220	180	6	23,0	8 x 17,5	2,50	2B32 3362	2B52 3362
125	250	210	6	25,0	8 x 17,5	3,40	2B32 3369	2B52 3369
150	285	240	6	27,0	8 x 21,5	4,15	2B32 3386	2B52 3386

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

Lista 2035



Size	L	Kg Weight	Art. N°
1/2"	22	0,177	2K02 4168
3/4"	25	0,168	2K02 4189
1"	28	0,255	2K02 4216
1 1/4"	33	0,350	2K02 4239
1 1/2"	36	0,450	2K02 4256
2"	43	0,710	2K02 4283

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

Lista 2035



Size	L1	Kg Weight	Art. N°
1/4"	19,5	0,037	2K12 4134
3/8"	24,0	0,055	2K12 4149
1/2"	29,0	0,110	2K12 4168
3/4"	32,0	0,150	2K12 4189
1"	37,5	0,275	2K12 4216
1 1/4"	43,5	0,400	2K12 4239
1 1/2"	48,0	0,512	2K12 4256
2"	55,5	0,754	2K12 4283
2 1/2"	67,0	1,692	2K12 4318

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

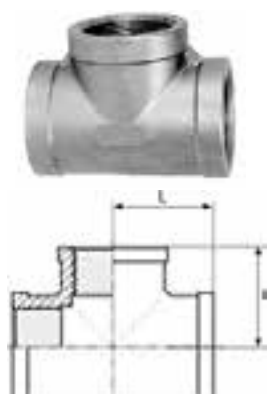
Lista 2035



Size	L1	L2	Kg Weight	Art. N°
1/4"	21	30	0,038	2K22 4134
3/8"	25	35	0,061	2K22 4149
1/2"	28	40	0,110	2K22 4168
3/4"	33	47	0,160	2K22 4189
1"	38	54	0,262	2K22 4216
1 1/4"	44	62	0,430	2K22 4239
1 1/2"	47	68	0,540	2K22 4256
2"	59	79	0,817	2K22 4283

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

Lista 2035



Size	L	Kg Weight	Art. N°
1/4"	20,0	0,054	2K82 4134
3/8"	23,6	0,085	2K82 4149
1/2"	29,0	0,144	2K82 4168
3/4"	33	0,210	2K82 4189
1"	38	0,360	2K82 4216
1 1/4"	45	0,500	2K82 4239
1 1/2"	48	0,700	2K82 4256
2"	56,5	1,010	2K82 4283

Estes acessórios são os indicados para instalar juntamente com os tubos da pag. C17
 All this fittings are suitable to instal with threaded pipes pag. C17.

União simples, AISI 316 / CF8M
 Coupling socket

Lista 2035



Size	L	D	Kg Weight	Art. Nº
1/4"	25	18,5	0,030	2L62 4134
3/8"	26	21,3	0,033	2L62 4149
1/2"	34	26,5	0,065	2L62 4168
3/4"	36	32,0	0,084	2L62 4189
1"	43	39,0	0,145	2L62 4216
1 1/4"	48	49,0	0,204	2L62 4239
1 1/2"	48	55,0	0,242	2L62 4256
2"	56	66,5	0,350	2L62 4283
2 1/2"	65	82,0	0,506	2L62 4318
3"	71	95,0	0,700	2L62 4338

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

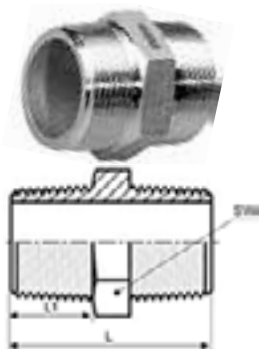
Lista 2035



Size	L	D	Kg Weight	Art. Nº
1/4"	15	18,5	0,012	2L63 4134
3/8"	16,5	21,3	0,015	2L63 4149
1/2"	18	26,5	0,028	2L63 4168
3/4"	20,5	32,0	0,038	2L63 4189
1"	23,5	39,5	0,060	2L63 4216
1 1/4"	26,5	49,0	0,091	2L63 4239
1 1/2"	26,5	55,0	0,108	2L63 4256
2"	29,5	66,5	0,158	2L63 4283
2 1/2"	31	82,0	0,233	2L63 4318
3"	34,5	95,0	0,305	2L63 4338
4"	38	122	0,560	2L63 4361

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

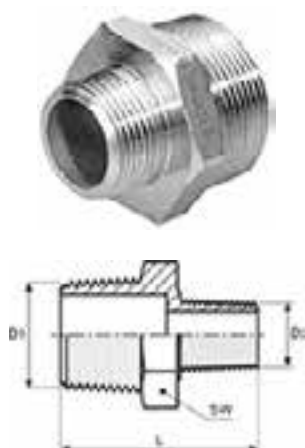
Lista 2035



Size	L	L1	SW	Kg Weight	Art. Nº
1/4"	33,0	13,0	15	0,028	2L82 4134
3/8"	33,0	13,0	20	0,047	2L82 4149
1/2"	41,0	16,5	23	0,080	2L82 4168
3/4"	44,0	18,0	29	0,109	2L82 4189
1"	49,0	20,5	36	0,174	2L82 4216
1 1/4"	52,0	22,0	46	0,247	2L82 4239
1 1/2"	52,0	22,2	51	0,371	2L82 4256
2"	58,0	25,0	63	0,530	2L82 4283
2 1/2"	63,0	28,0	79,5	1,141	2L82 4318
3"	69,0	30,5	95	1,366	2L82 4330
4"	80,0	36,0	120	1,900	2L82 4361

Casquilho sextavado de redução
 Reducing hexagonal nipple

Lista

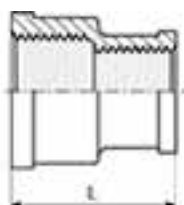


Size	L	SW	Kg Weight	Art. Nº
1/2" x 3/8"	40	26	0,080	2002 4622
1/2" x 1/4"	40	26	0,078	2002 4623
3/4" x 1/2"	45	32	0,115	2002 4624
3/4" x 3/8"	42	32	0,100	2002 4625
1" x 3/4"	51	38	0,175	2002 4628
1" x 1/2"	48	38	0,180	2002 4629
1 1/4" x 1"	54	46	0,260	2002 4632
1 1/4" x 3/4"	55	46	0,265	2002 4633
1 1/2" x 1 1/4"	58	54	0,360	2002 4635
1 1/2" x 1"	55	54	0,350	2002 4636
1 1/2" x 3/4"	53	54	0,360	2002 4637
2" x 1 1/2"	64	63	0,500	2002 4639
2" x 1"	60	63	0,530	2002 4641
2 1/2" x 2"	74	80	0,850	2002 4644
2 1/2" x 1 1/2"	70	80	0,830	2002 4645

 Estes acessórios são os indicados para instalar juntamente com os tubos da pag. C17.
 All this fittings are suitable to instal with threaded pipes pag. C17.

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

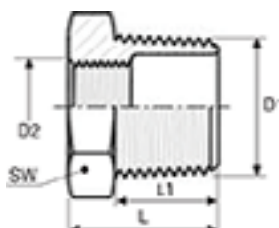
Lista 2035



Size	L	Kg Weight	Art. Nº
1/4" x 1/8"	28,5	0,030	2M92 4620
1/2" x 3/8"	45	0,104	2M92 4622
1/2" x 1/4"	45	0,105	2M92 4623
3/4" x 1/2"	45	0,140	2M92 4624
1" x 3/4"	50	0,235	2M92 4628
1" x 1/2"	50	0,234	2M92 4629
1 1/4" x 1"	50	0,340	2M92 4632
1 1/2" x 1 1/4"	57	0,434	2M92 4635
1 1/2" x 1"	57	0,436	2M92 4636
2" x 1 1/2"	57	0,660	2M92 4639

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

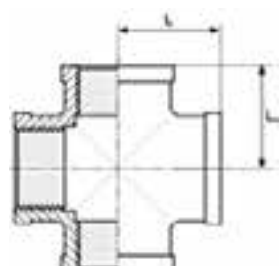
Lista 2035



Size	L	L 1	SW	Kg Weight	Art. Nº
1/2" x 3/8"	25,5	20	26	0,059	2N12 4622
1/2" x 1/4"	25,5	20	26	0,059	2N12 4623
3/4" x 1/2"	26,5	20	32	0,091	2N12 4624
3/4" x 3/8"	26,5	20	32	0,091	2N12 4625
1" x 3/4"	33,5	25,5	38	0,153	2N12 4628
1" x 1/2"	33,5	25,5	38	0,153	2N12 4629
1 1/4" x 1"	34,0	26,0	46	0,220	2N12 4632
1 1/4" x 1/2"	34,0	26,0	46	0,220	2N12 4634
1 1/2" x 1 1/4"	36,0	26,0	52	0,293	2N12 4635
1 1/2" x 1"	36,0	26,0	52	0,293	2N12 4636
1 1/2" x 3/4"	36,0	26,0	52	0,300	2N12 4637
2" x 1 1/2"	36,0	26,0	63,0	0,456	2N12 4639
2" x 1 1/4"	36,0	26,0	63,0	0,480	2N12 4640
2" x 1"	36,0	26,0	63,0	0,500	2N12 4641
2 1/2" x 2"	49,0	37,0	80	0,827	2N12 4644
2 1/2" x 1 1/2"	49,0	37,0	80	0,827	2N12 4645

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

Lista 2035



Size	L	Kg Weight	Art. Nº
1/4"	19,0	0,083	2K83 4134
3/8"	23,0	0,167	2K83 4149
1/2"	29,0	0,220	2K83 4168
3/4"	32,5	0,325	2K83 4189
1"	37,5	0,540	2K83 4216

Estes acessórios são os indicados para instalar juntamente com os tubos 1) pag. C17.
All this fittings are suitable to instal with threaded pipes 1) pag. C17.

Bujão macho, cabeça quadrada, AISI 316 / CF8M
 Square head plugs

Lista 2035



Size	L	H	Kg Weight	Art. N°
1/4"	19	9	0,018	2M02 4134
3/8"	20	10	0,028	2M02 4149
1/2"	23	13	0,031	2M02 4168
3/4"	30	18	0,070	2M02 4189
1"	33	19	0,100	2M02 4216
1 1/4"	39	23	0,160	2M02 4239
1 1/2"	40	26	0,208	2M02 4256
2"	45	29	0,312	2M02 4283

Bujão cabeça sextavada, AISI 316 / CF8M
 Hexagonal head plug

Lista 2035



Size	L	SW	Kg Weight	Art. N°
1/4"	23	17	0,028	2M12 4134
3/8"	23,5	21	0,035	2M12 4149
1/2"	27	26	0,048	2M12 4168
3/4"	28	32	0,088	2M12 4189
1"	34	38	0,116	2M12 4216
1 1/4"	35	46	0,188	2M12 4239
1 1/2"	36	52	0,265	2M12 4256
2"	37,5	65	0,395	2M12 4283

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

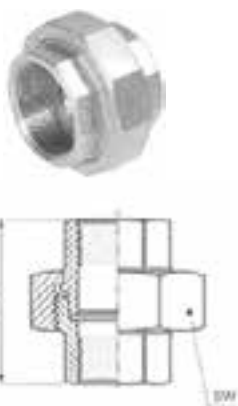
Lista 2035



Size	L	SW	Kg Weight	Art. N°
1/4"	37,5	29	0,114	2M52 4134
3/8"	38,0	36	0,177	2M52 4149
1/2"	42	41	0,220	2M52 4168
3/4"	50,4	49	0,332	2M52 4189
1"	48	58	0,503	2M52 4216
1 1/4"	59	68	0,704	2M52 4239
1 1/2"	65	77	0,871	2M52 4256
2"	69	92	1,386	2M52 4283
2 1/2"	80	109	2,067	2M52 4318

Junção F/F sede cônica, AISI 316 / CF8M
 Union F/Fconical seat

Lista 2035

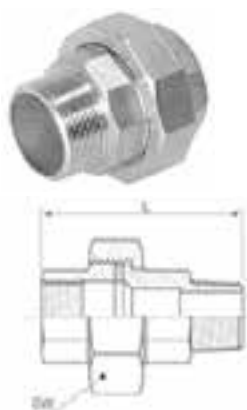


Size	L	SW	Kg Weight	Art. N°
1/4"	37,5	29	0,114	2M62 4134
3/8"	38,0	36	0,177	2M62 4149
1/2"	42	41	0,220	2M62 4168
3/4"	50,4	49	0,332	2M62 4189
1"	48	58	0,503	2M62 4216
1 1/4"	59	68	0,704	2M62 4239
1 1/2"	65	77	0,871	2M62 4256
2"	69	92	1,386	2M62 4283
2 1/2"	80	109	2,067	2M62 4318
3"	88	125	2,980	2M62 4338
4"	108	156	4,817	2M62 4361

Estes acessórios são os indicados para instalar juntamente com os tubos da pag. C17.
 All this fittings are suitable to instal with threaded pipes pag. C17.

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

Lista 2035



Size	L	SW	Kg Weight	Art. N°
1/4"	53	29	0,129	2M72 4134
3/8"	57	36	0,207	2M72 4149
1/2"	62	41	0,260	2M72 4168
3/4"	66	49	0,400	2M72 4189
1"	72	58	0,567	2M72 4216
1 1/4"	78	68	0,800	2M72 4239
1 1/2"	81	77	1,017	2M72 4256
2"	88	92	1,510	2M72 4283
2 1/2"	100	109	2,353	2M72 4318
3"	119	125	3,486	2M72 4338

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

Lista 2035



Size	L	SW	Kg Weight	Art. N°
1/4"	53	29	0,129	2M82 4134
3/8"	57	36	0,207	2M82 4149
1/2"	62	41	0,260	2M82 4168
3/4"	66	49	0,400	2M82 4189
1"	72	58	0,567	2M82 4216
1 1/4"	78	68	0,800	2M82 4239
1 1/2"	81	77	1,017	2M82 4256
2"	88	92	1,510	2M82 4283
2 1/2"	100	109	2,353	2M82 4318
3"	119	125	2,486	2M82 4338

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

Lista 2035



Size DN	L1	L2	SW	Kg Weight	Art. N°
1/2"	56	28	42	0,30	2K32 4168
3/4"	62,7	33	47	0,43	2K32 4189
1"	68,0	38	53	0,70	2K32 4216
1 1/4"	79,5	45	71	0,92	2K32 4239
1 1/2"	88,0	50	78	1,10	2K32 4256
2"	93,8	58	92	1,71	2K32 4283

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

Lista 2035

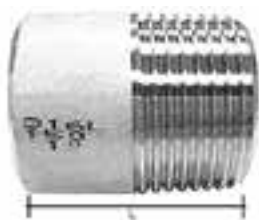


Size DN	L1	L2	SW	Kg Weight	Art. N°
1/2"	71	28	42	0,34	2K42 4168
3/4"	78,7	33	47	0,50	2K42 4189
1"	88,4	38	53	0,80	2K42 4216
1 1/4"	102,9	45	71	1,13	2K42 4239
1 1/2"	110,3	50	77	1,35	2K42 4256
2"	119,4	58	92	2,00	2K42 4283

Estes acessórios são os indicados para instalar juntamente com os tubos da pag. C17.
All this fittings are suitable to instal with threaded pipes pag. C17.

Ponta rosca/ soldar, AISI 316 / CF8M
 Welding nipple

Lista 2035



Size	L mm	Kg Weight	Art. Nº
3/8"	30	0,020	2L52 4149
1/2"	35	0,036	2L52 4168
3/4"	40	0,055	2L52 4189
1"	40	0,084	2L52 4216
1 1/4"	50	0,135	2L52 4239
1 1/2"	50	0,161	2L52 4256
2"	50	0,203	2L52 4283

Ponta rosca/rosca, AISI 316 / CF8M
 Barrel nipple

Lista 2035



Size	L mm	Kg Weight	Art. Nº
3/8"	40	0,025	2L32 4149
1/2"	60	0,058	2L32 1168
3/4"	60	0,078	2L32 4189
1"	60	0,118	2L32 4216
1 1/4"	80	0,213	2L32 4239
1 1/2"	80	0,243	2L32 4256
2"	100	0,394	2L32 4283
2 1/2"	100	0,799	2L32 4318
3"	120	1,100	2L32 4334

Ponta rosca paralela, AISI 316 / CF8M
 Parallel nipple

Lista 2035



Size	L mm	Kg Weight	Art. Nº
3/8"	22	0,013	2L42 4149
1/2"	25	0,030	2L42 4168
3/4"	30	0,040	2L42 4189
1"	35	0,060	2L42 4216
1 1/4"	38	0,110	2L42 4239
1 1/2"	38	0,120	2L42 4256
2"	45	0,200	2L42 4283

Ponteira em tubo, AISI 316 / CF8M
 Pipe hose nipple

Lista 2035



Size	d mm	L mm	Kg Weight	Art. Nº
3/8"	42	42	0,050	2L52 4149T
1/2"	43	43	0,055	2L52 4168T
3/4"	60	60	0,080	2L52 4189T
1"	70	70	0,120	2L52 4216T
1 1/4"	75	75	0,200	2L52 4239T
1 1/2"	80	80	0,290	2L52 4256T
2"	95	95	0,410	2L52 4283T

Ponteira para mangueira, AISI 316 / CF8M
 Hose nipple

Lista 2035



Size	d mm	L mm	Kg Weight	Art. Nº
1/4"	8,0	46,5	0,031	2L22 4134
3/8"	10,0	51,5	0,045	2L22 4149
1/2"	13,5	62,5	0,08	2L22 4168
3/4"	19,5	72,5	0,140	2L22 4189
1"	25,5	82,0	0,200	2L22 4216
1 1/4"	32,5	87,0	0,300	2L22 4239
1 1/2"	38,5	92,5	0,375	2L22 4256
2"	50,5	109,5	0,650	2L22 4283

União compacta roscada para soldar
B

Lista 2035



Size	L	A	B	C	G	d1	d2	Kg Weight	Art. N°
1/4"	45	29	19	15	17	7	10,5	0,070	2N52 4134
3/8"	50,5	31	21	17	21	9	14	0,100	2N52 4149
1/2"	58	37	23	19	24	13	18	0,150	2N52 4168
3/4"	62,5	41	24	21	32	18	23	0,230	2N52 4189
1"	67,5	44	26	23	38	23	29,5	0,350	2N52 4216
1 1/4"	80	55	28	25	50	29	38	0,500	2N52 4239
1 1/2"	80	55	28	25	54	35	44	0,600	2N52 4256
2"	97,5	63	39	29	70	44	55,5	0,950	2N52 4283
2 1/2"	121,5	83	44	40	85	57	71	1,400	2N52 4318

Curva 90°, AISI 316 / CF8M
Bend 90°

Lista 2035



Size	OD	L	Kg Weight	Art. N°
1/2"	21,3	95	0,23	2J92 4168
3/4"	26,9	100	0,35	2J92 4189
1"	33,7	140	0,61	2J92 4216
1 1/4"	42,4	140	0,93	2J92 4239
1 1/2"	48,3	160	1,18	2J92 4256
2"	60,3	190	1,95	2J92 4283

Tampão fêmea hexagonal, AISI 316 / CF8M
Hexagonal cap

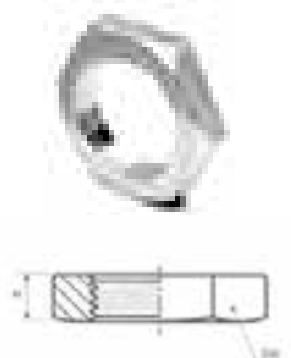
Lista 2035



Size	H	SW	Kg Weight	Art. N°
1/4"	20	18	0,030	2M32 4134
3/8"	21	20	0,033	2M32 4149
1/2"	22,5	26	0,073	2M32 4168
3/4"	23	32	0,100	2M32 4189
1"	26	39	0,170	2M32 4216
1 1/4"	28,5	49	0,240	2M32 4239
1 1/2"	32	55	0,380	2M32 4256
2"	35	66	0,470	2M32 4283

Porca sextavada, AISI 316 / CF8M
Hexagonal lock - nut

Lista 2035



Size	H	SW	Kg Weight	Art. N°
1/4"	8,5	22	0,021	2K92 4134
3/8"	9,0	27	0,030	2K92 4149
1/2"	9,0	32	0,043	2K92 4168
3/4"	10,0	36	0,050	2K92 4189
1"	11,0	46	0,095	2K92 4216
1 1/4"	12,0	55	0,136	2K92 4239
1 1/2"	13,0	60	0,154	2K92 4256
2"	13,5	75	0,252	2K92 4283

Tubos soldados longitudinalmente em aço inoxidável AISI 304L
Lista

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



Size mm	Espessura mm	Kg Weight	Art. Nº
15,00	1,00	0,333	2A12 3142
16,00	1,00	0,376	2A12 3145
18,00	1,00	0,41	2A12 3155
20,00	1,00	0,476	2A12 3160
20,00	1,50	0,695	2A12 3161
21,30	1,50	0,744	2A12 3165
21,30	2,00	0,967	2A12 3166
21,30	2,50	1,177	2A12 3169
22,00	1,00	0,526	2A12 3175
22,00	1,50	0,770	2A12 3176
25,00	1,00	0,601	2A12 3177
25,00	1,50	0,883	2A12 3178
28,00	1,00	0,676	2A12 3197
28,00	1,50	1,000	2A12 3199
30,00	1,50	1,070	2A12 3201
30,00	2,00	1,400	2A12 3202
32,00	1,50	1,146	2A12 3207
32,00	2,00	1,847	2A12 3208
35,00	1,00	1,850	2A12 3222
35,00	1,50	1,258	2A12 3223
38,00	1,50	1,370	2A12 3226
40,00	1,50	1,446	2A12 3234
40,00	2,00	1,903	2A12 3235
42,40	1,50	1,503	2A12 3236
48,30	1,60	1,870	2A12 3254
48,30	2,00	2,319	2A12 3255
50,00	1,50	1,822	2A12 3264
50,00	2,00	2,404	2A12 3265
50,80	1,50	1,852	2A12 3266



Tubos quadrados em aço inoxidável

Lista

Square hollow sections



Size A x B mm	Espessura mm	Kg Weight	Art. N°
10 x 10	1,0	0,300	1I23 1350
15 x 15	1,0	0,463	1I23 1351
20 x 20	1,2	0,745	1I23 1354
25 x 25	1,5	1,164	1I23 1358
30 x 30	1,2	1,136	1I23 1359
30 x 30	1,5	1,409	1I23 1360
30 x 30	2,0	1,853	1I23 1361
40 x 40	1,2	1,526	1I23 1365
40 x 40	1,5	1,897	1I23 1366
40 x 40	2,0	2,504	1I23 1367
50 x 50	1,5	2,385	1I23 1374
50 x 50	2,0	3,155	1I23 1375
60 x 60	2,0	3,806	1I23 1379
80 x 80	2,0	5,108	1I23 1387

Tubos rectangulares em aço inoxidável

Lista

Rectangular hollow sections



Size A x B mm	Espessura mm	Kg Weight	Art. N°
25 x 15	1,5	0,920	1I33 1356
30 x 20	1,5	1,164	1I33 1364
40 x 20	1,5	1,409	1I33 1369
50 x 25	1,5	1,775	1I33 1379
50 x 30	1,5	1,897	1I33 1380
50 x 30	2,0	2,504	1I33 1383
60 x 30	1,5	2,141	1I33 1389
60 x 30	2,0	2,830	1I33 1390
80 x 40	2,0	3,806	1I33 1399
100 x 50	2,0	4,783	1I33 1413

Perfis para guarda corpos

Lista



D mm	e mm	L mm	p mm	Kg Weight	Art. N°
50	1,5	20	20	2,13	1K12 3266
60	1,5	20	20	2,52	1K12 3267

Tubos flexíveis tipo RS 321 S12 em aço AISI 316 com trança AISI 304
Lista

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	Art. N°
8	13,50	8,31	35 / 125	160	0,195	4383 0010
10	15,70	10,20	40 / 130	125	0,215	4383 0020
12	18,20	12,20	45 / 140	80	0,240	4383 0030
20	28,30	20,20	70 / 170	50	0,465	4383 0040
25	34,20	25,50	85 / 190	50	0,745	4383 0050
32	43,00	34,20	105 / 260	40	0,905	4383 0060
40	52,00	40,10	130 / 300	40	1,340	4383 0070
50	62,60	50,40	160 / 320	32	1,610	4383 0080
65	80,60	65,40	200 / 460	40	2,720	4383 0090
80	101,20	80,20	240 / 700	32	3,960	4383 0100
100	121,20	100,20	290 / 750	25	4,580	4383 0110
125	148,20	126,20	500 / 1000	19	5,240	4383 0120
150	177,00	150,50	700 / 1300	13	10,000	4383 0130

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

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

Acessórios para tubos flexíveis inoxidáveis
Lista

Fittings for flexible corrugated stainless steel