



**ACCIAIO AL CARBONIO | CARBON STEEL**

**RACCORDI A SALDARE ASME B16.9**  
**BUTT WELDING FITTINGS ASME B16.9**



**DIMENSIONI E SPESSORI SECONDO ASME B 16.9 + B 36.10 E ASME B 36.19  
RANGE OF SIZES AND WALL THICKNESS**

Ø nom. pipe size	Diam. esterno tubo Outside diam.		Sch. 5		Sch. 10		Sch. 20		Sch. 30		STD WT		Sch. 40		XS		Sch. 80		Sch. 100		Sch. 120		Sch. 140		Sch. 160		XXS			
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1/2"	0.840	21,34	0.065	1,65	0.083	2,11	-	-	-	-	0.109	2,77	-	-	0.147	3,73	-	-	-	-	-	-	-	-	0.187	4,75	0.294	7,47		
3/4"	1.050	26,67	0.065	1,65	0.083	2,11	-	-	-	0.113	2,87	-	-	0.154	3,91	-	-	-	-	-	-	-	-	-	0.218	5,54	0.308	7,82		
1"	1.315	33,40	0.065	1,65	0.109	2,77	-	-	-	0.133	3,38	-	-	0.179	4,55	-	-	-	-	-	-	-	-	-	0.250	6,35	0.358	9,09		
1 1/4"	1.660	42,16	0.065	1,65	0.109	2,77	-	-	-	0.140	3,56	-	-	0.191	4,85	-	-	-	-	-	-	-	-	-	0.250	6,35	0.382	9,70		
1 1/2"	1.900	48,26	0.065	1,65	0.109	2,77	-	-	-	0.145	3,68	-	-	0.200	5,08	-	-	-	-	-	-	-	-	-	0.281	7,14	0.400	10,16		
2"	2.375	60,33	0.065	1,65	0.109	2,77	-	-	-	0.154	3,91	-	-	0.218	5,54	-	-	-	-	-	-	-	-	-	0.343	8,71	0.436	11,07		
2 1/2"	2.875	73,03	0.083	2,11	0.120	3,05	-	-	-	0.203	5,16	-	-	0.276	7,01	-	-	-	-	-	-	-	-	-	0.375	9,53	0.552	14,02		
3"	3.500	88,90	0.083	2,11	0.120	3,05	-	3,96	-	0.216	5,49	-	-	0.300	7,62	-	-	-	-	-	-	-	-	-	0.438	11,13	0.600	15,24		
3 1/2"	4.000	101,60	0.083	2,11	0.120	3,05	-	-	-	0.226	5,74	-	-	0.318	8,08	-	-	-	-	-	-	-	-	-	-	-	0.636	16,15		
4"	4.500	114,30	0.083	2,11	0.120	3,05	-	4,37	-	0.237	6,02	-	-	0.337	8,56	-	-	-	-	-	-	0.438	11,13	-	0.531	13,49	0.674	17,12		
5"	5.563	141,30	0.109	2,77	0.134	3,40	-	-	-	0.258	6,55	-	-	0.375	9,53	-	-	-	-	-	-	0.500	12,70	-	0.625	15,88	0.750	19,05		
6"	6.625	168,28	0.109	2,77	0.134	3,40	-	4,78	-	0.280	7,11	-	-	0.432	10,97	-	-	-	-	-	-	0.562	14,27	-	0.718	18,24	0.884	21,95		
8"	8.625	219,08	0.109	2,77	0.148	3,76	0.250	6,35	0.277	7,04	0.322	8,18	-	-	0.406	10,31	0.500	12,70	0.593	15,06	0.718	18,24	0.812	20,62	0.906	23,01	0.875	22,23		
10"	10.750	273,05	0.134	3,40	0.165	4,19	0.250	6,35	0.307	7,80	0.365	9,27	-	-	0.500	12,70	0.500	12,70	0.593	15,06	0.718	18,24	0.843	21,41	1.000	25,40	1.125	28,58	-	-
12"	12.750	323,85	0.165	4,19	0.180	4,57	0.250	6,35	0.330	8,38	0.375	9,53	0.406	10,31	0.562	14,27	0.500	12,70	0.687	17,45	0.843	21,41	1.000	25,40	1.125	28,58	1.312	33,32	-	-
14"	14.000	355,60	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.438	11,13	0.593	15,06	0.500	12,70	0.750	19,05	0.937	23,80	1.093	27,76	1.250	31,75	1.406	35,71	-	-
16"	16.000	406,40	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.500	12,70	0.656	16,66	0.500	12,70	0.843	21,41	1.031	26,19	1.218	30,94	1.438	36,53	1.593	40,46	-	-
18"	18.000	457,20	-	-	0.250	6,35	0.312	7,92	0.438	11,13	0.375	9,53	0.562	14,27	0.750	19,05	0.500	12,70	0.937	23,80	1.156	29,36	1.375	34,93	1.562	39,67	1.781	45,24	-	-
20"	20.000	508,00	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	0.593	15,06	0.812	20,62	0.500	12,70	1.031	26,19	1.281	32,54	1.500	38,10	1.750	44,45	1.968	49,99	-	-
22"	22.000	558,80	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	-	-	0.875	22,22	0.500	12,70	1.125	28,57	1.375	34,92	1.525	41,27	1.875	47,62	2.125	53,97	-	-
24"	24.000	609,60	-	-	0.250	6,35	0.375	9,53	0.562	14,27	0.375	9,53	0.687	17,45	0.968	24,59	0.500	12,70	1.218	30,94	1.531	38,89	1.812	46,02	2.062	52,37	2.343	59,51	-	-
26"	26.000	660,40	-	-	0.312	7,92	0.500	12,70	-	-	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
28"	28.000	711,20	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
30"	30.000	762,0	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
32"	32.000	812,80	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	0.688	17,47	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-

Identical to "Standard"

Identical to "Extra Strong"

**INFORMAZIONI GENERALI**  
**GENERAL INFORMATION**

I raccordi a saldare ASME B16.9 sono forniti in accordo alle seguenti norme:

*Intertubi's butt welding fittings are provided in according to the following standards:*

Norma di raccordo <i>Fitting standard</i>	Norma <i>Standard</i>	Descrizione <i>Description</i>	Grado di acciaio <i>Steel grade</i>	Tipologia di raccordi / <i>Fittings types</i>
ASME B16.9	ASTM/ASME A/SA 234	Raccordi per tubazioni in acciaio al carbonio o basso-legato per impiego in pressione a media-alta temperatura.  <i>Piping fittings of wrought carbon steel and alloy steel for moderate and high temperature service.</i>	Acciai al carbonio: WPB, WPC  Acciai legati WP1, WPS(CL.1,3), WP9(CL.1,3), WP11(CL.1,2,3), WP12(CL.1,2) WP22(CL.1,3), WP91	Curve/Elbows (SR, LR, R=3D) Riduzioni concentriche/eccentriche <i>Concentric and eccentric reducer</i> Tee con derivazione uguale e ridotta <i>Equal reducing tee</i> Fondi/Caps
	ASTM/ASME A/SA 420	Raccordi per tubazione in acciaio al carbonio o basso-legato per impiego in pressione a bassa temperatura.  <i>Piping fittings of wrought carbon steel and alloy steel for low-temperature service</i>	WPL6	--
MSS SP75	ASTM A 860	Raccordi a saldare di testa ad alto snervamento per il trasporto di fluidi combustibili.  <i>Wrought high-strength ferritic steel butt-welding fittings.</i>	WPHY42, WPHY52, WPHY60, WPHY65, WPHY70	--

I raccordi vengono forniti con estremità smussate secondo ASME B16.25.

*Fittings are supplied with beveled ends according to ASME B16.25.*

Le tabelle riportate in seguito permettono un confronto tra i differenti gradi di acciaio secondo la composizione chimica e le proprietà meccaniche:

Tables shown below allow a comparison between the different steel grades according to the chemical composition and mechanical properties:

Grado / Grade		Composizione / Composition %							
Grade WP	C	Mn	P	S	Si	Ni	Cr	Mo	Others
WPB <sup>B,C,D,E,F</sup>	0.30 max	0.29 - 1.06	0.050	0.058	0.10 min	0.40 max	0.40 max	0.15 max	Vanadium 0.08 max
WPC <sup>C,D,E,F</sup>	0.35 max	0.29 - 1.06	0.050	0.058	0.10 min	0.40 max	0.40 max	0.15 max	Vanadium 0.08 max
WP1	0.28 max	0.30 - 0.90	0.045	0.045	0.10 - 0.50	...	...	0.44 - 0.65	...
WP12 CL1, WP12 CL2	0.05 - 0.20	0.30 - 0.80	0.045	0.045	0.60 max	...	0.80 - 1.25	0.44 - 0.65	...
WP11 CL1	0.05 - 0.15	0.30 - 0.60	0.030	0.030	0.50 - 1.00	...	1.00 - 1.50	0.44 - 0.65	...
WP11 CL2, WP11 CL3	0.05 - 0.20	0.30 - 0.80	0.040	0.040	0.50 - 1.00	...	1.00 - 1.50	0.44 - 0.65	...
WP22 CL1, WP22 CL3	0.05 - 0.15	0.30 - 0.60	0.040	0.040	0.50 max	...	1.90 - 2.60	0.87 - 1.13	...
WP5 CL1, WP5 CL3	0.15 max	0.30 - 0.60	0.040	0.030	0.50 max	...	4.0 - 6.0	0.44 - 0.65	...
WP9 CL1	0.15 max	0.30 - 0.60	0.030	0.030	1.00 max	...	8.0 - 10.0	0.90 - 1.10	...
WP91	0.08 - 0.12	0.30 - 0.60	0.020	0.010	0.20 - 0.50	0.40 max	8.0 - 9.5	0.85 - 1.05	Vanadium 0.18-0.25
WPL6	0.30 max	0.50 - 1.35	0.035	0.040	0.15 - 0.40	0.40 max	0.30	0.12	Vanadium 0.08
WPHY	0.20 max	1.00 - 1.45	0.030	0.010	0.15 - 0.40	0.50 max	0.30	0.25	Vanadium 0.10

NOTA 1 - Tutti i requisiti sono al massimo se non diversamente indicato.

NOTA 2 - Dove i puntini di sospensione (...) appare in questa tabella, non vi è alcun obbligo.

NOTA 1 - All requirements are maximum unless otherwise indicated.

NOTA 2 - Where an ellipsis (...) appears in this table, there is no requirement.

<sup>A</sup> Quando raccordi sono di costruzione saldata, il simbolo di grado e la marcatura sopra indicato deve essere completata con la lettera "W".

<sup>B</sup> Raccordi prodotti da barra o piastra può avere carbonio max 0,35.

<sup>C</sup> Raccordi a base di forgiati può avere carbonio max 0,35 e 0,35 silicio max sempre minimo.

<sup>D</sup> Per ogni riduzione dello 0,01% al di sotto del massimo di carbonio specificato, con un incremento del 0,06% manganese al di sopra del massimo specificato sarà consentito, fino ad un massimo di 1,35%.

<sup>E</sup> La somma di rame, nichel, cromo, molibdeno e non supera 1,00%.

<sup>F</sup> La somma di cromo e molibdeno non supera 0,32%.

<sup>A</sup> When fittings are of welded construction, the grade and marking symbol shown above shall be supplemented by the letter "W".

<sup>B</sup> Fittings made from bar or plate may have 0.35 max carbon.

<sup>C</sup> Fittings made from forgings may have 0,35 max carbon and 0,35 max silicon with no minimum.

<sup>D</sup> For each reduction of 0,01% below the specified carbon maximum, an increase of 0,06% manganese above the specified maximum will be permitted, up to a maximum of 1,35%.

<sup>E</sup> The sum of Copper, Nickel, chromium, and Molybdenum shall not exceed 1,00%.

<sup>F</sup> The sum of Chromium and Molybdenum shall not exceed 0,32%.

GRADO E MARCATURA GRADE AND MARKING SYMBOL	WPB	WPC WP11 CL2 WP12 CL2	WP1	WP11 CL1 WP22 CL1 WP5 CL1 WP9 CL1	WPL6	WP11 CL3 WP22 CL3 WP5 CL3 WP9 CL3	WP91	WP12 CL1
Tensile strength, range ksi [MPa]	60 - 95 [415 - 655]	70 - 95 [485 - 655]	55 - 85 [380 - 550]	60 - 85 [415 - 585]	60 - 85 [415 - 585]	75 - 100 [520 - 690]	90 - 120 [620 - 840]	60 - 85 [415 - 585]
Yield strenght, min. Ksi [MPa] (0,2% offset or 0,5% estension-un- der-load)	35 [240]	40 [275]	30 [205]	30 [205]	35 [240]	45 [310]	60 [415]	32 [220]

	Elongation Requirements					
	Grades					
	All Grades except WPR, WP91 and WP911		WPR		WP91 WP911	
	Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse
Elongation:  Standard campione rotondo, o piccolo campione proporzionale, % min in 4D. Campione rettangolare per spessore della parete 5/16 in [7.94 mm] e oltre, e per tutte le taglie piccole testate nella sezione separata; % min in 2 pollici [50 mm]. <i>Standard round specimen, or small proportional specimen, min % in 4 D. Rectangular specimen for wall thickness 5/16 [7.94 mm] and over, and for all small sizes tested in full section; min % in 2 in. [50 mm].</i>	22	14	20	...	20	13
Campione rettangolare per spessore della parete inferiore a 5/16 [7.94 mm] % min in 2 pollici [50 mm] (1/2 in. campione [12.7 mm] larghezza). <i>Rectangular specimen for wall thickness less than 5/16 in. [7.94 mm]; min % in 2 in. [50 mm] (1/2 in. [12.7 mm] wide specimen).</i>	30	20 <sup>A</sup>	28	...	...	...
	B	B	B	...	...	...

<sup>A</sup> Raccordi WPB e WPC fabbricati dalla piastra devono avere un allungamento minimo del 17%

<sup>B</sup> Per ogni 1/32 pollici [0,79 mm] diminuzione dello spessore della parete al di sotto di 5/16 in [7,94 mm], una detrazione del 1,5% per il longitudinale e trasversale per il 1,0% dei valori indicati sopra è consentita. La seguente tabella fornisce il valore minimo per parete diversi spessori.

<sup>A</sup> WPB and WPC fittings manufactured from plate shall have a minimum elongation of 17%

<sup>B</sup> For each 1/32 in. [0,79 mm] decrease in wall thickness below 5/16 in. [7,94 mm], a deduction of 1,5% for longitudinal and 1,0% for transverse from the values shown above is permitted. The following table gives the minimum value for various wall thicknesses.

Wall Thickness		Grades				
		Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal
in.	[mm]					
5/16 (0,312)	7.94	30.0	20.0	30.0	16.5	20
0/32 (0,281)	7.14	28.5	19.0	28.5	15.5	19
1/4 (0,250)	6.35	27.0	18.0	27.0	14.5	18
7/32 (0,219)	5.56	25.5	...	...	...	17
3/16 (0,188)	4.76	24.0	...	...	...	16
5/32 (0,156)	3.97	22.5	...	...	...	15
1/8 (0,125)	3.17	21.0	...	...	...	14
3/32 (0,094)	2.38	19.5	...	...	...	13
1/10 (0,062)	1.59	18.0	...	...	...	12

Property	Grado / Grade					
	WPHY 42	WPHY 46	WPHY 52	WPHY 60	WPHY 65	WPHY 70
Yield strength min <sup>^</sup> 0.2% offset, ksi [MPa]	42 [290] 60 [415]	46 [315] 63 [435]	52 [360] 66 [455]	60 [415] 75 [515]	65 [450] 77 [530]	70 [485] 80 [550]
Tensile strength, ksi [MPa]	-85 [585] 25 32 B	-88 [605] 25 32 B	-91 [625] 25 32 B	-100 [690] 20 28 B	-102 [705] 20 28 B	-105 [725] 20 28 B
Toughness: C.energy absorption <sup>°</sup> , measured at -50°F (-46°C)						



**LE TOLLERANZE ASME B16.9 SONO RIEPILOGATE NELLE SEGUENTI TABELLE:  
TOLERANCES ASME B16.9 ARE SUMMARIZED IN THE FOLLOWING TABLES:**

Tutti i raccordi [Note (1) e (2)] All Fittings [Notes (1) and (2)]				Dimensioni dal centro all'estremità Center-to-End dimensions				Spessore Thickness
Diametro nominale del tubo (NPS) Nominal Pipe Size (NPS)	DN	Diametro esterno allo smusso Outside Diameter at Bevel D*1	Diametro interno all'estremità Inside Diameter at End*2	90° e 45° curve long e short radius e tee 90-deg and 45-deg long and short radius Elbows and tees A, B, C, M	Curve raggio 3D 3D Radius Elbows A, B	Lunghezza generale delle riduzioni e delle cartelle Overall Length of reducers and lap joint stub ends F, H	Lunghezza generale dei fondi Overall length of caps E	Alle estremità At the ends
1/2 to 2 1/2	15-65	+1.6, -0.8	0.8	2	3	2	3	-12,5%
3 to 3 1/2	80-90	1.6	1.6	2	3	2	3	
4	100	1.6	1.6	2	3	2	3	
5 to 8	125-200	+2.4, -1.6	1.6	2	3	2	6	
10 to 18	250-450	+4.0, -3.2	3.2	2	3	2	6	
20 to 24	500-600	+6.4, -4.8	4.8	2	3	2	6	
26 to 30	650-750	+6.4, -4.8	4.8	3	6	5	10	
32 to 48	800-1200	+6.4, -4.8	4.8	5	6	5	10	

NOTE GENERALI / GENERAL NOTES

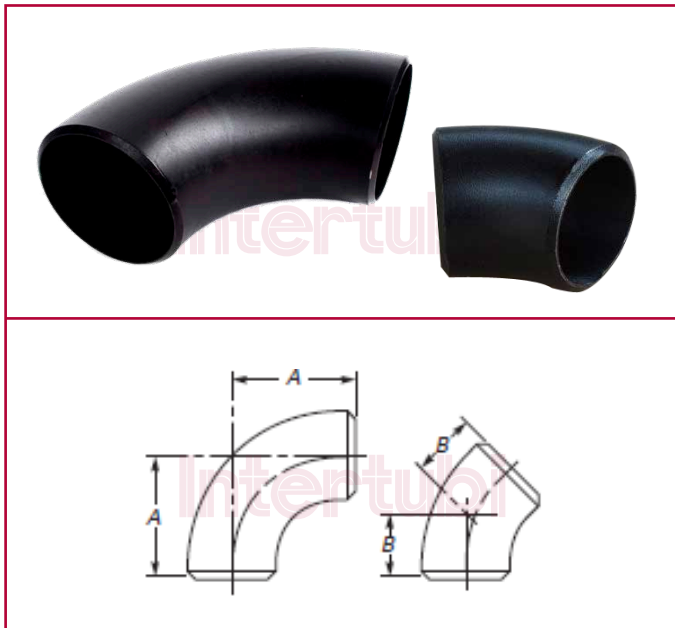
- (a) Tutte le dimensioni sono in millimetri / (a) All dimensions are in millimeters
- (b) Le tolleranze sono uguali più o meno eccetto le note / (b) Tolerances are equal plus and minus except as noted

NOTES

- (1) Il diametro interno e nominale della parete dello spessore alle estremità deve essere specificato dall'acquirente  
(1) The inside diameter and the nominal wall thickness at ends are to be specified by the purchaser
- (2) Il minimo spessore della parete del 87,5% è applicato a meno che l'acquirente specifichi una differente tolleranza della parete dello spessore  
(2) A minimum wall thickness of 87.5% is applied unless the purchaser specifies a different wall thickness tolerance
- (3) L'ovalità è la somma dei valori assoluti delle tolleranze minime e massime  
(3) Out-of-round is the sum of absolute values of plus and minus tolerances
- (4) Questa tolleranza non può essere applicata ad aree localizzate dei raccordi formati dove è necessario un aumento per soddisfare i requisiti di progetto  
(4) This tolerance may not be applied in localized areas of fittings formed where increased wall thickness is required to meet design requirements
- (5) Se non diversamente specificato dall'acquirente queste tolleranze applicate al diametro interno nominale, corrispondono alla differenza tra il diametro esterno nominale e il doppio spessore della parete nominale  
(5) Unless otherwise specified by the purchaser, these tolerances applied to the nominal inside diameter, correspond to the difference between the nominal outside diameter and twice the nominal wall thickness

\*1 (NOTES 3 AND 4)

\*2 (NOTES 3 AND 5)


**CURVE 90°**
**RAGGIO=1,5 D DIMA 3**

SENZA SALDATURA ASME B16.9

**LONG RADIUS**
**RADIUS = 1.5 DIMA 3**

SEAMLESS ELBOWS

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	CURVE / ELBOWS		PESO TEORICO THEORETICAL WEIGHT
			90° A	45° B	
1/2"	21,3 x 2,77	Std	38*	16	0,08
	21,3 x 3,73	Xs			0,10
	21,3 x 4,75	160			0,12
	21,3 x 7,47	XXs			0,15
3/4"	26,7 x 2,87	Std	38*	19	0,09
	26,7 x 3,91	Xs			0,11
	26,7 x 5,54	160			0,12
	26,7 x 7,82	XXs			0,17
1"	33,4 x 3,38	Std	38*	22	0,15
	33,4 x 4,55	Xs			0,20
	33,4 x 6,35	160			0,26
	33,4 x 9,09	XXs			0,33
1 1/4"	42,4 x 3,56	Std	48	25	0,26
	42,4 x 4,85	Xs			0,34
1 1/2"	48,3 x 3,68	Std	57	29	0,37
	48,3 x 5,08	Xs			0,49
	48,3 x 7,14	160			0,65
	48,3 x 10,16	XXs			0,86
2"	60,3 x 3,91	Std	76	35	0,65
	60,3 x 5,54	Xs			0,90
	60,3 x 8,71	160			1,33
	60,3 x 11,07	XXs			1,61
2 1/2"	73,1 x 5,16	Std	95	44	1,29
	73,1 x 7,01	Xs			1,71
	73,1 x 9,53	160			2,23
	73,1 x 14,02	XXs			3,06

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	CURVE / ELBOWS		PESO TEORICO THEORETICAL WEIGHT
			90° A	45° B	
3"	88,9 x 3,96	20	114	51	1,50
	88,9 x 5,49	Std			2,03
	88,9 x 7,62	Xs			2,74
	88,9 x 11,13	160			3,83
	88,9 x 15,24	XXs			4,97
3 1/2"	101,6 x 5,74	Std	133	57	2,85
	101,6 x 8,08	Xs			3,91
4"	114,3 x 4,37	20	152	64	2,92
	114,3 x 6,02	Std			3,85
	114,3 x 8,56	Xs			5,35
	114,3 x 11,13	120			6,78
	114,3 x 13,49	160			8,03
	114,3 x 17,12	XXs			9,82
5"	141,3 x 6,55	Std	190	79	6,52
	141,3 x 9,53	Xs			9,26
	141,3 x 12,70	120			12,00
	141,3 x 15,88	160			14,70
	141,3 x 19,05	XXs			17,20
6"	168,3 x 4,76	20	229	95	6,50
	168,3 x 7,11	Std			10,20
	168,3 x 10,97	Xs			15,30
	168,3 x 14,27	120			19,50
	168,3 x 18,24	160			24,30
	168,3 x 21,95	XXs			28,50

\* SU RICHIESTA 28 / ON REQUEST 28



D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	CURVE / ELBOWS		PESO TEORICO THEORETICAL WEIGHT
			90° A	45° B	
8"	219,1 x 6,35	20	305	127	16,00
	219,1 x 7,04	30			17,60
	219,1 x 8,18	Std			20,40
	219,1 x 10,31	60			25,40
	219,1 x 12,70	Xs			30,90
	219,1 x **15,06	100			** 43,30
	219,1 x 18,24	120			43,30
	219,1 x **20,62	140			** 53,30
	219,1 x **22,23	XXs			** 53,30
	219,1 x 23,01	160			53,30
10"	273,0 x 6,35	20	381	159	24,99
	273,0 x 7,80	30			30,53
	273,0 x 9,27	Std			36,08
	273,0 x 12,70	Xs			48,79
	273,0 x 15,06	80			57,44
	273,0 x **18,24	100			**79,60
	273,0 x 21,41	120			79,60
	273,0 x **25,40	140/ XXs			**103,10
	273,0 x 28,58	160			103,10
	12"	323,9 x 6,35			20
323,9 x 8,38		30	46,80		
323,9 x 9,53		Std	53,00		
323,9 x 10,31		40	57,30		
323,9 x 12,70		Xs	70,00		
323,9 x 14,27		60	78,20		
323,9 x 17,45		80	94,80		
323,9 x **21,41		100	**134,00		
323,9 x 25,40		120/ XXs	134,00		
323,9 x **28,58		140	**171,00		
14"	355,6 x 6,35	10	533	222	45,80
	355,6 x 7,92	20			56,90
	355,6 x 9,53	Std			68,10
	355,6 x **11,13	40			**90,00
	355,6 x 12,70	Xs			90,00
14"	355,6 x 19,05	80	533	222	132,00
	355,6 x **23,80	100			**187,91
	355,6 x 27,76	120			187,91
	355,6 x **31,75	140			**235,86
	355,6 x 35,71	160			235,86

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	CURVE / ELBOWS		PESO TEORICO THEORETICAL WEIGHT
			90° A	45° B	
16"	406,4 x **6,35	10	610	254	74,58
	406,4 x 7,92	20			74,58
	406,4 x 9,53	Std			89,20
	406,4 x 12,70	Xs			118,00
	406,4 x 16,66	60			153,00
	406,4 x 21,41	80			195,00
	406,4 x **26,19	100			274,51
	406,4 x 30,94	120			274,51
	406,4 x **36,53	140			350,00
	406,4 x 40,46	160			350,00
18"	457,0 x **6,35	10	686	286	** 113,00
	457,0 x **7,92	20			** 113,00
	457,0 x 9,53	Std			113,00
	457,0 x **11,13	30			** 150,00
	457,0 x 12,70	Xs			150,00
	457,0 x 14,27	40			168,00
	457,0 x 19,05	60			197,15
	457,0 x 23,80	80			243,63
	508,0 x **6,35	10			** 140,00
	508,0 x 9,53	Std			140,00
20"	508,0 x 12,70	Xs	762	318	186,00
	508,0 x 15,06	40			219,00
	508,0 x **20,62	60			** 372,00
	508,0 x 26,19	80			372,00
	558,8 x 9,53	Std			170,00
22"	558,8 x 12,70	Xs	838	343	225,00
	609,6 x **6,35	10			** 202,00
24"	609,6 x 9,53	Std	914	381	202,00
	609,6 x 12,70	Xs			268,00
	609,6 x **14,27	30			** 366,00
	609,6 x 17,48	40			366,00
	609,6 x 24,59	60			634,00
	609,6 x 30,94	80			634,00
	711,0 x 7,92	10			230,00
28"	711,0 x 9,53	Std	1067	438	276,00
	711,0 x 12,70	Xs			366,00
	762,0 x 9,53	Std			1143
762,0 x 12,70	Xs	421,00			
32"	812,8 x 9,53	Std	1219	502	361,00
	812,8 x 12,70	Xs			472,00

\*\* TAPERED FROM HIGHER SCHEDULE


**CURVE 90°**
**RAGGIO= 1 D DIMA 2**

SENZA SALDATURA ASME B16.9

**SHORT RADIUS**
**RADIUS= 1 DIMA 2**

SEAMLESS ELBOWS ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO radius	H	PESO TEORICO THEORICAL WEIGHT KG
1 1/4"	42,4 x 3,56	Std	32	52	0,17
1 1/2"	48,3 x 3,68	Std	38	62	0,24
2"	60,3 x 3,91	Std	51	81	0,44
	60,3 x 5,54	Xs			0,60
	60,3 x 8,71	160			0,89
2 1/2"	73,1 x 5,16	Std	64	100	0,86
3"	88,9 x 5,49	Std	76	121	1,35
	88,9 x 7,62	Xs			1,83
	88,9 x 11,13	160			2,55
4"	114,3 x 6,02	Std	102	159	2,57
	114,3 x 8,56	Xs			3,55
	114,3 x 11,13	120			4,54
	114,3 x 13,49	160			5,37
5"	141,3 x 6,55	Std	127	197	4,34
	141,3 x 9,53	Xs			6,17
6"	168,3 x 7,11	Std	152	237	4,77
	168,3 x 10,97	Xs			10,20
	168,3 x 14,27	120			12,95
	168,3 x 18,24	160			16,12

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT KG
8"	219,1 x 6,35	20	203	313	10,60
	219,1 x 7,04	30			11,70
	219,1 x 8,18	Std			13,60
	219,1 x 12,70	Xs			20,60
10"	273,0 x 6,35	20	254	391	16,70
	273,0 x 7,80	30			20,30
	273,0 x 9,27	Std			24,10
12"	323,9 x 12,70	Xs	305	467	32,50
	323,9 x 6,35	20			23,80
	323,9 x 8,38	30			31,20
	323,9 x 9,53	Std			35,30
14"	323,9 x 10,31	40	356	533	38,20
	323,9 x 12,70	Xs			46,70
	355,6 x 6,35	10			30,60
	355,6 x 7,92	20			37,90
16"	355,6 x 9,53	Std	406	610	45,40
	355,6 x 12,70	Xs			80,00
	406,4 x 6,35	10			40,00
	406,4 x 7,92	20			50,00
24"	406,4 x 9,53	Std	610	914	59,50
	609,6 x **6,35	10			90,50
	609,6 x 9,53	Std			135,00
	609,6 x 12,70	Xs			179,00

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

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**CURVA SENZA SALDATURA**

**R=2,5 D DIMA 5**

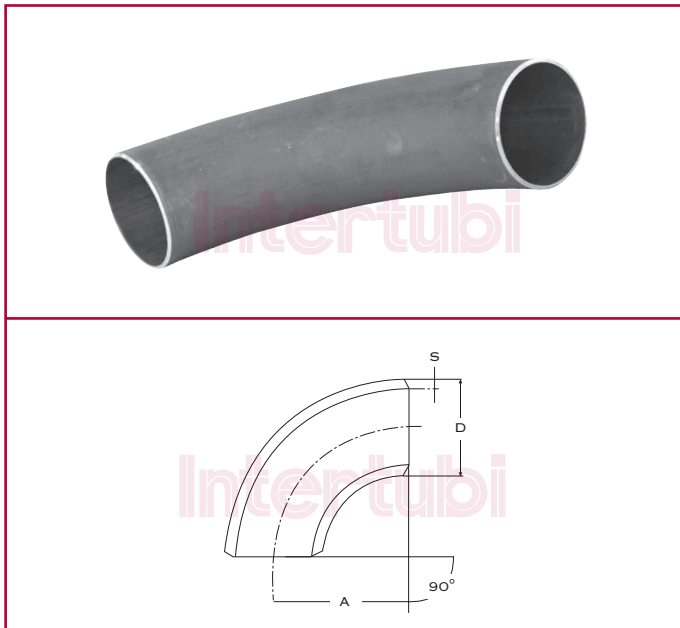
ASME B16.9

**R=2.5 D DIMA 5  
SEAMLESS ELBOWS**

ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORETICAL WEIGHT KG
1"	33,4 x 3,38	Std	72,5	89	0,28
	33,4 x 4,55	Xs			0,37
1 1/4"	42,4 x 3,56	Std	92,5	114	0,50
	42,4 x 4,85	Xs			0,65
1 1/2"	48,3 x 3,68	Std	107,5	132	0,68
	48,3 x 5,08	Xs			0,91
2"	60,3 x 3,91	Std	135	165	1,15
	60,3 x 5,54	Xs			1,59
3"	88,9 x 3,96	20	205	250	2,67
	88,9 x 5,49	Std			3,64
	88,9 x 7,62	Xs			4,92
3 1/2"	101,6 x 5,74	Std	237	288	5,05
	101,6 x 8,08	Xs			6,94
4"	114,3 x 4,37	20	270	327	5,02
	114,3 x 6,02	Std			6,82
	114,3 x 8,56	Xs			9,47
6"	168,3 x 4,76	20	390	474	11,81
	168,3 x 7,11	Std			17,31
	168,3 x 10,97	Xs			26,07

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORETICAL WEIGHT KG
8"	219,1 x 6,35	20	510	619	26,69
	219,1 x 7,04	30			29,49
	219,1 x 8,18	Std			34,09
	219,1 x 10,31	60			42,53
	219,1 x 12,70	Xs			51,79
10"	273,0 x 6,35	20	650	786	42,64
	273,0 x 7,80	30			52,09
	273,0 x 9,27	Std			61,56
	273,0 x 12,70	Xs			83,24
12"	323,9 x 6,35	20	775	937	60,54
	323,9 x 8,38	30			79,38
	323,9 x 9,53	Std			89,94
	323,9 x 10,31	40			97,06
	323,9 x 12,70	Xs			118,65
14"	355,6 x 6,35	10	850	1028	73,02
	355,6 x 7,92	20			90,67
	355,6 x 9,53	Std			108,60
	355,6 x 11,13	40			126,24
	355,6 x 12,70	Xs			143,39
16"	406,4 x 6,35	10	406	610	95,46
	406,4 x 7,92	20			118,59
	406,4 x 9,53	Std			142,12
	406,4 x 12,70	Xs			187,88


**CURVA SENZA SALDATURA**
**RAGGIO= 3 D DIMA 6**

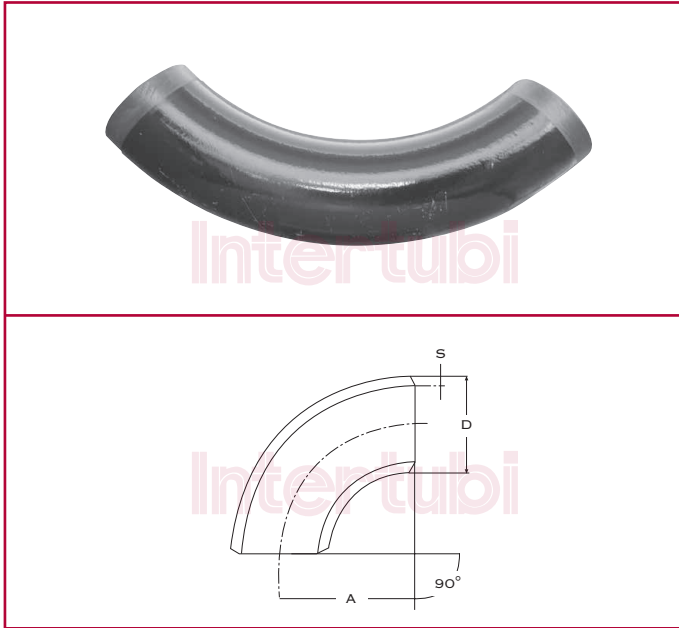
ASME B16.9

**SEAMLESS ELBOWS**
**RADIUS= 3 D DIMA 6**

ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT KG
2"	60,3 x 3,91	Std	152	182	1,30
	60,3 x 5,54	Xs			1,79
3"	88,9 x 3,96	20	229	278	2,98
	88,9 x 5,49	Std			4,06
3"	88,9 x 7,62	Xs	229	278	5,49
	114,3 x 4,37	20			5,68
4"	114,3 x 6,02	Std	305	352	7,70
	114,3 x 8,56	Xs			10,69
6"	168,3 x 4,78	20	457	541	13,84
	168,3 x 7,11	Std			20,29
6"	168,3 x 10,97	Xs	457	541	30,55
	219,1 x 6,35	20			31,92
8"	219,1 x 7,04	30	610	720	35,28
	219,1 x 8,18	Std			40,77
	219,1 x 10,31	60			50,87
	219,1 x 12,70	Xs			61,94

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT KG		
10"	273,0 x 6,35	20	762	898	49,98		
	273,0 x 7,80	30			61,06		
	273,0 x 9,27	Std			72,17		
	273,0 x 12,70	Xs			97,58		
12"	323,9 x 6,35	20	914	1078	71,40		
	323,9 x 8,38	30			93,62		
	323,9 x 9,53	Std			106,08		
	323,9 x 10,31	40			114,47		
12"	323,9 x 12,70	Xs	914	1078	139,94		
	355,6 x 6,35	10			1067	1245	91,67
	355,6 x 7,92	20					113,82
	355,6 x 9,53	Std					136,32
355,6 x 11,13	40	158,47					
14"	355,6 x 12,70	Xs	1067	1245	180,00		
	406,4 x 6,35	10			1219	1422	119,98
	406,4 x 7,92	20					149,03
	406,4 x 9,53	Std					178,60
406,4 x 12,70	Xs	236,11					



**CURVA SENZA SALDATURA**

**RAGGIO= 5 D DIMA 10**

ASME B16.9

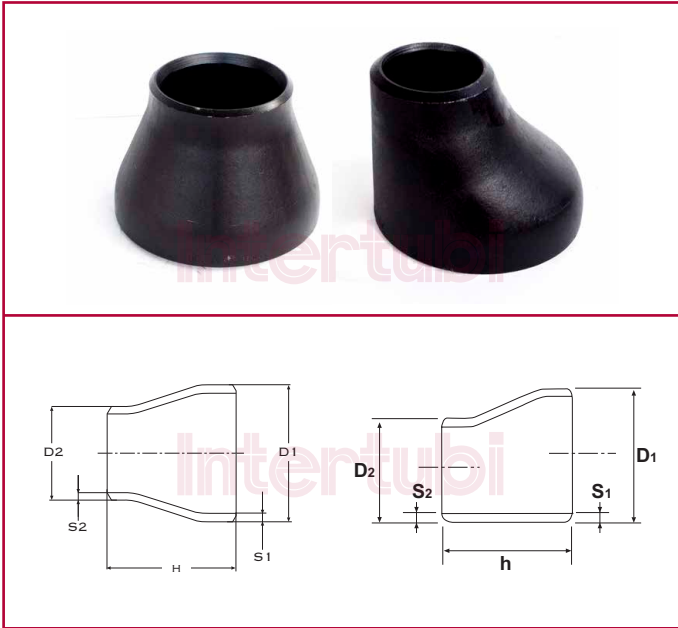
**SEAMLESS ELBOWS**

**RADIUS= 5 D DIMA 10**

ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT KG
2"	60,3 x 3,91	Std	254	284	2,17
	60,3 x 5,54	Xs			2,99
3"	88,9 x 3,96	20	381	426	4,96
	88,9 x 5,49	Std			6,76
	88,9 x 7,62	Xs			9,14
4"	114,3 x 4,37	20	508	565	9,45
	114,3 x 6,02	Std			12,83
	114,3 x 8,56	Xs			17,81
6"	168,3 x 4,78	20	762	846	23,07
	168,3 x 7,11	Std			33,83
	168,3 x 10,97	Xs			50,95
8"	219,1 x 6,35	20	1016	1126	53,17
	219,1 x 7,04	30			58,76
	219,1 x 8,18	Std			67,91
	219,1 x 10,31	60			84,72
	219,1 x 12,70	Xs			103,17
10"	273,0 x 6,35	20	1270	1407	83,30
	273,0 x 7,80	30			101,77
	273,0 x 9,27	Std			120,28
	273,0 x 12,70	Xs			162,64

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT KG
12"	323,9 x 6,35	20	1524	1688	117,04
	323,9 x 8,38	30			156,10
	323,9 x 9,53	Std			176,87
	323,9 x 10,31	40			190,87
	323,9 x 12,70	Xs			233,33
14"	355,6 x 6,35	10	1778	1956	152,75
	355,6 x 7,92	20			189,66
	355,6 x 9,53	Std			227,16
	355,6 x 11,13	40			264,07
	355,6 x 12,70	Xs			299,95
16"	406,4 x 6,35	10	2032	2235	199,96
	406,4 x 7,92	20			248,42
	406,4 x 9,53	Std			297,72
	406,4 x 12,70	Xs			393,58


**RIDUZIONI CONCENTRICHE  
ED ECCENTRICHE SENZA SALDATURA**  
ASME B16.9

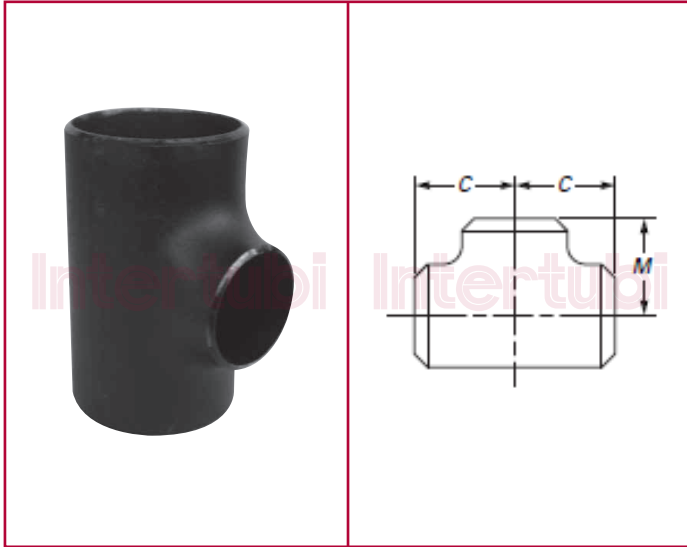
**SEAMLESS CONCENTRIC  
AND ECCENTRIC REDUCERS**  
ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP. MM THCK X THCK MM	SCH	H	PESO TEORICO THEORETICAL WEIGHT KG	
1" x 3/4"	33,40 x 26,70	3,38 x 2,87	Std	51	0,14	
	33,40 x 26,70	4,55 x 3,91	Xs		0,17	
1 1/4" x 3/4"	42,60 x 26,70	3,56 x 2,87	Std		0,20	
	42,60 x 26,70	4,85 x 3,91	Xs		0,23	
1 1/4" x 1"	42,60 x 33,40	3,56 x 3,38	Std		0,20	
	42,60 x 33,40	4,85 x 4,55	Xs		0,24	
1 1/2" x 3/4"	48,30 x 26,70	3,68 x 2,87	Std		64	0,22
	48,30 x 26,70	5,08 x 3,91	Xs			0,30
1 1/2" x 1"	48,30 x 33,40	3,68 x 3,38	Std			0,24
	48,30 x 33,40	5,08 x 4,55	Xs			0,31
1 1/2" x 1 1/4"	48,30 x 42,40	3,68 x 3,56	Std	0,26		
	48,30 x 42,40	5,08 x 4,85	Xs	0,33		
2" x 1"	60,30 x 33,40	3,91 x 3,38	Std	76		0,37
	60,30 x 33,40	5,54 x 4,55	Xs			0,45
2" x 1 1/4"	60,30 x 42,40	3,91 x 3,56	Std			0,39
	60,30 x 42,40	5,54 x 4,85	Xs			0,53
2" x 1 1/2"	60,30 x 48,30	3,91 x 3,68	Std		0,41	
	60,30 x 48,30	5,54 x 5,08	Xs		0,54	
2 1/2" x 1 1/4"	73,10 x 42,40	5,16 x 3,56	Std		0,39	
	73,10 x 42,40	7,01 x 4,85	Xs		0,53	

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP. MM THCK X THCK MM	SCH	H	PESO TEORICO THEORETICAL WEIGHT KG
2 1/2" x 1 1/2"	73,10 x 48,30	5,16 x 3,66	Std	89	0,68
	73,10 x 48,30	7,01 x 5,08	Xs		0,86
2 1/2" x 2"	73,10 x 60,30	5,16 x 3,91	Std		0,73
	73,10 x 60,30	7,01 x 5,54	Xs		0,94
3" x 1"	88,90 x 33,40	5,49 x 3,38	Std		0,86
	88,90 x 33,40	7,62 x 4,55	Xs		0,99
3" x 1 1/2"	88,90 x 48,30	5,49 x 3,68	Std		0,86
	88,90 x 48,30	7,62 x 5,08	Xs		0,99
3" x 2"	88,90 x 60,30	5,49 x 3,91	Std		0,91
	88,90 x 60,30	7,62 x 5,54	Xs		1,18
3" x 2 1/2"	88,90 x 73,10	5,49 x 5,16	Std	89	0,98
	88,90 x 73,10	7,62 x 7,01	Xs		1,29
4" x 2"	114,30 x 60,30	6,02 x 3,91	Std	102	1,44
	114,30 x 60,30	8,56 x 5,54	Xs		1,78
4" x 2 1/2"	114,30 x 73,10	6,02 x 5,16	Std	102	1,62
	114,30 x 73,10	8,56 x 7,01	Xs		1,90
4" x 3"	114,30 x 88,90	6,02 x 5,49	Std	102	1,59
	114,30 x 88,90	8,56 x 7,62	Xs		2,13

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP. MM THCK X THCK MM	SCH	H	PESO TEORICO THEORETICAL WEIGHT KG
5" x 3"	141,30 x 88,90	6,55 x 5,49	Std	127	2,60
	141,30 x 88,90	9,53 x 7,62	Xs		3,55
5" x 4"	141,30 x 114,30	6,55 x 6,02	Std		2,72
	141,30 x 114,30	9,53 x 8,56	Xs		3,78
6" x 3"	168,30 x 88,90	7,11 x 5,49	Std	140	3,63
	168,30 x 88,90	10,97 x 7,62	Xs		5,04
6" x 4"	168,30 x 114,30	7,11 x 6,02	Std		3,72
	168,30 x 114,30	10,97 x 8,56	Xs		5,45
6" x 5"	168,30 x 141,30	7,11 x 6,55	Std		3,93
	168,30 x 141,30	10,97 x 9,53	Xs		5,72
8" x 4"	219,10 x 114,30	8,18 x 6,02	Std	152	5,95
	219,10 x 114,30	12,70 x 8,56	Xs		8,44
8" x 5"	219,10 x 141,30	8,18 x 6,55	Std		4,08
	219,10 x 141,30	12,70 x 9,53	Xs		8,88
8" x 6"	219,10 x 168,30	8,18 x 7,11	Std		6,31
	219,10 x 168,30	12,70 x 10,97	Xs		9,26
10" x 5"	273,00 x 141,30	9,27 x 6,55	Std	178	9,90
	273,00 x 141,30	12,70 x 9,53	Xs		13,00
10" x 6"	273,00 x 168,30	9,27 x 7,11	Std		10,10
	273,00 x 168,30	12,70 x 12,97	Xs		13,50
10" x 8"	273,00 x 219,10	9,27 x 8,18	Std	203	10,50
	273,00 x 219,10	12,70 x 12,70	Xs		14,20
12" x 6"	323,90 x 168,30	9,53 x 7,11	Std		14,10
	323,90 x 168,30	12,70 x 10,97	Xs		18,40
12" x 8"	323,90 x 219,10	9,53 x 8,18	Std		14,60
	323,90 x 219,10	12,70 x 12,70	Xs		17,00
12" x 10"	323,90 x 273,00	9,53 x 9,27	Std	15,20	
	323,90 x 273,00	12,70 x 12,70	Xs	19,80	
14" x 8"	355,60 x 219,10	9,53 x 8,18	Std	330	26,00
	355,60 x 219,10	12,70 x 12,70	Xs		34,90
14" x 10"	355,60 x 273,00	9,53 x 9,27	Std		27,40
	355,60 x 273,00	12,70 x 12,70	Xs		36,10
14" x 12"	355,60 x 323,90	9,53 x 9,53	Std		28,80
	355,60 x 323,90	12,70 x 12,70	Xs		37,70

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP. MM THCK X THCK MM	SCH	H	PESO TEORICO THEORETICAL WEIGHT KG
16" x 10"	406,40 x 273,00	9,53 x 9,27	Std	356	33,10
	406,40 x 273,00	12,70 x 12,70	Xs		43,70
16" x 12"	406,40 x 323,90	9,53 x 9,53	Std		34,30
	406,40 x 323,90	12,70 x 12,70	Xs		45,00
16" x 14"	406,40 x 355,60	9,53 x 9,53	Std		35,20
	406,40 x 355,60	12,70 x 12,70	Xs		46,30
18" x 12"	457,00 x 323,90	9,53 x 9,53	Std	381	40,50
	457,00 x 323,90	12,70 x 12,70	Xs		53,60
18" x 14"	457,00 x 355,60	9,53 x 9,53	Std		41,30
	457,00 x 355,60	12,70 x 12,70	Xs		54,50
18" x 16"	457,00 x 406,40	9,53 x 9,53	Std		42,70
	457,00 x 406,40	12,70 x 12,70	Xs		55,80
20" x 12"	508,00 x 323,90	9,53 x 9,53	Std	508	60,80
	508,00 x 323,90	12,70 x 12,70	Xs		79,90
20" x 14"	508,00 x 355,60	9,53 x 9,53	Std		61,30
	508,00 x 355,60	12,70 x 12,70	Xs		81,30
20" x 16"	508,00 x 406,40	9,53 x 9,53	Std		62,60
	508,00 x 406,40	12,70 x 12,70	Xs		82,60
20" x 18"	508,00 x 457,00	9,53 x 9,53	Std	64,50	
	508,00 x 457,00	12,70 x 12,70	Xs	84,40	
24" x 14"	609,60 x 355,60	9,53 x 9,53	Std	508	72,60
	609,60 x 355,60	12,70 x 12,70	Xs		95,80
24" x 16"	609,60 x 406,40	9,53 x 9,53	Std		72,60
	609,60 x 406,40	12,70 x 12,70	Xs		95,80
24" x 18"	609,60 x 457,00	9,53 x 9,53	Std		74,00
	609,60 x 457,00	12,70 x 12,70	Xs		97,60
24" x 20"	609,60 x 508,00	9,53 x 9,53	Std	75,80	
	609,60 x 508,00	12,70 x 12,70	Xs	99,90	


**TEE UGUALI SENZA SALDATURA**

ASME B16.9

**SEAMLESS EQUAL TEES**

ASME B16.9

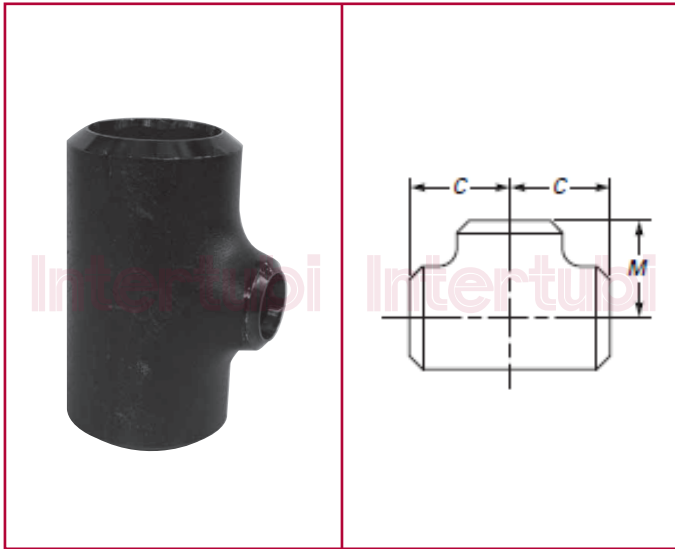
D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	$\frac{C}{M}$	C+C	PESO TEORICO THEORETICAL WEIGHT KG
1/2"	21,3 x 2,77	Std	25	50	0,12
	21,3 x 3,73	Xs			0,13
3/4"	26,7 x 2,87	Std	29	58	0,16
	26,7 x 3,91	Xs			0,20
1"	33,4 x 3,38	Std	38	76	0,30
	33,4 x 4,55	Xs			0,38
	33,4 x 6,35	160			0,42
1 1/4"	42,4 x 3,56	Std	48	96	0,54
	42,4 x 4,58	Xs			0,71
	42,4 x 6,35	160			0,90
1 1/2"	48,3 x 3,68	Std	57	114	0,75
	48,3 x 5,08	Xs			1,02
	48,3 x 7,14	160			1,61
2"	60,3 x 3,91	Std	76	106	0,65
	60,3 x 5,54	Xs			0,90
	60,3 x 8,71	160			1,33
	60,3 x 11,07	XXs			1,61
2 1/2"	73,1 x 5,16	Std	76	152	2,07
	73,1 x 7,01	Xs			2,78
	73,1 x 9,53	160			3,63
3"	88,9 x 5,49	Std	86	172	3,05
	88,9 x 7,62	Xs			3,75
	88,9 x 11,13	160			6,19
4"	114,3 x 6,02	Std	105	210	5,02
	114,3 x 8,56	Xs			6,67
	114,3 x 11,13	120			8,10
	114,3 x 13,49	160			11,80
5"	141,3 x 6,55	Std	124	248	7,72
	141,3 x 9,53	Xs			10,51
	141,3 x 12,70	120			15,75
	141,3 x 15,88	160			19,90

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	$\frac{C}{M}$	C+C	PESO TEORICO THEORETICAL WEIGHT KG
6"	168,3 x 7,11	Std	143	286	11,51
	168,3 x 10,97	Xs			17,21
	168,3 x 14,27	120			21,60
	168,3 x 18,24	160			31,10
8"	219,1 x 6,35	20	178	356	20,70
	219,1 x 7,04	30			22,14
	219,1 x 8,18	Std			29,45
	219,1 x 12,70	Xs			29,48
	219,1 x 18,24	120			44,55
10"	219,1 x 23,01	160	216	432	63,50
	273,0 x 6,35	20			31,23
	273,0 x 7,80	30			36,00
	273,0 x 9,27	Std			33,86
	273,0 x 12,70	Xs			44,15
	273,0 x 15,06	80			60,75
12"	273,0 x 21,41	120	254	508	83,70
	273,0 x 28,58	160			118,00
	323,9 x 6,35	20			39,06
	323,9 x 8,38	30			50,94
	323,9 x 9,53	Std			55,00
	323,9 x 10,31	40			63,45
	323,9 x 12,70	Xs			78,70
14"	323,9 x 14,27	60	279	558	85,50
	323,9 x 17,45	80			103,50
	323,9 x 22,23	120			135,00
	323,9 x 33,32	160			155,00
	355,6 x 7,92	20			75,60
	355,6 x 9,53	Std			72,60
	355,6 x 12,70	Xs			96,70
16"	406,4 x 7,92	20	305	610	90,00
	406,4 x 9,53	Std			90,30
	406,4 x 12,70	Xs			120,00
18"	457,4 x 9,53	Std	343	686	131,00
	457,4 x 12,70	Xs			139,00
20"	508,0 x 9,53	Std	381	762	151,20
	508,0 x 12,70	Xs			220,50
24"	609,6 x 9,53	Std	432	864	216,00
	609,6 x 12,70	Xs			315,00

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**TEE RIDOTTI SENZA SALDATURA**

ASME B16.9

**SEAMLESS REDUCING TEES**

ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP MM THCK X THCK MM	SCH	C	M	PESO TEORICO THEORETICAL WEIGHT KG
3/4" x 1/2"	26,70 x 21,30	2,87 x 2,77	Std	29	29	0,16
	26,70 x 21,30	3,91 x 3,73	Xs			0,20
1" x 1/2"	33,40 x 21,30	3,38 x 2,77	Std	38	38	0,30
	33,40 x 21,30	4,55 x 3,73	Xs			0,37
1" x 3/4"	33,40 x 26,70	3,38 x 2,87	Std	38	38	0,30
	33,40 x 26,70	4,55 x 3,91	Xs			0,38
1 1/4" x 1/2"	42,40 x 21,30	3,56 x 2,77	Std	48	48	0,54
	42,40 x 21,30	4,85 x 3,73	Xs			0,68
1 1/4" x 3/4"	42,60 x 26,70	3,56 x 2,87	Std	48	48	0,54
	42,60 x 26,70	4,85 x 3,91	Xs			0,68
1 1/4" x 1"	42,60 x 33,410	3,56 x 3,38	Std	48	48	0,54
	42,60 x 33,410	4,85 x 4,55	Xs			0,69
1 1/2" x 3/4"	48,30 x 26,70	3,68 x 2,87	Std	57	57	0,77
	48,30 x 26,70	5,08 x 3,91	Xs			0,98
1 1/2" x 1"	48,30 x 33,40	3,68 x 3,38	Std	57	57	0,77
	48,30 x 33,40	5,08 x 4,55	Xs			1,02
1 1/2" x 1 1/4"	48,30 x 42,40	3,68 x 3,56	Std	57	57	0,77
	48,30 x 42,40	5,08 x 4,85	Xs			1,02
2" x 1"	60,30 x 33,40	3,91 x 3,38	Std	64	51	0,98
	60,30 x 33,40	5,54 x 4,55	Xs			1,32
2" x 1 1/4"	60,30 x 42,40	3,91 x 3,56	Std	64	57	1,04
	60,30 x 42,40	5,54 x 4,85	Xs			1,44
2" x 1 1/2"	60,30 x 48,30	3,91 x 3,68	Std	64	60	1,06
	60,30 x 48,30	5,54 x 5,08	Xs			1,44

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP MM THCK X THCK MM	SCH	C	M	PESO TEORICO THEORETICAL WEIGHT KG
2 1/2" x 1 1/4"	73,10 x 42,40	5,16 x 3,56	Std	76	64	1,72
	73,10 x 42,40	7,01 x 4,85	Xs			2,14
2 1/2" x 1 1/2"	73,10 x 48,30	5,16 x 3,68	Std	76	67	1,72
	73,10 x 48,30	7,01 x 5,08	Xs			2,14
2 1/2" x 2"	73,10 x 60,30	5,16 x 3,91	Std	76	70	1,72
	73,10 x 60,30	7,01 x 5,54	Xs			2,24
3" x 1"	88,90 x 33,40	5,49 x 3,38	Std	86	70	2,45
	88,90 x 33,40	7,62 x 4,55	Xs			2,80
3" x 1 1/4"	88,90 x 42,40	5,49 x 3,56	Std	86	70	2,45
	88,90 x 42,40	7,62 x 4,85	Xs			2,80
3" x 1 1/2"	88,90 x 48,30	5,49 x 3,68	Std	86	73	2,48
	88,90 x 48,30	7,62 x 5,08	Xs			3,05
3" x 2"	88,90 x 60,30	5,49 x 3,91	Std	86	76	2,48
	88,90 x 60,30	7,62 x 5,54	Xs			3,09
3" x 2 1/2"	88,90 x 73,10	5,49 x 5,16	Std	86	83	2,91
	88,90 x 73,10	7,62 x 7,01	Xs			3,50
4" x 2"	114,30 x 60,30	6,02x60,30	Std	105	89	4,12
	114,30 x 60,30	8,56 x 4,54	Xs			5,08
4" x 2 1/2"	114,30 x 73,10	6,02 x 5,16	Std	105	95	4,48
	114,30 x 73,10	8,56 x 7,01	Xs			5,96
4" x 3"	114,30 x 88,90	6,02 x 5,49	Std	105	98	4,56
	114,30 x 88,90	8,56 x 7,62	Xs			6,13
5" x 3"	141,30 x 88,90	6,55 x 5,49	Std	124	111	7,60
	141,30 x 88,90	9,53 x 7,62	Xs			8,85
5" x 4"	141,30 x 114,30	6,55 x 6,02	Std	124	117	7,10
	141,30 x 114,30	9,53 x 8,56	Xs			9,90
6" x 3"	168,30 x 88,90	7,11 x 5,49	Std	143	124	10,22
	168,30 x 88,90	10,97 x 7,62	Xs			13,33
6" x 4"	168,30 x 114,30	7,11 x 6,02	Std	143	130	10,25
	168,30 x 114,30	10,97 x 8,56	Xs			14,26
6" x 5"	168,30 x 141,30	7,11 x 6,55	Std	143	137	11,13
	168,30 x 141,30	10,97 x 9,53	Xs			15,04

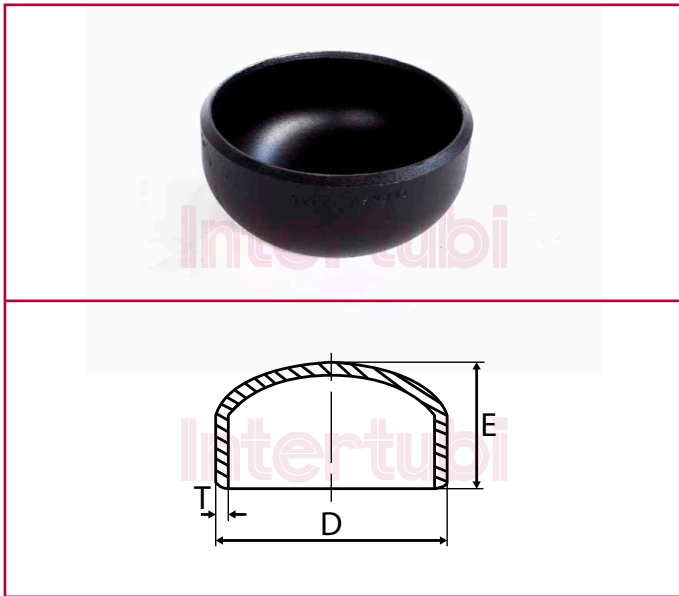
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D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP MM THCK X THCK MM	SCH	C	M	PESO TEORICO THEORETICAL WEIGHT KG		
8" x 4"	219,10 x 114,30	8,18 x 6,02	Std	178	156	16,77		
	219,10 x 114,30	12,70 x 8,56	Xs			24,59		
8" x 5"	219,10 x 141,30	8,18 x 6,55	Std		162	17,36		
	219,10 x 141,30	12,70 x 9,53	Xs			24,59		
8" x 6"	219,10 x 168,00	8,18 x 7,11	Std		168	17,96		
	219,10 x 168,00	12,70 x 10,97	Xs			28,27		
10" x 4"	273,00 x 114,30	9,27 x 6,02	Std		216	184	26,93	
	273,00 x 114,30	12,70 x 8,56	Xs				35,11	
10" x 6"	273,00 x 168,00	9,27 x 7,11	Std			194	26,93	
	273,00 x 168,00	12,70 x 10,97	Xs				35,11	
10" x 8"	273,00 x 219,10	9,27 x 8,18	Std			203	28,35	
	273,00 x 219,10	12,70 x 12,70	Xs				36,97	
12" x 6"	323,90 x 168,30	9,53 x 7,11	Std	254		219	40,50	
	323,90 x 168,30	12,70 x 10,97	Xs				75,20	
12" x 8"	323,90 x 219,10	7,53 x 8,18	Std			229	40,50	
	323,90 x 219,10	12,70 x 12,70	Xs				75,20	
12" x 10"	323,90 x 273,00	9,53 x 9,27	Std			241	43,00	
	323,90 x 273,00	12,70 x 12,70	Xs				75,20	
14" x 10"	355,60 x 273,00	9,53 x 9,27	Std		279	257	87,84	
	355,60 x 273,00	12,70 x 12,70	Xs				98,60	
14" x 12"	355,60 x 323,90	9,53 x 9,53	Std			270	91,80	
	355,60 x 323,90	12,70 x 12,70	Xs				103,50	
16" x 10"	406,40 x 273,00	9,53 x 9,27	Std			305	283	95,85
	406,40 x 273,00	12,70 x 12,70	Xs					144,00
16" x 12"	406,40 x 323,90	9,53 x 9,53	Std	295			99,00	
	406,40 x 323,90	12,70 x 12,70	Xs				147,60	
16" x 14"	406,40 x 355,60	9,53 x 9,53	Std	305			99,00	
	406,40 x 355,60	12,70 x 12,70	Xs				150,30	

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SP X SP MM THCK X THCK MM	SCH	C	M	PESO TEORICO THEORETICAL WEIGHT KG	
18" x 10"	457,00 x 273,00	9,53 x 9,27	Std	343	308	116,10	
	457,00 x 273,00	12,70 x 12,70	Xs			138,60	
18" x 12"	457,00 x 323,90	9,53 x 9,53	Std		321	121,50	
	457,00 x 323,90	12,70 x 12,70	Xs			147,60	
18" x 14"	457,00 x 355,60	9,53 x 9,53	Std		330	121,50	
	457,00 x 355,60	12,70 x 12,70	Xs			171,00	
18" x 16"	457,00 x 406,40	9,53 x 9,53	Std		330	121,50	
	457,00 x 406,40	12,70 x 12,70	Xs			171,00	
20" x 10"	508,00 x 273,00	9,53 x 9,27	Std		381	333	147,15
	508,00 x 273,00	12,70 x 12,70	Xs				192,60
20" x 12"	508,00 x 323,90	9,53 x 9,53	Std			346	147,15
	508,00 x 323,90	12,70 x 12,70	Xs				192,60
20" x 14"	508,00 x 355,60	9,53 x 9,53	Std	356		147,15	
	508,00 x 355,60	12,70 x 12,70	Xs			192,60	
20" x 16"	508,00 x 406,40	9,53 x 9,53	Std	356		151,20	
	508,00 x 406,40	12,70 x 12,70	Xs			196,20	
20" x 18"	508,00 x 457,00	9,53 x 9,53	Std	368		151,20	
	508,00 x 457,00	12,70 x 12,70	Xs			196,20	
24" x 14"	609,60 x 355,60	9,53 x 9,53	Std	432		397	155,25
	609,60 x 355,60	12,70 x 12,70	Xs				220,50
24" x 16"	609,60 x 406,40	9,53 x 9,53	Std		406	188,10	
	609,60 x 406,40	12,70 x 12,70	Xs			234,00	
24" x 18"	609,60 x 457,00	9,53 x 9,53	Std		419	188,10	
	609,60 x 457,00	12,70 x 12,70	Xs			234,00	
24" x 20"	609,60 x 508,00	9,53 x 9,53	Std		432	198,00	
	609,60 x 508,00	12,70 x 12,70	Xs			252,00	

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**FONDI**  
ASME B16.9

**CAPS**  
ASME B16.9

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	E	PESO TEORICO THEORETICAL WEIGHT KG
1"	33,4 x 3,38	Std	38	0,10
	33,4 x 4,55	Xs		0,13
	33,4 x 6,35	160		0,15
1 1/4"	42,4 x 3,56	Std	38	0,14
	42,4 x 4,85	Xs		0,19
	42,4 x 6,35	160		0,23
1 1/2"	48,3 x 3,68	Std	38	0,20
	48,3 x 5,08	Xs		0,23
	48,3 x 7,14	160		0,30
2"	60,3 x 3,91	Std	38	0,25
	60,3 x 5,54	Xs		0,30
	60,3 x 8,71	160		0,55
2 1/2"	73,1 x 5,16	Std	38	0,35
	73,1 x 7,01	Xs		0,45
	73,1 x 9,53	160		0,90
3"	88,9 x 5,49	Std	51	0,70
	88,9 x 7,62	Xs		0,85
	88,9 x 11,13	160		1,45
4"	114,3 x 6,02	Std	64	1,10
	114,3 x 8,56	Xs		1,60
	114,3 x 11,13	120		2,50
	114,3 x 13,49	160		2,75
5"	141,3 x 6,55	Std	76	2,00
	141,3 x 9,53	Xs		2,70
	141,3 x 12,70	120		4,00
	141,3 x 15,88	160		5,00
6"	168,3 x 4,78	20	89	2,01
	168,3 x 7,11	Std		3,00
	168,3 x 10,97	Xs		4,40
	168,3 x 14,27	120		6,00
	168,3 x 18,24	160		7,50

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	E	PESO TEORICO THEORETICAL WEIGHT KG
8"	219,1 x 6,35	20	102	4,50
	219,1 x 7,04	30		5,00
	219,1 x 8,18	Std		5,50
	219,1 x 10,31	60		7,00
	219,1 x 12,70	Xs		8,35
	219,1 x 18,24	120		12,27
10"	273,0 x 6,35	20	127	6,00
	273,0 x 7,80	30		8,00
	273,0 x 9,27	Std		9,00
	273,0 x 12,70	Xs		13,60
	273,0 x 15,06	80		16,25
	273,0 x 21,41	120		24,74
12"	323,9 x 6,35	20	152	10,00
	323,9 x 8,38	30		13,00
	323,9 x 9,53	Std		15,00
	323,9 x 10,31	40		19,00
	323,9 x 12,70	Xs		22,50
	323,9 x 14,27	60		25,50
	323,9 x 17,45	80		29,50
	323,9 x 25,40	120		41,00
14"	355,6 x 7,92	20	165	14,00
	355,6 x 9,53	Std		16,00
	355,6 x 12,70	Xs		27,00
16"	406,4 x 7,92	20	178	18,00
	406,4 x 9,53	Std		21,00
	406,4 x 12,70	Xs		31,50
18"	457,0 x 7,92	20	203	22,00
	457,0 x 9,53	Std		26,00
	457,0 x 12,70	Xs		36,00
20"	508,0 x 9,53	Std	229	32,00
	508,0 x 12,70	Xs		42,00
24"	609,6 x 9,53	Std	267	46,00
	609,6 x 12,70	Xs		60,00

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