

 **ATUSA**

ACESSÓRIOS  
DE AÇO

  
VIDEIRATERM  
VIVA NO MELHOR AMBIENTE

ACESSÓRIOS  
**AÇO**

**ACESSÓRIOS DE AÇO PARA SOLDAR  
NORMA EN**

**CURVAS 3D EN 10253-1 - AÇO S235**

DIMENSÕES		45°		90°		90° GALVA.		90° COM SOLDADURA		180°	
Ø	Ø EXT. x ESPESSURA	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
1/2"	21,3 x 2,0	C3450021	1,02	C3XXXX21	1,02	C3GXXX21	1,16			C3180021	2,55
3/4"	26,9 x 2,3	C3450027	1,02	C3XXXX27	1,02	C3GXXX27	1,27	C3HXXX27	0,92	C3180027	2,55
1"	33,7 x 2,6	C3450033	1,08	C3XXXX33	1,08	C3GXXX33	1,51	C3HXXX33	0,96	C3180033	2,71
	38,0 x 2,6			C3XXXX38	1,95						
1 1/4"	42,4 x 2,6	C3450042	1,45	C3XXXX42	1,45	C3GXXX42	2,13	C3HXXX42	1,22	C3180042	3,62
	44,5 x 2,6			C3XXXX44	2,12						
1 1/2"	48,3 x 2,6	C3450048	1,83	C3XXXX48	1,83	C3GXXX48	2,79	C3HXXX48	1,55	C3180048	4,57
	51,0 x 2,6			C3XXXX51	3,32						
	54,0 x 2,6			C3XXXX54	4,78						
	57,0 x 2,9			C3XXXX57	3,77						
2"	60,3 x 2,9	C3450060	2,88	C3XXXX60	2,88	C3GXXX60	4,63	C3HXXX60	2,45	C3180060	7,20
	70,0 x 2,9			C3XXXX70	4,88	C3GXXX70	7,38				
2 1/2"	76,1 x 2,9	C3450076	4,63	C3XXXX76	4,63	C3GXXX76	7,45	C3HXXX76	3,95	C3180076	11,57
3"	88,9 x 3,2	C3450089	6,36	C3XXXX89	6,76	C3GXXX89	11,12	C3HXXX89	5,74	C3180089	16,09
3 1/2"	101,6 x 3,6	C3450101	9,71	C3XXX101	11,53	C3GXX101	18,06	C3HXX101	10,07	C3180101	26,97
	108,0 x 3,6			C3XXX108	13,14	C3GXX108	20,39				
4"	114,3 x 3,6	C3450114	11,38	C3XXX114	12,64	C3GXX114	21,10	C3HXX114	10,78	C3180114	31,60
	133,0 x 4,0			C3XXX133	22,34	C3GXX133	35,34				
5"	139,7 x 4,0	C3450139	19,92	C3XXX139	22,13	C3GXX139	36,55	C3HXX139	18,78	C3180139	55,32
	159,0 x 4,5			C3XXX159	32,34	C3GXX159	53,40				
6"	168,3 x 4,5	C3450168	28,93	C3XXX168	32,14	C3GXX168	55,35	C3HXX168	27,41	C3180168	80,35
7"	193,7 x 5,6	C3450193	64,60	C3XXX193	71,78						
8"	219,1 x 6,3	C3450219	59,87	C3XXX219	74,84	C3GXX219	128,03	C3HXX219	64,71		
	244,5 x 6,3			C3XXX244	167,45						
10"	273,0 x 6,3	C3450273	102,09	C3XXX273	127,61	C3GXX273	216,50	C3HXX273	122,35		
12"	323,9 x 7,1			C3XXX324	180,52						
14"	355,6 x 8,0			C3XXX355	312,89						
16"	406,4 x 8,8			C3XXX406	374,50						
18"*	457,2 x 10,0			C3XXX457	840,50						
20"*	508,0 x 11,0			C3XXX508	1.260,00						
24"*	609,6 x 12,5			C3XXX609	2.230,00						

\* Curvas DIN 2605 St 37.0



## CURVAS 5D EN 10253-1 - AÇO S235

DIMENSÕES		45°		90°		90° GALVA.		180°	
Ø	Ø EXT. x ESPESSURA	COD.	€	COD.	€	COD.	€	COD.	€
1/2"	21,3 x 2,0	C5450021	2,35	C5XXXX21	2,35				
3/4"	26,9 x 2,3	C5450027	2,77	C5XXXX27	2,78	CSGXXX27	3,24	C5180027	6,92
1"	33,7 x 2,6	C5450033	2,99	C5XXXX33	2,99	CSGXXX33	3,88	C5180033	7,49
1 1/4"	42,4 x 2,6	C5450042	3,88	C5XXXX42	3,88	CSGXXX42	5,31	C5180042	9,72
1 1/2"	48,3 x 2,6	C5450048	5,04	C5XXXX48	5,04	CSGXXX48	6,83	C5180048	12,58
2"	60,3 x 2,9	C5450060	6,71	C5XXXX60	6,71	CSGXXX60	9,85	C5180060	16,75
	70,0 x 2,9			C5XXXX70	14,98				
2 1/2"	76,1 x 2,9	C5450076	10,71	C5XXXX76	10,71	CSGXXX76	15,89	C5180076	26,84
3"	88,9 x 3,2	C5450089	14,87	C5XXXX89	16,47	CSGXXX89	24,43	C5180089	41,29
3 1/2"	101,6 x 3,6	C5450101	33,01	C5XXX101	36,82				
	108,0 x 3,6			C5XXX108	39,02				
4"	114,3 x 3,6	C5450114	27,94	C5XXX114	31,06	CSGXX114	45,34	C5180114	77,61
	133,0 x 4,0			C5XXX133	77,23				
5"	139,7 x 4,0			C5XXX139	56,47	CSGXX139	82,17		
	159,0 x 4,5			C5XXX159	95,12				
6"	168,3 x 4,5			C5XXX168	86,59	CSGXX168	126,57		
8"	219,1 x 6,3			C5XXX219	221,18	CSGXX219	309,72		
10"	273,0 x 6,3			C5XXX273	415,29	CSGXX273	563,45		
12"	323,9 x 7,1			C5XXX324	670,59				


**TAMPÕES EN 10253-1 - AÇO S235**

Ø	Ø EXT.	ESPESSURA	COD.	€
3/4"	26,9	2,3	CCXXXX27	0,61
1"	33,7	2,6	CCXXXX34	0,61
1 1/4"	42,4	2,6	CCXXXX42	0,64
1 1/2"	48,3	2,6	CCXXXX48	0,71
2"	60,3	2,9	CCXXXX60	0,92
	70,0	2,9	CCXXXX70	1,13
2 1/2"	76,1	2,9	CCXXXX76	1,36
3"	88,9	3,2	CCXXXX89	1,60
3 1/2"	101,6	3,6	CCXXX101	4,51
	108,0	3,6	CCXXX108	4,76
4"	114,3	3,6	CCXXX114	4,51
	133,0	4,0	CCXXX133	6,21

Ø	Ø EXT.	ESPESSURA	COD.	€
5"	139,7	4,0	CCXXX140	6,80
	159,0	4,5	CCXXX159	10,76
6"	168,3	4,5	CCXXX168	11,79
7"	193,7	5,6	CCXXX193	17,12
8"	219,1	6,3	CCXXX219	22,94
	244,5	6,3	CCXXX245	26,43
10"	273,0	6,3	CCXXX273	32,61
12"	323,9	7,1	CCXXX324	45,93
14"	355,6	8,0	CCXXX356	81,69
16"	406,4	8,8	CCXXX406	110,14
<b>NEW</b> 18" *	457,0	8,0	CCXXX457	193,00
<b>NEW</b> 20" *	508,0	8,0	CCXXX508	214,50
<b>NEW</b> 24" *	610,0	8,0	CCXXX610	385,00

\* Não corresponde à Norma EN 10253


**TÊS EN 10253-1 - AÇO S235**

Ø	Ø EXT.	ESPESSURA	COD.	€
1/2"	21,3	2,0	CTDXXX21	3,41
3/4"	26,9	2,3	CTDXXX27	3,88
1"	33,7	2,6	CTDXXX33	4,18
1 1/4"	42,4	2,6	CTDXXX42	5,19
1 1/2"	48,3	2,6	CTDXXX48	6,31
2"	60,3	2,9	CTDXXX60	8,12
2 1/2"	76,1	2,9	CTDXXX76	13,84
3"	88,9	3,2	CTDXXX89	17,98
3 1/2"	101,6	3,6	CTDXX101	36,12

Ø	Ø EXT.	ESPESSURA	COD.	€
4"	114,3	3,6	CTDXX114	26,04
5"	139,7	4,0	CTDXX139	38,46
6"	168,3	4,5	CTDXX168	57,41
8"	219,1	6,3	CTDXX219	135,04
10"	273,0	6,3	CTDXX273	205,12
12"	323,9	7,1	CTDXX323	318,40
14"	355,6	8,0	CTDXX355	462,00
16"	406,4	8,8	CTDXX406	610,00



## REDUÇÕES CONCÊNTRICAS EN 10253-1 - AÇO S235

Ø	Ø EXT.	ESPESSURA	COD.	€
3/4" x 1/2"	26,9 x 21,3	2,3 - 2,0	CRXX2721	2,49
1" x 1/2"	33,7 x 21,3	2,6 - 2,0	CRXX3321	2,49
1" x 3/4"	33,7 x 26,9	2,6 - 2,3	CRXX3327	2,26
1 1/4" x 1/2"	42,4 x 21,3	2,6 - 2,0	CRXX4221	4,21
1 1/4" x 3/4"	42,4 x 26,9	2,6 - 2,3	CRXX4227	2,80
1 1/4" x 1"	42,4 x 33,7	2,6 - 2,6	CRXX4233	2,45
1 1/2" x 1/2"	48,3 x 21,3	2,6 - 2,0	CRXX4821	5,59
1 1/2" x 3/4"	48,3 x 26,9	2,6 - 2,3	CRXX4827	3,60
1 1/2" x 1"	48,3 x 33,7	2,6 - 2,6	CRXX4833	2,99
1 1/2" x 1 1/4"	48,3 x 42,4	2,6 - 2,6	CRXX4842	2,52
2" x 3/4"	60,3 x 26,9	2,9 - 2,3	CRXX6027	6,10
2" x 1"	60,3 x 33,7	2,9 - 2,6	CRXX6033	4,05
2" x 1 1/4"	60,3 x 42,4	2,9 - 2,6	CRXX6042	3,74
2" x 1 1/2"	60,3 x 48,3	2,9 - 2,6	CRXX6048	3,13
2 1/2" x 1"	76,1 x 33,7	2,9 - 2,6	CRXX7633	10,00
2 1/2" x 1 1/4"	76,1 x 42,4	2,9 - 2,6	CRXX7642	5,22
2 1/2" x 1 1/2"	76,1 x 48,3	2,9 - 2,6	CRXX7648	4,71
2 1/2" x 2"	76,1 x 60,3	2,9 - 2,9	CRXX7660	4,14
3" x 1 1/4"	88,9 x 42,4	3,2 - 2,6	CRXX8942	9,70
3" x 1 1/2"	88,9 x 48,3	3,2 - 2,6	CRXX8948	6,92
3" x 2"	88,9 x 60,3	3,2 - 2,9	CRXX8960	5,48
3" x 2 1/2"	88,9 x 76,1	3,2 - 2,9	CRXX8976	5,06
3 1/2" x 2"	101,6 x 60,3	3,6 - 2,9	CRX10160	10,24
3 1/2" x 2 1/2"	101,6 x 76,1	3,6 - 2,9	CRX10176	9,29
3 1/2" x 3"	101,6 x 88,9	3,6 - 3,2	CRX10189	8,00
	108,0 x 60,3	3,6 - 2,9	CRX10860	11,29
	108,0 x 76,1	3,6 - 2,9	CRX10876	9,27
	108,0 x 88,9	3,6 - 3,2	CRX10889	8,50
4" x 1 1/2"	114,3 x 48,3	3,6 - 2,6	CRX11448	13,70
4" x 2"	114,3 x 60,3	3,6 - 2,9	CRX11460	9,15
4" x 2 1/2"	114,3 x 76,1	3,6 - 2,9	CRX11476	8,38
4" x 3"	114,3 x 88,9	3,6 - 3,2	CRX11489	7,84
4" x 3 1/2"	114,3 x 101,6	3,6 - 3,6	CR114101	11,25
	133,0 x 76,1	4,0 - 2,9	CRX13376	18,54
	133,0 x 88,9	4,0 - 3,2	CRX13389	16,21
	133,0 x 101,6	4,0 - 3,6	CR133101	15,92
	133,0 x 108,0	4,0 - 3,6	CR133108	13,81
	133,0 x 114,3	4,0 - 3,6	CR133114	13,55

Ø	Ø EXT.	ESPESSURA	COD.	€
5" x 2"	139,7 x 60,3	4,0 - 2,9	CRX13960	19,95
5" x 2 1/2"	139,7 x 76,1	4,0 - 2,9	CRX13976	17,53
5" x 3"	139,7 x 88,9	4,0 - 3,2	CRX13989	14,82
5" x 3 1/2"	139,7 x 101,6	4,0 - 3,6	CR139101	19,07
	139,7 x 108,0	4,0 - 3,6	CR139108	18,30
5" x 4"	139,7 x 114,3	4,0 - 3,6	CR139114	13,08
	159,0 x 88,9	4,5 - 3,2	CRX15989	25,40
	159,0 x 108,0	4,5 - 3,6	CR159108	21,96
	159,0 x 114,3	4,5 - 3,6	CR159114	20,13
	159,0 x 133,0	4,5 - 4,0	CR159133	18,91
	159,0 x 139,7	4,5 - 4,0	CR159139	18,91
6" x 2 1/2"	168,3 x 76,1	4,5 - 2,9	CRX16876	26,75
6" x 3"	168,3 x 88,9	4,5 - 3,2	CRX16889	23,18
6" x 4"	168,3 x 114,3	4,5 - 3,6	CR168114	19,53
6" x 5"	168,3 x 139,7	4,5 - 4,0	CR168139	17,88
	193,7 x 114,3	5,6 - 3,6	CR193114	75,00
	193,7 x 133,0	5,6 - 4,0	CR193133	72,00
	193,7 x 159,0	5,6 - 4,5	CR193159	77,94
	193,7 x 168,3	5,6 - 4,5	CR193168	60,00
8" x 4"	219,1 x 114,3	6,3 - 3,6	CR219114	43,29
	219,1 x 133,0	6,3 - 4,0	CR219133	42,40
8" x 5"	219,1 x 139,7	6,3 - 4,0	CR219139	39,65
	219,1 x 159,0	6,3 - 4,5	CR219159	38,40
8" x 6"	219,1 x 168,3	6,3 - 4,5	CR219168	33,65
10" x 5"	273,0 x 139,7	6,3 - 4,0	CR273139	70,76
10" x 6"	273,0 x 168,3	6,3 - 4,5	CR273168	59,76
10" x 8"	273,0 x 219,1	6,3 - 6,3	CR273219	51,76
12" x 6"	323,9 x 168,3	7,1 - 4,5	CR323168	95,20
12" x 8"	323,9 x 219,1	7,1 - 6,3	CR323219	94,30
12" x 10"	323,9 x 273,0	7,1 - 6,3	CR323273	85,25
14" x 8"	355,6 x 219,1	8,0 - 6,3	CR355219	203,00
14" x 10"	355,6 x 273,0	8,0 - 6,3	CR355273	190,00
14" x 12"	355,6 x 323,9	8,0 - 7,1	CR355323	186,00
16" x 10"	406,4 x 273,0	8,8 - 6,3	CR406273	294,00
16" x 12"	406,4 x 323,9	8,8 - 7,1	CR406323	289,00
16" x 14"	406,4 x 355,6	8,8 - 8,0	CR406355	240,00

## ACESSÓRIOS DE AÇO PARA SOLDAR NORMA ASTM

### CURVAS ASTM A-234 WPB - ASME B 16.9



DIMENSÕES		STD								XS					
		RAIO LONGO				RAIO CURTO				RAIO LONGO			RAIO CURTO		
		90°		45°		180°		90°		90°		45°		90°	
Ø	Ø EXT.	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
1/2"	21,3	CSTL900M	1,40	CSTL450M	0,87					CXSL900M	2,30	CXSL450M	1,23		
3/4"	26,7	CSTL900T	1,60	CSTL450T	1,07					CXSL900T	2,35	CXSL450T	1,30		
1"	33,4	CSTL9001	2,00	CSTL4501	1,34			CSTS9001	2,25	CXSL9001	3,02	CXSL4501	1,42	CXSS9001	4,05
1 1/4"	42,2	CSTL901C	2,25	CSTL451C	1,48			CSTS901C	3,75	CXSL901C	3,64	CXSL451C	2,20	CXSS901C	5,15
1 1/2"	48,3	CSTL901M	2,60	CSTL451M	1,56	CSTL181M	5,68	CSTS901M	3,70	CXSL901M	4,10	CXSL451M	2,67	CXSS901M	5,40
2"	60,3	CSTL9002	4,23	CSTL4502	2,51	CSTL1802	12,95	CSTS9002	4,38	CXSL9002	6,08	CXSL4502	3,89	CXSS9002	6,98
2 1/2"	73,0	CSTL902M	7,85	CSTL452M	4,76	CSTL182M	22,85	CSTS902M	8,37	CXSL902M	11,21	CXSL452M	7,25	CXSS902M	12,85
3"	88,9	CSTL9003	12,05	CSTL4503	7,33	CSTL1803	33,42	CSTS9003	13,39	CXSL9003	16,31	CXSL4503	10,45	CXSS9003	18,75
3 1/2"	101,6	CSTL903M	17,76	CSTL453M	10,88					CXSL903M	27,85	CXSL453M	18,25		
4"	114,3	CSTL9004	21,24	CSTL4504	13,02	CSTL1804	53,92	CSTS9004	22,46	CXSL9004	30,45	CXSL4504	19,85	CXSS9004	32,04
5"	141,3	CSTL9005	34,52	CSTL4505	22,38	CSTL1805	91,25	CSTS9005	38,68	CXSL9005	55,35	CXSL4505	36,05	CXSS9005	61,40
6"	168,3	CSTL9006	58,56	CSTL4506	37,96	CSTL1806	158,00	CSTS9006	62,73	CXSL9006	96,68	CXSL4506	62,85	CXSS9006	102,24
8"	219,1	CSTL9008	110,64	CSTL4508	71,76			CSTS9008	118,78	CXSL9008	208,73	CXSL4508	135,12	CXSS9008	185,24
10"	273,0	CSTL9010	200,68	CSTL4510	130,15			CSTS9010	245,12	CXSL9010	308,75	CXSL4510	199,85	CXSS9010	289,65
12"	323,8	CSTL9012	289,04	CSTL4512	187,45			CSTS9012	362,13	CXSL9012	450,50	CXSL4512	290,23	CXSS9012	440,50
14"	355,6	CSTL9014	379,08	CSTL4514	235,50			CSTS9014	452,50	CXSL9014	660,50	CXSL4514	420,50	CXSS9014	630,50
16"	406,4	CSTL9016	507,20	CSTL4516	314,00			CSTS9016	592,00	CXSL9016	900,00	CXSL4516	572,00	CXSS9016	920,00
18"	457,0	CSTL9018	696,16	CSTL4518											
20"	508,0	CSTL9020	874,28	CSTL4520											
24"	610,0	CSTL9024	1501,92	CSTL4524											



### TAMPÕES ASTM A-234 WPB - ASME B 16.9

DIMENSÕES		STD		XS	
Ø	Ø EXT.	COD.	€	COD.	€
1/2"	21,3	CCSTXX0M	2,54	CCXSXX0M	2,73
3/4"	26,7	CCSTXX0T	2,76	CCXSXX0T	3,05
1"	33,4	CCSTXX01	3,10	CCXSXX01	3,50
1 1/4"	42,2	CCSTXX1C	3,12	CCXSXX1C	3,65
1 1/2"	48,3	CCSTXX1M	3,14	CCXSXX1M	3,70
2"	60,3	CCSTXX02	3,15	CCXSXX02	3,77
2 1/2"	73,0	CCSTXX2M	3,64	CCXSXX2M	4,59
3"	88,9	CCSTXX03	5,24	CCXSXX03	7,16
3 1/2"	101,6	CCSTXX3M	7,08	CCXSXX3M	9,25
4"	114,3	CCSTXX04	8,16	CCXSXX04	10,69
5"	141,3	CCSTXX05	12,56	CCXSXX05	18,14
6"	168,3	CCSTXX06	21,52	CCXSXX06	27,31
8"	219,1	CCSTXX08	39,56	CCXSXX08	44,85
10"	273,0	CCSTXX10	70,60	CCXSXX10	80,14
12"	323,8	CCSTXX12	94,04	CCXSXX12	130,24
14"	355,6	CCSTXX14	113,16	CCXSXX14	170,50
16"	406,4	CCSTXX16	139,08	CCXSXX16	250,00
18"	457,0	CCSTXX18	220,00	CCXSXX18	352,00
20"	508,0	CCSTXX20	264,00	CCXSXX20	448,00
24"	610,0	CCSTXX24	380,00	CCXSXX24	572,00



### TÊS ASTM A-234 WPB - ASME B 16.9

STD		XS	
COD.	€	COD.	€
CTXXX21	3,13	CTXSXX0M	3,96
CTXXX27	3,40	CTXSXX0T	4,29
CTXXX33	5,00	CTXSXX01	6,18
CTXXX42	5,20	CTXSXX1C	7,42
CTXXX48	5,96	CTXSXX1M	7,90
CTXXX60	10,16	CTXSXX02	15,11
CTXXX76	14,36	CTXSXX2M	18,08
CTXXX89	20,76	CTXSXX03	27,35
CTXXX101	28,45	CTXSXX3M	38,54
CTXXX114	35,76	CTXSXX04	52,16
CTXXX140	57,64	CTXSXX05	82,10
CTXXX168	81,48	CTXSXX06	140,01
CTXXX219	146,60	CTXSXX08	240,56
CTXXX273	255,44	CTXSXX10	440,75
CTXXX324	385,76	CTXSXX12	665,80
CTXXX355	802,50	CTXSXX14	820,00
CTXXX406	904,60	CTXSXX16	1200,00
CTXXX457	1504,00		
CTXXX508	1957,50		
CTXXX610	2465,00		

# TÊS DE REDUÇÃO E REDUÇÕES CONCÊNTRICAS E EXCÊNTRICAS ASTM A-234 WPB - ASME B 16.9



DIMENSÕES		TÊS DE REDUÇÃO		REDUÇÕES CONCÊNTRICAS				REDUÇÕES EXCÊNTRICAS	
		STD		STD		XS		STD	
Ø	Ø EXT.	COD.	€	COD.	€	COD.	€	COD.	€
3/4" x 1/2"	26,7 x 21,3	CTST0T0M	2,40	CRST0T0M	1,87	CRXS0T0M	2,51	CREX0T0M	2,00
1" x 1/2"	33,4 x 21,3	CTST010M	3,95	CRST010M	2,10	CRXS010M	3,48	CREX010M	2,60
1" x 3/4"	33,4 x 26,7	CTST010T	3,35	CRST010T	2,00	CRXS010T	3,22	CREX010T	2,53
1 1/4" x 1/2"	42,2 x 21,3			CRST1C0M	2,35	CRXS1C0M	3,64	CREX1C0M	6,25
1 1/4" x 3/4"	42,2 x 26,7	CTST1C0T	5,10	CRST1C0T	2,13	CRXS1C0T	3,31	CREX1C0T	4,25
1 1/4" x 1"	42,2 x 33,4	CTST1C01	4,95	CRST1C01	2,05	CRXS1C01	3,07	CREX1C01	2,60
1 1/2" x 1/2"	48,3 x 21,3	CTST1M0M	7,70	CRST1M0M	2,75	CRXS1M0M	3,54	CREX1M0M	7,30
1 1/2" x 3/4"	48,3 x 26,7	CTST1M0T	7,50	CRST1M0T	2,50	CRXS1M0T	3,14	CREX1M0T	7,00
1 1/2" x 1"	48,3 x 33,4	CTST1M01	7,20	CRST1M01	2,35	CRXS1M01	3,02	CREX1M01	2,92
1 1/2" x 1 1/4"	48,3 x 42,2	CTST1M1C	7,00	CRST1M1C	2,25	CRXS1M1C	2,78	CREX1M1C	2,32
2" x 1/2"	60,3 x 21,3			CRST020M	7,05				
2" x 3/4"	60,3 x 26,7			CRST020T	3,56			CREX020T	7,00
2" x 1"	60,3 x 33,4	CTST0201	14,20	CRST0201	3,20	CRXS0201	4,19	CREX0201	4,90
2" x 1 1/4"	60,3 x 42,2	CTST021C	13,60	CRST021C	2,92	CRXS021C	3,99	CREX021C	3,64
2" x 1 1/2"	60,3 x 48,3	CTST021M	13,30	CRST021M	2,80	CRXS021M	3,75	CREX021M	3,48
2 1/2" x 1"	73,0 x 33,4	CTST2M01	16,90	CRST2M01	6,00			CREX2M01	15,85
2 1/2" x 1 1/4"	73,0 x 42,2	CTST2M1C	16,70	CRST2M1C	5,28	CRXS2M1C	7,50	CREX2M1C	11,55
2 1/2" x 1 1/2"	73,0 x 48,3	CTST2M1M	16,55	CRST2M1M	4,96	CRXS2M1M	6,93	CREX2M1M	6,12
2 1/2" x 2"	73,0 x 60,3	CTST2M02	16,48	CRST2M02	4,40	CRXS2M02	6,46	CREX2M02	5,56
3" x 1"	88,9 x 33,4	CTST0301	25,50	CRST0301	10,15				
3" x 1 1/4"	88,9 x 42,2	CTST031C	25,00	CRST031C	6,84	CRXS031C	9,25	CREX031C	14,24
3" x 1 1/2"	88,9 x 48,3	CTST031M	24,80	CRST031M	6,40	CRXS031M	8,97	CREX031M	10,80
3" x 2"	88,9 x 60,3	CTST0302	24,60	CRST0302	5,96	CRXS0302	8,12	CREX0302	7,48
3" x 2 1/2"	88,9 x 73,0	CTST032M	24,55	CRST032M	5,56	CRXS032M	7,83	CREX032M	6,96
4" x 1 1/4"	114,3 x 42,2			CRST041C	13,92				
4" x 1 1/2"	114,3 x 48,3	CTST041M	46,10	CRST041M	12,00	CRXS041M	17,85	CREX041M	16,80
4" x 2"	114,3 x 60,3	CTST0402	44,12	CRST0402	11,12	CRXS0402	15,97	CREX0402	13,88
4" x 2 1/2"	114,3 x 73,0	CTST042M	42,98	CRST042M	9,96	CRXS042M	14,24	CREX042M	12,52
4" x 3"	114,3 x 88,9	CTST0403	41,32	CRST0403	8,84	CRXS0403	13,68	CREX0403	11,12
5" x 2"	141,3 x 60,3	CTST0502	75,68	CRST0502	19,88			CREX0502	37,50
5" x 2 1/2"	141,3 x 73,0	CTST052M	74,95	CRST052M	18,12	CRXS052M	25,97	CREX052M	33,50
5" x 3"	141,3 x 88,9	CTST0503	73,85	CRST0503	16,72	CRXS0503	24,84	CREX0503	20,80
5" x 4"	141,3 x 114,3	CTST0504	73,25	CRST0504	15,08	CRXS0504	22,29	CREX0504	18,92
6" x 2"	168,3 x 60,3	CTST0602	106,50	CRST0602	32,48				
6" x 2 1/2"	168,3 x 73,0			CRST062M	30,56	CRXS062M	40,87	CREX062M	48,00
6" x 3"	168,3 x 88,9	CTST0603	103,25	CRST0603	27,24	CRXS0603	38,00	CREX0603	34,16
6" x 4"	168,3 x 114,3	CTST0604	102,12	CRST0604	24,48	CRXS0604	36,15	CREX0604	30,56
6" x 5"	168,3 x 141,3	CTST0605	99,98	CRST0605	23,12	CRXS0605	34,51	CREX0605	29,44
8" x 3"	219,1 x 88,9			CRST0803	43,96				
8" x 4"	219,1 x 114,3	CTST0804	187,50	CRST0804	39,00	CRXS0804	65,12	CREX0804	51,40
8" x 5"	219,1 x 141,3	CTST0805	186,10	CRST0805	37,36	CRXS0805	58,24	CREX0805	46,72
8" x 6"	219,1 x 168,3	CTST0806	184,85	CRST0806	35,96	CRXS0806	57,32	CREX0806	45,08
10" x 4"	273,0 x 114,3	CTST1004	336,50	CRST1004	88,00			CREX1004	164,00
10" x 5"	273,0 x 141,3	CTST1005	335,60	CRST1005	76,52	CRXS1005	115,98	CREX1005	147,00
10" x 6"	273,0 x 168,3	CTST1006	332,40	CRST1006	70,72	CRXS1006	94,85	CREX1006	132,00
10" x 8"	273,0 x 219,1	CTST1008	330,25	CRST1008	66,32	CRXS1008	91,12	CREX1008	82,84
12" x 6"	323,8 x 168,3	CTST1206	550,00	CRST1206	120,00	CRXS1206	156,24	CREX1206	230,00
12" x 8"	323,8 x 219,1	CTST1208	492,50	CRST1208	101,80	CRXS1208	145,50	CREX1208	127,20
12" x 10"	323,8 x 273,0	CTST1210	489,85	CRST1210	90,24	CRXS1210	140,50	CREX1210	111,20
14" x 8"	355,6 x 219,1			CRST1408	211,20			CREX1408	395,00
14" x 10"	355,6 x 273,0			CRST1410	176,00	CRXS1410	297,65	CREX1410	248,00
14" x 12"	355,6 x 323,8			CRST1412	162,60	CRXS1412	269,45	CREX1412	220,00
16" x 8"	406,4 x 219,1			CRST1608	256,00			CREX1608	499,00
16" x 10"	406,4 x 273,0			CRST1610	237,44	CRXS1610	372,56	CREX1610	348,00
16" x 12"	406,4 x 323,8			CRST1612	225,84	CRXS1612	360,21	CREX1612	312,00
16" x 14"	406,4 x 355,6			CRST1614	220,00	CRXS1614	356,41	CREX1614	284,00
18" x 16"	457,0 x 406,4			CRST1816	498,00				
20" x 16"	508,0 x 406,4			CRST2016	860,00				
20" x 18"	508,0 x 457,0			CRST2018	798,60				
24" x 18"	610,0 x 457,0			CRST2418	998,00				
24" x 20"	610,0 x 508,0			CRST2420	895,00				



## FLANGES FORJADAS - NORMA DIN

DIMENSÕES			FLANGE PLANA DIN 2573 PN 6		FLANGE PLANA DIN 2576-2502 PN 10/16		FLANGE PLANA DIN 2503 PN 25/40		FLANGE CEGA DIN 2527 PN 6		FLANGE CEGA DIN 2527 PN 10/16		FLANGE CEGA DIN 2527 PN 25/40	
DN	Ø	mm.	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
15	1/2"	21,3	F2573015	1,45	F2576015	2,35	F2503015	3,65	F5270015	2,50	F2527015	2,55	F5272015	2,85
20	3/4"	26,9	F2573020	2,15	F2576020	3,20	F2503020	4,65	F5270020	3,35	F2527020	3,45	F5272020	4,25
25	1"	33,7	F2573025	2,60	F2576025	3,80	F2503025	4,75	F5270025	4,15	F2527025	4,20	F5272025	4,70
32	1 1/4"	42,4	F2573032	4,20	F2576032	5,25	F2503032	6,30	F5270032	5,70	F2527032	5,80	F5272032	6,90
40	1 1/2"	48,3	F2573040	4,75	F2576040	6,00	F2503040	7,15	F5270040	6,65	F2527040	6,75	F5272040	8,30
50	2"	60,3	F2573050	4,85	F2576050	7,40	F2503050	8,35	F5270050	9,10	F2527050	9,15	F5272050	10,10
65	2 1/2"	76,2	F2573065	5,95	F2576065	9,35	F2503065	10,40	F5270065	11,50	F2527065	11,60	F5272065	13,50
80	3"	88,9	F2573080	9,75	F2576080	11,75	F2503080	14,05	F5270080	15,05	F2527080	15,15	F5272080	18,55
100	3 1/2"	101,6			F2576101	17,60								
		108,0			F2576090	13,05								
100	4"	114,3	F2573100	11,35	F2576100	12,55	F2503100	18,65	F5270100	17,75	F2527100	17,90	F5272100	23,75
		133,0			F2576133	18,95								
125	5"	139,7	F2573125	15,10	F2576125	16,35	F2503125	25,40	F5270125	26,55	F2527125	26,65	F5272125	34,10
		159,0			F2576159	19,65								
150	6"	168,3	F2573150	17,10	F2576150	20,70	F2503150	32,60	F5270150	32,45	F2527150	32,95	F5272150	45,65
175	7"	193,7			F2576175	29,30								
200	8"	219,1	F2573200	22,55	F2576200	29,30	F2503200	43,90	F5270200	51,45	F5271200	51,50	F5272200	74,50
					F2502200	30,80	F5034200	54,80			F2527200	51,95	F5274200	90,85
250	10"	273,0	F2573250	32,70	F2576250	35,55	F2503250	62,60	F5270250	76,00	F5271250	80,10	F5272250	115,90
					F2502250	40,05	F5034250	86,95			F2527250	80,35	F5274250	146,25
300	12"	323,9	F2573300	42,90	F2576300	41,25	F2503300	80,65	F5270300	97,85	F5271300	112,90	F5272300	154,55
					F2502300	51,95	F5034300	119,05			F2527300	113,25	F5274300	211,40
350	14"	355,6	F2573350	55,05	F2576350	66,50	F2503350	155,55			F5271350	154,55	F5272350	227,10
					F2502350	92,30	F5034350	215,75			F2527350	172,35	F5274350	298,90
400	16"	406,4	F2573400	64,95	F2576400	90,05	F2503400	166,50			F5271400	168,11	F5272400	305,25
					F2502400	99,75	F5034400	256,60			F2527400	216,10	F5274400	432,20
450	18"	457,0	F2573450	75,55	F2576450	121,15					F5271450	271,60		
					F2502450	172,45					F2527450	320,65		
500	20"	508,0	F2573500	86,85	F2576500	132,65	F2503500	249,55			F5271500	275,25	F5272500	469,60
					F2502500	174,25	F5034500	300,55			F2527500	347,10	F5274500	585,30
600	24"	610,0			F2576600	158,85					F5271600	334,45		
					F2502600	226,50					F2527600	513,85		
700	28"	711,0			F2576700	201,50					F5271700	474,25		
					F2502700	259,25					F2527700	605,75		
800	32"	813,0			F2576800	281,15					F5271800	695,15		
					F2502800	325,75					F2527800	830,35		
900	36"	914,0			F2576900	338,20					F5271900	1.050,15		
					F2502900	410,55					F2527900	1.186,00		
1000	40"	1.016,0			F2576999	417,05					F5271999	1.350,55		
					F2502999	591,25					F2527999	1.591,55		

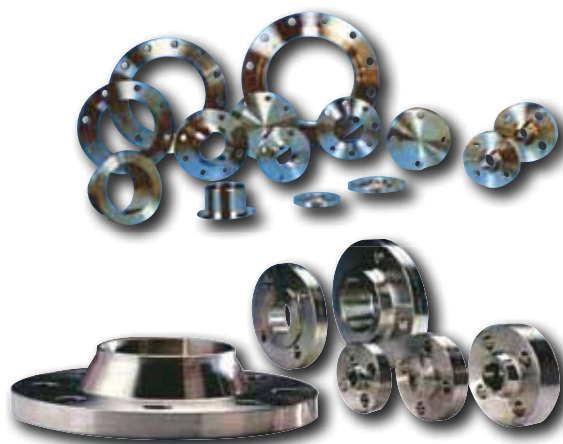
DIMENSÕES			PLANA ROSCADA ZN DIN 2573 PN 6		PLANA ROSCADA ZN DIN 2576 PN 10/16		COM COLARINHO ROSCADA DIN 2566 PN 10/16		COM COLARINHO ROSCADA GALVA DIN 2566 PN 10/16	
DN	Ø	mm.	COD.	€	COD.	€	COD.	€	COD.	€
15	1/2"	21,3	F5730015	2,50	F5760015	4,45	F5660015	3,65	F566G015	4,35
20	3/4"	26,9	F5730020	3,65	F5760020	6,30	F5660020	5,45	F566G020	6,45
25	1"	33,7	F5730025	4,50	F5760025	7,45	F5660025	6,90	F566G025	7,80
32	1 1/4"	42,4	F5730032	7,25	F5760032	10,85	F5660032	9,60	F566G032	11,35
40	1 1/2"	48,3	F5730040	8,50	F5760040	12,45	F5660040	10,70	F566G040	12,65
50	2"	60,3	F5730050	9,35	F5760050	16,55	F5660050	14,60	F566G050	17,25
65	2 1/2"	76,2	F5730065	11,55	F5760065	18,35	F5660065	17,25	F566G065	20,75
80	3"	88,9	F5730080	18,20	F5760080	23,20				
					F5760086	23,20	F5660080	22,35	F566G080	26,85
100	4"	114,3	F5730100	21,15	F5760100	24,65	F5660100	24,25	F566G100	29,15
125	5"	139,7	F5730125	28,15	F5760125	33,40	F5660125	35,50	F566G125	40,00
150	6"	168,3	F5730150	31,95	F5760150	40,20	F5660150	46,25	F566G150	51,65



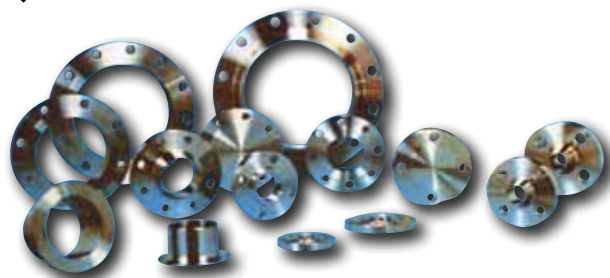
FLANGE COM COLARINHO DIN 2631 PN 6		FLANGE COM COLARINHO DIN 2632/2633 PN 10/16		FLANGE COM COLARINHO DIN 2634/2635 PN 25/40		FLANGE PLANA PARA REGA DIN 2576 PN 10/16		FLANGE LOUCA ZINCADA DIN 2642 PN 10	
COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
F2631015	2,35	F2633015	4,70	F2635015	4,85				
F2631020	3,55	F2633020	5,70	F2635020	6,35				
F2631025	4,50	F2633025	6,50	F2635025	9,25			F2642025	4,45
F2631032	6,55	F2633032	9,60	F2635032	11,30			F2642032	5,95
F2631040	7,10	F2633040	10,60	F2635040	14,00	F576R040	4,60	F2642040	6,85
F2631050	8,05	F2633050	14,40	F2635050	16,05	F576R050	5,30	F2642050	7,80
F2631065	9,05	F2633065	15,75	F2635065	19,25	F576R065	6,45	F2642065	9,30
F2631080	14,70			F2635080	24,45	F576R080	7,65	F2642080	11,80
		F2633080	19,00			F576R816	7,65		
		F2633108	27,75						
F2631100	17,60	F2633100	23,75	F2635100	33,55	F576R100	7,75	F2642100	13,05
		F2633133	37,60						
F2631125	24,35	F2633125	37,60	F2635125	46,65	F576R125	9,55	F2642125	16,15
		F2633159	46,25						
F2631150	30,95	F2633150	39,90	F2635150	60,70	F576R150	13,45	F2642150	19,90
F2631200	55,70	F2632200	58,15	F2634200	102,10	F576R200	17,55	F2642200	26,50
		F2632200	59,60	F2635200	110,35	F576R216	17,55		
F2631250	77,35	F2632250	83,75	F2634250	146,55	F576R250	20,65	F2642250	36,55
		F2632250	88,85	F2635250	198,80				
F2631300	84,10	F2632300	99,15	F2634300	187,40	F576R300	23,95	F2642300	49,70
		F2632300	125,30	F2635300	283,10				
F2631350	111,15	F2632350	141,70	F2634350	283,50				
		F2632350	177,70	F2635350	449,95				
F2631400	127,35	F2632400	162,90	F2634400	370,60				
		F2632400	223,85	F2635400	549,65				
		F2632450	276,50	F2634450	463,50				
		F2632450	334,35	F2635450	574,90				
F2631500	204,80	F2632500	272,85	F2634500	641,60				
		F2632500	436,80	F2635500	666,45				
		F2632600	539,95						
		F2632700	551,40						
		F2632800	723,25						
		F2632900	873,65						
		F2632999	1.160,10						

DN / PE Ø EXT (mm.)	FLANGE AÇO ZN PE			
	SERIE NORMAL		SERIE LIGEIRA	
	COD.	€	COD.	€
15/20	FPE10015	2,90		
20/25	FPE10020	4,00		
25/32	FPE10025	4,70		
32/40	FPE10032	6,30		
40/50	FPE10040	8,35	FPR10040	4,80
50/63	FPE10050	8,90	FPR10050	6,60
65/75	FPE10065	11,55	FPR10065	8,15
80/90	FPE10080	12,65	FPR10080	8,45
100/110	FPE10100	15,45	FPR10100	11,35
100/125	FPE10101	13,40	FPR10101	10,65
125/125	FPE10125	22,30	FPR10125	16,00
125/140	FPE10126	18,70	FPR10126	13,50
150/160	FPE10150	24,50	FPR10150	17,65
150/180	FPE10151	22,50	FPR10151	16,25
	FPE10200	32,90	FPR10200	24,45
200/200	FPE16200	33,80	FPR16200	23,60
200/225	FPE16201	31,00	FPR16201	22,95
250/250	FPE10250	42,50	FPR10250	36,35
250/250	FPE16250	46,00	FPR16250	39,50
	FPE10300	50,30	FPR10300	46,40
300/315	FPE16300	62,00	FPR16300	53,05
	FPE10350	73,60	FPR10350	68,75
350/355	FPE16350	97,05	FPR16350	76,70
	FPE10400	98,30	FPR10400	80,10
400/400	FPE16400	108,90	FPR16400	88,95
			FPR10450	93,50
450/450			FPR16450	98,20
			FPR10500	99,65
500/500			FPR16500	109,35
600/560			FPR10600	143,10
600/630			FPR10601	125,35
700/710			FPR10700	152,15
800/800			FPR10800	225,05

- PN 6
- PN 10
- PN 10/16
- PN 16
- PN 25
- PN 25/40
- PN 40



FLANGE AÇO ZN PVC		
DN / PVC Ø EXT (mm.)	COD.	€
50/50	FPVC0050	6,30
50/63	FPR10050	6,60
65/63	FPVC0063	7,65
65/75	FPVC0075	7,65
80/90	FPVC0090	8,70
100/110	FPVC0110	9,25
125/125	FPVC0125	11,35
125/140	FPVC0140	11,35
150/160	FPVC0160	13,70
	FPVC0200	20,80
200/200	FPVC6200	20,80
	FPVC0250	24,95
250/250	FPVC6250	24,95
	FPVC0315	28,95
300/315	FPVC6315	28,95



## FLANGES FORJADAS - NORMA EN

DIMENSÕES			FLANGE PLANA EN 1092-1 01 PN 6 / 10 / 16 / 40		FLANGE CEGA EN 1092-1 05 PN 10 / 16 / 40		FLANGE COM COLARINHO EN 1092-1 11 PN 10 / 16 / 40		FLANGE COM COLARINHO EN 1092-1 11 PN 40		FLANGE COM COLARINHO ROSC. EN 1092-1 13 PN 6 / 16 / 40	
DN	"	mm.	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
15	1/2"	21,3	FC010015	1,90							FC130015	2,10
			FC014015	3,70	FC054015	4,05	FC114015	4,85	FC114015	4,85	FC134015	4,05
20	3/4"	26,9	FC010020	2,80							FC130020	3,30
			FC014020	4,75	FC054020	5,70	FC114020	6,35	FC114020	6,35	FC134020	5,85
25	1"	33,7	FC010025	3,45							FC130025	4,10
			FC014025	4,80	FC054025	6,90	FC114025	9,25	FC114025	9,25	FC134025	7,05
32	1 1/4"	42,4	FC010032	5,25							FC130032	5,85
			FC014032	7,90	FC054032	10,15	FC114032	11,30	FC114032	11,30	FC134032	10,15
40	1 1/2"	48,3	FC010040	6,10							FC130040	6,75
			FC014040	9,05	FC054040	11,75	FC114040	14,00	FC114040	14,00	FC134040	11,55
50	2"	60,3	FC010050	6,70							FC130050	7,55
			FC016050	11,20	FC056050	14,40	FC116050	14,40	FC114050	16,05	FC136050	13,45
65	2 1/2"	76,1	FC010065	8,40							FC130065	10,30
			FC016065	12,95	FC056065	15,20	FC116065	15,75	FC114065	19,25	FC136065	16,70
80	3"	88,9	FC010080	12,45							FC130080	15,45
			FC016080	14,75	FC056080	19,95	FC116080	19,00	FC114080	24,45	FC136080	21,25
100	4"	114,3	FC010100	13,75								
			FC016100	18,00	FC056100	24,50	FC116100	23,75	FC114100	35,55	FC136100	24,65
125	5"	139,7	FC010125	18,20								
			FC016125	22,15	FC056125	35,25	FC116125	37,60	FC114125	46,65	FC136125	34,10
150	6"	168,3	FC010150	20,10								
			FC016150	29,25	FC056150	45,50	FC116150	39,90	FC114150	60,70	FC136150	40,70
200	8"	219,1	FC010200	29,05								
			FC011200	39,15	FC051200	75,30	FC111200	58,15				
			FC016200	42,75	FC056200	76,70	FC116200	56,60	FC114200	110,35		
250	10"	273,0	FC010250	37,70								
			FC011250	49,85	FC051250	112,05	FC111250	83,75				
			FC016250	62,40	FC056250	116,25	FC116250	88,85	FC114250	198,80		
300	12"	323,9	FC010300	50,30								
			FC011300	57,45	FC051300	143,20	FC111300	99,15				
			FC016300	83,50	FC056300	163,20	FC116300	125,30	FC114300	283,10		
350	14"	355,6	FC010350	75,10								
			FC011350	91,20	FC051350	165,05	FC111350	141,70				
			FC016350	131,10	FC056350	195,25	FC116350	177,70				
400	16"	406,4	FC010400	88,50								
			FC011400	122,95	FC051400	205,95	FC111400	162,90				
			FC016400	166,90	FC056400	256,15	FC116400	223,85				
450	18"	457,0										
			FC016450	214,35								
500	20"	508,0	FC010500	117,95								
			FC011500	179,70								
			FC016500	265,55								

PN 6
PN 10
PN 16
PN 40



## FLANGES FORJADAS - NORMA ASTM - ANSI B 16.5 (A105)

DIMENSÕES			WELDING NECK 150 Lbs.		WELDING NECK 300 Lbs.		SLIP - ON 150 Lbs.		SLIP - ON 300 Lbs.	
DN	Ø	mm.	COD.	€	COD.	€	COD.	€	COD.	€
15	1/2"	21,3	FN150015	3,65	FN300015	5,80	FO150015	2,35	FO300015	4,15
20	3/4"	26,9	FN150020	5,10	FN300020	9,45	FO150020	4,15	FO300020	6,55
25	1"	33,7	FN150025	8,05	FN300025	12,40	FO150025	4,75	FO300025	8,35
32	1 1/4"	42,4	FN150032	10,35	FN300032	16,05	FO150032	6,20	FO300032	10,75
40	1 1/2"	48,3	FN150040	12,45	FN300040	23,35	FO150040	7,90	FO300040	15,50
50	2"	60,3	FN150050	18,65	FN300050	26,30	FO150050	12,40	FO300050	20,30
65	2 1/2"	76,2	FN150065	30,40	FN300065	39,45	FO150065	20,30	FO300065	26,30
80	3"	88,9	FN150080	35,90	FN300080	54,05	FO150080	23,15	FO300080	36,45
100	4"	114,3	FN150100	51,80	FN300100	86,95	FO150100	31,65	FO300100	60,35
125	5"	139,7	FN150125	63,55	FN300125	116,90	FO150125	35,60	FO300125	74,70
150	6"	168,3	FN150150	76,00	FN300150	147,60	FO150150	42,40	FO300150	96,85
200	8"	219,1	FN150200	126,45	FN300200	226,50	FO150200	71,20	FO300200	148,25
250	10"	273,0	FN150250	172,70	FN300250	323,70	FO150250	104,55	FO300250	221,80
300	12"	323,9	FN150300	269,45	FN300300	467,65	FO150300	158,25	FO300300	298,85
350	14"	355,6	FN150350	372,65	FN300350	643,05	FO150350	215,20	FO300350	418,50
400	16"	406,4	FN150400	466,95	FN300400	825,75	FO150400	274,95	FO300400	579,95
450	18"	457,0	FN150450	547,35	FN300450	979,15	FO150450	298,95	FO300450	735,40
500	20"	508,0	FN150500	683,25	FN300500	1.249,60	FO150500	382,65	FO300500	795,20
600	24"	610,0	FN150600	876,90	FN300600	1.680,75	FO150600	554,95	FO300600	1.201,80

DIMENSÕES			BLIND 150 Lbs.		BLIND 300 Lbs.		SOCKET WELDING 150 Lbs.		WELDING NECK XS 150 Lbs.	
DN	Ø	mm.	COD.	€	COD.	€	COD.	€	COD.	€
15	1/2"	21,3	FB150015	1,95	FB300015	3,40	FW150015	2,90	FNX15015	3,95
20	3/4"	26,9	FB150020	3,40	FB300020	5,85	FW150020	5,10	FNX15020	5,60
25	1"	33,7	FB150025	4,35	FB300025	7,30	FW150025	6,55	FNX15025	8,90
32	1 1/4"	42,4	FB150032	6,30	FB300032	9,70	FW150032	8,75	FNX15032	10,65
40	1 1/2"	48,3	FB150040	7,75	FB300040	14,10	FW150040	10,90	FNX15040	12,80
50	2"	60,3	FB150050	11,95	FB300050	16,55	FW150050	16,80	FNX15050	19,20
65	2 1/2"	76,2	FB150065	18,85	FB300065	24,85			FNX15065	30,95
80	3"	88,9	FB150080	22,95	FB300080	34,10			FNX15080	36,90
100	4"	114,3	FB150100	32,70	FB300100	57,45			FNX15100	52,25
125	5"	139,7	FB150125	41,45	FB300125	75,50			FNX15125	63,80
150	6"	168,3	FB150150	54,30	FB300150	105,20			FNX15150	77,00
200	8"	219,1	FB150200	96,75	FB300200	171,45			FNX15200	127,25
250	10"	273,0	FB150250	138,15	FB300250	277,65				
300	12"	323,9	FB150300	207,25	FB300300	399,45				
350	14"	355,6	FB150350	287,40	FB300350	516,40				
400	16"	406,4	FB150400	384,85	FB300400	682,05				
450	18"	457,0	FB150450	472,55	FB300450	867,15				
500	20"	508,0	FB150500	604,10	FB300500	1.086,40				
600	24"	610,0	FB150600	00,00	FB300600	1.651,50				

150 Lbs.

300 Lbs.

## JUNTAS DE BORRACHA



Tipo 1

Tipo 2

- Conforme Norma EN 1514-1 (Tipo 1) e DIN 2690 (Tipo 2).
- Juntas de 3mm de espessura.
- Temperatura de trabalho -10° C a 100° C.

■ PN 10   
 ■ PN 10/16   
 ■ PN 16

DN	TIPO 1		TIPO 1 SBR	TIPO 1 NBR		TIPO 2 SBR		
	Nº ORIFICIOS			COD.	€	COD.	€	COD.
25	4	10	JBG10025	0,39	JBG1N025	0,59	JBG20025	0,21
32	4	10	JBG10032	0,47	JBG1N032	0,75	JBG20032	0,25
40	4	10	JBG10040	0,58	JBG1N040	0,90	JBG20040	0,27
50	4	10	JBG10050	0,67	JBG1N050	1,11	JBG20050	0,36
65	8	10	JBG10065	0,81	JBG1N065	1,22	JBG20065	0,45
80	8	10	JBG10080	0,92	JBG1N080	1,38	JBG20080	0,50
80		10					JBG20086	0,50
100	8	10	JBG10100	1,01	JBG1N100	1,58	JBG20100	0,54
125	8	10	JBG10125	1,23	JBG1N125	1,82	JBG20125	0,74
150	8	10	JBG10150	1,56	JBG1N150	2,51	JBG20150	0,85
175	8	10	JBG10175	1,86			JBG20175	0,99
200	8	10	JBG10200	2,00	JBG1N200	3,18	JBG20200	1,12
200	12	10	JBG10216	2,10			JBG20206	1,12
250	12	10	JBG10250	2,71			JBG20250	1,50
250	12	10	JBG10256	2,71			JBG20256	1,50
300	12	10	JBG10300	3,40			JBG20300	2,22
300	12	10	JBG10306	3,40			JBG20306	2,22
350	16	10	JBG10350	4,50			JBG20350	3,57
350	16	10	JBG10356	4,50			JBG20356	3,57
400	16	10	JBG10400	5,30			JBG20400	3,85
400	16	10	JBG10406	5,30			JBG20406	3,85
450	20	10	JBG10450	6,30			JBG20450	4,59
450	20	10	JBG10456	6,30			JBG20456	4,59
500	20	10	JBG10500	9,34			JBG20500	5,53
500	20	10	JBG10506	9,34			JBG20506	5,53

## JUNTA CARTÃO COMPRIMIDO



- Fabricadas com fibras orgânicas e fibras minerais. SEM AMIANTO.
- Espessura 1,5 mm.
- Temperatura máxima de utilização 150° C. Pressão máxima 35 kg./cm<sup>2</sup>.
- Aplicações: água, ar, oleos e gorduras, dissolventes.

JUNTAS PARA FLANGES SEM ORIFICIOS DIN 2690					
DN	Ø EXT.	Ø INT.		COD.	€
15	50	20	25	JBKSA015	0,20
20	60	25	25	JBKSA020	0,21
25	70	30	25	JBKSA025	0,25
32	82	40	25	JBKSA032	0,27
40	92	50	25	JBKSA040	0,36
50	107	60	25	JBKSA050	0,42
65	127	77	25	JBKSA065	0,57
80	142	90	25	JBKSA080	0,64
100	162	114	25	JBKSA100	0,82
125	192	140	25	JBKSA125	1,05
150	218	168	25	JBKSA150	1,40
200	273	220	25	JBKSA200	1,95
250	328	273	10	JBKSA250	2,80
300	378	325	10	JBKSA300	3,90
350	438	368	10	JBKSA350	6,00
400	490	420	5	JBKSA400	7,25
500	595	520	5	JBKSA500	11,50
600	680	620	1	JBKSA600	22,20

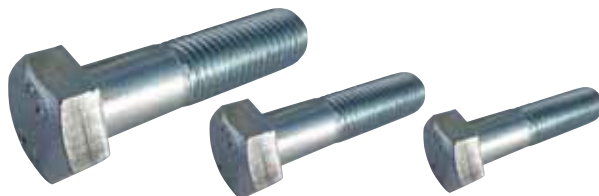
## JUNTAS SINTÉTICAS





- O seu DESENHO EXCLUSIVO permite realizar um alinhamento exacto em todos os modelos de Flanges.
- Fabricadas em Polietileno.
- Temperatura máxima de utilização 60° C. Pressão máxima 16 kgs./cm<sup>2</sup>.
- Resistente a ácidos diluídos, alcalinos, soluções salinas, água, álcool, éteres, óleos, ... São impermeáveis, imputrescíveis e anticorrosivos.

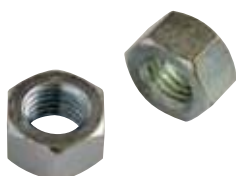
DN	Ø	COD.	€
40	1 1/2"	JBP00040	1,85
50	2"	JBP00050	1,90
65	2 1/2"	JBP00065	2,05
80	3"	JBP00080	2,35
100	4"	JBP00100	2,45
125	5"	JBP00125	2,70
150	6"	JBP00150	2,90
200	8"	JBP00200	4,40
250	10"	JBP00250	9,95
300	12"	JBP00300	15,65
400	16"	JBP00400	24,95
500	20"	JBP00500	44,80

## PARAFUSO HEXAGONAL DIN 931 - 6.8 - Zincado



MEDIDA	COMPRIMENTO		COD.	€ 100 UNID.
M8	60	100	T0310860	12,13
M8	160	100	T0310816	33,69
M10	50	100	T0311050	17,95
M10	55	100	T0311055	19,15
M10	60	100	T0311060	20,21
M10	70	100	T0311070	23,22
M10	80	100	T0311080	25,94
M10	90	100	T0311090	28,62
M10	100	100	T0311010	31,31
M10	120	100	T0311012	37,19
M10	140	50	T0311014	42,04
M12	40	100	T0311240	21,44
M12	50	100	T0311250	25,39
M12	55	100	T0311255	27,33
M12	60	100	T0311260	29,03
M12	70	100	T0311270	32,66
M12	80	100	T0311280	36,54
M12	90	100	T0311290	40,43
M12	100	100	T0311210	43,98
M12	110	50	T0311211	47,86
M12	120	50	T0311212	51,13
M12	140	50	T0311214	58,54
M14	50	100	T0311450	35,90
M14	55	100	T0311455	38,48
M14	60	50	T0311460	41,40
M14	70	50	T0311470	46,01
M14	80	50	T0311480	51,10
M14	90	50	T0311490	55,62
M14	100	50	T0311410	60,80
M14	120	50	T0311412	71,79
M14	130	50	T0311413	76,00
M14	140	50	T0311414	80,85
M16	35	100	T0311635	37,24
M16	40	50	T0311640	40,98
M16	50	50	T0311650	46,89
M16	55	50	T0311655	50,13
M16	60	50	T0311660	53,70
M16	65	50	T0311665	57,42
M16	70	25	T0311670	60,90
M16	75	25	T0311675	64,03
M16	80	25	T0311680	67,67
M16	90	25	T0311690	75,03
M16	100	25	T0311610	81,50
M16	110	25	T0311611	88,19
M16	120	25	T0311612	95,18
M16	130	25	T0311613	100,58
M16	140	25	T0311614	107,44
M16	150	25	T0311615	114,39
M16	160	25	T0311616	126,13
M16	180	25	T0311618	140,68
M16	200	25	T0311620	164,50

MEDIDA	COMPRIMENTO		COD.	€ 100 UNID.
M18	50	50	T0311850	58,64
M18	60	50	T0311860	70,50
M18	70	50	T0311870	79,23
M18	80	50	T0311880	87,32
M18	90	25	T0311890	96,37
M18	100	25	T0311810	105,11
M18	110	25	T0311811	113,84
M18	120	25	T0311812	122,25
M18	130	25	T0311813	129,36
M18	140	25	T0311814	138,42
M18	150	25	T0311815	147,15
M18	160	25	T0311816	161,05
M18	180	25	T0311818	179,49
M18	200	25	T0311820	214,52
M20	50	25	T0312050	70,45
M20	60	25	T0312060	86,21
M20	70	25	T0312070	100,92
M20	80	25	T0312080	111,57
M20	90	25	T0312090	133,25
M20	100	25	T0312010	144,56
M20	110	25	T0312011	156,23
M20	120	25	T0312012	167,85
M20	130	25	T0312013	177,86
M20	140	25	T0312014	179,45
M20	150	25	T0312015	184,24
M20	160	25	T0312016	202,13
M20	180	20	T0312018	223,79
M20	200	20	T0312020	246,43
M22	70	25	T0312270	132,44
M22	80	25	T0312280	146,61
M22	90	25	T0312290	160,78
M22	100	20	T0312210	174,64
M22	110	10	T0312211	188,80
M22	120	10	T0312212	202,97
M22	130	10	T0312213	222,07
M22	140	10	T0312214	236,85
M22	150	10	T0312215	251,64
M22	160	10	T0312216	266,42
M22	180	10	T0312218	295,99
M24	100	10	T0312410	222,38
M24	110	10	T0312411	239,62
M24	120	10	T0312412	256,56
M24	130	10	T0312413	268,58
M24	140	10	T0312414	285,21
M24	150	10	T0312415	306,77
M24	160	10	T0312416	328,02
M24	180	10	T0312418	362,52
M24	200	10	T0312420	397,01
M27	120	10	T0312712	360,67
M30	130	10	T0313013	477,40
M33	140	5	T0313314	668,05
M36	150	5	T0313615	846,08
M39	160	5	T0313916	1.050,90

**PORCA HEXAGONAL  
DIN 934 - 8 - Zincado**


MEDIDA		COD.	€ 100 UNID.
M4	250	T9340004	0,45
M5	250	T9340005	0,50
M6	150	T9340006	0,74
M8	125	T9340008	1,64
M10	100	T9340010	3,37
M12	100	T9340012	5,92
M14	50	T9340014	7,49
M16	50	T9340016	9,80
M18	25	T9340018	16,38
M20	25	T9340020	18,94
M22	20	T9340022	26,70
M24	10	T9340024	37,79
M27	10	T9340027	61,47
M30	10	T9340030	82,40
M33	5	T9340033	109,76
M36	5	T9340036	159,21
M39	5	T9340039	256,51

**ANILHA PLANA  
DIN 125 - Zincado**


MEDIDA		COD.	€ 100 UNID.
M4	300	T1250004	0,28
M5	300	T1250005	0,37
M6	150	T1250006	0,54
M8	125	T1250008	0,94
M10	100	T1250010	1,86
M12	100	T1250012	3,07
M14	70	T1250014	4,53
M16	70	T1250016	5,12
M18	50	T1250018	7,30
M20	50	T1250020	8,10
M22	50	T1250022	8,82
M24	50	T1250024	16,24
M27	50	T1250027	21,45
M30	50	T1250030	27,25
M33	30	T1250033	37,90
M36	25	T1250036	47,07
M39	10	T1250039	66,87


**VARÃO ROSCADO  
1.000 MM - DIN 975 - 4.8 - Zincado**


MEDIDA		COD.	€ 100 UNID.
M4	100	T9750004	32,34
M5	100	T9750005	36,46
M6	50	T9750006	44,57
M8	25	T9750008	77,64
M10	25	T9750010	124,93
M12	20	T9750012	169,88
M14	15	T9750014	247,73
M16	10	T9750016	325,45
M18	5	T9750018	399,61
M20	5	T9750020	506,95
M22	5	T9750022	629,77
M24	5	T9750024	759,21
M27	4	T9750027	968,42
M30	2	T9750030	1.086,21

**ANILHA ABA LARGA  
DIN 9021 - Zincado**



MEDIDA		COD.	€ 100 UNID.
M6	100	T9021006	1,62
M8	100	T9021008	3,60
M10	50	T9021010	7,05
M12	40	T9021012	14,97
M14	40	T9021014	21,35
M16	30	T9021016	24,62
M18	30	T9021018	45,48
M20	30	T9021020	49,97

**BOBINES DE AUMENTO  
ROSCA CÓNICA DIN 2981  
GALVANIZADAS AÇO ST 37,2**


Ø	COMPRIM			COD. ZINCADOS	€
3/8"	100	230	10	B5322100	1,30
1/2"	100	140	10	B5323100	1,40
3/4"	120	70	10	B5324120	1,45
1"	140	50	10	B5325140	1,50
1 1/4"	150	25	5	B5326150	2,90
1 1/2"	150	20	5	B5327150	3,50
2"	170	12	4	B5328170	4,50



**BOBINES ROSCADAS POR UM EXTREMO  
ROSCA CÓNICA ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)  
AÇO NEGRO ST 37,2**

Ø	COMPRIM			COD. NEGROS	€
1/4"	40	500	20	B6000140	0,40
3/8"	40	450	10	B6000240	0,50
3/8"	100	230	10	B6002100	0,70
3/8"	150	120	10	B6002150	0,80
3/8"	200	80	10	B6002200	1,05
3/8"	300	80	10	B6002300	1,60
1/2"	40	370	10	B6000340	0,60
1/2"	100	140	10	B6003100	0,60
1/2"	150	100	10	B6003150	0,80
1/2"	200	70	10	B6003200	1,00
1/2"	250	70	10	B6003250	1,20
1/2"	300	70	10	B6003300	1,40
3/4"	40	220	10	B6000440	0,65
3/4"	50	220	10	B6000450	0,65
3/4"	100	100	10	B6004100	0,70
3/4"	150	60	10	B6004150	0,95
3/4"	200	50	10	B6004200	1,60
3/4"	250	40	10	B6004250	1,90
3/4"	300	50	10	B6004300	2,10
1"	40	140	10	B6000540	0,90
1"	50	140	10	B6000550	0,90
1"	100	60	10	B6005100	1,05
1"	150	40	10	B6005150	1,35
1"	200	30	10	B6005200	1,65
1"	250	30	10	B6005250	2,10
1"	300	30	10	B6005300	2,75
1 1/4"	50	60	10	B6000650	1,00
1 1/4"	100	40	10	B6006100	1,30
1 1/4"	150	25	5	B6006150	1,70
1 1/4"	200	20	5	B6006200	2,05
1 1/4"	250	15	5	B6006250	2,60
1 1/4"	300	20	5	B6006300	3,20



Ø	COMPRIM			COD. NEGRAS	€
1 1/2"	50	40	10	B6000750	1,05
1 1/2"	100	30	5	B6007100	1,50
1 1/2"	150	20	5	B6007150	2,05
1 1/2"	200	15	5	B6007200	2,40
1 1/2"	250	10	5	B6007250	3,00
1 1/2"	300	20	5	B6007300	3,60
2"	60	30	5	B6000860	1,70
2"	100	20	5	B6008100	1,80
2"	150	12	4	B6008150	2,50
2"	200	12	4	B6008200	3,20
2"	250	9	3	B6008250	4,05
2"	300	12	4	B6008300	4,50
2 1/2"	60	18	6	B6000A60	2,10
2 1/2"	100	12	4	B600A100	3,20
2 1/2"	150	6	3	B600A150	3,85
2 1/2"	200	6	3	B600A200	4,60
2 1/2"	250	4	4	B600A250	5,10
2 1/2"	300	8	4	B600A300	5,90
3"	60	12	4	B6000B60	3,10
3"	80	12	4	B6000B80	3,40
3"	100	8	2	B600B100	3,70
3"	150	6	2	B600B150	4,60
3"	200	4	2	B600B200	5,70
3"	250	4	2	B600B250	6,30
3"	300	6	2	B600B300	7,50
4"	80	5	1	B6000C80	4,70
4"	100	4	2	B600C100	6,20
4"	150	3	1	B600C150	8,00
4"	200	6	2	B600C200	9,30
4"	250	4	2	B600C250	10,05
4"	300	3	1	B600C300	11,30



## UNIÕES E MEIAS UNIÕES ROSCA CILÍNDRICA ISO 7/1 (EN 10226-1) DIN 2986 (EN 10241) AÇO ST 37,2

UNIÕES						
Ø	COMPRIM		COD. NEGRAS	€	COD. ZINCADOS	€
1/8"	17	1000 10	M1100000	0,31	M5100000	0,42
1/4"	25	500 10	M1100001	0,36	M5100001	0,42
3/8"	26	400 10	M1100002	0,36	M5100002	0,47
1/2"	34	280 10	M1100003	0,42	M5100003	0,54
1/2"	50	200 10	M1100350	0,75		
1/2"	60	170 10	M1100063	0,83		
3/4"	36	160 10	M1100004	0,57	M5100004	0,70
3/4"	48	120 10			M5100484	0,88
1"	43	100 10	M1100005	0,73	M5100005	1,10
1 1/4"	48	60 10	M1100006	1,10	M5100006	1,40
1 1/2"	48	50 10	M1100007	1,40	M5100007	1,80
2"	56	24 4	M1100008	2,05	M5100008	2,55
2 1/2"	65	18 3	M110000A	4,00	M510000A	4,50
3"	71	24 1	M110000B	4,70	M510000B	6,00
4"	83	12 1	M110000D	8,75	M510000D	11,45
5"	92	6 1	M110000F	12,80	M510000F	17,40
6"	92	4 1	M110000G	26,15	M510000G	32,95

MEIAS UNIÕES					
Ø	COMPRIM		COD. NEGRAS	€	
1/4"	11	800 10	M1400001	0,31	
3/8"	12	800 10	M1400002	0,31	
1/2"	15	400 10	M1400003	0,36	
3/4"	17	300 10	M1400004	0,52	
1"	19,5	180 10	M1400005	0,73	
1 1/4"	22	120 10	M1400006	0,99	
1 1/2"	22	90 10	M1400007	1,25	
2"	26	48 8	M1400008	1,75	
2 1/2"	30,5	36 12	M140000A	3,05	
3"	34	24 12	M140000B	3,60	
4"	40	10 2	M140000D	6,70	



## BOBINES ROSCADAS AMBOS EXTREMOS ROSCA CÓNICA ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)

Ø	COMPRIM		COD. NEGRAS	€	COD. ZINCADOS	€
1/8"	50	500 20			B5100050	0,30
1/8"	60	500 20			B5100060	0,35
1/4"	40	500 20	B1100140	0,43		
1/4"	50	500 20	B1100150	0,47	B5100150	0,47
1/4"	60	500 20	B1100160	0,47	B5100160	0,52
1/4"	80	200 20	B1100180	0,62	B5100180	0,57
1/4"	100	200 20	B1101100	0,62	B5101100	0,73
1/4"	120	200 20	B1101120	0,88	B5101120	0,88
1/4"	150	120 20	B1101150	0,94	B5101150	1,20
1/4"	200	90 10	B1101200	1,30	B5101200	1,25
1/4"	250	90 10	B1101250	2,05		
1/4"	300	90 10	B1101300	2,50		
3/8"	40	450 10	B1100240	0,57	B5100240	0,62
3/8"	50	250 10	B1100250	0,57	B5100250	0,68
3/8"	60	320 10	B1100260	0,78	B5100260	0,78
3/8"	70	230 10	B1100270	0,78	B5100270	0,78
3/8"	80	280 10	B1100280	0,78	B5100280	0,78
3/8"	90	210 10	B1100290	0,83	B5100290	0,83
3/8"	100	230 10	B1102100	0,83	B5102100	0,83
3/8"	120	200 10	B1102120	0,88	B5102120	0,99
3/8"	140	180 10	B1102140	0,94	B5102140	1,15
3/8"	150	120 10	B1102150	0,99	B5102150	1,35
3/8"	160	90 10	B1102160	1,25	B5102160	1,45
3/8"	180	90 10	B1102180	1,45	B5102180	1,45
3/8"	200	80 10	B1102200	1,45	B5102200	1,50
3/8"	250	60 10	B1102250	1,50	B5102250	1,95
3/8"	300	80 10	B1102300	1,75	B5102300	2,10
3/8"	400	60 10	B1102400	2,15	B5102400	2,70
3/8"	500	60 10	B1102500	2,50	B5102500	4,15
3/8"	1000	1			B5121000	Cons.
1/2"	30	520 10	B1100330	0,50	B5100330	0,52
1/2"	40	370 10	B1100340	0,52	B5100340	0,62
1/2"	50	300 10	B1100350	0,57	B5100350	0,68
1/2"	60	250 10	B1100360	0,62	B5100360	0,68
1/2"	70	240 10	B1100370	0,65	B5100370	0,75
1/2"	80	210 10	B1100380	0,68	B5100380	0,78
1/2"	90	150 10	B1100390	0,68	B5100390	0,78
1/2"	100	140 10	B1103100	0,68	B5103100	0,78

Ø	COMPRIM		COD. NEGRAS	€	COD. ZINCADOS	€
1/2"	110	140 10	B1103110	0,75		
1/2"	120	120 10	B1103120	0,78	B5103120	0,94
1/2"	140	80 10	B1103140	0,83	B5103140	0,94
1/2"	150	110 10	B1103150	0,83	B5103150	1,05
1/2"	160	100 10	B1103160	0,94	B5103160	1,15
1/2"	180	100 10	B1103180	0,99	B5103180	1,25
1/2"	200	70 10	B1103200	1,05	B5103200	1,25
1/2"	220	70 10	B1103220	1,20		
1/2"	250	70 10	B1103250	1,55	B5103250	1,70
1/2"	300	70 10	B1103300	1,55	B5103300	1,95
1/2"	400	50 5	B1103400	1,95	B5103400	2,40
1/2"	500	40 5	B1103500	2,40	B5103500	2,90
1/2"	600	1			B5103600	Cons.
1/2"	800	1			B5103800	Cons.
1/2"	1000	1			B5131000	Cons.
3/4"	30	230 10			B5100430	0,52
3/4"	40	220 10	B1100440	0,62	B5100440	0,73
3/4"	50	180 10	B1100450	0,62	B5100450	0,73
3/4"	60	150 10	B1100460	0,68	B5100460	0,78
3/4"	70	130 10			B5100470	0,78
3/4"	80	120 10	B1100480	0,73	B5100480	0,83
3/4"	90	120 10			B5100490	0,88
3/4"	100	100 10	B1104100	0,78	B5104100	1,15
3/4"	110	100 10			B5104110	1,15
3/4"	120	70 10	B1104120	0,83	B5104120	1,15
3/4"	140	70 10	B1104140	0,99	B5104140	1,30
3/4"	150	60 10	B1104150	0,99	B5104150	1,35
3/4"	160	60 10	B1104160	1,10	B5104160	1,40
3/4"	180	60 10	B1104180	1,15	B5104180	1,45
3/4"	200	50 10	B1104200	1,20	B5104200	1,55
3/4"	250	40 10	B1104250	1,65	B5104250	2,00
3/4"	300	50 10	B1104300	1,90	B5104300	2,40
3/4"	400	30 5	B1104400	2,35	B5104400	2,95
3/4"	500	30 5	B1104500	2,80	B5104500	3,65
3/4"	600	1			B5104600	Cons.
3/4"	800	1			B5104800	Cons.
3/4"	1000	1			B5141000	Cons.
3/4"	1500	1			B5141500	Cons.
3/4"	2000	1			B5142000	Cons.



**BOBINES ROSCADAS AMBOS EXTREMOS**  
**ROSCA CÔNICA ISO 7/1 (EN 10226-1)**  
**DIN 2982 (EN 10241)**



Ø	COMPRIM		COD. NEGRAS	€	COD. ZINCADOS	€
1"	40	140 10	B1100540	0,83	B5100540	0,95
1"	50	140 10	B1100550	0,83	B5100550	0,95
1"	60	120 10	B1100560	0,94	B5100560	1,05
1"	70	100 10			B5100570	1,20
1"	80	80 10	B1100580	0,99	B5100580	1,20
1"	90	80 10			B5100590	1,30
1"	100	60 10	B1105100	1,05	B5105100	1,35
1"	120	60 10	B1105120	1,20	B5105120	1,55
1"	140	50 10	B1105140	1,40	B5105140	1,65
1"	150	40 10	B1105150	1,45	B5105150	1,75
1"	160	40 10	B1105160	1,45	B5105160	1,75
1"	180	40 10	B1105180	1,55	B5105180	1,95
1"	200	30 10	B1105200	1,70	B5105200	2,15
1"	250	30 10	B1105250	2,30	B5105250	2,85
1"	300	30 10	B1105300	3,00	B5105300	3,35
1"	400	15 5	B1105400	3,20	B5105400	4,15
1"	500	10 5	B1105500	3,90	B5105500	5,05
1"	600	1			B5105600	Cons.
1"	800	1			B5105800	Cons.
1"	1000	1			B5151000	Cons.
1"	1500	1			B5151500	Cons.
1"	2000	1			B5152000	Cons.
1 1/4"	40	80 10	B1100640	1,15	B5100640	1,25
1 1/4"	50	60 10	B1100650	1,25	B5100650	1,25
1 1/4"	60	60 10	B1100660	1,25	B5100660	1,35
1 1/4"	70	40 10	B1100670	1,30	B5100670	1,40
1 1/4"	80	50 10	B1100680	1,30	B5100680	1,45
1 1/4"	100	40 10	B1106100	1,40	B5106100	1,55
1 1/4"	120	30 10	B1106120	1,55	B5106120	1,75
1 1/4"	140	25 5	B1106140	1,65	B5106140	2,05
1 1/4"	150	25 5	B1106150	1,65	B5106150	2,10
1 1/4"	160	25 5	B1106160	1,95	B5106160	2,20
1 1/4"	180	25 5	B1106180	2,15	B5106180	2,40
1 1/4"	200	20 5	B1106200	2,20	B5106200	2,65
1 1/4"	250	15 5	B1106250	3,35	B5106250	3,45
1 1/4"	300	20 5	B1106300	3,35	B5106300	3,85
1 1/4"	400	16 2	B1106400	4,15	B5106400	4,80
1 1/4"	500	16 2	B1106500	5,05	B5106500	5,80
1 1/4"	600	1			B5106600	Cons.
1 1/4"	800	1			B5106800	Cons.
1 1/4"	1000	1			B5161000	Cons.
1 1/2"	40	80 10	B1100740	1,40	B5100740	1,45
1 1/2"	50	40 10	B1100750	1,45	B5100750	1,50
1 1/2"	60	50 10	B1100760	1,45	B5100760	1,55
1 1/2"	70	40 10			B5100770	1,65
1 1/2"	80	40 10	B1100780	1,55	B5100780	1,70
1 1/2"	100	30 5	B1107100	1,65	B5107100	1,90
1 1/2"	120	25 5	B1107120	1,90	B5107120	2,25
1 1/2"	140	20 5	B1107140	2,10	B5107140	2,45
1 1/2"	150	20 5	B1107150	2,20	B5107150	2,45
1 1/2"	160	20 5	B1107160	2,35	B5107160	2,55
1 1/2"	180	20 5	B1107180	2,65	B5107180	2,85
1 1/2"	200	15 5	B1107200	2,80	B5107200	3,00
1 1/2"	250	10 5	B1107250	3,55	B5107250	4,10
1 1/2"	300	20 5	B1107300	4,00	B5107300	4,50
1 1/2"	400	12 2	B1107400	5,10	B5107400	5,65
1 1/2"	500	12 2	B1107500	6,25	B5107500	6,85
1 1/2"	600	1			B5107600	Cons.
1 1/2"	800	1			B5107800	Cons.
1 1/2"	1000	1			B5171000	Cons.

Ø	COMPRIM		COD. NEGRAS	€	COD. ZINCADOS	€
2"	40	40 5			B5100840	1,90
2"	50	40 5			B5100850	2,20
2"	60	30 5	B1100860	1,90	B5100860	2,25
2"	80	24 6	B1100880	2,00	B5100880	2,25
2"	90	20 5			B5100890	2,25
2"	100	20 5	B1108100	2,10	B5108100	2,70
2"	120	16 4	B1108120	2,30	B5108120	2,95
2"	140	12 4	B1108140	2,50	B5108140	3,15
2"	150	12 4	B1108150	2,65	B5108150	3,15
2"	160	12 4	B1108160	3,15	B5108160	3,30
2"	180	12 4	B1108180	3,30	B5108180	3,65
2"	200	12 4	B1108200	3,35	B5108200	4,05
2"	250	9 3	B1108250	4,30	B5108250	5,05
2"	300	12 4	B1108300	4,90	B5108300	6,10
2"	400	10 2	B1108400	6,20	B5108400	7,60
2"	500	12 2	B1108500	7,60	B5108500	9,30
2"	600	1			B5108600	Cons.
2"	800	1			B5108800	Cons.
2"	1000	1			B5181000	Cons.
2 1/2"	80	12 4	B1100A80	3,70	B5100A80	3,90
2 1/2"	100	12 4	B110A100	3,85	B510A100	4,25
2 1/2"	120	8 4	B110A120	4,35	B510A120	4,80
2 1/2"	140	6 3	B110A140	4,95	B510A140	5,00
2 1/2"	150	6 3	B110A150	5,05	B510A150	5,10
2 1/2"	160	6 3	B110A160	5,10	B510A160	5,20
2 1/2"	180	6 3	B110A180	5,15	B510A180	5,25
2 1/2"	200	6 3	B110A200	5,30	B510A200	6,00
2 1/2"	250	4 4	B110A250	6,15	B510A250	6,95
2 1/2"	300	8 4	B110A300	6,65	B510A300	7,65
2 1/2"	400	6 2			B510A400	9,65
2 1/2"	500	5 1			B510A500	11,50
2 1/2"	600	1			B510A600	Cons.
2 1/2"	800	1			B510A800	Cons.
2 1/2"	1000	1			B51A1000	Cons.
3"	80	12 4	B1100B80	4,25	B5100B80	4,90
3"	100	8 2	B110B100	4,70	B510B100	5,05
3"	120	8 2	B110B120	5,20	B510B120	5,70
3"	140	4 2	B110B140	5,30	B510B140	5,80
3"	150	6 2	B110B150	5,50	B510B150	6,20
3"	160	4 2			B510B160	6,50
3"	180	4 2	B110B180	6,30	B510B180	6,80
3"	200	4 2	B110B200	6,40	B510B200	7,50
3"	250	4 2	B110B250	7,50	B510B250	8,50
3"	300	6 2	B110B300	8,40	B510B300	11,50
3"	400	4 2			B510B400	21,75
3"	500	4 2			B510B500	27,50
4"	80	5 1	B1100C80	7,45	B5100C80	7,75
4"	100	4 2	B110C100	8,05	B510C100	8,50
4"	120	3 1	B110C120	9,15	B510C120	9,60
4"	140	3 1	B110C140	9,20	B510C140	9,60
4"	150	3 1	B110C150	9,45	B510C150	10,10
4"	160	3 1	B110C160	9,80	B510C160	10,10
4"	180	2 1	B110C180	10,20	B510C180	10,90
4"	200	6 2	B110C200	10,80	B510C200	12,00
4"	250	4 2	B110C250	12,80	B510C250	13,70
4"	300	3 1	B110C300	14,35	B510C300	15,60
4"	400	3 1			B510C400	33,00
4"	500	3 1			B510C500	38,30