



ATUSA

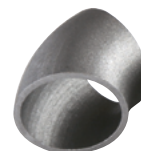
CARBON STEEL FITTINGS

CATALOGUE 2024

CARBON STEEL BUTT-WELDING PIPE FITTINGS - EN STANDARD

3D ELBOW EN 10253-1 - STEEL S235

DIMENSION		45°	90°	90° GALVA.	90° WELDED	180°
Ø	Ø EXT. x THICKNESS mm.	CODE	CODE	CODE	CODE	CODE
1/2"	21,3 x 2,0	C3450021	C3XXXX21	C3GXX21		C3180021
3/4"	26,9 x 2,3	C3450027	C3XXXX27	C3GXX27	C3HXX27	C3180027
1"	33,7 x 2,6	C3450033	C3XXXX33	C3GXX33	C3HXX33	C3180033
	38,0 x 2,6		C3XXXX38			
1 1/4"	42,4 x 2,6	C3450042	C3XXXX42	C3GXX42	C3HXX42	C3180042
	44,5 x 2,6		C3XXXX44			
1 1/2"	48,3 x 2,6	C3450048	C3XXXX48	C3GXX48	C3HXX48	C3180048
	* 51,0 x 2,6		C3XXXX51			
	54,0 x 2,6		C3XXXX54			
	57,0 x 2,9		C3XXXX57			
2"	60,3 x 2,9	C3450060	C3XXXX60	C3GXX60	C3HXX60	C3180060
	70,0 x 2,9		C3XXXX70	C3GXX70		
2 1/2"	76,1 x 2,9	C3450076	C3XXXX76	C3GXX76	C3HXX76	C3180076
3"	88,9 x 3,2	C3450089	C3XXXX89	C3GXX89	C3HXX89	C3180089
3 1/2"	101,6 x 3,6	C3450101	C3XXX101	C3GXX101	C3HXX101	C3180101
	108,0 x 3,6		C3XXX108	C3GXX108		
4"	114,3 x 3,6	C3450114	C3XXX114	C3GXX114	C3HXX114	C3180114
	133,0 x 4,0		C3XXX133	C3GXX133		
5"	139,7 x 4,0	C3450139	C3XXX139	C3GXX139	C3HXX139	C3180139
	159,0 x 4,5		C3XXX159	C3GXX159		
6"	168,3 x 4,5	C3450168	C3XXX168	C3GXX168	C3HXX168	C3180168
7"	193,7 x 5,6		C3XXX193			
8"	219,1 x 6,3	C3450219	C3XXX219	C3GXX219		
	244,5 x 6,3		C3XXX244			
10"	273,0 x 6,3	C3450273	C3XXX273	C3GXX273		
12"	323,9 x 7,1	C3450324	C3XXX324			
14"	355,6 x 8,0	C3450355	C3XXX355			
16"	406,4 x 8,8	C3450406	C3XXX406			
18"	* 457,2 x 9,53		C3XXX457			
20"	* 508,0 x 9,53		C3XXX508			
24"	* 609,6 x 9,53		C3XXX609			



* Not according to EN 10253 Standard

5D ELBOW EN 10253-1 - STEEL S235

DIMENSION		45°	90°	90° GALVA.	180°
Ø	Ø EXT. x THICKNESS mm.	CODE	CODE	CODE	CODE
1/2"	21,3 x 2,0	C5450021	C5XXXX21		
3/4"	26,9 x 2,3	C5450027	C5XXXX27	C5GXXX27	C5180027
1"	33,7 x 2,6	C5450033	C5XXXX33	C5GXXX33	C5180033
1 1/4"	42,4 x 2,6	C5450042	C5XXXX42	C5GXXX42	C5180042
1 1/2"	48,3 x 2,6	C5450048	C5XXXX48	C5GXXX48	C5180048
2"	60,3 x 2,9	C5450060	C5XXXX60	C5GXXX60	C5180060
	70,0 x 2,9		C5XXXX70		
2 1/2"	76,1 x 2,9	C5450076	C5XXXX76	C5GXXX76	C5180076
3"	88,9 x 3,2	C5450089	C5XXXX89	C5GXXX89	C5180089
3 1/2"	101,6 x 3,6	C5450101	C5XXX101		
	108,0 x 3,6		C5XXX108		
4"	114,3 x 3,6	C5450114	C5XXX114	C5GXX114	C5180114
	133,0 x 4,0		C5XXX133		
5"	139,7 x 4,0		C5XXX139	C5GXX139	
	159,0 x 4,5		C5XXX159		
6"	168,3 x 4,5		C5XXX168	C5GXX168	
8"	219,1 x 6,3		C5XXX219	C5GXX219	
10"	273,0 x 6,3		C5XXX273	C5GXX273	
12"	323,9 x 7,1		C5XXX324		





TEE EN 10253-1 - STEEL S235

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
1/2"	21,3	2,0	CTDXXX21
3/4"	26,9	2,3	CTDXXX27
1"	33,7	2,6	CTDXXX33
1 1/4"	42,4	2,6	CTDXXX42
1 1/2"	48,3	2,6	CTDXXX48
2"	60,3	2,9	CTDXXX60
2 1/2"	76,1	2,9	CTDXXX76
3"	88,9	3,2	CTDXXX89
3 1/2"	101,6	3,6	CTDXXX101

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
4"	114,3	3,6	CTDXX114
5"	139,7	4,0	CTDXX139
6"	168,3	4,5	CTDXX168
8"	219,1	6,3	CTDXX219
10"	273,0	6,3	CTDXX273
12"	323,9	7,1	CTDXX323
14"	355,6	8,0	CTDXX355
16"	406,4	8,8	CTDXX406



CAP EN 10253-1 - STEEL S235

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
3/4"	* 26,9	2,3	CCXXXX27
1"	33,7	2,6	CCXXXX34
1 1/4"	42,4	2,6	CCXXXX42
1 1/2"	48,3	2,6	CCXXXX48
2"	60,3	2,9	CCXXXX60
	70,0	2,9	CCXXXX70
2 1/2"	76,1	2,9	CCXXXX76
3"	88,9	3,2	CCXXXX89
3 1/2"	101,6	3,6	CCXXX101
	108,0	3,6	CCXXX108
4"	114,3	3,6	CCXXX114
	133,0	4,0	CCXXX133

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
5"	139,7	4,0	CCXXX140
	159,0	4,5	CCXXX159
6"	168,3	4,5	CCXXX168
7"	193,7	5,6	CCXXX193
8"	219,1	6,3	CCXXX219
	244,5	6,3	CCXXX245
10"	273,0	6,3	CCXXX273
12"	323,9	7,1	CCXXX324
14"	355,6	8,0	CCXXX356
16"	406,4	8,8	CCXXX406
18"	* 457,0	8,0	CCXXX457
20"	* 508,0	8,0	CCXXX508
24"	* 610,0	8,0	CCXXX610

* Not according to EN 10253 Standard



FORM 1

FORM 2



CONCENTRIC REDUCER EN 10253-1 - STEEL S235

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
3/4" x 1/2"	26,9 x 21,3	2,3 - 2,0	CRXX2721
1" x 1/2"	33,7 x 21,3	2,6 - 2,0	CRXX3321
1" x 3/4"	33,7 x 26,9	2,6 - 2,3	CRFX3327**
1 1/4" x 1/2"	42,4 x 21,3	2,6 - 2,0	CRXX4221
1 1/4" x 3/4"	42,4 x 26,9	2,6 - 2,3	CRFX4227**
1 1/4" x 1"	42,4 x 33,7	2,6 - 2,6	CRFX4233**
1 1/2" x 1/2"	* 48,3 x 21,3	2,6 - 2,0	CRXX4821
1 1/2" x 3/4"	48,3 x 26,9	2,6 - 2,3	CRFX4827**
1 1/2" x 1"	48,3 x 33,7	2,6 - 2,6	CRFX4833**
1 1/2" x 1 1/4"	48,3 x 42,4	2,6 - 2,6	CRFX4842**
2" x 3/4"	* 60,3 x 26,9	2,9 - 2,3	CRXX6027
2" x 1"	60,3 x 33,7	2,9 - 2,6	CRFX6033**
2" x 1 1/4"	60,3 x 42,4	2,9 - 2,6	CRFX6042**
2" x 1 1/2"	60,3 x 48,3	2,9 - 2,6	CRFX6048**
2 1/2" x 1"	* 76,1 x 33,7	2,9 - 2,6	CRXX7633
2 1/2" x 1 1/4"	76,1 x 42,4	2,9 - 2,6	CRFX7642**
2 1/2" x 1 1/2"	76,1 x 48,3	2,9 - 2,6	CRFX7648**
2 1/2" x 2"	76,1 x 60,3	2,9 - 2,9	CRFX7660**
3" x 1 1/4"	* 88,9 x 42,4	3,2 - 2,6	CRXX8942
3" x 1 1/2"	88,9 x 48,3	3,2 - 2,6	CRFX8948**
3" x 2"	88,9 x 60,3	3,2 - 2,9	CRFX8960**
3" x 2 1/2"	88,9 x 76,1	3,2 - 2,9	CRFX8976**
3 1/2" x 2"	* 101,6 x 60,3	3,6 - 2,9	CRX10160
3 1/2" x 2 1/2"	* 101,6 x 76,1	3,6 - 2,9	CRF10176**
3 1/2" x 3"	* 101,6 x 88,9	3,6 - 3,2	CRF10189**
	* 108,0 x 60,3	3,6 - 2,9	CRX10860
	* 108,0 x 76,1	3,6 - 2,9	CRX10876
	* 108,0 x 88,9	3,6 - 3,2	CRX10889
4" x 1 1/2"	* 114,3 x 48,3	3,6 - 2,6	CRX11448
4" x 2"	114,3 x 60,3	3,6 - 2,9	CRF11460**
4" x 2 1/2"	114,3 x 76,1	3,6 - 2,9	CRF11476**
4" x 3"	114,3 x 88,9	3,6 - 3,2	CRF11489**
4" x 3 1/2"	* 114,3 x 101,6	3,6 - 3,6	CR114101
	* 133,0 x 76,1	4,0 - 2,9	CRX13376
	* 133,0 x 88,9	4,0 - 3,2	CRX13389
	* 133,0 x 101,6	4,0 - 3,6	CR133101
	* 133,0 x 108,0	4,0 - 3,6	CR133108
	* 133,0 x 114,3	4,0 - 3,6	CR133114

Ø	Ø EXT. mm.	THICKNESS mm.	CODE
5" x 2"	* 139,7 x 60,3	4,0 - 2,9	CRX13960
5" x 2 1/2"	139,7 x 76,1	4,0 - 2,9	CRX13976
5" x 3"	139,7 x 88,9	4,0 - 3,2	CRX13989
5" x 3 1/2"	* 139,7 x 101,6	4,0 - 3,6	CR139101
	* 139,7 x 108,0	4,0 - 3,6	CR139108
5" x 4"	139,7 x 114,3	4,0 - 3,6	CR139114
	* 159,0 x 88,9	4,5 - 3,2	CRX15989
	* 159,0 x 108,0	4,5 - 3,6	CR159108
	* 159,0 x 114,3	4,5 - 3,6	CR159114
	* 159,0 x 133,0	4,5 - 4,0	CR159133
	* 159,0 x 139,7	4,5 - 4,0	CR159139
6" x 2 1/2"	* 168,3 x 76,1	4,5 - 2,9	CRX16876
6" x 3"	168,3 x 88,9	4,5 - 3,2	CRX16889
6" x 4"	168,3 x 114,3	4,5 - 3,6	CR168114
6" x 5"	168,3 x 139,7	4,5 - 4,0	CR168139
	* 193,7 x 114,3	5,6 - 3,6	CR193114
	* 193,7 x 133,0	5,6 - 4,0	CR193133
	* 193,7 x 159,0	5,6 - 4,5	CR193159
	* 193,7 x 168,3	5,6 - 4,5	CR193168
8" x 4"	219,1 x 114,3	6,3 - 3,6	CR219114
	* 219,1 x 133,0	6,3 - 4,0	CR219133
8" x 5"	219,1 x 139,7	6,3 - 4,0	CR219139
	* 219,1 x 159,0	6,3 - 4,5	CR219159
8" x 6"	219,1 x 168,3	6,3 - 4,5	CR219168
10" x 5"	273,0 x 139,7	6,3 - 4,0	CR273139
10" x 6"	273,0 x 168,3	6,3 - 4,5	CR273168
10" x 8"	273,0 x 219,1	6,3 - 6,3	CR273219
12" x 6"	323,9 x 168,3	7,1 - 4,5	CR323168
12" x 8"	323,9 x 219,1	7,1 - 6,3	CR323219
12" x 10"	323,9 x 273,0	7,1 - 6,3	CR323273
14" x 8"	355,6 x 219,1	8,0 - 6,3	CR355219
14" x 10"	355,6 x 273,0	8,0 - 6,3	CR355273
14" x 12"	355,6 x 323,9	8,0 - 7,1	CR355323
16" x 10"	406,4 x 273,0	8,8 - 6,3	CR406273
16" x 12"	406,4 x 323,9	8,8 - 7,1	CR406323
16" x 14"	406,4 x 355,6	8,8 - 8,0	CR406355

* Not according to EN 10253 Standard

** FORM 1 (Also available in FORM 2)

CARBON STEEL BUTT-WELDING PIPE FITTINGS - ASTM STANDARD

ELBOW ASTM A-234 WPB - ASME B 16.9

DIMENSION		STD				XS		
		LONG RADIUS			SHORT RADIUS	LONG RADIUS		SHORT RADIUS
		90°	45°	180°	90°	90°	45°	90°
Ø	Ø EXT. mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE
1/2"	21,3	CSTL900M	CSTL450M			CXSL900M	CXSL450M	
3/4"	26,7	CSTL900T	CSTL450T			CXSL900T	CXSL450T	
1"	33,4	CSTL9001	CSTL4501		CSTS9001	CXSL9001	CXSL4501	CXSS9001
1 1/4"	42,2	CSTL901C	CSTL451C		CSTS901C	CXSL901C	CXSL451C	CXSS901C
1 1/2"	48,3	CSTL901M	CSTL451M	CSTL181M	CSTS901M	CXSL901M	CXSL451M	CXSS901M
2"	60,3	CSTL9002	CSTL4502	CSTL1802	CSTS9002	CXSL9002	CXSL4502	CXSS9002
2 1/2"	73,0	CSTL902M	CSTL452M	CSTL182M	CSTS902M	CXSL902M	CXSL452M	CXSS902M
3"	88,9	CSTL9003	CSTL4503	CSTL1803	CSTS9003	CXSL9003	CXSL4503	CXSS9003
3 1/2"	101,6	CSTL903M	CSTL453M			CXSL903M	CXSL453M	
4"	114,3	CSTL9004	CSTL4504	CSTL1804	CSTS9004	CXSL9004	CXSL4504	CXSS9004
5"	141,3	CSTL9005	CSTL4505	CSTL1805	CSTS9005	CXSL9005	CXSL4505	CXSS9005
6"	168,3	CSTL9006	CSTL4506	CSTL1806	CSTS9006	CXSL9006	CXSL4506	CXSS9006
8"	219,1	CSTL9008	CSTL4508		CSTS9008	CXSL9008	CXSL4508	CXSS9008
10"	273,0	CSTL9010	CSTL4510		CSTS9010	CXSL9010	CXSL4510	CXSS9010
12"	323,8	CSTL9012	CSTL4512		CSTS9012	CXSL9012	CXSL4512	CXSS9012
14"	355,6	CSTL9014	CSTL4514		CSTS9014	CXSL9014	CXSL4514	CXSS9014
16"	406,4	CSTL9016	CSTL4516		CSTS9016	CXSL9016	CXSL4516	CXSS9016
18"	457,0	CSTL9018	CSTL4518					
20"	508,0	CSTL9020	CSTL4520					
24"	610,0	CSTL9024	CSTL4524					



**CAP ASTM A-234 WPB
ASME B 16.9**



**TEE ASTM A-234 WPB
ASME B 16.9**



DIMENSION		STD	XS
Ø	Ø EXT. mm.	CODE	CODE
1/2"	21,3	CCSTXX0M	CCXSXX0M
3/4"	26,7	CCSTXX0T	CCXSXX0T
1"	33,4	CCSTXX01	CCXSXX01
1 1/4"	42,2	CCSTXX1C	CCXSXX1C
1 1/2"	48,3	CCSTXX1M	CCXSXX1M
2"	60,3	CCSTXX02	CCXSXX02
2 1/2"	73,0	CCSTXX2M	CCXSXX2M
3"	88,9	CCSTXX03	CCXSXX03
3 1/2"	101,6	CCSTXX3M	CCXSXX3M
4"	114,3	CCSTXX04	CCXSXX04
5"	141,3	CCSTXX05	CCXSXX05
6"	168,3	CCSTXX06	CCXSXX06
8"	219,1	CCSTXX08	CCXSXX08
10"	273,0	CCSTXX10	CCXSXX10
12"	323,8	CCSTXX12	CCXSXX12
14"	355,6	CCSTXX14	CCXSXX14
16"	406,4	CCSTXX16	CCXSXX16
18"	457,0	CCSTXX18	CCXSXX18
20"	508,0	CCSTXX20	CCXSXX20
24"	610,0	CCSTXX24	CCXSXX24

DIMENSION		STD	XS
Ø	Ø EXT. mm.	CODE	CODE
1/2"	21,3	CTXXXX21	CTXSXX0M
3/4"	26,7	CTXXXX27	CTXSXX0T
1"	33,4	CTXXXX33	CTXSXX01
1 1/4"	42,2	CTXXXX42	CTXSXX1C
1 1/2"	48,3	CTXXXX48	CTXSXX1M
2"	60,3	CTXXXX60	CTXSXX02
2 1/2"	73,0	CTXXXX76	CTXSXX2M
3"	88,9	CTXXXX89	CTXSXX03
3 1/2"	101,6	CTXXXX101	CTXSXX3M
4"	114,3	CTXXXX114	CTXSXX04
5"	141,3	CTXXXX140	CTXSXX05
6"	168,3	CTXXXX168	CTXSXX06
8"	219,1	CTXXXX219	CTXSXX08
10"	273,0	CTXXXX273	CTXSXX10
12"	323,8	CTXXXX324	CTXSXX12
14"	355,6	CTXXXX355	CTXSXX14
16"	406,4	CTXXXX406	CTXSXX16
18"	457,0	CTXXXX457	
20"	508,0	CTXXXX508	
24"	610,0	CTXXXX610	

REDUCING TEE AND CONCENTRIC AND ECCENTRIC REDUCER ASTM A-234 WPB - ASME B 16.9

DIMENSION		REDUCING TEE	CONCENTRIC REDUCER		ECCENTRIC REDUCER
		STD	STD	XS	STD
Ø	Ø EXT. mm.	CODE	CODE	CODE	CODE
3/4" x 1/2"	26,7 x 21,3	CTST0T0M	CRST0T0M	CRXS0T0M	CREX0T0M
1" x 1/2"	33,4 x 21,3	CTST010M	CRST010M	CRXS010M	CREX010M
1" x 3/4"	33,4 x 26,7	CTST010T	CRST010T	CRXS010T	CREX010T
1 1/4" x 1/2"	42,2 x 21,3	CTST1C0M	CRST1C0M	CRXS1C0M	CREX1C0M
1 1/4" x 3/4"	42,2 x 26,7	CTST1C0T	CRST1C0T	CRXS1C0T	CREX1C0T
1 1/4" x 1"	42,2 x 33,4	CTST1C01	CRST1C01	CRXS1C01	CREX1C01
1 1/2" x 1/2"	48,3 x 21,3	CTST1M0M	CRST1M0M	CRXS1M0M	CREX1M0M
1 1/2" x 3/4"	48,3 x 26,7	CTST1M0T	CRST1M0T	CRXS1M0T	CREX1M0T
1 1/2" x 1"	48,3 x 33,4	CTST1M01	CRST1M01	CRXS1M01	CREX1M01
1 1/2" x 1 1/4"	48,3 x 42,2	CTST1M1C	CRST1M1C	CRXS1M1C	CREX1M1C
2" x 1/2"	60,3 x 21,3		CRST020M		
2" x 3/4"	60,3 x 26,7		CRST020T		CREX020T
2" x 1"	60,3 x 33,4	CTST0201	CRST0201	CRXS0201	CREX0201
2" x 1 1/4"	60,3 x 42,2	CTST021C	CRST021C	CRXS021C	CREX021C
2" x 1 1/2"	60,3 x 48,3	CTST021M	CRST021M	CRXS021M	CREX021M
2 1/2" x 1"	73,0 x 33,4	CTST2M01	CRST2M01		CREX2M01
2 1/2" x 1 1/4"	73,0 x 42,2	CTST2M1C	CRST2M1C	CRXS2M1C	CREX2M1C
2 1/2" x 1 1/2"	73,0 x 48,3	CTST2M1M	CRST2M1M	CRXS2M1M	CREX2M1M
2 1/2" x 2"	73,0 x 60,3	CTST2M02	CRST2M02	CRXS2M02	CREX2M02
3" x 1"	88,9 x 33,4	CTST0301	CRST0301		
3" x 1 1/4"	88,9 x 42,2	CTST031C	CRST031C	CRXS031C	CREX031C
3" x 1 1/2"	88,9 x 48,3	CTST031M	CRST031M	CRXS031M	CREX031M
3" x 2"	88,9 x 60,3	CTST0302	CRST0302	CRXS0302	CREX0302
3" x 2 1/2"	88,9 x 73,0	CTST032M	CRST032M	CRXS032M	CREX032M
4" x 1 1/4"	114,3 x 42,2		CRST041C		
4" x 1 1/2"	114,3 x 48,3	CTST041M	CRST041M	CRXS041M	CREX041M
4" x 2"	114,3 x 60,3	CTST0402	CRST0402	CRXS0402	CREX0402
4" x 2 1/2"	114,3 x 73,0	CTST042M	CRST042M	CRXS042M	CREX042M
4" x 3"	114,3 x 88,9	CTST0403	CRST0403	CRXS0403	CREX0403
5" x 2"	141,3 x 60,3	CTST0502	CRST0502		CREX0502
5" x 2 1/2"	141,3 x 73,0	CTST052M	CRST052M	CRXS052M	CREX052M
5" x 3"	141,3 x 88,9	CTST0503	CRST0503	CRXS0503	CREX0503
5" x 4"	141,3 x 114,3	CTST0504	CRST0504	CRXS0504	CREX0504
6" x 2"	168,3 x 60,3	CTST0602	CRST0602		
6" x 2 1/2"	168,3 x 73,0	CTST062M	CRST062M	CRXS062M	CREX062M
6" x 3"	168,3 x 88,9	CTST0603	CRST0603	CRXS0603	CREX0603
6" x 4"	168,3 x 114,3	CTST0604	CRST0604	CRXS0604	CREX0604
6" x 5"	168,3 x 141,3	CTST0605	CRST0605	CRXS0605	CREX0605
8" x 3"	219,1 x 88,9	CTST0803	CRST0803		
8" x 4"	219,1 x 114,3	CTST0804	CRST0804	CRXS0804	CREX0804
8" x 5"	219,1 x 141,3	CTST0805	CRST0805	CRXS0805	CREX0805
8" x 6"	219,1 x 168,3	CTST0806	CRST0806	CRXS0806	CREX0806
10" x 4"	273,0 x 114,3	CTST1004	CRST1004		CREX1004
10" x 5"	273,0 x 141,3	CTST1005	CRST1005	CRXS1005	CREX1005
10" x 6"	273,0 x 168,3	CTST1006	CRST1006	CRXS1006	CREX1006
10" x 8"	273,0 x 219,1	CTST1008	CRST1008	CRXS1008	CREX1008
12" x 6"	323,8 x 168,3	CTST1206	CRST1206	CRXS1206	CREX1206
12" x 8"	323,8 x 219,1	CTST1208	CRST1208	CRXS1208	CREX1208
12" x 10"	323,8 x 273,0	CTST1210	CRST1210	CRXS1210	CREX1210
14" x 8"	355,6 x 219,1		CRST1408		CREX1408
14" x 10"	355,6 x 273,0	CTST1410	CRST1410	CRXS1410	CREX1410
14" x 12"	355,6 x 323,8	CTST1412	CRST1412	CRXS1412	CREX1412
16" x 8"	406,4 x 219,1		CRST1608		CREX1608
16" x 10"	406,4 x 273,0	CTST1610	CRST1610	CRXS1610	CREX1610
16" x 12"	406,4 x 323,8	CTST1612	CRST1612	CRXS1612	CREX1612
16" x 14"	406,4 x 355,6	CTST1614	CRST1614	CRXS1614	CREX1614
18" x 16"	457,0 x 406,4	CTST1816	CRST1816		
20" x 16"	508,0 x 406,4	CTST2016	CRST2016		
20" x 18"	508,0 x 457,0	CTST2018	CRST2018		
24" x 18"	610,0 x 457,0	CTST2418	CRST2418		
24" x 20"	610,0 x 508,0	CTST2420	CRST2420		



ELBOW ASTM A-420 WPL6 ASME B 16.9



DIMENSION		STD - LONG RAYON
Ø	Ø EXT.	CODE
1/2"	21,3	CL90460M
3/4"	26,9	CL90460T
1"	33,7	CL904601
1 1/4"	42,4	CL90461C
1 1/2"	48,3	CL90461M
2"	60,3	CL904602
2 1/2"	73,0	CL90462M
3"	88,9	CL904603
4"	114,3	CL904604
5"	141,3	CL904605
6"	168,3	CL904606
8"	219,1	CL904608
10"	273,0	CL904610

CAP ASTM A-420 WPL6 ASME B 16.9



DIMENSION		STD
Ø	Ø EXT.	CODE
2"	60,3	CCX40602
2 1/2"	73,0	CCX4062M
3"	88,9	CCX40603
4"	114,3	CCX40604
5"	141,3	CCX40605
6"	168,3	CCX40606
8"	219,1	CCX40608
10"	273,0	CCX40610

TEE ASTM A-420 WPL6 ASME B 16.9



DIMENSION		STD
Ø	Ø EXT.	CODE
1/2"	21,3	CTX4060M
3/4"	26,9	CTX4060T
1"	33,7	CTX40601
1 1/4"	42,4	CTX4061C
1 1/2"	48,3	CTX4061M
2"	60,3	CTX40602
2 1/2"	73,0	CTX4062M
3"	88,9	CTX40603
4"	114,3	CTX40604
5"	141,3	CTX40605
6"	168,3	CTX40606
8"	219,1	CTX40608
10"	273,0	CTX40610





CONCENTRIC REDUCER ASTM A-420 WPL6 ASME B 16.9







DIMENSION		STD
Ø	Ø EXT.	CODE
1" x 3/4"	33,4 x 26,7	CR46010T
1 1/4" x 1"	42,2 x 33,4	CR461C01
1 1/2" x 1 1/4"	48,3 x 42,2	CR461M1C
2" x 1"	60,3 x 33,4	CR460201
2" x 1 1/2"	60,3 x 48,3	CR46021M
2 1/2" x 2"	73,0 x 60,3	CR462M02
3" x 2"	88,9 x 60,3	CR460302
3" x 2 1/2"	88,9 x 73,0	CR46032M
4" x 2"	114,3 x 60,3	CR460402
4" x 3"	114,3 x 88,9	CR460403
5" x 3"	141,3 x 88,9	CR460503
5" x 4"	141,3 x 114,3	CR460504
6" x 4"	168,3 x 114,3	CR460604
6" x 5"	168,3 x 141,3	CR460605
8" x 6"	219,1 x 168,3	CR460806
10" x 6"	273,0 x 168,3	CR461006
12" x 10"	323,8 x 273,0	CR461210
14" x 10"	355,6 x 273,0	CR461410
14" x 12"	355,6 x 323,8	CR461412
16" x 10"	406,4 x 273,0	CR461610
16" x 12"	406,4 x 323,8	CR461612
16" x 14"	406,4 x 355,6	CR461614

STEEL FLANGES

FORGED FLANGE ACCORDING TO ASTM STANDARD - ANSI B 16.5 (A105)

DIMENSION			WELDING NECK 150 Lbs.	WELDING NECK 300 Lbs.	SLIP - ON 150 Lbs.	SLIP - ON 300 Lbs.
DN	Ø	mm.	CODE	CODE	CODE	CODE
15	1/2"	21,3	FN150015	FN300015	FO150015	FO300015
20	3/4"	26,9	FN150020	FN300020	FO150020	FO300020
25	1"	33,7	FN150025	FN300025	FO150025	FO300025
32	1 1/4"	42,4	FN150032	FN300032	FO150032	FO300032
40	1 1/2"	48,3	FN150040	FN300040	FO150040	FO300040
50	2"	60,3	FN150050	FN300050	FO150050	FO300050
65	2 1/2"	76,2	FN150065	FN300065	FO150065	FO300065
80	3"	88,9	FN150080	FN300080	FO150080	FO300080
100	4"	114,3	FN150100	FN300100	FO150100	FO300100
125	5"	139,7	FN150125	FN300125	FO150125	FO300125
150	6"	168,3	FN150150	FN300150	FO150150	FO300150
200	8"	219,1	FN150200	FN300200	FO150200	FO300200
250	10"	273,0	FN150250	FN300250	FO150250	FO300250
300	12"	323,9	FN150300	FN300300	FO150300	FO300300
350	14"	355,6	FN150350	FN300350	FO150350	FO300350
400	16"	406,4	FN150400	FN300400	FO150400	FO300400
450	18"	457,0	FN150450	FN300450	FO150450	FO300450
500	20"	508,0	FN150500	FN300500	FO150500	FO300500
600	24"	610,0	FN150600	FN300600	FO150600	FO300600
						










DIMENSION			BLIND 150 Lbs.	BLIND 300 Lbs.	SOCKET WELDING 150 Lbs.	WELDING NECK XS 150 Lbs.
DN	Ø	mm.	CODE	CODE	COD	CODE
15	1/2"	21,3	FB150015	FB300015	FW150015	FNX15015
20	3/4"	26,9	FB150020	FB300020	FW150020	FNX15020
25	1"	33,7	FB150025	FB300025	FW150025	FNX15025
32	1 1/4"	42,4	FB150032	FB300032	FW150032	FNX15032
40	1 1/2"	48,3	FB150040	FB300040	FW150040	FNX15040
50	2"	60,3	FB150050	FB300050	FW150050	FNX15050
65	2 1/2"	76,2	FB150065	FB300065		FNX15065
80	3"	88,9	FB150080	FB300080		FNX15080
100	4"	114,3	FB150100	FB300100		FNX15100
125	5"	139,7	FB150125	FB300125		FNX15125
150	6"	168,3	FB150150	FB300150		FNX15150
200	8"	219,1	FB150200	FB300200		FNX15200
250	10"	273,0	FB150250	FB300250		
300	12"	323,9	FB150300	FB300300		
350	14"	355,6	FB150350	FB300350		
400	16"	406,4	FB150400	FB300400		
450	18"	457,0	FB150450	FB300450		
500	20"	508,0	FB150500	FB300500		
600	24"	610,0	FB150600	FB300600		
						



FLAT FLANGE ACCORDING TO EN 1092-1 01 STANDARD

DIMENSION			PN 6	PN 10		PN 16		PN 25	PN 40
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	FC010015		FC014015		FC014015	FC014015	FC014015
20	3/4"	26,9	FC010020		FC014020		FC014020	FC014020	FC014020
25	1"	33,7	FC010025		FC014025		FC014025	FC014025	FC014025
32	1 1/4"	42,4	FC010032		FC014032		FC014032	FC014032	FC014032
40	1 1/2"	48,3	FC010040		FC014040		FC014040	FC014040	FC014040
50	2"	60,3	FC010050		FC016050		FC016050	FC016050	FC016050
65	2 1/2"	76,1			F2576065		F2576065		
	2 1/2"	76,1	FC010065		FC016065		FC016065	FC014065	FC014065
80	3"	88,9	FC010080	F2576080	FC016080		FC016080	FC014080	FC014080
90	3 1/2"	101,6		F2576101					
100	4"	108,0		F2576108					
	4"	114,3	FC010100		FC016100		FC016100	FC014100	FC014100
125	5"	133,0		F2576133					
	5"	139,7	FC010125		FC016125		FC016125	FC014125	FC014125
150	6"	159,0		F2576159					
	6"	168,3	FC010150		FC016150		FC016150	FC014150	FC014150
175	7"	193,7		F2576175					
200	8"	219,1	FC010200		FC011200	F2502200*	FC016200	FC012200	FC014200
250	10"	273,0	FC010250		FC011250		FC016250	FC012250	FC014250
300	12"	323,9	FC010300		FC011300	F2502300*	FC016300	FC012300	FC014300
350	14"	355,6	FC010350		FC011350		FC016350	FC012350	FC014350
400	16"	406,4	FC010400		FC011400		FC016400	FC012400	FC014400
450	18"	457,0	FC010450		FC011450	F2502450*	FC016450		
500	20"	508,0	FC010500		FC011500		FC016500	FC012500	FC014500
600	24"	610,0			FC011600		FC016600		
	24"	610,0			F2576600		F2502600		
700	28"	711,0			F2576700		F2502700		
800	32"	813,0			F2576800		F2502800		
900	36"	914,0			F2576900		F2502900		
1000	40"	1.016,0			F2576999		F2502999		

*Not standardized flanges

4 Holes

According to DIN 2576

According to DIN 2502

* Available while stock lasts



BLIND FLANGE ACCORDING TO EN 1092-1 05 STANDARD

DIMENSION			PN 6	PN 10	PN 16	PN 25	PN 40
DN	"	mm.	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	FC050015	FC054015	FC054015	FC054015	FC054015
20	3/4"	26,9	FC050020	FC054020	FC054020	FC054020	FC054020
25	1"	33,7	FC050025	FC054025	FC054025	FC054025	FC054025
32	1 1/4"	42,4	FC050032	FC054032	FC054032	FC054032	FC054032
40	1 1/2"	48,3	FC050040	FC054040	FC054040	FC054040	FC054040
50	2"	60,3	FC050050	FC056050	FC056050	FC054050	FC054050
65	2 1/2"	76,1		F2527065	F2527065		
	2 1/2"	76,1	FC050065	FC056065	FC056065	FC054065	FC054065
80	3"	88,9	FC050080	FC056080	FC056080	FC054080	FC054080
100	4"	114,3	FC050100	FC056100	FC056100	FC054100	FC054100
125	5"	139,7	FC050125	FC056125	FC056125	FC054125	FC054125
150	6"	168,3	FC050150	FC056150	FC056150	FC054150	FC054150
200	8"	219,1	FC050200	FC051200	FC056200	FC052200	FC054200
250	10"	273,0	FC050250	FC051250	FC056250	FC052250	FC054250
300	12"	323,9	FC050300	FC051300	FC056300	FC052300	FC054300
350	14"	355,6		FC051350	FC056350	FC052350	FC054350
400	16"	406,4		FC051400	FC056400	FC052400	FC054400
450	18"	457,0		FC051450	FC056450		
500	20"	508,0		FC051500	FC056500	FC052500	FC054500
600	24"	610,0		FC051600	FC056600		
	24"	610,0		F5271600	F2527600		
700	28"	711,0		F5271700	F2527700		
800	32"	813,0		F5271800	F2527800		
900	36"	914,0		F5271900	F2527900		
1000	40"	1.016,0		F5271999	F2527999		

Not standardized flanges

4 Holes



Articles according to DIN 2527



NECK FLANGE ACCORDING TO EN 1092-1 11 STANDARD

DIMENSION			PN 6	PN 10		PN 16		PN 25		PN 40	
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3	F2631015	F2633015	FC114015	F2633015	FC114015	F2635015	FC114015	F2635015	FC114015
20	3/4"	26,9	F2631020	F2633020	FC114020	F2633020	FC114020	F2635020	FC114020	F2635020	FC114020
25	1"	33,7	F2631025	F2633025	FC114025	F2633025	FC114025	F2635025	FC114025	F2635025	FC114025
32	1 1/4"	42,4	F2631032	F2633032	FC114032	F2633032	FC114032	F2635032	FC114032	F2635032	FC114032
40	1 1/2"	48,3	F2631040	F2633040	FC114040	F2633040	FC114040	F2635040	FC114040	F2635040	FC114040
50	2"	60,3	F2631050	F2633050	FC116050	F2633050	FC116050	F2635050	FC114050	F2635050	FC114050
65	2 1/2"	76,1	F2631065	F2633065	FC116065	F2633065	FC116065	F2635065	FC114065	F2635065	FC114065
80	3"	88,9	F2631080	F2633080	FC116080	F2633080	FC116080	F2635080	FC114080	F2635080	FC114080
90	3 1/2"	108,0		F2633108		F2633108					
100	4"	114,3	F2631100	F2633100	FC116100	F2633100	FC116100	F2635100	FC114100	F2635100	FC114100
125	5"	133,0		F2633133		F2633133					
125	5"	139,7	F2631125	F2633125	FC116125	F2633125	FC116125	F2635125	FC114125	F2635125	FC114125
150	6"	159,0		F2633159		F2633159					
150	6"	168,3	F2631150	F2633150	FC116150	F2633150	FC116150	F2635150	FC114150	F2635150	FC114150
200	8"	219,1	F2631200	F2632200	FC111200	F2633200	FC116200	F2634200		F2635200	FC114200
250	10"	273,0	F2631250	F2632250	FC111250	F2633250	FC116250	F2634250		F2635250	FC114250
300	12"	323,9	F2631300	F2632300	FC111300	F2633300	FC116300	F2634300		F2635300	FC114300
350	14"	355,6	F2631350	F2632350	FC111350	F2633350	FC116350	F2634350		F2635350	
400	16"	406,4	F2631400	F2632400	FC111400	F2633400	FC116400	F2634400		F2635400	
450	18"	457,0		F2632450		F2633450		F2634450		F2635450	
500	20"	508,0	F2631500	F2632500	FC111500	F2633500		F2634500		F2635500	
600	24"	609,0				F2633600					
700	28"	711,0				F2633700					
800	32"	813,0				F2633800					
900	36"	914,0				F2633900					
1000	40"	1.016,0				F2633999					
			MATERIAL P250GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH	MATERIAL P250GH	MATERIAL P245GH

 Not standardized flanges
 4 HOLES
 According to DIN 2633
 According to DIN 2635

DIMENSION			IRRIGATION FLANGE	FLANGE 2642	THREADED FLANGE 2573	THREADED FLANGE 2576	THREADED NECK FLANGE DIN 2566		THREADED NECK FLANGE EN 1092-1 TYPE 13			
				PN 10 ZINCATED	PN 6 ZINCATED	PN 10/16 ZINCATED	PN 16 BLACK	PN 16 GALVA	PN 6 BLACK	PN 16 BLACK	PN 40 BLACK	PN 16 GALVA
DN	"	mm.	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
15	1/2"	21,3			F573O015	F576O015	F5660015	F566G015	FC130015	FC134015	FC134015	
20	3/4"	26,9			F573O020	F576O020	F5660020	F566G020	FC130020	FC134020	FC134020	
25	1"	33,7		F2642025	F573O025	F576O025	F5660025	F566G025	FC130025	FC134025	FC134025	
32	1 1/4"	42,4		F2642032	F573O032	F576O032	F5660032	F566G032	FC130032	FC134032	FC134032	
40	1 1/2"	48,3	F576R040	F2642040	F573O040	F576O040	F5660040	F566G040	FC130040	FC134040	FC134040	
50	2"	60,3	F576R050	F2642050	F573O050	F576O050	F5660050	F566G050	FC130050	FC136050		F566G050
65	2 1/2"	76,1	F576R065	F2642065	F573O065	F576O065	F5660065	F566G065	FC130065	FC136065		F566G065
80	3"	88,9	F576R080	F2642080	F573O080	F576O080	F5660080	F566G080	FC130080	FC136080		F566G080
80	3"	88,9	F576R816			F576O086						
100	4"	114,3	F576R100	F2642100	F573O100	F576O100	F5660100	F566G100		FC136100		F566G100
125	5"	139,7	F576R125	F2642125	F573O125	F576O125	F5660125	F566G125		FC136125		F566G125
150	6"	168,3	F576R150	F2642150	F573O150	F576O150	F5660150	F566G150		FC136150		F566G150
200	8"	219,1	F576R200	F2642200								
200	8"	219,1	F576R216									
250	10"	273,0	F576R250	F2642250								
300	12"	323,9	F576R300	F2642300								

With 8 holes PN 16

With 12 holes PN 16

DIMENSION			ZINCATED PE FLANGE				ZINCATED PVC FLANGE	
			NORMAL SERIES PN 10	NORMAL SERIES PN 16	LIGHT SERIES PN 10	LIGHT SERIES PN 16	PN 10	PN 16
DN	PE Ø EXT (mm)	PVC Ø EXT (mm)	CODE	CODE	CODE	CODE	CODE	CODE
15	20		FPE10015	FPE10015				
20	25		FPE10020	FPE10020				
25	32		FPE10025	FPE10025				
32	40		FPE10032	FPE10032				
40	50		FPE10040	FPE10040	FPR10040	FPR10040		
50		50					FPVC0050	FPVC0050
50	63	63	FPE10050	FPE10050	FPR10050	FPR10050	FPR10050	FPR10050
65		63					FPVC0063	FPVC0063
65	75	75	FPE10065	FPE10065	FPR10065	FPR10065	FPVC0075	FPVC0075
80	90	90	FPE10080	FPE10080	FPR10080	FPR10080	FPVC0090	FPVC0090
100	110	110	FPE10100	FPE10100	FPR10100	FPR10100	FPVC0110	FPVC0110
100	125		FPE10101	FPE10101	FPR10101	FPR10101		
125	125	125	FPE10125	FPE10125	FPR10125	FPR10125	FPVC0125	FPVC0125
125	140	140	FPE10126	FPE10126	FPR10126	FPR10126	FPVC0140	FPVC0140
150	160	160	FPE10150	FPE10150	FPR10150	FPR10150	FPVC0160	FPVC0160
150	180		FPE10151	FPE10151	FPR10151	FPR10151		
200	200	200	FPE10200	FPE16200	FPR10200	FPR16200	FPVC0200	FPVC6200
200	225			FPE16201		FPR16201		
250	250	250	FPE10250	FPE16250	FPR10250	FPR16250	FPVC0250	FPVC6250
300	315	315	FPE10300	FPE16300	FPR10300	FPR16300	FPVC0315	FPVC6315
350	355		FPE10350	FPE16350	FPR10350	FPR16350		
400	400		FPE10400	FPE16400	FPR10400	FPR16400		
450	450				FPR10450	FPR16450		
500	500				FPR10500	FPR16500		
600	560				FPR10600			
600	630				FPR10601			
700	710				FPR10700			
800	800				FPR10800			



RUBBER GASKET




Type 1



Type 2




- PN 10
- PN 10/16
- PN 16

DN	TYPE 1		TYPE 1 SBR	TYPE 1 NBR	TYPE 2 SBR
	Nº HOLES		CODE	CODE	CODE
25	4	10	JBG10025	JBG1N025	JBG20025
32	4	10	JBG10032	JBG1N032	JBG20032
40	4	10	JBG10040	JBG1N040	JBG20040
50	4	10	JBG10050	JBG1N050	JBG20050
65	8	10	JBG10065	JBG1N065	JBG20065
80	8	10	JBG10080	JBG1N080	JBG20080
80	8	10			JBG20086
100	8	10	JBG10100	JBG1N100	JBG20100
125	8	10	JBG10125	JBG1N125	JBG20125
150	8	10	JBG10150	JBG1N150	JBG20150
175	8	10	JBG10175		JBG20175
200	8	10	JBG10200	JBG1N200	JBG20200
200	12	10	JBG10216		JBG20206
250	12	10	JBG10250		JBG20250
250	12	10	JBG10256		JBG20256
300	12	10	JBG10300		JBG20300
300	12	10	JBG10306		JBG20306
350	16	5	JBG10350		JBG20350
350	16	5	JBG10356		JBG20356
400	16	5	JBG10400		JBG20400
400	16	5	JBG10406		JBG20406
450	20	5	JBG10450		JBG20450
450	20	5	JBG10456		JBG20456
500	20	5	JBG10500		JBG20500
500	20	5	JBG10506		JBG20506

COMPRESSED CARDBOARD GASKET



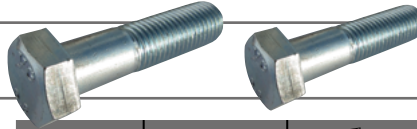
GASKET FOR FLANGES WITHOUT HOLES DIN 2690				
DN	Ø EXT.	Ø INT.		CODE
15	50	20	25	JBKSA015
20	60	25	25	JBKSA020
25	70	30	25	JBKSA025
32	82	40	25	JBKSA032
40	92	50	25	JBKSA040
50	107	60	25	JBKSA050
65	127	77	25	JBKSA065
80	142	90	25	JBKSA080
100	162	114	25	JBKSA100
125	192	140	25	JBKSA125
150	218	168	25	JBKSA150
200	273	220	25	JBKSA200
250	328	273	10	JBKSA250
300	378	325	10	JBKSA300
350	438	368	10	JBKSA350
400	490	420	5	JBKSA400
500	595	520	5	JBKSA500
600	680	620	1	JBKSA600


SYNTHETIC GASKET



DN	Ø	CODE
40	1 1/2"	JBP00040
50	2"	JBP00050
65	2 1/2"	JBP00065
80	3"	JBP00080
100	4"	JBP00100
125	5"	JBP00125
150	6"	JBP00150
200	8"	JBP00200
250	10"	JBP00250
300	12"	JBP00300
400	16"	JBP00400
500	20"	JBP00500

DIN 931 HEXAGONAL BOLT - 8.8 - Zinc-plated




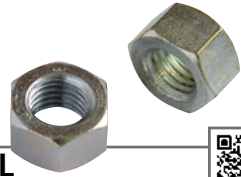
SIZE	LENGTH		CODE
M8	60	200	T8310860 *
M10	50	100	T8311050
M10	60	100	T8311060 *
M10	70	100	T8311070
M10	80	100	T8311080
M10	90	100	T8311090
M10	100	50	T8311010 *
M10	120	50	T8311012 *
M12	40	100	T8311240 *
M12	50	100	T8311250
M12	55	100	T8311255 *
M12	60	100	T8311260 *
M12	70	50	T8311270
M12	80	50	T8311280
M12	90	50	T8311290 *
M12	100	50	T8311210 *
M12	110	50	T8311211 *
M12	120	50	T8311212 *
M12	140	50	T8311214
M14	50	50	T8311450 *
M14	55	50	T8311455 *
M14	60	50	T8311460 *
M14	70	50	T8311470 *
M14	80	50	T8311480 *
M14	90	50	T8311490 *
M14	100	50	T8311410 *
M14	120	50	T8311412 *
M14	130	50	T8311413 *
M14	140	50	T8311414 *
M16	50	50	T8311650
M16	55	50	T8311655 *
M16	60	50	T8311660
M16	65	50	T8311665
M16	70	50	T8311670
M16	75	50	T8311675 *
M16	80	25	T8311680
M16	90	25	T8311690
M16	100	25	T8311610
M16	110	25	T8311611
M16	120	25	T8311612
M16	130	25	T8311613
M16	140	25	T8311614
M16	150	25	T8311615
M16	160	25	T8311616
M16	180	25	T8311618
M16	200	25	T8311620 *
M18	60	25	T8311860
M18	70	25	T8311870
M18	80	25	T8311880
M18	90	25	T8311890
M18	100	25	T8311810 *
M18	110	25	T8311811 *
M18	120	25	T8311812
M18	130	25	T8311813
M18	140	25	T8311814 *
M18	150	25	T8311815 *
M18	160	25	T8311816 *
M18	180	25	T8311818
M18	200	20	T8311820



DIN 933 HEXAGONAL BOLT - 8.8 - Zinc-plated




SIZE	LENGTH		CODE
M16	30	50	T8331630
M16	35	50	T8331635
M16	40	50	T8331640
M16	45	50	T8331645
M16	60	50	T8331660
M16	70	50	T8331670
M16	80	25	T8331680
M16	90	25	T8331690
M16	100	25	T8331610
M18	50	50	T8331850
M20	50	25	T8332050
M20	60	25	T8332060
M20	70	25	T8332070
M20	80	25	T8332080
M20	90	25	T8332090
M20	100	25	T8332010
M24	60	60	T8332460
M24	70	50	T8332470
M24	100	30	T8332410



DIN 934 HEXAGONAL NUT - 8 - ZINC-PLATED




SIZE		CODE
M4	250	T9340004
M5	250	T9340005
M6	150	T9340006
M8	125	T9340008
M10	100	T9340010
M12	100	T9340012
M14	50	T9340014
M16	50	T9340016
M18	25	T9340018
M20	25	T9340020
M22	20	T9340022
M24	10	T9340024
M27	10	T9340027
M30	10	T9340030
M33	5	T9340033



DIN 125 WASHER ZINC-PLATED




SIZE		CODE
M4	300	T1250004
M5	300	T1250005
M6	150	T1250006
M8	125	T1250008
M10	100	T1250010
M12	100	T1250012
M14	70	T1250014
M16	70	T1250016
M18	50	T1250018
M20	50	T1250020
M22	50	T1250022
M24	50	T1250024
M27	50	T1250027
M30	50	T1250030
M33	30	T1250033



DIN 975 THREADED ROD 1.000 mm - 4.8 ZINC-PLATED




SIZE		CODE
M4	100	T9750004
M5	100	T9750005
M6	50	T9750006
M8	25	T9750008
M10	25	T9750010
M12	20	T9750012
M14	15	T9750014
M16	10	T9750016
M18	5	T9750018
M20	5	T9750020
M22	5	T9750022
M24	5	T9750024
M27	4	T9750027
M30	2	T9750030



DIN 9021 WASHER ZINC-PLATED



SIZE		CODE
M6	100	T9021006
M8	100	T9021008
M10	50	T9021010
M12	40	T9021012
M14	40	T9021014
M16	30	T9021016
M18	30	T9021018
M20	30	T9021020



**NIPPLE (GROOVE-THREADED; GROOVE-WELDED)
STEEL EN 10255 (M/S195T)**



Ø	L mm.			TYPE	CODE
1 1/2"	70	50	10	RR-G	BRRG0770
2"	70	33	3	RR-G	BRRG0870
2 1/2"	70	12	2	RR-G	BRRG0B70
3"	70	12	2	RR-G	BRRG0A70
1"	80	100	10	RR-G	BRRG0580
1 1/4"	80	60	10	RR-G	BRRG0680
1 1/2"	80	50	10	RR-G	BRRG0780
2"	80	30	3	RR-G	BRRG0880
2 1/2"	80	12	2	RR-G	BRRG0B80
3"	80	12	2	RR-G	BRRG0A80
3"	110	9	1	RR-G	BRRGA110
4"	150	4	1	RR-G	BRRGC150
2"	100	24	3	RS-N	BRSN8100
2 1/2"	100	12	2	RS-N	BRSNB100
3"	100	10	1	RS-N	BRSNA100
4"	100	4	1	RS-N	BRSNC100

RR-G = GROOVE - THREAD GALVANIZED
RS-N = GROOVE - WELDING BLACK

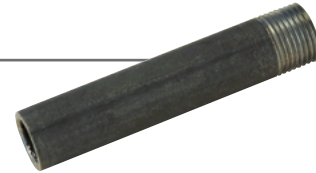


**SLIDING BARREL NIPPLE
TAPER THREAD DIN 2981
GALVANIZED STEEL ST 37,2**



Ø	LENGTH			CODE
3/8"	100	230	10	B5322100
1/2"	100	140	10	B5323100
3/4"	120	70	10	B5324120
1"	140	50	10	B5325140
1 1/4"	150	25	5	B5326150
1 1/2"	150	20	5	B5327150
2"	170	12	4	B5328170

**BLACK STUB END
TAPER THREAD ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)
BLACK STEEL ST 37,2**



Ø	LENGTH			CODE
1/4"	40	500	20	B6000140
3/8"	40	450	10	B6000240
3/8"	100	230	10	B6002100
3/8"	150	120	10	B6002150
3/8"	200	80	10	B6002200
3/8"	250	60	10	B6002250
3/8"	300	80	10	B6002300
1/2"	40	370	10	B6000340
1/2"	100	140	10	B6003100
1/2"	150	100	10	B6003150
1/2"	200	70	10	B6003200
1/2"	250	70	10	B6003250
1/2"	300	70	10	B6003300
3/4"	40	220	10	B6000440
3/4"	50	220	10	B6000450
3/4"	100	100	10	B6004100
3/4"	150	60	10	B6004150
3/4"	200	50	10	B6004200
3/4"	250	40	10	B6004250
3/4"	300	50	10	B6004300
1"	40	140	10	B6000540
1"	50	140	10	B6000550
1"	100	60	10	B6005100
1"	150	40	10	B6005150
1"	200	30	10	B6005200
1"	250	30	10	B6005250
1"	300	30	10	B6005300
1 1/4"	50	60	10	B6000650
1 1/4"	100	40	10	B6006100
1 1/4"	150	25	5	B6006150
1 1/4"	200	20	5	B6006200
1 1/4"	250	15	5	B6006250
1 1/4"	300	20	5	B6006300

Ø	LENGTH			CODE
1 1/2"	50	40	10	B6000750
1 1/2"	100	30	5	B6007100
1 1/2"	150	20	5	B6007150
1 1/2"	200	15	5	B6007200
1 1/2"	250	10	5	B6007250
1 1/2"	300	20	5	B6007300
2"	60	30	5	B6000860
2"	100	20	5	B6008100
2"	150	12	4	B6008150
2"	200	12	4	B6008200
2"	250	9	3	B6008250
2"	300	12	4	B6008300
2 1/2"	60	18	6	B6000A60
2 1/2"	100	12	4	B600A100
2 1/2"	150	6	3	B600A150
2 1/2"	200	6	3	B600A200
2 1/2"	250	4	4	B600A250
2 1/2"	300	8	4	B600A300
3"	60	12	4	B6000B60
3"	80	12	4	B6000B80
3"	100	8	2	B600B100
3"	150	6	2	B600B150
3"	200	4	2	B600B200
3"	250	4	2	B600B250
3"	300	6	2	B600B300
4"	80	5	1	B6000C80
4"	100	4	2	B600C100
4"	150	3	1	B600C150
4"	200	6	2	B600C200
4"	250	4	2	B600C250
4"	300	3	1	B600C300

SOCKET PARALLEL THREAD ISO 7/1 (EN 10226-1) DIN 2986 (EN 10241) STEEL ST 37,2



HALF SOCKET PARALLEL THREAD ISO 7/1 (EN 10226-1) DIN 2986 (EN 10241) STEEL ST 37,2



SOCKET				
Ø	LENGTH		BLACK CODE	ZINCATED CODE
1/8"	17	1000 10	M1100000	M5100000
1/4"	25	500 10	M1100001	M5100001
3/8"	26	400 10	M1100002	M5100002
1/2"	34	200 10	M1100003	M5100003
1/2"	50	170 10	M1100350	
1/2"	60	170 10	M1100063	
3/4"	36	160 10	M1100004	M5100004
3/4"	48	120 10		M5100484
1"	43	100 10	M1100005	M5100005
1 1/4"	48	60 10	M1100006	M5100006
1 1/2"	48	50 10	M1100007	M5100007
2"	56	24 4	M1100008	M5100008
2 1/2"	65	18 3	M110000A	M510000A
3"	71	24 1	M110000B	M510000B
4"	83	12 1	M110000D	M510000D
5"	92	6 1	M110000F	M510000F
6"	92	4 1	M110000G	M510000G



HALF SOCKET				
Ø	LENGTH		BLACK CODE	
1/4"	11	800 10	M1400001	
3/8"	12	800 10	M1400002	
1/2"	15	400 10	M1400003	
3/4"	17	300 10	M1400004	
1"	19,5	180 10	M1400005	
1 1/4"	22	120 10	M1400006	
1 1/2"	22	90 10	M1400007	
2"	26	48 8	M1400008	
2 1/2"	30,5	36 12	M140000A	
3"	34	24 12	M140000B	
4"	40	10 2	M140000D	

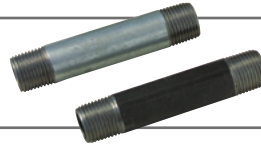



BARREL NIPPLE TAPER THREAD ISO 7/1 (EN 10226-1) DIN 2982 (EN 10241)


Ø	LENGTH		BLACK CODE	ZINCATED CODE
1/8"	50	500 20		B5100050
1/8"	60	500 20		B5100060
1/4"	40	500 20	B1100140	
1/4"	50	500 20	B1100150	B5100150
1/4"	60	500 20	B1100160	B5100160
1/4"	80	200 20	B1100180	B5100180
1/4"	100	200 20	B1101100	B5101100
1/4"	120	200 20	B1101120	B5101120
1/4"	150	120 20	B1101150	B5101150
1/4"	200	90 10	B1101200	B5101200
1/4"	250	90 10	B1101250	
1/4"	300	90 10	B1101300	
3/8"	40	450 10	B1100240	B5100240
3/8"	50	250 10	B1100250	B5100250
3/8"	60	320 10	B1100260	B5100260
3/8"	70	230 10	B1100270	B5100270
3/8"	80	280 10	B1100280	B5100280
3/8"	90	210 10	B1100290	B5100290
3/8"	100	230 10	B1102100	B5102100
3/8"	120	200 10	B1102120	B5102120
3/8"	140	180 10	B1102140	B5102140
3/8"	150	120 10	B1102150	B5102150
3/8"	160	90 10	B1102160	B5102160
3/8"	180	90 10	B1102180	B5102180
3/8"	200	80 10	B1102200	B5102200
3/8"	250	60 10	B1102250	B5102250
3/8"	300	80 10	B1102300	B5102300
3/8"	400	60 10	B1102400	B5102400
3/8"	500	60 10	B1102500	B5102500
3/8"	1000	1		B5121000
1/2"	30	520 10	B1100330	B5100330
1/2"	40	370 10	B1100340	B5100340
1/2"	50	300 10	B1100350	B5100350
1/2"	60	250 10	B1100360	B5100360
1/2"	70	240 10	B1100370	B5100370
1/2"	80	210 10	B1100380	B5100380
1/2"	90	150 10	B1100390	B5100390
1/2"	100	140 10	B1103100	B5103100

Ø	LENGTH		BLACK CODE	ZINCATED CODE
1/2"	110	140 10	B1103110	
1/2"	120	120 10	B1103120	B5103120
1/2"	140	80 10	B1103140	B5103140
1/2"	150	110 10	B1103150	B5103150
1/2"	160	100 10	B1103160	B5103160
1/2"	180	100 10	B1103180	B5103180
1/2"	200	70 10	B1103200	B5103200
1/2"	220	70 10	B1103220	
1/2"	250	70 10	B1103250	B5103250
1/2"	300	70 10	B1103300	B5103300
1/2"	400	50 5	B1103400	B5103400
1/2"	500	40 5	B1103500	B5103500
1/2"	600	1		B5103600
1/2"	800	1		B5103800
1/2"	1000	1	B1131000	B5131000
1/2"	1500	1		B5131500
1/2"	2000	1		B5132000
3/4"	30	230 10		B5100430
3/4"	40	220 10	B1100440	B5100440
3/4"	50	180 10	B1100450	B5100450
3/4"	60	150 10	B1100460	B5100460
3/4"	70	130 10		B5100470
3/4"	80	120 10	B1100480	B5100480
3/4"	90	120 10		B5100490
3/4"	100	100 10	B1104100	B5104100
3/4"	110	100 10		B5104110
3/4"	120	70 10	B1104120	B5104120
3/4"	140	70 10	B1104140	B5104140
3/4"	150	60 10	B1104150	B5104150
3/4"	160	60 10	B1104160	B5104160
3/4"	180	60 10	B1104180	B5104180
3/4"	200	50 10	B1104200	B5104200
3/4"	250	40 10	B1104250	B5104250
3/4"	300	50 10	B1104300	B5104300
3/4"	400	30 5	B1104400	B5104400
3/4"	500	30 5	B1104500	B5104500
3/4"	600	1		B5104600
3/4"	800	1		B5104800
3/4"	1000	1		B5141000
3/4"	1500	1		B5141500
3/4"	2000	1		B5142000

**BARREL NIPPLE
TAPER THREAD ISO 7/1 (EN 10226-1)
DIN 2982 (EN 10241)**



Ø	LENGTH		BLACK CODE	ZINCATED CODE
1"	40	140 10	B1100540	B5100540
1"	50	140 10	B1100550	B5100550
1"	60	120 10	B1100560	B5100560
1"	70	100 10		B5100570
1"	80	80 10	B1100580	B5100580
1"	90	80 10		B5100590
1"	100	60 10	B1105100	B5105100
1"	120	60 10	B1105120	B5105120
1"	140	50 10	B1105140	B5105140
1"	150	40 10	B1105150	B5105150
1"	160	40 10	B1105160	B5105160
1"	180	40 10	B1105180	B5105180
1"	200	30 10	B1105200	B5105200
1"	250	30 10	B1105250	B5105250
1"	300	30 10	B1105300	B5105300
1"	400	25 5	B1105400	B5105400
1"	500	20 5	B1105500	B5105500
1"	600	1		B5105600
1"	800	1		B5105800
1"	1000	1		B5151000
1"	1500	1		B5151500
1"	2000	1		B5152000
1 1/4"	40	80 10	B1100640	B5100640
1 1/4"	50	60 10	B1100650	B5100650
1 1/4"	60	60 10	B1100660	B5100660
1 1/4"	70	40 10	B1100670	B5100670
1 1/4"	80	50 10	B1100680	B5100680
1 1/4"	100	40 10	B1106100	B5106100
1 1/4"	120	30 10	B1106120	B5106120
1 1/4"	140	25 5	B1106140	B5106140
1 1/4"	150	25 5	B1106150	B5106150
1 1/4"	160	25 5	B1106160	B5106160
1 1/4"	180	25 5	B1106180	B5106180
1 1/4"	200	20 5	B1106200	B5106200
1 1/4"	250	15 5	B1106250	B5106250
1 1/4"	300	20 5	B1106300	B5106300
1 1/4"	400	16 2	B1106400	B5106400
1 1/4"	500	16 2	B1106500	B5106500
1 1/4"	600	1		B5106600
1 1/4"	800	1		B5106800
1 1/4"	1000	1		B5161000
1 1/2"	40	80 10	B1100740	B5100740
1 1/2"	50	40 10	B1100750	B5100750
1 1/2"	60	50 10	B1100760	B5100760
1 1/2"	70	40 10		B5100770
1 1/2"	80	40 10	B1100780	B5100780
1 1/2"	100	30 5	B1107100	B5107100
1 1/2"	120	25 5	B1107120	B5107120
1 1/2"	140	20 5	B1107140	B5107140
1 1/2"	150	20 5	B1107150	B5107150
1 1/2"	160	20 5	B1107160	B5107160
1 1/2"	180	20 5	B1107180	B5107180
1 1/2"	200	15 5	B1107200	B5107200
1 1/2"	250	10 5	B1107250	B5107250
1 1/2"	300	20 5	B1107300	B5107300
1 1/2"	400	12 2	B1107400	B5107400
1 1/2"	500	12 2	B1107500	B5107500
1 1/2"	600	1		B5107600
1 1/2"	700	1		B5107700
1 1/2"	800	1		B5107800
1 1/2"	1000	1		B5171000

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

OTHER SIZES - ON REQUEST



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