



Divisione Industriale
Raccordi
a saldare



Raccordi a saldare

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Riferimenti Normativi

Raccordi rame saldare EN 1057

Raccordi saldare ISO EN 10253

Raccordi saldare schedulati inox ASME B16.9 A304-A316

Raccordi saldare formato B 16.11

Raccordi saldare ISO inox EN 10253-3 A304-A316

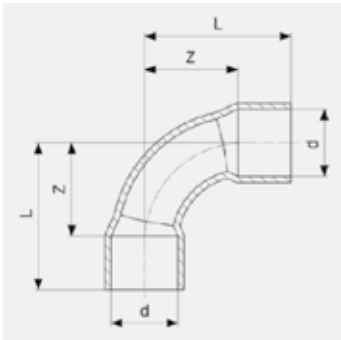
Raccordi saldare schedulati ASTM A234 WPB



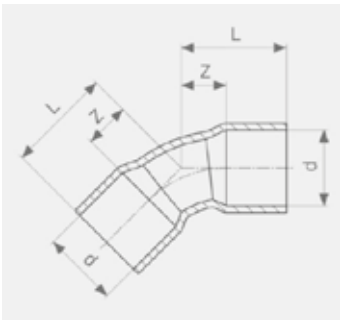
Raccordi

**Raccordi a saldare rame
EN 1057**

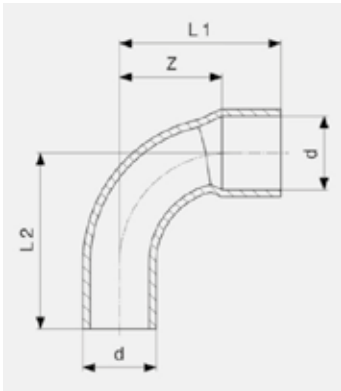




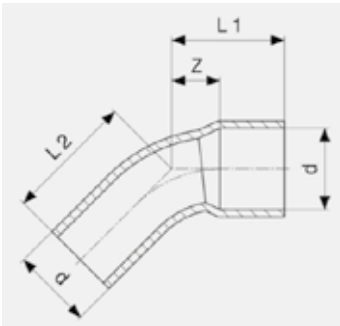
CURVA A 90° RAME Modello 95002A		
d	Z	L
6	8	14
8	10	17
10	14	22
12	14	23
14	17	28
15	18	29
16	19	30
18	19	32
22	26	42
28	32	52
35	42	65
42	50	77
54	65	97
64,0	83	116
76,1	100	134
88,9	112	150
108,0	177	225



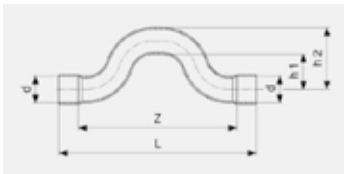
CURVA A 45° RAME Modello 95041		
d	Z	L
10	6	14
12	5	14
14	6	17
15	6	17
16	7	18
18	8	20
22	9	25
28	12	31
35	14	38
42	17	44
54	22	54
64,0	37	70
76,1	33	67
88,9	40	78
108,0	62	110



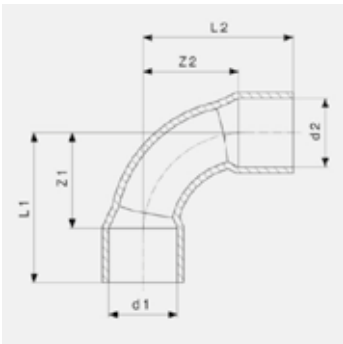
CURVA A 90° RAME Modello 95001A			
d	Z	L1	L2
8	10	17	18
10	14	22	24
12	14	23	25
14	17	28	28
15	18	29	31
16	19	30	30
18	22	35	37
22	26	42	43
28	34	53	55
35	42	65	67
42	50	77	79
54	65	97	98
64,0	76	108	110
76,1	92	125	128
88,9	107	144	148



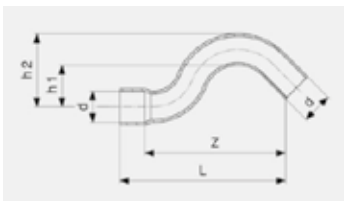
CURVA A 45° RAME Modello 95040			
d	Z	L1	L2
10	6	14	16
12	5	15	16
14	6	17	17
15	6	17	19
16	7	18	18
18	8	20	22
22	9	25	27
28	12	31	33
35	14	38	40
42	17	44	46
54	22	54	56
64,0	32	64	66
76,1	38	71	74
88,9	44	82	85



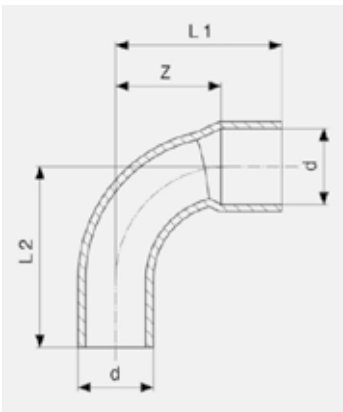
SORPASSO RAME Modello 95085				
d	Z	L	h1	h2
15	90	112	20	35
18	102	128	20	38
22	115	147	23	45



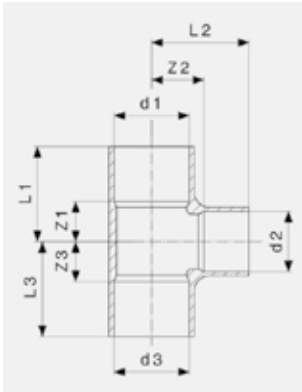
GOMITO A 90° RAME Modello 95090					
d1	d2	Z1	Z2	L1	L2
8	8	7	7	14	14
10	10	14	14	22	22
12	12	12	12	21	21
14	14	14	14	25	25
15	12	15	21	26	30
15	15	10	10	21	21
16	16	16	16	27	27
18	18	16	16	29	29
22	22	15	15	31	31
28	28	19	19	38	38
35	35	28	28	51	51
42	42	34	34	61	61
54	54	45	45	77	77
64,0	64,0	76	76	108	108
76,1	76,1	66	66	100	100
88,9	88,9	78	78	116	116
108,0	108,0	130	130	178	178



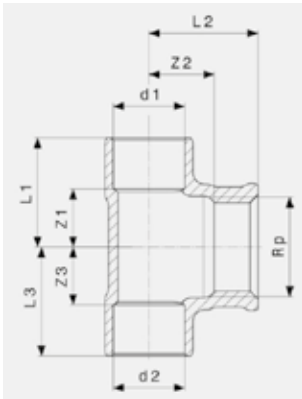
SORPASSO RAME Modello 95086				
d	Z	L	h1	h2
12	66	76	20	32
15	68	80	20	35
18	73	87	20	38
22	86	104	23	45



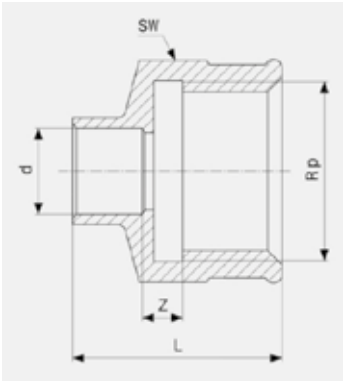
GOMITO A 90° RAME Modello 95092			
d	Z	L1	L2
8	11	18	18
10	14	22	24
12	12	21	25
14	14	25	25
15	12	23	25
16	16	27	27
18	16	28	30
22	18	34	37
28	25	44	46
35	28	51	55
42	34	61	65
54	45	77	81



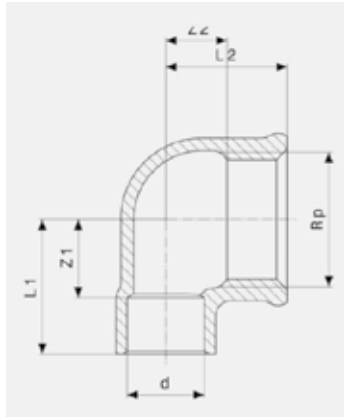
RACCORDO A T RAME Modello 95130								
d1	d2	d3	Z1	Z2	Z3	L1	L2	L3
12	10	12	7	8	7	16	16	16
14	12	14	8	8	8	18	17	18
15	10	15	8	10	8	19	18	19
16	12	16	8	9	8	19	18	19
16	14	12	8	9	16	19	20	25
16	14	16	8	9	8	18	20	18
18	12	18	8	13	8	21	22	21
18	14	18	8	10	8	20	21	20
18	16	18	8	10	8	22	21	22
22	12	22	8	15	8	24	24	24
22	14	22	8	12	8	24	23	24
22	15	22	8	12	8	24	23	24
22	16	22	10	12	10	26	23	26
22	18	22	11	14	11	27	27	27
28	18	28	10	18	10	29	30	29
28	22	28	12	18	12	31	34	31



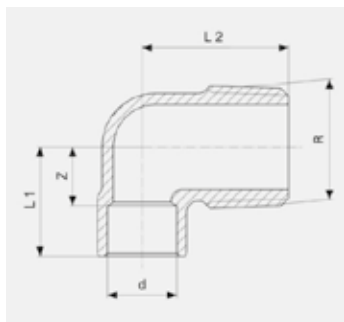
RACCORDO A T BRONZO Modello 94130G								
d1	d2	d3	Z1	Z2	Z3	L1	L2	L3
16	1/2	16	12	10	12	23	24	23
18	1/2	18	12	8	12	24	23	24
18	3/4	18	17	9	17	30	25	30
22	3/4	22	17	10	17	32	26	32



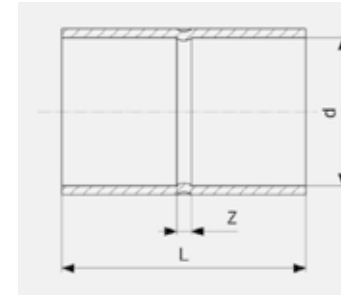
MANICOTTO BRONZO Modello 94243G				
d	Rp	Z	L	SW
10	3/8	1	21	20
10	1/2	1	24	25
12	3/8	2	22	20
14	1/2	2	28	25
15	1/2	2	28	25
16	1/2	2	28	25
18	1/2	2	30	25
18	3/4	2	31	30
22	3/4	1	34	30
22	1	1	36	38
28	3/4	2	37	30
28	1	2	40	38
35	1	1	43	40
35	1 1/4	6	50	48
42	1 1/2	4	52	53
54	2	3	61	66



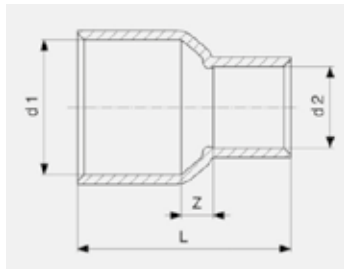
GOMITO A 90° BRONZO Modello 94090G					
d	Rp	Z1	Z2	L1	L2
12	3/8	11	5	20	16
12	1/2	12	4	21	19
14	1/2	13	12	24	22
15	3/8	10	6	21	18
15	1/2	12	6	22	22
15	3/4	17	7	28	23
16	1/2	13	12	24	22
18	1/2	12	8	24	23
18	3/4	16	8	28	24
22	1/2	11	8	27	23
22	3/4	16	10	32	26
22	1	19	11	35	30
28	3/4	15	14	34	30
28	1	21	13	40	32
35	1 1/4	23	19	46	40
42	1 1/2	26	24	53	45
54	2	32	29	64	55



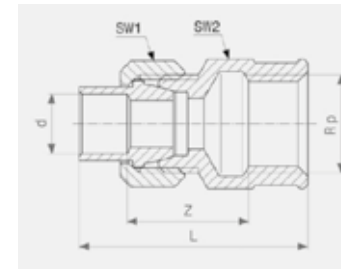
GOMITO A 90° BRONZO Modello 94092G				
d	R	Z	L1	L2
12	3/8	9	18	22
12	1/2	10	19	26
14	1/2	12	23	29
15	3/8	10	21	26
15	1/2	10	20	28
16	1/2	12	23	29
18	1/2	18	32	30
18	3/4	14	26	31
22	1/2	11	27	33
22	3/4	14	29	33
22	1	17	32	39
28	3/4	18	33	38
28	1	19	38	46
35	1 1/4	22	45	44



MANICOTTO CON BATTENTE RAME Modello 95270		
d	Z	L
6	1	13
8	1	15
10	1	17
12	2	19
14	2	23
15	2	23
16	2	23
18	2	27
22	2	32
28	2	38
35	2	48
42	2	56
54	2	66
64,0	5	70
76,1	4	72
88,9	5	80
108,0	4	100

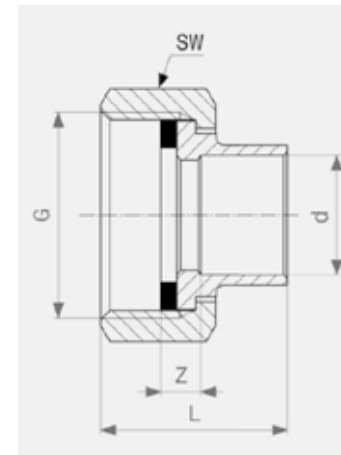


MANICOTTO DI RIDUZIONE RAME Modello 95240			
d1	d2	Z	L
12	10	4	20
14	10	4	23
14	12	4	23
15	12	5	26
16	12	6	25
16	14	4	25
18	12	6	29
18	14	6	29
18	15	4	27
18	16	4	27
22	12	9	36
22	14	8	34
22	15	7	37
22	16	7	33
22	18	6	34
28	15	12	44
28	16	8	38
28	18	7	42
28	22	5	43
35	22	11	50
35	28	9	52
42	28	12	59
42	35	10	60
54	28	24	77
54	35	14	69
54	42	11	70



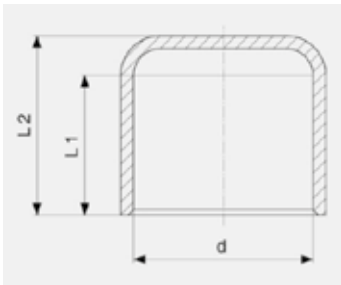
BOCCHETTONE Modello 94340G					
d	Rp	Z	L	SW1	SW2
15	1/2	21	47	29	27
18	3/4	20	49	29	30
22	3/4	21	53	36	34
28	1	20	58	46	44

SW = diametro chiave



BOCCHETTONE Modello 94359				
d	G	Z	L	SW
15	3/4	5	24	29
18	3/4	6	27	29
22	1	5	29	36
28	1 1/4	6	34	46
35	1 1/2	10	42	52
42	1 3/4	7	44	58

SW = diametro chiave



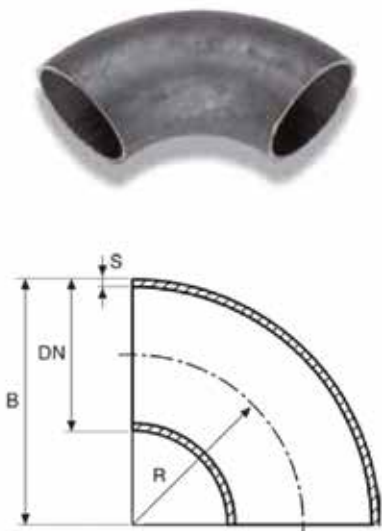
TAPPO IN RAME Modello 95301		
d	L1	L2
8	7	9
10	8	10
12	9	11
14	11	13
15	11	13
16	11	13
18	13	15
22	15	18
28	18	21
35	24	29
42	27	33
54	32	37
64	32	37



Raccordi
Raccordi a saldare
ISO EN 10253

**CURVA DIMA 3D 90°
DA TUBO SALDATO**

NORMA: EN 10253-1
(DIN 2605)
MATERIALE: P235TR2 - S235
(R.St.37.0)



CURVA DIMA 3D 90° DA TUBO SALDATO					
DN	DN pollici	DN mm	S mm	R mm	B mm
20	3/4"	26,9	2,3	29	43
-	-	30	2,6	33,5	48
25	1"	33,7	2,6	38	56
-	-	38	2,6	45	64
32	1 1/4"	42,4	2,6	48	70
-	-	44,5	2,6	51	73
40	1 1/2"	48,3	2,6	57	83
-	-	51	2,6	63,5	88
-	-	54	2,6	68,5	95
-	-	57	2,9	72	100
50	2"	60,3	2,9	76	106
-	-	70	2,9	92	127
65	2 1/2"	76,1	2,9	95	132
80	3"	88,9	3,2	114	159
-	3 1/2"	101,6	3,6	133	184
-	-	108	3,6	142,5	196
100	4"	114,3	3,6	152	210
-	-	133	4	181	247
125	5"	139,7	4	190	262
-	-	159	4,5	216	295
150	6"	168,3	4,5	229	313
175	-	193,7	5,6	270	367
200	8"	219,1	6,3	305	414
-	-	244,5	6,3	340	462
250	10"	273	6,3	381	518
300	12"	323,9	7,1	457	619

**CURVA DIMA 3D 180°
DA TUBO SALDATO**

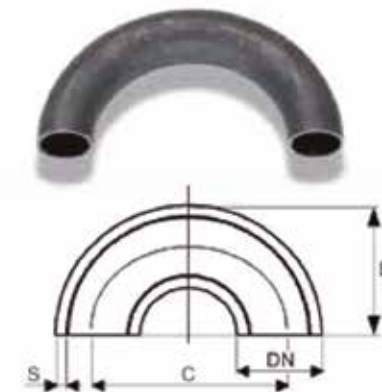
NORMA: EN 10253-1
(DIN 2605)
MATERIALE: P235TR2 - S235
(R.St.37.0)



CURVA DIMA 3D 180° DA TUBO SALDATO					
DN	DN pollici	DN mm	S mm	B mm	C mm
15	1/2"	21,3	2	38	56
20	3/4"	26,9	2,3	43	57
25	1"	33,7	2,6	56	76
32	1 1/4"	42,4	2,6	70	95
40	1 1/2"	48,3	2,6	83	114
-	-	51	2,6	88	127
-	-	54	2,6	95	137
-	-	57	2,9	100	144
50	2"	60,3	2,9	106	152
-	-	70	2,9	127	184
65	2 1/2"	76,1	2,9	132	191
80	3"	88,9	3,2	159	229
-	3 1/2"	101,6	3,6	184	267
-	-	108	3,6	196	285
100	4"	114,3	3,6	210	305

**CURVA DIMA 5D 180°
DA TUBO SALDATO**

NORMA: EN 10253-1
(DIN 2605)
MATERIALE: P235TR2 - S235
(R.St.37.0)



CURVA DIMA 5D 180° DA TUBO SALDATO					
DN	DN pollici	DN mm	S mm	B mm	C mm
20	3/4"	26,9	2,3	71	115
25	1"	33,7	2,6	89	145
32	1 1/4"	42,4	2,6	114	185
40	1 1/2"	48,3	2,6	132	215
50	2"	60,3	2,9	165	270

**CURVA DIMA 3D 90° DA
TUBO SENZA SALDATURA**

NORMA: EN 10253-1
(DIN 2605)
MATERIALE: P235TR2 - S235
(R.St.37.0)



CURVA DIMA 3D 90° DA TUBO SENZA SALDATURA						
DN	DN pollici	DN mm	S mm	R mm	B mm	Kg
10	3/8"	17,2	2	19	28	0,04
15	1/2"	21,3	2	29	38	0,04
20	3/4"	26,9	2,3	29	43	0,06
25	1"	33,7	2,6	38	56	0,11
32	1 1/4"	42,4	2,6	48	70	0,19
40	1 1/2"	48,3	2,6	57	83	0,26
-	-	57	2,9	72	100	0,44
50	2"	60,3	2,9	76	106	0,49
-	-	70	2,9	92	127	0,7
65	2 1/2"	76,1	2,9	95	132	0,78
80	3"	88,9	3,2	114	159	1,22
-	3 1/2"	101,6	3,6	133	184	1,82
-	-	108	3,6	142,5	196	2,07
100	4"	114,3	3,6	152	210	2,35
-	-	133	4	181	247	3,62
125	5"	139,7	4	190	262	4
-	-	159	4,5	216	295	5,82
150	6"	168,3	4,5	229	313	6,52
175	-	193,7	5,6	270	367	11,02
200	8"	219,1	6,3	305	414	15,96
-	-	244,5	6,3	340	462	19,77
250	10"	273	6,3	381	518	24,8
300	12"	323,9	7,1	457	619	39,82
350	14"	355,6	8	533	711	57,47
400	16"	406	8,8	610	813	82,6
500	20"	508	11	762	1016	161
600	24"	609	12,5	914	1219	271,38

**CURVA DIMA 5D 90° DA
TUBO SENZA SALDATURA**

NORMA: EN 10253-1
(DIN 2605)
MATERIALE: P235TR2 - S235
(R.St.37.0)



CURVA DIMA 5D 90° DA TUBO SENZA SALDATURA					
DN	DN pollici	DN mm	S mm	R mm	B mm
15	1/2"	21,3	2	42,5	53
20	3/4"	26,9	2,3	57,5	71
25	1"	33,7	2,6	72,5	89
32	1 1/4"	42,4	2,6	92,5	114
40	1 1/2"	48,3	2,6	107,5	132
50	2"	60,3	2,9	135	165
65	2 1/2"	76,1	2,9	175	213
80	3"	88,9	3,2	205	250
-	3 1/2"	101,6	3,6	235	286
-	-	108	3,6	253	307
100	4"	114,3	3,6	270	327
-	-	133	4	311,5	378
125	5"	139,7	4	330	400
-	-	159	4,5	375	454
150	6"	168,3	4,5	390	474
200	8"	219,1	6,3	510	620
250	10"	273	6,3	650	787
300	12"	323,9	7,1	775	937

Raccordi - Raccordi a saldare

Riduzione concentrica da tubo senza saldatura



RIDUZIONE CONCENTRICA DA TUBO SENZA SALDATURA

NORMA: EN 10253-1
(DIN 2616 serie 3)
MATERIALE: P235GH (R.St.35.8/l)



RIDUZIONE CONCENTRICA DA TUBO SENZA SALDATURA						
DN1	DN2	DN1 mm	DN2 mm	S1 mm	S2 mm	L mm
25	20	33,7	26,9	2,6	2,3	50
32	20	42,4	26,9	2,6	2,3	50
32	25	42,4	33,7	2,6	2,6	50
40	20	48,3	26,9	2,6	2,3	64
40	25	48,3	33,7	2,6	2,6	64
40	32	48,3	42,4	2,6	2,6	64
50	25	60,3	33,7	2,9	2,6	76
50	32	60,3	42,4	2,9	2,6	76
50	40	60,3	48,3	2,9	2,6	76
-	32	70	42,4	2,9	2,6	90
-	40	70	48,3	2,9	2,6	90
-	50	70	60,3	2,9	2,9	90
65	32	76,1	42,4	2,9	2,6	90
65	40	76,1	48,3	2,9	2,6	90
65	50	76,1	60,3	2,9	2,9	90
80	32	88,9	42,4	3,2	2,6	90
80	40	88,9	48,3	3,2	2,6	90
80	50	88,9	60,3	3,2	2,9	90
80	-	88,9	70	3,2	2,9	90
80	65	88,9	76,1	3,2	2,9	90
-	50	101,6	60,3	3,6	2,9	100
-	-	101,6	70	3,6	2,9	100
-	65	101,6	76,1	3,6	2,9	100
-	80	101,6	88,9	3,6	3,2	100
-	50	108	60,3	3,6	2,9	100
-	-	108	70	3,6	2,9	100
-	65	108	76,1	3,6	2,9	100
-	80	108	88,9	3,6	3,2	100
100	50	114,3	60,3	3,6	2,9	100
100	65	114,3	76,1	3,6	2,9	100
100	80	114,3	88,9	3,6	3,2	100
100	-	114,3	101,6	3,6	3,6	100
-	-	133	70	4	2,9	127
-	65	133	76,1	4	2,9	127
-	80	133	88,9	4	3,2	127
-	-	133	101,6	4	3,6	127
-	100	133	114,3	4	3,6	127
-	-	133	108	4	3,6	127
125	65	139,7	76,1	4	2,9	127
125	80	139,7	88,9	4	3,2	127

Raccordi - Raccordi a saldare

Riduzione concentrica da tubo senza saldatura



RIDUZIONE CONCENTRICA DA TUBO SENZA SALDATURA

NORMA: EN 10253-1
(DIN 2616 serie 3)
MATERIALE: P235GH (R.St.35.8/l)



RIDUZIONE CONCENTRICA DA TUBO SENZA SALDATURA						
DN1	DN2	DN1 mm	DN2 mm	S1 mm	S2 mm	L mm
125	-	139,7	101,6	4	3,6	127
125	-	139,7	108	4	3,6	127
125	100	139,7	114,3	4	3,6	127
125	-	139,7	133	4	4	127
-	80	159	88,9	4,5	3,2	140
-	-	159	101,6	4,5	3,6	140
-	-	159	108	4,5	3,6	140
-	100	159	114,3	4,5	3,6	140
-	-	159	133	4,5	4	140
-	125	159	139,7	4,5	4	140
150	80	168,3	88,9	4,5	3,2	140
150	-	168,3	101,6	4,5	3,6	140
150	-	168,3	108	4,5	3,6	140
150	100	168,3	114,3	4,5	3,6	140
150	-	168,3	133	4,5	4	140
150	125	168,3	139,7	4,5	4	140
150	-	168,3	159	4,5	4,5	140
-	100	193,7	114,3	5,6	3,6	152
-	-	193,7	133	5,6	4	152
-	125	193,7	139,7	5,6	4	152
-	-	193,7	159	5,6	4,5	152
-	150	193,7	168,3	5,6	4,5	152
200	100	219,1	114,3	6,3	3,6	152
200	-	219,1	133	6,3	4	152
200	125	219,1	139,7	6,3	4	152
200	-	219,1	159	6,3	4,5	152
200	150	219,1	168,3	6,3	4,5	152
200	-	219,1	193,7	6,3	5,6	152
-	-	244,5	159	6,3	4,5	178
-	150	244,5	168,3	6,3	4,5	178
-	200	244,5	219,1	6,3	6,3	178
250	-	273	159	6,3	4	178
250	150	273	168,3	6,3	4,5	178
250	-	273	193,7	6,3	5,6	178
250	200	273	219,1	6,3	6,3	178
250	-	273	244,5	6,3	6,3	178
300	200	323,9	219,1	7,1	6,3	203
300	-	323,9	244,5	7,1	6,3	203
300	250	323,9	273	7,1	6,3	203
350	200	355,6	219,1	8	6,3	330

Riduzione concentrica da tubo senza saldatura
Curva a sella 90° dima 3D da tubo senza saldatura



**RIDUZIONE CONCENTRICA
DA TUBO SENZA SALDATURA**

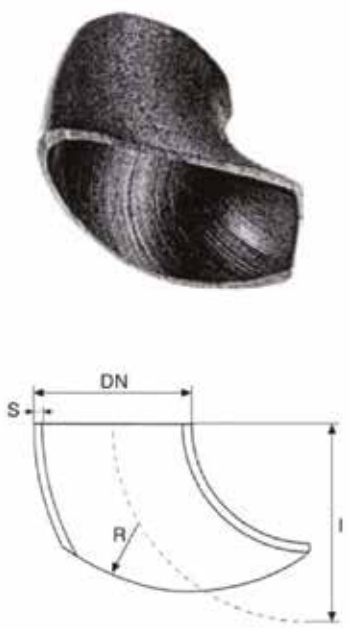
NORMA: EN 10253-1
(DIN 2616 serie 3)
MATERIALE: P235GH (R.St.35.8/l)



RIDUZIONE CONCENTRICA DA TUBO SENZA SALDATURA						
DN1	DN2	DN1 mm	DN2 mm	S1 mm	S2 mm	L mm
350	250	355,6	273	8	6,3	330
350	300	355,6	323,9	8	7,1	330
400	200	406,4	219,1	8,8	6,3	355
400	250	406,4	273	8,8	6,3	355
400	300	406,4	323,9	8,8	7,1	355
400	350	406,4	355,6	8,8	8	355
500	250	508	273	11	6,3	508
500	300	508	323,9	11	7,1	508
500	350	508	355,6	11	8	508
500	400	508	406,4	11	8,8	508
600	300	609,6	323,9	12,5	7,1	508
600	350	609,6	355,6	12,5	8	508
600	400	609,6	406,4	12,5	8,8	508
600	500	609,6	508	12,5	11	508

**CURVA A SELLA 90°
DIMA 3D DA TUBO
SENZA SALDATURA**

MATERIALE: P235TR1 - S235
(R.St.37.0)



CURVA A SELLA 90° DIMA 3D DA TUBO SENZA SALDATURA					
DN	DN pollici	DN mm	S mm	I mm	R mm
32	1 1/4"	42,4	2,6	47,5	48
40	1 1/2"	48,3	2,6	57	57
50	2"	60,3	2,9	76	76
-	-	70	2,9	92	92
65	2 1/2"	76,1	2,9	95	95
80	3"	88,9	3,2	114,5	114
-	3 1/2"	101,6	3,6	133,5	133
-	-	108	3,6	142,5	142
100	4"	114,3	3,6	152,5	152
-	-	133	4	181	181
125	5"	139,7	4	190,5	190
-	-	159	4,5	216	216
150	6"	168,3	4,5	228,5	228
-	-	193,7	5,4	270	270
200	8"	219,1	6,3	305	305
250	10"	273	6,3	381	381
300	12"	323,9	7,1	457	457

TEE normale SA tubo SS



TEE NORMALE SA TUBO SS

NORMA: EN 10253-2
(DIN 2615-1 serie 3)
MATERIALE: P235GH (R.St.35.8/l)



TEE NORMALE SA TUBO SS				
DN	DN pollici	DN mm	S mm	A mm
15	1/2"	21,3	2	25
20	3/4"	26,9	2,3	29
25	1"	33,7	2,6	38
32	1 1/4"	42,4	2,6	48
40	1 1/2"	48,3	2,6	57
50	2"	60,3	2,9	64
65	2 1/2"	76,1	2,9	76
80	3"	88,9	3,2	86
100	4"	114,3	3,6	105
125	5"	139,7	4	124
150	6"	168,3	4,5	143
200	8"	219,1	6,3	178
250	10"	273	6,3	216
300	12"	323,9	7,1	254
350	14"	355,6	8	279
400	16"	406,4	8,8	305

**SCARPETTA DA TUBO
SENZA SALDATURA**

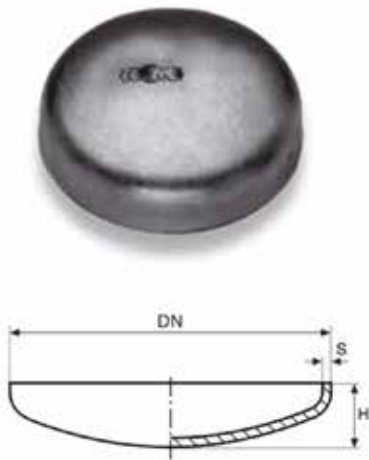
NORMA: DIN 2618
MATERIALE: P235GH (R.St.35.8/l)



SCARPETTA DA TUBO SENZA SALDATURA							
DN	DN pollici	DN mm.	S mm.	HT mm.	HI mm.	L mm.	R mm.
20	3/4"	26,9	2,3	38	29	43	32
25	1"	33,7	2,6	50	40	53	42
32	1 1/4"	42,4	2,6	50	38	67	55
40	1 1/2"	48,3	2,6	64	48	76	60
50	2"	60,3	2,9	76	58	96	77
-	-	70	2,9	70	51	112	92
65	2 1/2"	76,1	2,9	88	68	121	100
80	3"	88,9	3,2	88	65	142	122
-	3 1/2"	101,6	3,6	91	65	161	138
-	-	108	3,6	97	68	172	144
100	4"	114,3	3,6	102	74	182	160
-	-	133	4	119	83	213	174
125	5"	139,7	4	125	87	222	182
-	-	159	4,5	143	100	254	212
150	6"	168,3	4,5	151	107	268	224
-	-	193,7	5,6	174	122	309	258
200	8"	219,1	6,3	197	137	355	295
250	10"	273	6,3	240	155	455	367
300	12"	323,9	7,1	275	180	537	436

FONDELLO BOMBATO

NORMA: EN 10253-1
(DIN 28011)
MATERIALE: St. W 24



FONDELLO BOMBATO				
DN	DN pollici	DN mm	H* mm	S mm
20	3/4"	26,9	18	2,6
25	1"	33,7	19	2,6
32	1 1/4"	42,4	21	2,6
40	1 1/2"	48,3	22	2,6
-	-	57	23	2,9
50	2"	60,3	24	2,9
-	-	70	26	2,9
65	2 1/2"	76,1	27	2,9
80	3"	88,9	30	3,2
90	3 1/2"	101,6	36	3,6
-	-	108	37	3,6
100	4"	114,3	38	3,6
-	-	133	42	4
125	5"	139,7	43	4
-	-	159	51	4,5
150	6"	168,3	53	4,5
175	-	193,7	62	5,6
200	8"	219,1	67	6,3
-	-	244,5	72	6,3
250	10"	273	77	6,3
300	12"	323,9	91	7,1
350	14"	355,6	101	8
400	16"	406,4	115	8,8

*Quota H: conforme alla norma DIN 28011

PRESSIONE MASSIMA (BAR)						
		D3	D5			
DN mm	Sp/Thk mm					
17,2	2	90	-	-	-	-
21,3	2	90	90	70	-	100
26,9	2,3	90	90	70	100	100
30	2,6	90	90	-	-	100
33,7	2,6	90	90	60	100	100
42,4	2,6	90	90	50	100	100
44,5	2,6	90	90	-	-	100
48,2	2,6	90	90	40	90	100
51	2,6	70	80	-	-	100
54	2,6	70	80	-	90	90
57	2,6	70	80	-	80	90
60,3	2,9	70	80	40	80	90
70	2,9	70	80	-	70	90
76,1	2,9	60	70	30	70	80
88,9	3,2	60	70	30	60	80
101,6	3,6	60	70	-	60	70
108	3,6	60	70	-	50	70
114,3	3,6	50	60	20	50	70
133	4	50	60	-	50	60
139,7	4	50	60	20	40	60
159	4,5	50	60	-	40	60
168,3	4,5	50	60	20	40	60
193,7	5,6	50	60	-	40	60
219,1	6,3	50	60	20	40	60
244,5	6,3	40	45	-	40	50
273	6,3	40	45	15	30	50
323,9	7,1	40	-	15	30	50
355,6	8	30	-	15	30	50
406	8,8	30	-	15	30	45
508	11	30	-	-	-	45
609	12,5	30	-	-	-	45

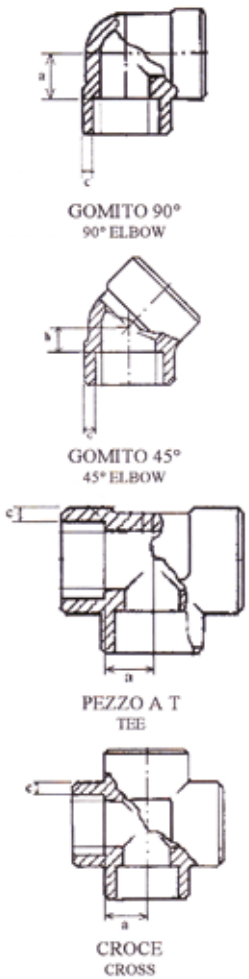
NOTE:
Pmax (bar) indicative a 20°C raccordi a saldare in acciaio al carbonio.
Le sopra indicate pressioni massime sono puramente indicative.
Resta cura del progettista la scelta del materiale in funzione alle reali condizioni di utilizzo.



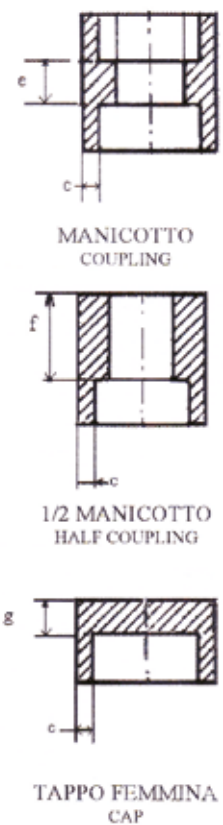
Raccordi
Raccordi tasca a saldare
ANSI B16.11



Gomito 90° - Gomito 45° - Pezzo a T - Croce
Manicotto - Mezzo manicotto - Tappo femmina

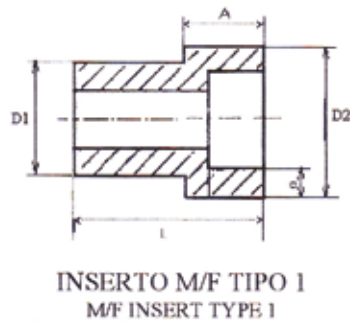


GOMITO 90°, GOMITO 45°, PEZZO A T E CROCE 3000 LB			
DIMENSIONI pollici	a	b	c min.
1/4	11,0	8,0	3,30
3/8	13,5	8,0	3,50
1/2	15,5	11,0	4,09
3/4	19,0	13,0	4,27
1	22,5	14,0	4,98
1 1/4	27,0	17,5	5,28
1 1/2	32,0	20,5	5,54
2	38,0	25,5	6,04
2 1/2	41,0	28,5	7,67
3	57,0	32,0	8,30
4	66,5	41,0	9,35

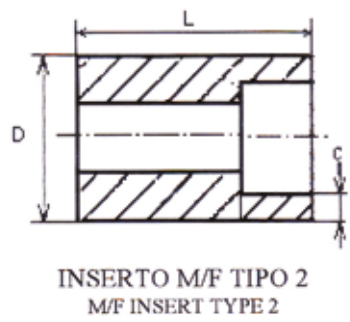


MANICOTTO, 1/2 MANICOTTO E TAPPO FEMMINA 3000 LB				
DIMENSIONI pollici	c min.	e	f	g min.
1/4	3,30	6,5	16,0	7
3/8	3,50	6,5	17,5	7
1/2	4,09	9,5	22,5	8
3/4	4,27	9,5	24,0	10
1	4,98	12,5	28,5	11
1 1/4	5,28	12,5	30,0	13
1 1/2	5,54	12,5	32,0	14
2	6,04	19,0	41,0	18
2 1/2	7,67	19,0	43,0	21
3	8,30	19,0	44,5	24
4	9,35	19,0	48,0	27

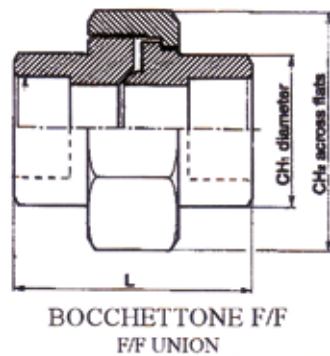
Inserto M/F tipo 1
Inserto M/F tipo 2



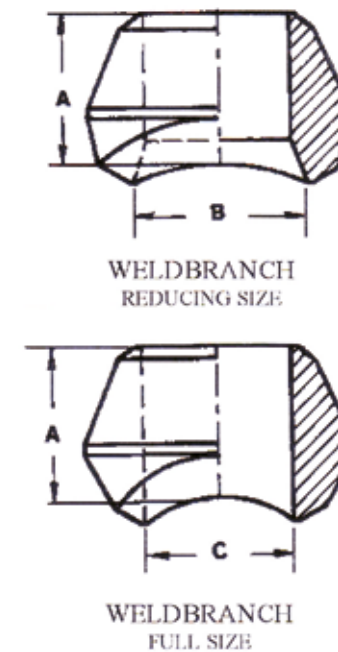
INSERTO M/F TIPO 1 3000 LB					
DIMENSIONI pollici	A min.	D1	D2	L	c min.
1/2" x 1/4"	15,0	21,3	22,0	34,0	3,30
1/2" x 3/8"	15,0	21,3	28,0	34,0	3,50
3/4" x 1/2"	16,5	26,7	32,0	37,0	4,09
1" x 3/4"	18,0	33,4	38,0	39,5	4,27
1 1/4" x 1"	21,0	42,2	45,0	43,5	4,98
1 1/2" x 1 1/4"	23,0	48,3	55,0	48,0	5,28
2" x 1 1/2"	24,5	60,3	65,0	51,0	5,54
2 1/2" x 2"	27,5	73,0	80,0	57,5	6,04
3" x 2 1/2"	31,0	88,9	95,0	62,0	7,67



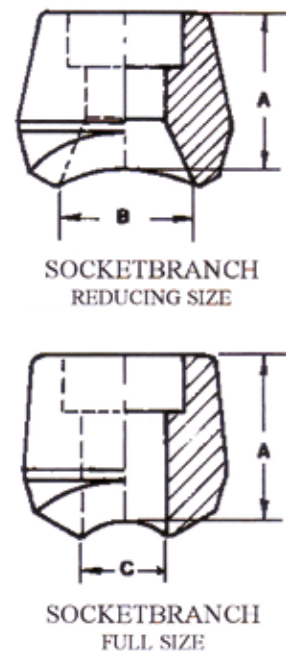
INSERTO M/F TIPO 2 3000 LB			
DIMENSIONI pollici	A	B	c min.
3/4" x 3/8"	26,7	26,5	3,50
1" x 1/2"	33,4	33,0	4,09
1 1/2" x 1"	48,3	36,5	4,98



BOCCHETTONE F/F 3000 LB			
DIMENSIONI pollici	L	CH1	CH2
1/4"	4,3	2,2	3,6
3/8"	4,8	2,6	4,1
1/2"	5,2	3,1	4,8
3/4"	5,7	3,7	5,6
1"	6,4	4,5	6,5
1 1/4"	7,5	5,5	7,8
1 1/2"	8,0	6,1	8,7
2"	9,2	7,5	10,4
2 1/2"	11,8	9,2	12,4
3"	11,8	10,9	15,0
4"	-	-	-



WELDBRANCH MISURA INTERA E RIDOTTA 40/STD			
DIMENSIONI pollici	A	B	C
1/4"	16,0	16,0	-
3/8"	19,0	19,0	-
1/2"	19,0	24,0	16,0
3/4"	22,0	30,0	20,5
1"	27,0	36,5	26,0
1 1/4"	32,0	44,5	35,0
1 1/2"	33,5	51,0	41,0
2"	38,0	65,0	52,5
2 1/2"	41,5	76,0	62,0
3"	44,5	93,5	78,0
4"	51,0	120,5	101,5



SOCKETBRANCH MISURA INTERA E RIDOTTA 3000 LB			
DIMENSIONI pollici	A	B	C
1/4"	19,0	16,0	-
3/8"	20,5	19,0	-
1/2"	25,5	24,0	14,0
3/4"	27,0	30,0	19,0
1"	33,5	36,5	24,0
1 1/4"	33,5	44,5	32,0
1 1/2"	35,0	51,0	38,0
2"	38,0	65,0	49,0
2 1/2"	46,0	76,0	59,0
3"	51,0	93,5	73,5
4"	57,0	120,5	97,0

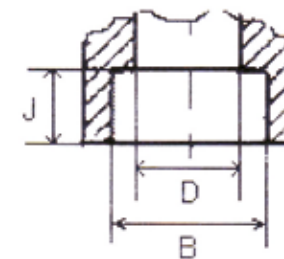


TABELLA DIMENSIONI TASCHE ASME B16.11				
DIMENSIONI pollici	B		D = 3000	
	min.	max	min.	max
1/4"	14,2	14,6	8,50	10,00
3/8"	17,6	18,0	11,80	13,30
1/2"	21,8	22,2	15,00	16,60
3/4"	27,2	27,6	20,20	21,70
1"	33,9	34,3	25,90	27,40
1 1/4"	42,7	43,1	34,30	35,80
1 1/2"	48,8	49,2	40,10	41,60
2"	61,2	61,7	51,70	53,30
2 1/2"	73,9	74,4	61,20	64,20
3"	89,8	90,3	76,40	79,40
4"	115,2	115,7	100,70	103,80



Raccordi

Raccorderia nera saldare ISO SS - ASME

Tutte le illustrazioni e descrizioni riportate nella presente brochure hanno carattere puramente indicativo e sono estrapolate in parte dai rispettivi cataloghi dei produttori, sui quali sono indicate sia le condizioni di esercizio che i limiti di funzionamento.

I produttori si riservano il diritto di apportare ai propri articoli, in qualsiasi momento e senza preavviso, tutte quelle modifiche ritenute opportune per migliorare la qualità dei prodotti.

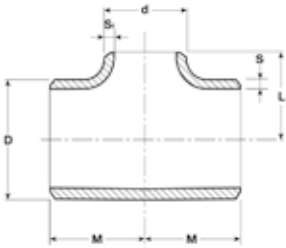
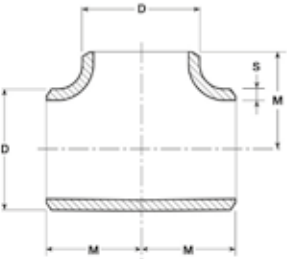
Si declina ogni responsabilità diretta ed indiretta, nei confronti degli utenti e in generale di qualsiasi terzo, per eventuali imprecisioni, omissioni derivanti dai suddetti contenuti.

Per ogni eventuale controversia Foro competente sarà esclusivamente quello di Lecco.



Raccordi
Tee uguali e ridotti

Tolleranze dimensionali
Pezzi a tee con dimensioni o spessori particolari: a richiesta (-)



TEE UGUALI E RIDOTTI																
NPS	D mm	d mm	M mm	L mm	SCH. STD S	SCH. STD S _i	SCH. XS S	SCH. XS S _i	SCH. 40 S	SCH. 40 S _i	SCH. 80 S	SCH. 80 S _i	SCH. 160 S	SCH. 160 S _i	SCH. XXS S	SCH. XXS S _i
1/2"	21,3	-	25,4	25,4	2,77	-	3,73	-	2,77	-	3,73	-	4,75	-	7,47	-
1/2" x 3/8"	21,3	17,3	25,0	25,0	2,77	2,31	3,73	3,20	2,77	2,31	3,73	3,20	-	-	-	-
1/2" x 1/4"	21,3	13,7			2,77	2,24	3,73	3,02	2,77	2,24	3,73	3,02	-	-	-	-
3/4"	26,7	-	28,5	28,5	2,87	-	3,91	-	2,87	-	3,91	-	5,54	-	7,82	-
3/4" x 1/2"	26,7	21,3			2,87	2,77	3,91	3,73	2,87	2,77	3,91	3,73	5,54	4,75	7,82	7,47
3/4" x 3/8"	26,7	17,3	29,0	29,0	2,87	2,31	3,91	3,20	2,87	2,31	3,91	3,20	-	-	-	-
1"	33,4	-	38,1	38,1	3,38	-	4,55	-	3,38	-	4,55	-	6,35	-	9,09	-
1" x 3/4"	33,4	26,7			3,38	2,87	4,55	3,91	3,38	2,87	4,55	3,91	6,35	5,54	9,09	7,82
1" x 1/2"	33,4	21,3	47,6	47,6	3,38	2,77	4,55	3,73	3,38	2,77	4,55	3,73	6,35	4,75	9,09	7,47
1 1/4"	42,2	-			3,56	-	4,85	-	3,56	-	4,85	-	6,35	-	9,70	-
1 1/4" x 1"	42,2	33,4			3,56	3,38	4,85	4,55	3,56	3,38	4,85	4,55	6,35	6,35	9,70	9,09
1 1/4" x 3/4"	42,2	26,7			3,56	2,87	4,85	3,91	3,56	2,87	4,85	3,91	6,35	5,54	9,70	7,82
1 1/4" x 1/2"	42,2	21,3	57,1	57,1	3,56	2,77	4,85	3,73	3,56	2,77	4,85	3,73	6,35	4,75	9,70	7,47
1 1/2"	48,3	-			3,68	-	5,08	-	3,68	-	5,08	-	7,14	-	10,16	-
1 1/2" x 1 1/4"	48,3	42,2			3,68	3,56	5,08	4,85	3,68	3,56	5,08	4,85	7,14	6,35	10,16	9,70
1 1/2" x 1"	48,3	33,4			3,68	3,38	5,08	4,55	3,68	3,38	5,08	4,55	7,14	6,35	10,16	9,09
1 1/2" x 3/4"	48,3	26,7	63,5	63,5	3,68	2,87	5,08	3,91	3,68	2,87	5,08	3,91	7,14	5,54	10,16	7,82
1 1/2" x 1/2"	48,3	21,3			3,68	2,77	5,08	3,73	3,68	2,77	5,08	3,73	7,14	4,75	10,16	7,47
2"	60,3	-			3,91	-	5,54	-	3,91	-	5,54	-	8,74	-	11,07	-
2" x 1 1/2"	60,3	48,3			3,91	3,68	5,54	5,08	3,91	3,68	5,54	5,08	8,74	7,14	11,07	10,16
2" x 1 1/4"	60,3	42,2	76,2	76,2	3,91	3,56	5,54	4,85	3,91	3,56	5,54	4,85	8,74	6,35	11,07	9,70
2" x 1"	60,3	33,4			3,91	3,38	5,54	4,55	3,91	3,38	5,54	4,55	8,74	6,35	11,07	9,09
2" x 3/4"	60,3	26,7			3,91	2,87	5,54	3,91	3,91	2,87	5,54	3,91	8,74	5,54	11,07	7,82
2" x 1/2"	60,3	21,3			3,91	2,77	5,54	3,73	3,91	2,77	5,54	3,73	8,74	4,75	11,07	7,47
2 1/2"	73,0	-	85,7	85,7	5,16	-	7,01	-	5,16	-	7,01	-	9,52	-	14,02	-
2 1/2" x 2"	73,0	60,3			5,16	5,16	7,01	5,54	5,16	5,16	7,01	5,54	9,52	8,74	14,02	11,07
2 1/2" x 1 1/2"	73,0	48,3			5,16	3,68	7,01	5,08	5,16	3,68	7,01	5,08	9,52	7,14	14,02	10,16
2 1/2" x 1 1/4"	73,0	42,2			5,16	3,56	7,01	4,85	5,16	3,56	7,01	4,85	9,52	6,35	14,02	9,70
2 1/2" x 1"	73,0	33,4	85,7	85,7	5,16	3,38	7,01	4,55	5,16	3,38	7,01	4,55	9,52	6,35	14,02	9,09
3"	88,9	-			5,49	-	7,62	-	5,49	-	7,62	-	11,12	-	15,24	-
3" x 2 1/2"	88,9	73,0			5,49	5,16	7,62	7,01	5,49	5,16	7,62	7,01	11,12	9,52	15,24	14,02

Raccordi
Tee uguali e ridotti

Tolleranze dimensionali
Pezzi a tee con dimensioni o spessori particolari: a richiesta (-)



TEE UGUALI E RIDOTTI																
NPS	D mm	d mm	M mm	L mm	SCH. STD S	SCH. STD S _i	SCH. XS S	SCH. XS S _i	SCH. 40 S	SCH. 40 S _i	SCH. 80 S	SCH. 80 S _i	SCH. 160 S	SCH. 160 S _i	SCH. XXS S	SCH. XXS S _i
3" x 2"	88,9	60,3	85,7	76,2	5,49	3,91	7,62	5,54	5,49	3,91	7,62	5,54	11,12	8,74	15,24	11,07
3" x 1 1/2"	88,9	48,3		73,0	5,49	3,68	7,62	5,08	5,49	3,68	7,62	5,08	11,12	7,14	15,24	10,16
3" x 1 1/4"	88,9	42,2		69,9	5,49	3,56	7,62	4,85	5,49	3,56	7,62	4,85	11,12	6,35	15,24	9,70
3" x 1"	88,9	33,4		65,9	5,49	3,38	7,62	4,55	5,49	3,38	7,62	4,55	11,12	6,35	15,24	9,09
3 1/2"	101,6	-	95,2	95,2	5,74	-	8,08	-	5,74	-	8,08	-	-	-	-	-
3 1/2" x 3"	101,6	88,9	95,2	92,0	5,74	5,49	8,08	7,62	5,74	5,49	8,08	7,62	-	-	-	-
3 1/2" x 2 1/2"	101,6	73,0		89,0	5,74	5,16	8,08	7,01	5,74	5,16	8,08	7,01	-	-	-	-
3 1/2" x 2"	101,6	60,3		83,0	5,74	3,19	8,08	5,54	5,74	3,91	8,08	5,54	-	-	-	-
3 1/2" x 1 1/2"	101,6	48,3		79,0	5,74	3,68	8,08	5,08	5,74	3,68	8,08	5,08	-	-	-	-
4"	114,3	-	104,8	104,8	6,02	-	8,56	-	6,02	-	8,56	-	13,49	-	17,12	-
4" x 3 1/2"	114,3	101,6		101,6	6,02	5,74	8,56	8,08	6,02	5,74	8,56	8,08	-	-	-	-
4" x 3"	114,3	88,9		98,4	6,02	5,49	8,56	7,62	6,02	5,49	8,56	7,62	13,49	11,12	17,12	15,24
4" x 2 1/2"	114,3	73,0		95,2	6,02	5,16	8,56	7,01	6,02	5,16	8,56	7,01	13,49	9,52	17,12	14,02
4" x 2"	114,3	60,3		88,9	6,02	3,91	8,56	5,54	6,02	3,91	8,56	5,54	13,49	8,74	17,12	11,07
4" x 1 1/2"	114,3	48,3		85,7	6,02	3,68	8,56	5,08	6,02	3,68	8,56	5,08	13,49	7,14	17,12	10,16
4" x 1 1/4"	114,3	42,2		83,7	6,02	3,56	8,56	4,85	6,02	3,56	8,56	4,85	13,49	6,35	17,12	9,70
4" x 1"	114,3	33,4		78,6	6,02	3,38	8,56	4,55	6,02	3,38	8,56	4,55	13,49	6,35	17,12	9,09
5"	141,3	-	123,8	123,8	6,55	-	9,52	-	6,55	-	9,52	-	15,87	-	19,05	-
5" x 4"	141,3	114,3		117,4	6,55	6,02	9,52	8,56	6,55	6,02	9,52	8,56	15,87	13,49	19,05	17,12
5" x 3 1/2"	141,3	101,6		114,3	6,55	5,74	9,52	8,08	6,55	5,74	9,52	8,08	-	-	-	-
5" x 3"	141,3	88,9		111,1	6,55	5,49	9,52	7,62	6,55	5,49	9,52	7,62	15,87	11,12	19,05	15,24
5" x 2 1/2"	141,3	73,0		107,9	6,55	5,16	9,52	7,01	6,55	5,16	9,52	7,01	15,87	9,52	19,05	14,02
5" x 2"	141,3	60,3	142,8	104,7	6,55	3,91	9,52	5,54	6,55	3,91	9,52	5,54	15,87	8,74	19,05	11,07
6"	168,3	-		142,8	7,11	-	10,97	-	7,11	-	10,97	-	18,24	-	21,94	-
6" x 5"	168,3	141,3		136,5	7,11	6,55	10,97	9,52	7,11	6,55	10,97	9,52	18,24	15,87	21,94	19,05
6" x 4"	168,3	114,3		130,1	7,11	6,02	10,97	8,56	7,11	6,02	10,97	8,56	18,24	13,49	21,94	17,12
6" x 3 1/2"	168,3	101,6		127,0	7,11	5,74	10,97	8,08	7,11	5,74	10,97	8,08	-	-	-	-
6" x 3"	168,3	88,9	177,8	123,8	7,11	5,49	10,97	7,62	7,11	5,49	10,97	7,62	18,24	11,12	21,94	15,24
6" x 2 1/2"	168,3	73,0		120,6	7,11	5,16	10,97	7,01	7,11	5,16	10,97	7,01	18,24	9,52	21,94	14,02
6" x 2"	168,3	60,3		115,9	7,11	3,91	10,97	5,54	7,11	3,91	10,97	5,54	18,24	8,74	21,94	11,07
8"	219,1	-		177,8	8,18	-	12,70	-	8,18	-	12,70	-	23,01	-	22,22	-
8" x 6"	219,1	168,3	215,9	168,2	8,18	7,11	12,70	10,97	8,18	7,11	12,70	10,97	23,01	18,24	22,22	21,94
8" x 5"	219,1	141,3		161,9	8,18	6,55	12,70	9,52	8,18	6,55	12,70	9,52	23,01	15,87	22,22	19,05
8" x 4"	219,1	114,3		155,5	8,18	6,02	12,70	8,56	8,18	6,02	12,70	8,56	23,01	13,49	22,22	17,12
8" x 3 1/2"	219,1	101,6		152,4	8,18	5,74	12,70	8,08	8,18	5,74	12,70	8,08	-	-	-	-
8" x 3"	219,1	88,9	215,9	150,8	8,18	5,49	12,70	7,62	8,18	5,49	12,70	7,62	23,01	11,12	22,22	15,24
10"	273,0	-		215,9	9,27	-	12,70	-	9,27	-	15,06	-	28,57	-	25,40	-
10" x 8"	273,0	219,1		203,2	9,27	8,18	12,70	12,70	9,27	8,18	15,06	12,70	28,57	23,01	25,40	22,22
10" x 6"	273,0	168,3		193,7	9,27	7,11	12,70	10,97	9,27	7,11	15,06	10,97	28,57	18,24	25,40	21,94
10" x 5"	273,0	141,3		190,5	9,27	6,55	12,70	9,52	9,27	6,55	15,06	9,52	28,57	15,87	25,40	19,05</

Raccordi
Tee uguali e ridotti

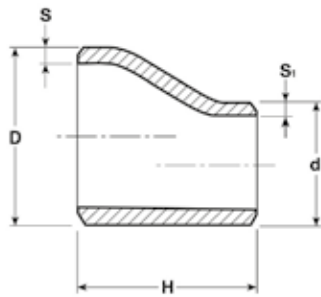
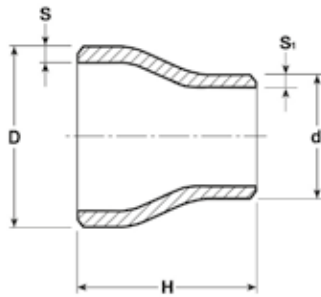
Tolleranze dimensionali
Pezzi a tee con dimensioni o spessori particolari: a richiesta (-)



TEE UGUALI E RIDOTTI										
NPS	D mm	d mm	M mm	L mm	SCH. STD S	SCH. STD S _i	SCH. XS S	SCH. XS S _i	SCH. 40 S	SCH. 40 S _i
12"	323,8	-	254,0	254,0	9,52	-	12,70	-	10,31	-
12" x 10"	323,8	273,0		241,3	9,52	9,27	12,70	12,70	10,31	9,27
12" x 8"	323,8	219,1		228,6	9,52	8,18	12,70	12,70	10,31	8,18
12" x 6"	323,8	168,3		219,1	9,52	7,11	12,70	10,97	10,31	7,11
12" x 5"	323,8	141,3		215,9	9,52	6,55	12,70	9,52	10,31	6,55
12" x 4"	323,8	114,3		214,1	9,52	6,02	12,70	8,56	10,31	6,02
14"	355,6	-	279,4	279,4	9,52	-	12,70	-	11,12	-
14" x 12"	355,6	323,8		269,9	9,52	9,52	12,70	12,70	11,12	10,31
14" x 10"	355,6	273,0		257,2	9,52	9,27	12,70	12,70	11,12	9,27
14" x 8"	355,6	219,1		247,7	9,52	8,18	12,70	12,70	11,12	8,18
14" x 6"	355,6	168,3		238,1	9,52	7,11	12,70	10,97	11,12	7,11
16"	406,4	-	304,9	304,9	9,52	-	12,70	-	12,70	-
16" x 14"	406,4	355,6		304,9	9,52	9,52	12,70	12,70	12,70	11,12
16" x 12"	406,4	323,8		295,6	9,52	9,52	12,70	12,70	12,70	10,31
16" x 10"	406,4	273,0		282,6	9,52	9,27	12,70	12,70	12,70	9,27
16" x 8"	406,4	219,1		273,1	9,52	8,18	12,70	12,70	12,70	8,18
16" x 6"	406,4	168,3		263,5	9,52	7,11	12,70	10,97	12,70	7,11
18"	457,2	-	342,9	342,9	9,52	-	12,70	-	14,27	-
18" x 16"	457,2	406,4		330,2	9,52	9,52	12,70	12,70	14,27	12,70
18" x 14"	457,2	355,6		330,2	9,52	9,52	12,70	12,70	14,27	11,12
18" x 12"	457,2	323,8		320,7	9,52	9,52	12,70	12,70	14,27	10,31
18" x 10"	457,2	273,0		308,0	9,52	9,27	12,70	12,70	14,27	9,27
18" x 8"	457,2	219,1		298,5	9,52	8,18	12,70	12,70	14,27	8,18
20"	508,0	-	381,0	381,0	9,52	-	12,70	-	15,06	-
20" x 18"	508,0	457,2		368,3	9,52	9,52	12,70	12,70	15,06	14,27
20" x 16"	508,0	406,4		355,6	9,52	9,52	12,70	12,70	15,06	12,70
20" x 14"	508,0	355,6		355,6	9,52	9,52	12,70	12,70	15,06	11,12
20" x 12"	508,0	323,8		346,1	9,52	9,52	12,70	12,70	15,06	10,31
20" x 10"	508,0	273,0		333,4	9,52	9,27	12,70	12,70	15,06	9,27
22"	558,8	-	419,1	419,1	9,52	-	12,70	-	-	-
22" x 20"	558,8	508,0		406,4	9,52	9,52	12,70	12,70	-	-
22" x 18"	558,8	457,2		393,7	9,52	9,52	12,70	12,70	-	-
22" x 16"	558,8	406,4		381,0	9,52	9,52	12,70	12,70	-	-
22" x 14"	558,8	355,6		381,0	9,52	9,52	12,70	12,70	-	-
22" x 12"	558,8	323,8		371,5	9,52	9,52	12,70	12,70	-	-

Raccordi
Riduzioni concentriche ed eccentriche

Riduzioni con dimensioni o spessori particolari: a richiesta (-)



RIDUZIONI CONCENTRICHE ED ECCENTRICHE															
NPS	D mm	d mm	H mm	SCH. STD S	SCH. STD S _i	SCH. XS S	SCH. XS S _i	SCH. 40 S	SCH. 40 S _i	SCH. 80 S	SCH. 80 S _i	SCH. 160 S	SCH. 160 S _i	SCH. XXS S	SCH. XXS S _i
3/4" x 1/2"	26,7	21,3	38,0	2,87	2,77	3,91	3,73	2,87	2,77	3,91	3,73	5,54	4,75	7,82	7,47
3/4" x 3/8"	26,7	17,3		2,87	2,31	3,91	3,20	2,87	2,31	3,91	3,20	-	-	-	-
1" x 3/4"	33,4	26,7	51,0	3,38	2,87	4,55	3,91	3,38	2,87	4,55	3,91	6,35	5,54	9,09	7,82
1" x 1/2"	33,4	21,3		3,38	2,77	4,55	3,73	3,38	2,77	4,55	3,73	6,35	4,75	9,09	7,47
1 1/4" x 1"	42,2	33,4		3,56	3,38	4,85	4,55	3,56	3,38	4,85	4,55	6,35	6,35	9,70	9,09
1 1/4" x 3/4"	42,2	26,7	64,0	3,56	2,87	4,85	3,91	3,56	2,87	4,85	3,91	6,35	5,54	9,70	7,82
1 1/4" x 1/2"	42,2	21,3		3,56	2,77	4,85	3,73	3,56	2,77	4,85	3,73	6,35	4,75	9,70	7,47
1 1/2" x 1 1/4"	48,3	42,2		3,68	3,56	5,08	4,85	3,68	3,56	5,08	4,85	7,14	6,35	10,16	9,70
1 1/2" x 1"	48,3	33,4		3,68	3,38	5,08	4,55	3,68	3,38	5,08	4,55	7,14	6,35	10,16	9,09
1 1/2" x 3/4"	48,3	26,7	76,0	3,68	2,87	5,08	3,91	3,68	2,87	5,08	3,91	7,14	5,54	10,16	7,82
1 1/2" x 1/2"	48,3	21,3		3,68	2,77	5,08	3,73	3,68	2,77	5,08	3,73	7,14	4,75	10,16	7,47
2" x 1 1/2"	60,3	48,3		3,91	3,68	5,54	5,08	3,91	3,68	5,54	5,08	8,74	7,14	11,07	10,16
2" x 1 1/4"	60,3	42,2		3,91	3,56	5,54	4,85	3,91	3,56	5,54	4,85	8,74	6,35	11,07	9,70
2" x 1"	60,3	33,4		3,91	3,38	5,54	4,55	3,91	3,38	5,54	4,55	8,74	6,35	11,07	9,09
2" x 3/4"	60,3	26,7	89,0	3,91	2,87	5,54	3,91	3,91	2,87	5,54	3,91	8,74	5,54	11,07	7,82
2" x 1/2"	60,3	21,3		3,91	2,77	5,54	3,73	3,91	2,77	5,54	3,73	8,74	4,75	11,07	7,47
2 1/2" x 2"	73,0	60,3		5,16	3,91	7,01	5,54	5,16	3,91	7,01	5,54	9,52	8,74	14,02	11,07
2 1/2" x 1 1/2"	73,0	48,3		5,16	3,68	7,01	5,08	5,16	3,68	7,01	5,08	9,52	7,14	14,02	10,16
2 1/2" x 1 1/4"	73,0	42,2		5,16	3,56	7,01	4,85	5,16	3,56	7,01	4,85	9,52	6,35	14,02	9,70
2 1/2" x 1"	73,0	33,4		5,16	3,38	7,01	4,55	5,16	3,38	7,01	4,55	9,52	6,35	14,02	9,09
3" x 2 1/2"	88,9	73,0	89,0	5,49	5,16	7,62	7,01	5,49	5,16	7,62	7,01	11,12	9,52	15,24	14,02
3" x 2"	88,9	60,3		5,49	3,91	7,62	5,54	5,49	3,91	7,62	5,54	11,12	8,74	15,24	11,07
3" x 1 1/2"	88,9	48,3		5,49	3,68	7,62	5,08	5,49	3,68	7,62	5,08	11,12	7,14	15,24	10,16
3" x 1 1/4"	88,9	42,2		5,49	3,56	7,62	4,85	5,49	3,56	7,62	4,85	11,12	6,35	15,24	9,70
3" x 1"	88,9	33,4		5,49	3,38	7,62	4,55	5,49	3,38	7,62	4,55	11,12	6,35	15,24	9,09
3 1/2" x 3"	101,6	88,9	102,0	5,74	5,49	8,08	7,62	5,74	5,49	8,08	7,62	-	-	-	-
3 1/2" x 2 1/2"	101,6	73,0		5,74	5,16	8,08	7,01	5,74	5,16	8,08	7,01	-	-	-	-
3 1/2" x 2"	101,6	60,3		5,74	3,91	8,08	5,54	5,74	3,91	8,08	5,54	-	-	-	-
3 1/2" x 1 1/2"	101,6	48,3		5,74	3,68	8,08	5,08	5,74	3,68	8,08	5,08	-	-	-	-
3 1/2" x 1 1/4"	101,6	42,2		5,74	3,56	8,08	4,85	5,74	3,56	8,08	4,85	-	-	-	-
4" x 3 1/2"	114,3	101,6		6,02	5,74	8,56	8,08	6,02	5,74	8,56	8,08	-	-	-	-

Raccordi
Riduzioni concentriche ed eccentriche

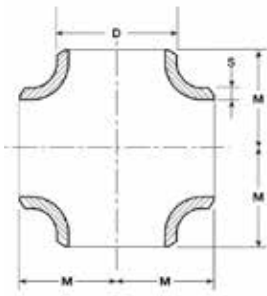
Riduzioni con dimensioni o spessori particolari: a richiesta (-)



RIDUZIONI CONCENTRICHE ED ECCENTRICHE															
NPS	D mm	d mm	H mm	SCH. STD S	SCH. STD S ₁	SCH. XS S	SCH. XS S ₁	SCH. 40 S	SCH. 40 S ₁	SCH. 80 S	SCH. 80 S ₁	SCH. 160 S	SCH. 160 S ₁	SCH. XXS S	SCH. XXS S ₁
4" x 3"	114,3	88,9	102,0	6,02	5,49	8,56	7,62	6,02	5,49	8,56	7,62	13,49	11,12	17,12	15,24
4" x 2 1/2"	114,3	73,0		6,02	5,16	8,56	7,01	6,02	5,16	8,56	7,01	13,49	9,52	17,12	14,02
4" x 2"	114,3	60,3		6,02	3,91	8,56	5,54	6,02	3,91	8,56	5,54	13,49	8,74	17,12	11,07
4" x 1 1/2"	114,3	48,3		6,02	3,68	8,56	5,08	6,02	3,68	8,56	5,08	13,49	7,14	17,12	10,16
4" x 1 1/4"	114,3	42,2		6,02	3,56	8,56	4,85	6,02	3,56	8,56	4,85	13,49	6,35	17,12	9,70
4" x 1"	114,3	33,4	102,0	6,02	3,38	8,56	4,55	6,02	3,38	8,56	4,55	13,49	6,35	17,12	9,09
5" x 4"	141,3	114,3	127,0	6,55	6,02	9,52	8,56	6,55	6,02	9,52	8,56	15,87	13,49	19,05	17,12
5" x 3 1/2"	141,3	101,6		6,55	5,74	9,52	8,08	6,55	5,74	9,52	8,08	-	-	-	-
5" x 3"	141,3	88,9		6,55	5,49	9,52	7,62	6,55	5,49	9,52	7,62	15,87	11,12	19,05	15,24
5" x 2 1/2"	141,3	73,0		6,55	5,16	9,52	7,01	6,55	5,16	9,52	7,01	15,87	9,52	19,05	14,02
5" x 2"	141,3	60,3		6,55	3,91	9,52	5,54	6,55	3,91	9,52	5,54	15,87	8,74	19,05	11,07
6" x 5"	168,3	141,3	140,0	7,11	6,55	10,97	9,52	7,11	6,55	10,97	9,52	18,24	15,87	21,94	19,05
6" x 4"	168,3	114,3		7,11	6,02	10,97	8,56	7,11	6,02	10,97	8,56	18,24	13,49	21,94	17,12
6" x 3 1/2"	168,3	101,6		7,11	5,74	10,97	8,08	7,11	5,74	10,97	8,08	-	-	-	-
6" x 3"	168,3	88,9		7,11	5,49	10,97	7,62	7,11	5,49	10,97	7,62	18,24	11,12	21,94	15,24
6" x 2 1/2"	168,3	73,0		7,11	5,16	10,97	7,01	7,11	5,16	10,97	7,01	18,24	9,52	21,94	14,02
6" x 2"	168,3	60,3	152,0	7,11	3,91	10,97	5,54	7,11	3,91	10,97	5,54	18,24	8,74	21,94	11,07
8" x 6"	219,1	168,3		8,18	7,11	12,70	10,97	8,18	7,11	12,70	10,97	23,01	18,24	22,22	21,94
8" x 5"	219,1	141,3		8,18	6,55	12,70	9,52	8,18	6,55	12,70	9,52	23,01	15,87	22,22	19,05
8" x 4"	219,1	114,3		8,18	6,02	12,70	8,56	8,18	6,02	12,70	8,56	23,01	13,49	22,22	17,12
8" x 3 1/2"	219,1	101,6		8,18	5,74	12,70	8,08	8,18	5,74	12,70	8,08	-	-	-	-
8" x 3"	219,1	88,9	178,0	8,18	5,49	12,70	7,62	8,18	5,49	12,70	7,62	23,01	11,12	22,22	15,24
10" x 8"	273,0	219,1		9,27	8,18	12,70	12,70	9,27	8,18	15,06	12,70	28,57	23,01	25,40	22,22
10" x 6"	273,0	168,3		9,27	7,11	12,70	10,97	9,27	7,11	15,06	10,97	28,57	18,24	25,40	21,94
10" x 5"	273,0	141,3		9,27	6,55	12,70	9,52	9,27	6,55	15,06	9,52	28,57	15,87	25,40	19,05
10" x 4"	273,0	114,3		9,27	6,02	12,70	8,56	9,27	6,02	15,06	8,56	28,57	13,49	25,40	17,12
12" x 10"	323,8	273,0	203,0	9,52	9,27	12,70	12,70	10,31	9,27	17,45	15,06	33,32	28,57	25,40	25,40
12" x 8"	323,8	219,1		9,52	8,18	12,70	12,70	10,31	8,18	17,45	12,70	33,32	23,01	25,40	22,22
12" x 6"	323,8	168,3		9,52	7,11	12,70	10,97	10,31	7,11	17,45	10,97	33,32	18,24	25,40	21,94
12" x 5"	323,8	141,3		9,52	6,55	12,70	9,52	10,31	6,55	17,45	9,52	33,32	15,87	25,40	19,05
12" x 4"	323,8	114,3		9,52	6,02	12,70	8,56	10,31	6,02	17,45	8,56	33,32	13,49	25,40	17,12
14" x 12"	355,6	323,8	330,0	9,52	9,52	12,70	12,70	11,12	10,31	19,05	17,45	35,71	33,32	-	-
14" x 10"	355,6	273,0		9,52	9,27	12,70	12,70	11,12	9,27	19,05	15,06	35,71	28,57	-	-
14" x 8"	355,6	219,1		9,52	8,18	12,70	12,70	11,12	8,18	19,05	12,70	35,71	23,01	-	-
14" x 6"	355,6	168,3		9,52	7,11	12,70	10,97	11,12	7,11	19,05	10,97	35,71	18,24	-	-
16" x 14"	406,4	355,6		9,52	9,52	12,70	12,70	12,70	11,12	21,41	19,05	40,46	35,71	-	-
16" x 12"	406,4	323,8	356,0	9,52	9,52	12,70	12,70	12,70	10,31	21,41	17,45	40,46	33,32	-	-
16" x 10"	406,4	273,0		9,52	9,27	12,70	12,70	12,70	9,27	21,41	15,06	40,46	28,57	-	-
16" x 8"	406,4	219,1		9,52	8,18	12,70	12,70	12,70	8,18	21,41	12,70	40,46	23,01	-	-
16" x 6"	406,4	168,3		9,52	7,11	12,70	10,97	12,70	7,11	21,41	10,97	40,46	18,24	-	-
18" x 16"	457,2	406,4	381,0	9,52	9,52	12,70	12,70	14,27	12,70	23,80	21,41	45,24	40,46	-	-

Raccordi
Croci

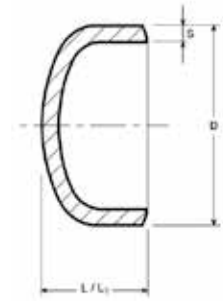
Pezzi a croce ridotti o con dimensioni o spessori particolari: a richiesta (-)



CROCI							
NPS	D mm	M mm	SCH. STD	SCH. XS	SCH. 40	SCH. 160	SCH. XXS
1/2"	21,3	25,0	2,77	3,73	2,77	4,75	7,47
3/4"	26,7	28,5	2,87	3,91	2,87	5,54	7,82
1"	33,4	38,0	3,38	4,55	3,38	6,35	9,09
1 1/4"	42,2	48,0	3,56	4,85	3,56	6,35	9,70
1 1/2"	48,3	57,0	3,68	5,08	3,68	7,14	10,16
2"	60,3	64,0	3,91	5,54	3,91	8,74	11,07
2 1/2"	73,0	76,0	5,16	7,01	5,16	9,52	14,02
3"	88,9	86,0	5,49	7,62	5,49	11,12	15,24
3 1/2"	101,6	95,0	5,74	8,08	5,74	-	-
4"	114,3	105,0	6,02	8,56	6,02	13,49	17,12
5"	141,3	124,0	6,55	9,52	6,55	15,87	19,05
6"	168,3	143,0	7,11	10,97	7,11	18,24	21,94
8"	219,1	178,0	8,18	12,70	8,18	23,01	22,22
10"	273,0	216,0	9,27	12,70	9,27	28,57	25,40
12"	323,8	254,0	9,52	12,70	10,31	33,32	25,40
14"	355,6	279,0	9,52	12,70	11,12	35,71	-
16"	406,4	305,0	9,52	12,70	12,70	40,46	-
18"	457,2	343,0	9,52	12,70	14,27	45,24	-
20"	508,0	381,0	9,52	12,70	15,06	49,99	-
22"	558,8	419,0	9,52	12,70	-	53,98	-
24"	609,6	431,8	9,52	12,70	17,45	59,51	-
26"	660,4	495,0	9,52	12,70	-	-	-
28"	711,2	521,0	9,52	12,70	-	-	-
30"	762,0	559,0	9,52	12,70	-	-	-
32"	812,8	597,0	9,52	12,70	17,48	-	-
34"	863,6	635,0	9,52	12,70	17,48	-	-
36"	914,4	673,0	9,52	12,70	19,05	-	-
38"	965,2	711,0	9,52	12,70	-	-	-
40"	1016,0	749,0	9,52	12,70	-	-	-
42"	1066,8	711,0	9,52	12,70	-	-	-
44"	1118,0	762,0	9,52	12,70	-	-	-
46"	1168,4	800,0	9,52	12,70	-	-	-
48"	1219,2	838,0	9,52	12,70	-	-	-

Raccordi
Fondelli ASME

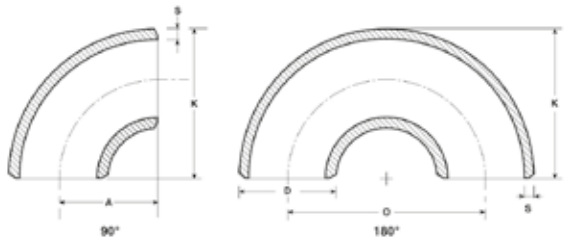
L per spessori fino a XS - L₁ per spessori oltre XS
Spessori o dimensioni particolari: a richiesta (-)



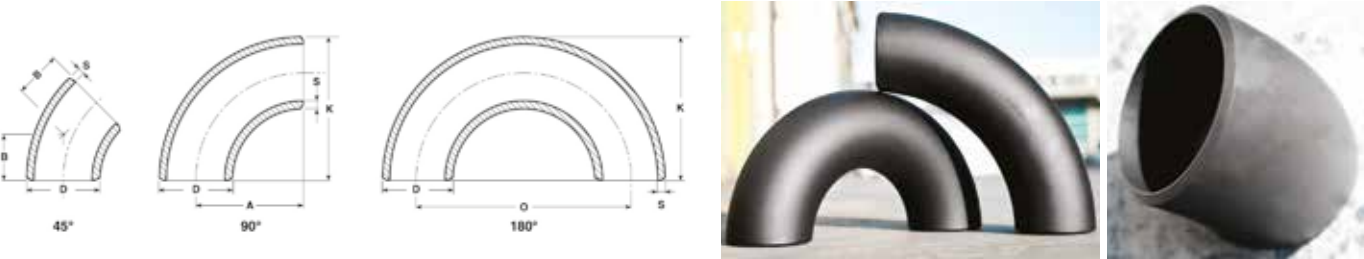
FONDELLI ASME								
NPS	D mm	L mm	L ₁ mm	SCH. STD	SCH. XS	SCH. 40	SCH. 160	SCH. XXS
1/2"	21,3	25,9	25,9	2,77	3,73	2,77	4,75	7,47
3/4"	26,7	25,9	25,9	2,87	3,91	2,87	5,54	7,82
1"	33,4	38,1	38,1	3,38	4,55	3,38	6,35	9,09
1 1/4"	42,2	38,1	38,1	3,56	4,85	3,56	6,35	9,70
1 1/2"	48,3	38,1	38,1	3,68	5,08	3,68	7,14	10,16
2"	60,3	38,1	44,4	3,91	5,54	3,91	8,74	11,07
2 1/2"	73,0	38,1	50,8	5,16	7,01	5,16	9,52	14,02
3"	88,9	50,8	63,5	5,49	7,62	5,49	11,12	15,24
3 1/2"	101,6	63,5	76,2	5,74	8,08	5,74	-	-
4"	114,3	63,5	76,2	6,02	8,56	6,02	13,49	17,12
5"	141,3	76,2	88,9	6,55	9,52	6,55	15,87	19,05
6"	168,3	88,9	101,6	7,11	10,97	7,11	18,24	21,94
8"	219,1	101,6	127,0	8,18	12,70	8,18	23,01	22,22
10"	273,0	127,0	152,4	9,27	12,70	9,27	28,57	25,40
12"	323,8	152,4	177,8	9,52	12,70	10,31	33,32	25,40
14"	355,6	165,1	190,5	9,52	12,70	11,12	35,71	-
16"	406,4	177,8	203,2	9,52	12,70	12,70	40,46	-
18"	457,2	203,2	228,6	9,52	12,70	14,27	45,24	-
20"	508,0	228,6	254,0	9,52	12,70	15,06	49,99	-
22"	558,8	254,0	254,0	9,52	12,70	-	53,98	-
24"	609,6	266,7	304,8	9,52	12,70	17,45	59,51	-
26"	660,4	266,7	-	9,52	12,70	-	-	-
28"	711,2	266,7	-	9,52	12,70	-	-	-
30"	762,0	266,7	-	9,52	12,70	-	-	-
32"	812,8	266,7	-	9,52	12,70	17,45	-	-
34"	863,6	266,7	-	9,52	12,70	17,45	-	-
36"	914,4	266,7	-	9,52	12,70	19,05	-	-
38"	965,2	305,0	-	9,52	12,70	-	-	-
40"	1016,0	305,0	-	9,52	12,70	-	-	-
42"	1066,8	305,0	-	9,52	12,70	-	-	-
44"	1118,0	343,0	-	9,52	12,70	-	-	-
46"	1168,4	343,0	-	9,52	12,70	-	-	-
48"	1219,2	343,0	-	9,52	12,70	-	-	-

Raccordi
Curve ASME B16.9 short radius (R=1 D)

Curve con dimensioni o spessori particolari: a richiesta (-)



CURVE ASME B16.9 SHORT RADIUS (R=1D)																	
NPS	A mm	O mm	K mm	D mm	SCH. STD	SCH. XS	SCH. 10	SCH. 20	SCH. 30	SCH. 40	SCH. 60	SCH. 80	SCH. 100	SCH. 120	SCH. 140	SCH. 160	SCH. XXS
1"	25,4	50,6	41,3	33,4	3,38	4,55	-	-	-	3,38	-	4,55	-	-	-	6,35	9,09
1 1/4"	31,8	63,5	52,4	42,2	3,56	4,85	-	-	-	3,56	-	4,85	-	-	-	6,35	9,70
1 1/2"	38,1	76,2	61,9	48,3	3,68	5,08	-	-	3,18	3,68	-	5,08	-	-	-	7,14	10,16
2"	50,8	101,6	81,0	60,3	3,91	5,54	-	-	3,18	3,91	-	5,54	-	-	-	8,74	11,07
2 1/2"	63,5	127,0	100,0	73,0	5,16	7,01	-	-	4,78	5,16	-	7,01	-	-	-	9,52	14,02
3"	76,2	152,4	120,6	88,9	5,49	7,62	-	-	4,78	5,49	-	7,62	-	-	-	11,12	15,24
3 1/2"	88,9	177,8	139,7	101,6	5,74	8,08	-	-	4,78	5,74	-	8,08	-	-	-	-	-
4"	101,6	203,2	158,8	114,3	6,02	8,56	-	-	4,78	6,02	-	8,56	-	11,12	-	13,49	17,12
5"	127,0	254,0	196,8	141,3	6,55	9,52	-	-	-	6,55	-	9,52	-	12,70	-	15,87	19,05
6"	152,4	304,8	237,0	168,3	7,11	10,97	-	-	-	7,11	-	10,97	-	14,27	-	18,24	21,94
8"	203,2	406,4	312,7	219,1	8,18	12,70	-	6,35	7,04	8,18	10,30	12,70	15,06	18,24	20,62	23,01	22,22
10"	254,0	508,0	390,5	273,0	9,27	12,70	-	6,35	7,80	9,27	12,70	15,06	18,24	21,41	25,40	28,57	25,40
12"	304,8	609,6	466,7	323,8	9,52	12,70	-	6,35	8,38	10,31	14,30	17,45	21,41	25,40	28,57	33,32	25,40
14"	355,6	711,2	533,4	355,6	9,52	12,70	6,35	7,92	9,52	11,12	15,10	19,05	23,80	27,76	31,75	35,71	-
16"	406,4	812,8	609,6	406,4	9,52	12,70	6,35	7,92	9,52	12,70	16,70	21,41	26,19	30,94	36,52	40,46	-
18"	457,2	914,4	685,8	457,2	9,52	12,70	6,35	7,92	11,12	14,27	19,05	23,80	29,36	34,92	39,67	45,24	-
20"	508,0	1016,0	762,0	508,0	9,52	12,70	6,35	9,52	12,70	15,06	20,60	26,19	32,54	38,10	44,45	49,99	-
22"	558,8	1117,6	838,2	558,8	9,52	12,70	6,35	9,52	12,70	-	22,23	28,58	34,93	41,28	47,63	53,98	-
24"	609,6	1219,0	914,0	609,6	9,52	12,70	6,35	9,52	14,25	17,45	24,60	30,94	38,89	46,02	52,37	59,51	-
26"	660,4	-	990,6	660,4	9,52	12,70	7,92	12,70	-	-	-	-	-	-	-	-	-
28"	711,2	-	1066,8	711,2	9,52	12,70	7,92	12,70	15,88	-	-	-	-	-	-	-	-
30"	762,0	-	1143,0	762,0	9,52	12,70	7,92	12,70	15,88	-	-	-	-	-	-	-	-
32"	812,8	-	1219,2	812,8	9,52	12,70	7,92	12,70	15,88	17,45	-	-	-	-	-	-	-
34"	863,8	-	1295,4	863,6	9,52	12,70	7,92	12,70	15,88	17,45	-	-	-	-	-	-	-
36"	914,4	-	1371,6	914,4	9,52	12,70	7,92	12,70	15,88	19,05	-	-	-	-	-	-	-
38"	965,0	-	1371,6	965,0	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-
40"	1016,0	-	1524,0	1016,0	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-
42"	1066,8	-	1600,0	1066,8	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-
44"	1118,0	-	1677,0	1118,0	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-
46"	1168,4	-	1753,0	1168,4	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-
48"	1219,2	-	1829,0	1219,2	9,52	12,70	-	-	-	-	-	-	-	-	-	-	-



CURVE ASME B16.9 LONG RADIUS (R=1,5 D)											
NPS	A mm	B mm	O mm	K mm	D mm	SCH. STD	SCH. XS	SCH. 40	SCH. 80	SCH. 160	SCH. XXS
1/2"	38,1	15,9	76,2	47,6	21,3	2,77	3,73	2,77	3,73	4,75	7,47
3/4"	38,1	19,1	76,2	50,9	26,7	2,87	3,91	2,87	3,91	5,54	7,82
3/4"	28,6*	11,1*	57,2*	42,9*	26,7	2,87	3,91	2,87	3,91	5,54	7,82
1"	38,1	22,2	76,2	55,6	33,4	3,38	4,55	3,38	4,55	6,35	9,09
1 1/4"	47,6	25,4	95,2	69,8	42,2	3,56	4,85	3,56	4,85	6,35	9,70
1 1/2"	57,2	28,6	114,3	82,5	48,3	3,68	5,08	3,68	5,08	7,14	10,16
2"	76,2	34,9	152,4	106,4	60,3	3,91	5,54	3,91	5,54	8,74	11,07
2 1/2"	95,2	44,4	190,5	131,8	73,0	5,16	7,01	5,16	7,01	9,52	14,02
3"	114,3	50,8	228,6	158,8	88,9	5,49	7,62	5,49	7,62	11,12	15,24
3 1/2"	133,4	57,2	266,7	184,2	101,6	5,74	8,08	5,74	8,08	-	-
4"	152,4	63,5	304,8	209,6	114,3	6,02	8,56	6,02	8,56	13,49	17,12
5"	190,5	79,4	381,0	261,9	141,3	6,55	9,52	6,55	9,52	15,87	19,05
6"	228,6	95,2	457,2	312,7	168,3	7,11	10,97	7,11	10,97	18,24	21,94
8"	304,8	127,0	609,6	414,3	219,1	8,18	12,70	8,18	12,70	23,01	22,22
10"	381,0	158,8	762,0	517,5	273,0	9,27	12,70	9,27	15,06	28,57	25,40
12"	457,2	190,5	914,4	619,1	323,8	9,52	12,70	10,31	17,45	33,32	25,40
14"	533,4	222,2	1066,8	711,2	355,6	9,52	12,70	11,12	19,05	35,71	-
16"	609,6	254,0	1219,2	812,8	406,4	9,52	12,70	12,70	21,41	40,46	-
18"	685,8	285,8	1371,6	914,4	457,2	9,52	12,70	14,27	23,80	45,24	-
20"	762,0	317,5	1524,0	1016,0	508,0	9,52	12,70	15,06	26,19	49,99	-
22"	838,2	342,9	1676,4	1117,6	558,8	9,52	12,70	-	28,58	53,98	-
24"	914,4	381,0	1828,8	1219,2	609,6	9,52	12,70	17,45	30,94	59,51	-
26"	990,6	406,0	-	1320,8	660,4	9,52	12,70	-	-	-	-
28"	1066,8	438,0	-	1422,4	711,2	9,52	12,70	-	-	-	-
30"	1143,0	470,0	-	1524,0	762,0	9,52	12,70	-	-	-	-
32"	1219,2	502,0	-	1625,6	812,8	9,52	12,70	17,45	-	-	-
34"	1295,4	533,0	-	1727,2	863,6	9,52	12,70	17,45	-	-	-
36"	1371,6	565,0	-	1828,8	914,4	9,52	12,70	19,05	-	-	-
38"	1448,0	600,0	-	1930,5	965,0	9,52	12,70	-	-	-	-
40"	1524,0	632,0	-	2032,0	1016,0	9,52	12,70	-	-	-	-
42"	1600,0	660,0	-	2134,0	1066,8	9,52	12,70	-	-	-	-
44"	1676,0	695,0	-	2235,0	1118,0	9,52	12,70	-	-	-	-
46"	1753,0	727,0	-	2336,0	1168,4	9,52	12,70	-	-	-	-
48"	1829,0	759,0	-	2438,0	1219,2	9,52	12,70	-	-	-	-

* a richiesta



Raccordi

Raccordi a saldare
in acciaio inossidabile



Raccordi - Raccordi a saldare

Curva 3D 90° da tubo saldato
spessore 2 mm



MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3 (DIN 2605)

CURVA 3D 90° DA TUBO SALDATO (SPESSORE 2 MM)				
DN pollici	DN	D mm	S mm	R mm
1/2"	15	21,3	2	28
3/4"	20	26,9	2	29
1"	25	33,7	2	38
1 1/4"	32	42,4	2	48
1 1/2"	40	48,3	2	57
2"	50	60,3	2	76
2 1/2"	65	76,1	2	95
3"	80	88,9	2	114
3 1/2"	90	101,6	2	133,5
4"	100	114,3	2	152
5"	125	139,7	2	190
6"	150	168,3	2	229
8"	200	219,1	2	305

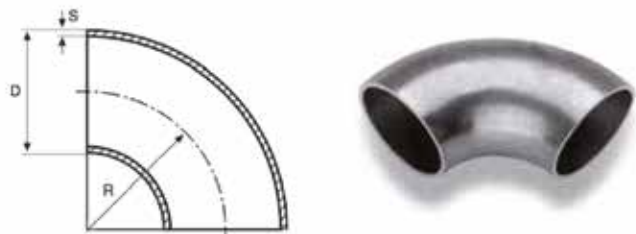


MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3 (DIN 2605)

CURVA 3D 90° DA TUBO SALDATO (SPESSORE 2 MM)				
DN pollici	DN	D mm	S mm	R mm
1/2"	15	21,3	2	28
3/4"	20	26,9	2	29
1"	25	33,7	2	38
1 1/4"	32	42,4	2	48
1 1/2"	40	48,3	2	57
2"	50	60,3	2	76
2 1/2"	65	76,1	2	95
3"	80	88,9	2	114
3 1/2"	90	101,6	2	133,5
4"	100	114,3	2	152
5"	125	139,7	2	190
6"	150	168,3	2	229
8"	200	219,1	2	305

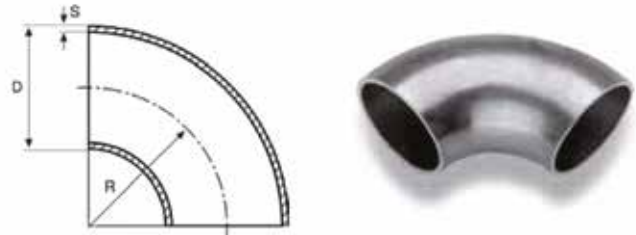
Raccordi - Raccordi a saldare

Curva 3D 90° da tubo saldato
spessore 3 mm



MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3 (DIN 2605)

CURVA 3D 90° DA TUBO SALDATO (SPESSORE 3 MM)				
DN pollici	DN	D mm	S mm	R mm
1"	25	33,7	3	38
1 1/4"	32	42,4	3	48
1 1/2"	40	48,3	3	57
2"	50	60,3	3	76
2 1/2"	65	76,1	3	95
3"	80	88,9	3	114
3 1/2"	90	101,6	3	133,5
4"	100	114,3	3	152
5"	125	139,7	3	190
6"	150	168,3	3	229
8"	200	219,1	3	305



MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3 (DIN 2605)

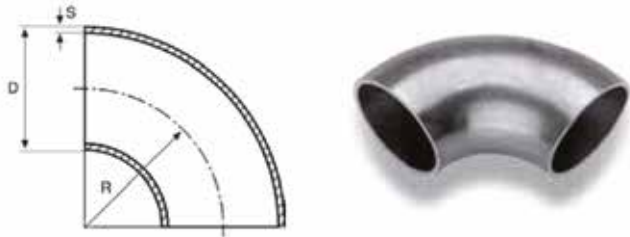
CURVA 3D 90° DA TUBO SALDATO (SPESSORE 3 MM)				
DN pollici	DN	D mm	S mm	R mm
1"	25	33,7	3	38
1 1/4"	32	42,4	3	48
1 1/2"	40	48,3	3	57
2"	50	60,3	3	76
2 1/2"	65	76,1	3	95
3"	80	88,9	3	114
3 1/2"	90	101,6	3	133,5
4"	100	114,3	3	152
5"	125	139,7	3	190
6"	150	168,3	3	229
8"	200	219,1	3	305

Raccordi - Raccordi a saldare

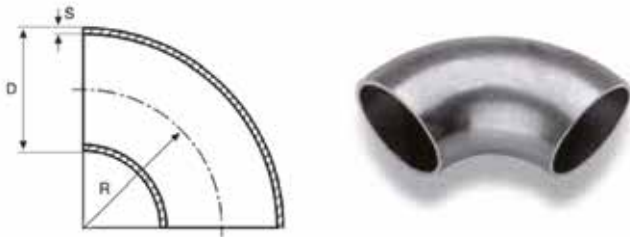
Curva metrica 90° da tubo saldato spessore 2 mm



MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3 (DIN 2605)



CURVA METRICA 90° DA TUBO SALDATO (SPESSORE 2 MM)		
D mm	S mm	R mm
20	2	30
25	2	37
30	2	45
38	2	55
40	2	60
44,5	2	65
50	2	71
54	2	80
57	2	85,5
70	2	92
84	2	125
104	2	155
108	2	142,5
129	2	190



MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3 (DIN 2605)

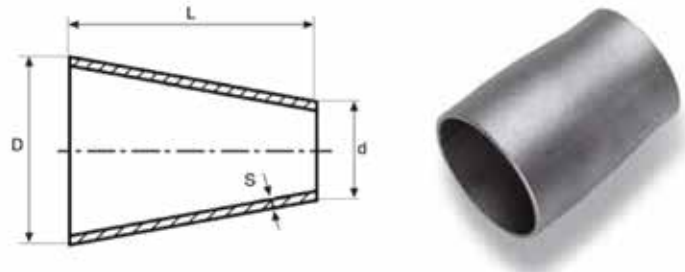
CURVA METRICA 90° DA TUBO SALDATO (SPESSORE 2 MM)		
D mm	S mm	R mm
20	2	30
25	2	37
30	2	45
38	2	55
40	2	60
44,5	2	65
50	2	71
54	2	80
57	2	85,5
70	2	92
84	2	125
104	2	155
108	2	142,5
129	2	190

Raccordi - Raccordi a saldare

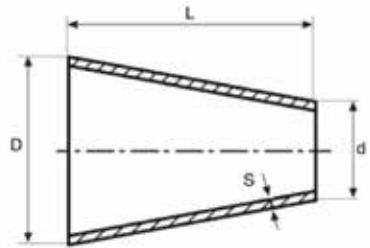
Riduzione concentrica da tubo saldato



MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3

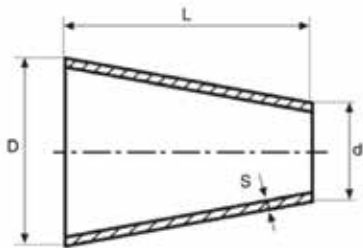


RIDUZIONE CONCENTRICA DA TUBO SALDATO (SPESSORE 2 MM)					
DN1	DN2	D mm	d mm	S mm	L mm
20	10	26,9	17,2	2	38
20	15	26,9	21,3	2	38
25	10	33,7	17,2	2	51
25	15	33,7	21,3	2	51
25	20	33,7	26,9	2	51
32	15	42,4	21,3	2	51
32	20	42,4	26,9	2	51
32	25	42,4	33,7	2	51
40	15	48,3	21,3	2	64
40	20	48,3	26,9	2	64
40	25	48,3	33,7	2	64
40	32	48,3	42,4	2	64
50	15	60,3	21,3	2	76
50	20	60,3	26,9	2	76
50	25	60,3	33,7	2	76
50	32	60,3	42,4	2	76
50	40	60,3	48,3	2	76
65	20	76,1	26,9	2	89
65	25	76,1	33,7	2	89
65	32	76,1	42,4	2	89
65	40	76,1	48,3	2	89
65	50	76,1	60,3	2	89
80	25	88,9	33,7	2	89
80	32	88,9	42,4	2	89
80	40	88,9	48,3	2	89



MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3

RIDUZIONE CONCENTRICA DA TUBO SALDATO (SPESSORE 2 MM)					
DN1	DN2	D mm	d mm	S mm	L mm
80	50	88,9	60,3	2	89
80	65	88,9	76,1	2	89
100	25	114,3	33,7	2	102
100	32	114,3	42,4	2	102
100	40	114,3	48,3	2	102
100	50	114,3	60,3	2	102
100	65	114,3	76,1	2	102
100	80	114,3	88,9	2	102
125	50	139,7	60,3	2	127
125	65	139,7	76,1	2	127
125	80	139,7	88,9	2	127
125	90	139,7	101,6	2	127
125	100	139,7	114,3	2	127
150	50	168,3	60,3	2	140
150	65	168,3	76,1	2	140
150	80	168,3	88,9	2	140
150	100	168,3	114,3	2	140
150	125	168,3	139,7	2	140
200	80	219,1	88,9	2	152
200	100	219,1	114,3	2	152
200	125	219,1	139,7	2	152
200	150	219,1	168,3	2	152
250	125	273	139,7	2	178
250	150	273	168,3	2	178
250	200	273	219,1	2	178

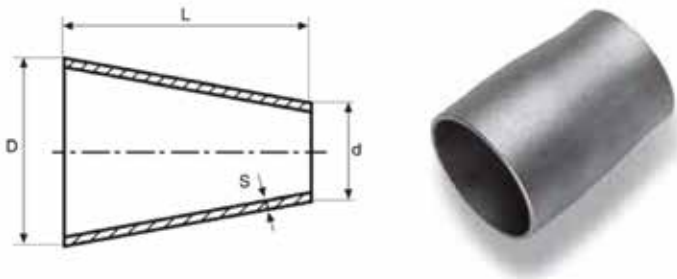


MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3

RIDUZIONE CONCENTRICA DA TUBO SALDATO (SPESSORE 2 MM)					
DN1	DN2	D mm	d mm	S mm	L mm
20	10	26,9	17,2	2	38
20	15	26,9	21,3	2	38
25	10	33,7	17,2	2	51
25	15	33,7	21,3	2	51
25	20	33,7	26,9	2	51
32	15	42,4	21,3	2	51
32	20	42,4	26,9	2	51
32	25	42,4	33,7	2	51
40	15	48,3	21,3	2	64
40	20	48,3	26,9	2	64
40	25	48,3	33,7	2	64
40	32	48,3	42,4	2	64
50	15	60,3	21,3	2	76
50	20	60,3	26,9	2	76
50	25	60,3	33,7	2	76
50	32	60,3	42,4	2	76
50	40	60,3	48,3	2	76
65	20	76,1	26,9	2	89
65	25	76,1	33,7	2	89
65	32	76,1	42,4	2	89
65	40	76,1	48,3	2	89
65	50	76,1	60,3	2	89
80	25	88,9	33,7	2	89
80	32	88,9	42,4	2	89
80	40	88,9	48,3	2	89

Raccordi - Raccordi a saldare

Riduzione concentrica da tubo saldato

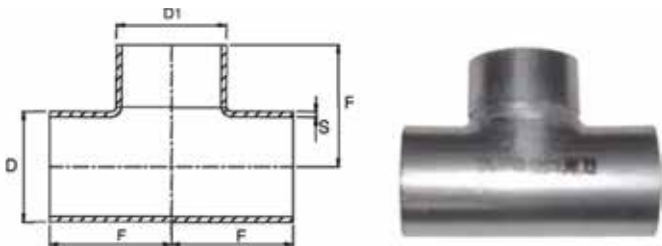


MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3

RIDUZIONE CONCENTRICA DA TUBO SALDATO (SPESSORE 2 MM)					
DN1	DN2	D mm	d mm	S mm	L mm
80	50	88,9	60,3	2	89
80	65	88,9	76,1	2	89
100	25	114,3	33,7	2	102
100	32	114,3	42,4	2	102
100	40	114,3	48,3	2	102
100	50	114,3	60,3	2	102
100	65	114,3	76,1	2	102
100	80	114,3	88,9	2	102
125	50	139,7	60,3	2	127
125	65	139,7	76,1	2	127
125	80	139,7	88,9	2	127
125	90	139,7	101,6	2	127
125	100	139,7	114,3	2	127
150	50	168,3	60,3	2	140
150	65	168,3	76,1	2	140
150	80	168,3	88,9	2	140
150	100	168,3	114,3	2	140
150	125	168,3	139,7	2	140
200	80	219,1	88,9	2	152
200	100	219,1	114,3	2	152
200	125	219,1	139,7	2	152
200	150	219,1	168,3	2	152
250	125	273	139,7	2	178
250	150	273	168,3	2	178
250	200	273	219,1	2	178

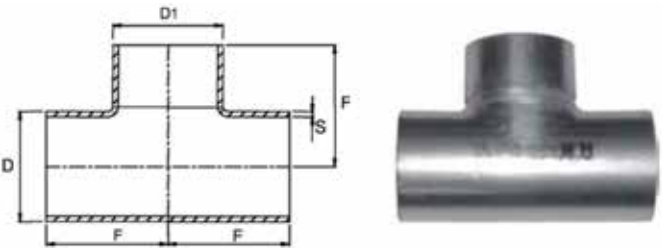
Raccordi - Raccordi a saldare

TEE normali



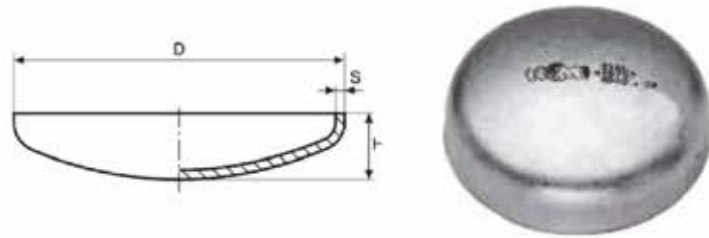
MATERIALE: AISI 304L / W.1.4307
NORMA: EN 10253-3

TEE NORMALI (SPESSORE 2 MM)			
DN	D - D1 mm	S mm	F mm
15 (1/2")	21,3	2	25
20 (3/4")	26,9	2	28
25 (1")	33,7	2	38
32 (1 1/4")	42,4	2	47
40 (1 1/2")	48,3	2	57
50 (2")	60,3	2	63
65 (2 1/2")	76,1	2	76
80 (3")	88,9	2	85
100 (4")	114,3	2	105
125 (5")	139,7	2	124
150 (6")	168,3	2	143
200 (8")	219,1	2	178



MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3

TEE NORMALI (SPESSORE 2 MM)			
DN	D - D1 mm	S mm	F mm
15 (1/2")	21,3	2	25
20 (3/4")	26,9	2	38
25 (1")	33,7	2	28
32 (1 1/4")	42,4	2	47
40 (1 1/2")	48,3	2	57
50 (2")	60,3	2	63
65 (2 1/2")	76,1	2	76
80 (3")	88,9	2	85
100 (4")	114,3	2	105
125 (5")	139,7	2	124
150 (6")	168,3	2	143
200 (8")	219,1	2	178



MATERIALE: AISI 316L / W.1.4404
NORMA: EN 10253-3

FONDELLO BOMBATO (SPESSORE 2 MM)				
DN pollici	DN	D mm	S mm	H mm
1/2"	15	21,3	2	15
3/4"	20	26,9	2	14
1"	25	33,7	2	17
1 1/4"	32	42,4	2	19
1 1/2"	40	48,3	2	20
2"	50	60,3	2	22
2 1/2"	65	76,1	2	25
3"	80	88,9	2	28
3 1/2"	90	101,6	2	25
-	-	108	2	30
4"	100	114,3	2	31
5"	125	139,7	2	35
6"	150	168,3	2	40
8"	200	219,1	2	50
10"	250	273	2	60
12"	300	323,9	2	72

PRESSIONE MASSIMA (bar)									
DN mm	Sp/Thk mm						DN mm	Sp/Thk mm	
21,3	2	90	70	-	-		33,7	3	90
26,9	2	90	55	100	100		42,4	3	80
33,7	2	80	40	100	90		48,2	3	70
42,4	2	60	30	90	85		60,3	3	55
48,2	2	55	25	70	75		76,1	3	45
54	2	-	-	70	-		88,9	3	40
57	2	-	-	60	-		101,6	3	30
60,3	2	45	20	60	60		114,3	3	30
70	2	-	-	50	-		139,7	3	25
76,1	2	35	15	50	45		168,3	3	20
88,9	2	40	10	40	40		219,1	3	15
101,6	2	30	-	30	-		273	3	15
108	2	-	-	30	-		323,9	3	10
114,3	2	25	10	30	30				
133	2	-	-	30	-				
139,7	2	20	7	20	25				
159	2	-	-	20	-				
168,3	2	15	5	20	20				
193,7	2	-	-	20	-				
219,1	2	15	5	15	15				
244,5	2	-	-	15	-				
273	2	10	-	10	10				
323,9	2	10	-	10	-				

NOTA: Pmax (bar) indicative a 20°C raccordi a saldare in acciaio inox AISI 304L/316L.

Area with horizontal dashed lines for notes or additional information.

Tutte le illustrazioni e descrizioni riportate nella presente brochure hanno carattere puramente indicativo e sono estrapolate in parte dai rispettivi cataloghi dei produttori, sui quali sono indicate sia le condizioni di esercizio che i limiti di funzionamento.

I produttori si riservano il diritto di apportare ai propri articoli, in qualsiasi momento e senza preavviso, tutte quelle modifiche ritenute opportune per migliorare la qualità dei prodotti.

Si declina ogni responsabilità diretta ed indiretta, nei confronti degli utenti e in generale di qualsiasi terzo, per eventuali imprecisioni, omissioni derivanti dai suddetti contenuti.

Per ogni eventuale controversia Foro competente sarà esclusivamente quello di Lecco.



Raccordi

Raccordi a saldare

ASME B16.9



DIMENSIONI E SPESSORI SECONDO ASME B 16.9 + B 36.10 e ASME B 36.19																																		
Ø nom. tubo	Diam. esterno		Sch. 5		Sch. 10		Sch. 20		Sch. 30		STD WT		Sch. 40		Sch. 60		XS		Sch. 80		Sch. 100		Sch. 120		Sch. 140		Sch. 160		XXS					
	pollici	pollici	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm	pollici	mm				
1/2"	0.840	21,34	0.065	1,65	0.083	2,11	-	-	-	-	0.109	2,77	Identical to "Standard"	-	-	0.147	3,73	Identical to "Extra Strong"	-	-	-	-	-	-	-	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	0.864	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	762,00	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-				

I RACCORDI A SALDARE ASME B16.9 SONO FORNITI IN ACCORDO ALLE SEGUENTI NORME:

Norma di raccordo	Norma Standard	Descrizione	Grado di acciaio	Tipologia di raccordi
ASME B16.9	ASTM/ASME A/SA 403	Specifiche standard di raccordi di tubazione in acciaio inox austenitici	WP304/304L WP316/316L	Curve Riduzioni concentriche ed eccentriche Tee con derivazione uguale e ridotta Fondi
	ASTM/ASME A/SA 234	Raccordi per tubazioni in acciaio al carbonio o basso-legato per impiego in pressione a media-alta temperatura	Acciai al carbonio: WPB, WPC	Curve (SR, LR, R=3D)
			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	Riduzioni concentriche/ eccentriche Tee con derivazione uguale e ridotta Fondi
	ASTM/ASME A/SA 420	Raccordi per tubazioni in acciaio al carbonio o basso-legato per impiego in pressione a bassa temperatura	WPL6	---
	ASTM A 860	Raccordi a saldare di testa ad alto snervamento per il trasporto di fluidi combustibili	WPHY42, WPHY52, WPHY60, WPHY65, WPHY70	---

I raccordi vengono forniti con estremità smussate secondo 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:

Grado		Composizione %							
Grado WP	C	Mn	P	S	Si	Ni	Cr	Mo	Altri
WP304	0.08	2.00	0.045	0.030	1.00	8.0 - 11.0	18.0 - 20.0		
WP304L	0.030	2.00	0.045	0.030	1.00	8.0 - 12.0	18.0 - 20.0		
WP316	0.08	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
WP316L	0.030	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
WPB ^{B,C,D,E,F}	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
WPB ^{C,D,E,F}	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 sostensione (...) appaiono nella tabella, non vi è alcun obbligo.

^A Quando i raccordi sono di costruzione saldata, il simbolo di grado e la marcatura sopra indicata devono essere completati con la lettera "W".

^B I raccordi prodotti da barra o piastra possono avere al massimo 0.35 di carbonio.

^C I raccordi a base di forgiati possono avere massimo 0.35 di carbonio e 0.35 di silicio, senza un minimo.

^D Per ogni riduzione dello 0,01% al di sotto del massimo di carbonio specificato, un incremento dello 0,06% di magnesio sopra il massimo specificato sarà consentito fino ad un massimo di 1,35%.

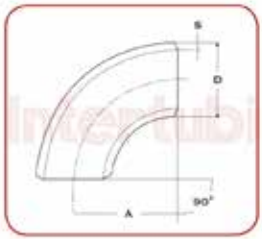
^E La somma di rame, nichel, cromo e molibdeno non supera l'1,00%.

^F La somma di cromo e molibdeno non supera lo 0,32%.

Grado di acciaio	Snervamento min. ksi [MPa]	Rottura min. ksi [MPa]
304, 316	30 [205]	75 [515]
304L, 316L	20 [170]	70 [485]

CURVE 90° RAGGIO = 1,5D			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	Raggio
21.34 x 2.11	1/2" SCH 10S	0.06	38
21.34 x 2.77	1/2" SCH 40S	0.08	38
21.34 x 3.73	1/2" SCH 80S	0.10	38
21.34 x 4.78	1/2" SCH 160	0.15	38
26.67 x 2.11	3/4" SCH 10S	0.07	38
26.67 x 2.87	3/4" SCH 40S	0.09	38
26.67 x 3.91	3/4" SCH 80S	0.11	38
26.67 x 5.56	3/4" SCH 160	0.23	38
33.40 x 2.77	1" SCH 10S	0.14	38
33.40 x 3.38	1" SCH 40S	0.16	38
33.40 x 4.55	1" SCH 80S	0.22	38
33.40 x 6.35	1" SCH 160	0.25	38
42.16 x 2.77	1.1/4" SCH 10S	0.23	48
42.16 x 3.56	1.1/4" SCH 40S	0.25	48
42.16 x 4.85	1.1/4" SCH 80S	0.40	48
42.16 x 6.35	1.1/4" SCH 160	0.42	48
48.26 x 2.77	1.1/2" SCH 10S	0.30	57
48.26 x 3.68	1.1/2" SCH 40S	0.40	57
48.26 x 5.08	1.1/2" SCH 80S	0.51	57
48.26 x 7.14	1.1/2" SCH 160	0.65	57
60.33 x 2.77	2" SCH 10S	0.51	76
60.33 x 3.91	2" SCH 40S	0.71	76
60.33 x 5.54	2" SCH 80S	0.91	76
60.33 x 8.71	2" SCH 160	1.33	76
73.03 x 3.05	2.1/2" SCH 10S	0.85	95
73.03 x 5.16	2.1/2" SCH 40S	1.36	95
73.03 x 7.01	2.1/2" SCH 80S	1.81	95
73.03 x 9.53	2.1/2" SCH 160	2.33	95
88.90 x 3.05	3" SCH 10S	1.22	114
88.90 x 5.49	3" SCH 40S	2.18	114
88.90 x 7.62	3" SCH 80S	2.98	114
88.90 x 11.13	3" SCH 160	3.83	114
114.30 x 3.05	4" SCH 10S	2.15	152
114.30 x 6.02	4" SCH 40S	4.17	152
114.30 x 8.56	4" SCH 80S	6.18	152
114.30 x 13.49	4" SCH 160	8.02	152
141.30 x 3.40	5" SCH 10S	3.63	190
141.30 x 6.55	5" SCH 40S	6.86	190
141.30 x 9.53	5" SCH 80S	9.58	190

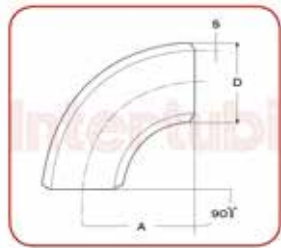
CURVE 90° RAGGIO = 1,5D			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	Raggio
168.28 x 3.40	6" SCH 10S	4.90	229
168.28 x 7.11	6" SCH 40S	10.90	229
168.28 x 10.97	6" SCH 80S	16.33	229
219.08 x 3.76	8" SCH 10S	10.66	305
219.08 x 8.18	8" SCH 40S	21.50	305
219.08 x 12.70	8" SCH 80S	33.11	305
273.05 x 4.19	10" SCH 10S	19.50	381
273.05 x 9.27	10" SCH 40S	38.60	381
323.85 x 4.57	12" SCH 10S	27.22	457
323.85 x 9.53	12" SCH 40S	59.40	457
355.60 x 4.78	14" SCH 10S	36.30	533
355.60 x 9.53	14" SCH 40S	70.30	533
406.40 x 4.78	16" SCH 10S	47.63	610
406.40 x 9.53	16" SCH 40S	91.60	610
457.20 x 4.78	18" SCH 10S	59.87	686
457.20 x 9.53	18" SCH 40S	113.00	686
508.00 x 5.54	20" SCH 10S	99.79	762
508.00 x 9.52	20" SCH 40S	140.00	762
609.60 x 6.35	24" SCH 10S	140.61	914
609.60 x 9.52	24" SCH 40S	207.80	914



CURVE 90° RAGGIO = 1,5D
(45° su richiesta)
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CURVE 90° RAGGIO = 1D			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	A
33.40 x 2.77	1" SCH 10S	0.10	25
33.40 x 3.38	1" SCH 40S	0.12	25
33.40 x 4.55	1" SCH 80S	0.13	25
42.16 x 3.56	1.1/4" SCH 40S	0.20	32
42.16 x 4.85	1.1/4" SCH 80S	0.22	32
48.26 x 2.77	1.1/2" SCH 10S	0.22	38
48.26 x 3.68	1.1/2" SCH 40S	0.29	38
48.26 x 5.08	1.1/2" SCH 80S	0.32	38
60.33 x 2.77	2" SCH 10S	0.37	51
60.33 x 3.91	2" SCH 40S	0.51	51
60.33 x 5.54	2" SCH 80S	0.60	51
73.03 x 3.05	2.1/2" SCH 10S	0.62	64
73.03 x 5.16	2.1/2" SCH 40S	1.02	64
73.03 x 7.01	2.1/2" SCH 80S	1.14	64
88.90 x 3.05	3" SCH 10S	0.98	76
88.90 x 5.49	3" SCH 40S	1.50	76
88.90 x 7.62	3" SCH 80S	1.85	76
114.30 x 3.05	4" SCH 10S	1.72	102
114.30 x 6.02	4" SCH 40S	3.12	102
114.30 x 8.56	4" SCH 80S	3.56	102
141.30 x 3.40	5" SCH 10S	2.78	127
141.30 x 6.55	5" SCH 40S	5.28	127
168.28 x 3.40	6" SCH 10S	4.15	152
168.28 x 7.11	6" SCH 40S	7.15	152
168.28 x 10.97	6" SCH 80S	11.79	152
219.08 x 3.76	8" SCH 10S	8.00	203

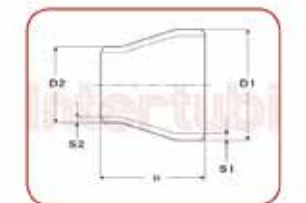
CURVE 90° RAGGIO = 1D			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	A
219.08 x 8.18	8" SCH 40S	17.05	203
273.05 x 4.19	10" SCH 10S	12.40	254
273.05 x 9.27	10" SCH 40S	24.00	254
323.85 x 4.57	12" SCH 10S	17.20	305
323.85 x 9.53	12" SCH 40S	38.10	305
355.60 x 4.78	14" SCH 10S	23.59	356
355.60 x 9.78	14" SCH 40S	45.40	356
406.40 x 4.78	16" SCH 10S	30.84	406
406.40 x 9.53	16" SCH 40S	59.40	406
457.20 x 4.78	18" SCH 10S	39.50	457
508.00 x 5.54	20" SCH 10S	65.00	508
609.60 x 6.35	24" SCH 10S	92.00	610



CURVE 90° RAGGIO = 1D
ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

RIDUZIONI CONCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
26.67 x 21.33	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.10	38
26.67 x 21.33	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.14	38
26.67 x 21.33	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.18	38
33.40 x 21.33	2.77 x 2.11	1" x 1/2" SCH 10S	0.12	51
33.40 x 21.33	3.38 x 2.77	1" x 1/2" SCH 40S	0.15	51
33.40 x 21.33	4.55 x 3.73	1" x 1/2" SCH 80S	0.20	51
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.13	51
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.16	51
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.22	51
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.18	51
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.22	51
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.25	51
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.18	51
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.22	51
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.27	51
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.20	64
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.26	64
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.37	64
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.20	64
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.26	64
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.37	64
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.21	64
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.28	64
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.36	64
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.25	76
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.37	76
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.41	76
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.28	76
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.40	76

RIDUZIONI CONCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	0.54	76
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.30	76
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.44	76
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	0.48	76
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.31	76
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.45	76
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	0.59	76
73.03 x 42.16	3.05 x 2.77	2.1/2" x 1.1/4" SCH 10S	0.37	89
73.03 x 42.16	5.16 x 3.56	2.1/2" x 1.1/4" SCH 40S	0.63	89
73.03 x 42.16	7.01 x 4.85	2.1/2" x 1.1/4" SCH 80S	0.78	89
73.03 x 48.30	3.05 x 2.77	2.1/2" x 1.1/2" SCH 10S	0.44	89
73.03 x 48.30	5.16 x 3.68	2.1/2" x 1.1/2" SCH 40S	0.77	89
73.03 x 48.30	7.01 x 5.08	2.1/2" x 1.1/2" SCH 80S	0.83	89
73.03 x 60.30	3.05 x 2.77	2.1/2" x 2" SCH 10S	0.47	89
73.03 x 60.30	5.16 x 3.91	2.1/2" x 2" SCH 40S	0.80	89
73.03 x 60.30	7.01 x 5.54	2.1/2" x 2" SCH 80S	1.03	89
88.90 x 33.40	3.05 x 2.77	3" x 1" SCH 10S	0.49	89



RIDUZIONI CONCENTRICHE
ASME B16.9 ASTM A 403
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RIDUZIONI CONCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
88.90 x 33.40	5.49 x 3.38	3" x 1" SCH 40S	0.85	89
88.90 x 33.40	7.62 x 4.55	3" x 1" SCH 80S	0.97	89
88.90 x 42.16	3.05 x 2.77	3" x 1.1/4" SCH 10S	0.43	89
88.90 x 42.16	5.49 x 3.56	3" x 1.1/4" SCH 40S	0.75	89
88.90 x 42.16	7.62 x 4.85	3" x 1.1/4" SCH 80S	0.95	89
88.90 x 48.26	3.05 x 2.77	3" x 1.1/2" SCH 10S	0.51	89
88.90 x 48.26	5.49 x 3.68	3" x 1.1/2" SCH 40S	0.94	89
88.90 x 48.26	7.62 x 5.08	3" x 1.1/2" SCH 80S	1.21	89
88.90 x 60.30	3.05 x 2.77	3" x 2" SCH 10S	0.55	89
88.90 x 60.30	5.49 x 3.91	3" x 2" SCH 40S	1.00	89
88.90 x 60.30	7.62 x 5.54	3" x 2" SCH 80S	1.29	89
88.90 x 73.03	3.05 x 3.05	3" x 2.1/2" SCH 10S	0.59	89
88.90 x 73.03	5.49 x 5.16	3" x 2.1/2" SCH 40S	1.08	89
88.90 x 73.03	7.62 x 7.01	3" x 2.1/2" SCH 80S	1.49	89
114.30 x 48.26	3.05 x 2.77	4" x 1.1/2" SCH 10S	0.62	102
114.30 x 48.26	6.02 x 3.68	4" x 1.1/2" SCH 40S	1.18	102
114.30 x 48.26	8.56 x 5.08	4" x 1.1/2" SCH 80S	1.64	102
114.30 x 60.30	3.05 x 2.77	4" x 2" SCH 10S	0.78	102
114.30 x 60.30	6.02 x 3.91	4" x 2" SCH 40S	1.57	102
114.30 x 60.30	8.56 x 5.54	4" x 2" SCH 80S	1.95	102
114.30 x 73.03	3.05 x 3.05	4" x 2.1/2" SCH 10S	0.83	102
114.30 x 73.03	6.02 x 5.16	4" x 2.1/2" SCH 40S	1.66	102
114.30 x 73.03	8.56 x 7.01	4" x 2.1/2" SCH 80S	1.97	102
114.30 x 88.90	3.05 x 3.05	4" x 3" SCH 10S	0.87	102
114.30 x 88.90	6.02 x 5.49	4" x 3" SCH 40S	1.74	102
114.30 x 88.90	8.56 x 7.62	4" x 3" SCH 80S	2.33	102
141.30 x 88.90	3.40 x 3.05	5" x 3" SCH 10S	1.45	127
141.30 x 88.90	6.55 x 5.49	5" x 3" SCH 40S	2.85	127
141.30 x 114.30	3.40 x 3.05	5" x 4" SCH 10S	1.49	127
141.30 x 114.30	6.55 x 6.02	5" x 4" SCH 40S	2.98	127
168.28 x 88.9	3.40 x 3.05	6" x 3" SCH 10S	1.82	140
168.28 x 88.9	7.11 x 5.49	6" x 3" SCH 40S	3.98	140
168.28 x 88.9	10.97 x 8.56	6" x 3" SCH 80S	5.51	140
168.28 x 114.30	3.40 x 3.05	6" x 4" SCH 10S	1.95	140
168.28 x 114.30	7.11 x 6.02	6" x 4" SCH 40S	4.08	140
168.28 x 114.30	10.97 x 8.56	6" x 4" SCH 80S	5.96	140
168.28 x 141.30	3.40 x 3.40	6" x 5" SCH 10S	2.05	140
168.28 x 141.30	8.18 x 7.11	6" x 5" SCH 40S	4.18	140
219.08 x 114.30	3.76 x 3.05	8" x 4" SCH 10S	3.02	152

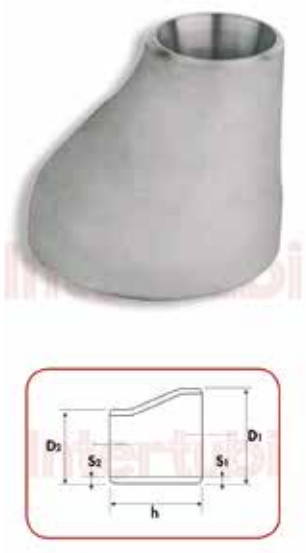
RIDUZIONI CONCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
219.08 x 114.30	8.18 x 6.02	8" x 4" SCH 40S	6.55	152
219.08 x 141.30	3.76 x 3.40	8" x 5" SCH 10S	3.08	152
219.08 x 141.30	8.18 x 6.55	8" x 5" SCH 40S	6.70	152
219.08 x 168.30	3.76 x 3.40	8" x 6" SCH 10S	3.19	152
219.08 x 168.30	8.18 x 7.11	8" x 6" SCH 40S	6.94	152
273.05 x 168.28	4.19 x 3.40	10" x 6" SCH 10S	5.00	178
273.05 x 168.28	9.27 x 7.11	10" x 6" SCH 40S	11.12	178
273.05 x 219.08	4.19 x 3.76	10" x 8" SCH 10S	5.25	178
273.05 x 219.08	9.27 x 8.18	10" x 8" SCH 40S	11.56	178
323.85 x 168.28	4.57 x 3.40	12" x 6" SCH 10S	6.58	203
323.85 x 168.28	9.53 x 7.11	12" x 6" SCH 40S	12.80	203
323.85 x 219.08	4.57 x 3.76	12" x 8" SCH 10S	7.67	203
323.85 x 219.08	9.53 x 8.18	12" x 8" SCH 40S	15.98	203
323.85 x 273.05	4.57 x 4.19	12" x 10" SCH 10S	7.98	203
323.85 x 273.05	9.53 x 9.27	12" x 10" SCH 40S	16.63	203
355.60 x 273.05	4.78 x 4.19	14" x 10" SCH 10S	14.41	330
355.60 x 273.05	9.53 x 9.27	14" x 10" SCH 40S	23.60	330
355.60 x 323.85	4.78 x 4.57	14" x 12" SCH 10S	15.29	330
355.60 x 323.85	9.53 x 9.53	14" x 12" SCH 40S	25.40	330
406.40 x 323.85	4.78 x 4.57	16" x 12" SCH 10S	18.35	356
406.40 x 323.85	9.53 x 9.53	16" x 12" SCH 40S	29.60	356
406.40 x 355.60	4.78 x 4.78	16" x 14" SCH 10S	18.90	356
406.40 x 355.60	9.53 x 9.53	16" x 14" SCH 40S	31.00	356



RIDUZIONI CONCENTRICHE
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RIDUZIONI ECCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
26.67 x 21.33	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.10	38
26.67 x 21.33	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.14	38
26.67 x 21.33	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.18	38
33.40 x 21.33	2.77 x 2.11	1" x 1/2" SCH 10S	0.12	51
33.40 x 21.33	3.38 x 2.77	1" x 1/2" SCH 40S	0.15	51
33.40 x 21.33	4.55 x 3.73	1" x 1/2" SCH 80S	0.20	51
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.13	51
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.16	51
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.22	51
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.18	51
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.22	51
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.25	51
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.18	51
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.22	51
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.27	51
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.20	64
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.26	64
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.37	64
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.20	64
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.26	64
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.37	64
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.21	64
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.28	64
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.36	64
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.25	76
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.37	76
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.41	76
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.28	76
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.40	76

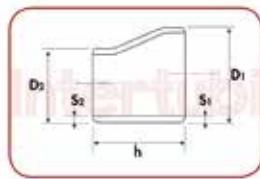
RIDUZIONI ECCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	0.54	76
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.30	76
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.44	76
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	0.48	76
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.31	76
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.45	76
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	0.59	76
73.03 x 42.16	3.05 x 2.77	2.1/2" x 1.1/4" SCH 10S	0.37	89
73.03 x 42.16	5.16 x 3.56	2.1/2" x 1.1/4" SCH 40S	0.63	89
73.03 x 42.16	7.01 x 4.85	2.1/2" x 1.1/4" SCH 80S	0.78	89
73.03 x 48.30	3.05 x 2.77	2.1/2" x 1.1/2" SCH 10S	0.44	89
73.03 x 48.30	5.16 x 3.68	2.1/2" x 1.1/2" SCH 40S	0.77	89
73.03 x 48.30	7.01 x 5.08	2.1/2" x 1.1/2" SCH 80S	0.83	89
73.03 x 60.30	3.05 x 2.77	2.1/2" x 2" SCH 10S	0.47	89
73.03 x 60.30	5.16 x 3.91	2.1/2" x 2" SCH 40S	0.80	89
73.03 x 60.30	7.01 x 5.54	2.1/2" x 2" SCH 80S	1.03	89
88.90 x 33.40	3.05 x 2.77	3" x 1" SCH 10S	0.49	89



RIDUZIONI ECCENTRICHE
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RIDUZIONI ECCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/Pz.	H
88.90 x 33.40	5.49 x 3.38	3" x 1" SCH 40S	0.85	89
88.90 x 33.40	7.62 x 4.55	3" x 1" SCH 80S	0.97	89
88.90 x 42.16	3.05 x 2.77	3" x 1.1/4" SCH 10S	0.43	89
88.90 x 42.16	5.49 x 3.56	3" x 1.1/4" SCH 40S	0.75	89
88.90 x 42.16	7.62 x 4.85	3" x 1.1/4" SCH 80S	0.95	89
88.90 x 48.26	3.05 x 2.77	3" x 1.1/2" SCH 10S	0.51	89
88.90 x 48.26	5.49 x 3.68	3" x 1.1/2" SCH 40S	0.94	89
88.90 x 48.26	7.62 x 5.08	3" x 1.1/2" SCH 80S	1.21	89
88.90 x 60.30	3.05 x 2.77	3" x 2" SCH 10S	0.55	89
88.90 x 60.30	5.49 x 3.91	3" x 2" SCH 40S	1.00	89
88.90 x 60.30	7.62 x 5.54	3" x 2" SCH 80S	1.29	89
88.90 x 73.03	3.05 x 3.05	3" x 2.1/2" SCH 10S	0.59	89
88.90 x 73.03	5.49 x 5.16	3" x 2.1/2" SCH 40S	1.08	89
88.90 x 73.03	7.62 x 7.01	3" x 2.1/2" SCH 80S	1.49	89
114.30 x 48.26	3.05 x 2.77	4" x 1.1/2" SCH 10S	0.71	102
114.30 x 48.26	6.02 x 3.68	4" x 1.1/2" SCH 40S	1.18	102
114.30 x 48.26	8.56 x 5.08	4" x 1.1/2" SCH 80S	1.64	102
114.30 x 60.30	3.05 x 2.77	4" x 2" SCH 10S	0.78	102
114.30 x 60.30	6.02 x 3.91	4" x 2" SCH 40S	1.57	102
114.30 x 60.30	8.56 x 5.54	4" x 2" SCH 80S	1.95	102
114.30 x 73.03	3.05 x 3.05	4" x 2.1/2" SCH 10S	0.83	102
114.30 x 73.03	6.02 x 5.16	4" x 2.1/2" SCH 40S	1.66	102
114.30 x 73.03	8.56 x 7.01	4" x 2.1/2" SCH 80S	1.97	102
114.30 x 88.90	3.05 x 3.05	4" x 3" SCH 10S	0.87	102
114.30 x 88.90	6.02 x 5.49	4" x 3" SCH 40S	1.74	102
114.30 x 88.90	8.56 x 7.62	4" x 3" SCH 80S	2.33	102
141.30 x 88.90	3.40 x 3.05	5" x 3" SCH 10S	1.45	127
141.30 x 88.90	6.55 x 5.49	5" x 3" SCH 40S	2.85	127
141.30 x 114.30	3.40 x 3.05	5" x 4" SCH 10S	1.49	127
141.30 x 114.30	6.55 x 6.02	5" x 4" SCH 40S	2.98	127
168.28 x 88.9	3.40 x 3.05	6" x 3" SCH 10S	1.82	140
168.28 x 88.9	7.11 x 5.49	6" x 3" SCH 40S	3.98	140
168.28 x 88.9	10.97 x 8.56	6" x 3" SCH 80S	5.51	140
168.28 x 114.30	3.40 x 3.05	6" x 4" SCH 10S	1.95	140
168.28 x 114.30	7.11 x 6.02	6" x 4" SCH 40S	4.08	140
168.28 x 114.30	10.97 x 8.56	6" x 4" SCH 80S	5.96	140
168.28 x 141.30	3.40 x 3.40	6" x 5" SCH 10S	2.05	140
168.28 x 141.30	8.18 x 7.11	6" x 5" SCH 40S	4.18	140
219.08 x 114.30	3.76 x 3.05	8" x 4" SCH 10S	3.02	152

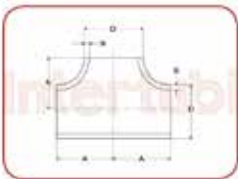
RIDUZIONI ECCENTRICHE				
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/pz.	H
219.08 x 114.30	8.18 x 6.02	8" x 4" SCH 40S	6.55	152
219.08 x 141.30	3.76 x 3.40	8" x 5" SCH 10S	3.08	152
219.08 x 141.30	8.18 x 6.55	8" x 5" SCH 40S	6.70	152
219.08 x 168.30	3.76 x 3.40	8" x 6" SCH 10S	3.19	152
219.08 x 168.30	8.18 x 7.11	8" x 6" SCH 40S	6.94	152
273.05 x 168.28	4.19 x 3.40	10" x 6" SCH 10S	5.00	178
273.05 x 168.28	9.27 x 7.11	10" x 6" SCH 40S	11.12	178
273.05 x 219.08	4.19 x 3.76	10" x 8" SCH 10S	5.25	178
273.05 x 219.08	9.27 x 8.18	10" x 8" SCH 40S	11.56	178
323.85 x 168.28	4.57 x 3.40	12" x 6" SCH 10S	6.58	203
323.85 x 168.28	9.53 x 7.11	12" x 6" SCH 40S	12.80	203
323.85 x 219.08	4.57 x 3.76	12" x 8" SCH 10S	7.67	203
323.85 x 219.08	9.53 x 8.18	12" x 8" SCH 40S	15.98	203
323.85 x 273.05	4.57 x 4.19	12" x 10" SCH 10S	7.98	203
323.85 x 273.05	9.53 x 9.27	12" x 10" SCH 40S	16.63	203
355.60 x 273.05	4.78 x 4.19	14" x 10" SCH 10S	14.41	330
355.60 x 273.05	9.53 x 9.27	14" x 10" SCH 40S	23.60	330
355.60 x 323.85	4.78 x 4.57	14" x 12" SCH 10S	15.29	330
355.60 x 323.85	9.53 x 9.53	14" x 12" SCH 40S	25.40	330
406.40 x 323.85	4.78 x 4.57	16" x 12" SCH 10S	18.35	356
406.40 x 323.85	9.53 x 9.53	16" x 12" SCH 40S	29.60	356
406.40 x 355.60	4.78 x 4.78	16" x 14" SCH 10S	18.90	356
406.40 x 355.60	9.53 x 9.53	16" x 14" SCH 40S	31.00	356



RIDUZIONI ECCENTRICHE
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TEES UGUALI			
Ø est. mm x Sp mm	Dimensioni	Peso Kg/pz.	A
21.34 x 2.11	1/2" SCH 10S	0.07	25
21.34 x 2.77	1/2" SCH 40S	0.08	25
21.34 x 3.73	1/2" SCH 80S	0.14	25
21.34 x 4.75	1/2" SCH 160	0.15	25
26.67 x 2.11	3/4" SCH 10S	0.09	29
26.67 x 2.87	3/4" SCH 40S	0.11	29
26.67 x 3.91	3/4" SCH 80S	0.20	29
26.67 x 5.54	3/4" SCH 160	0.30	29
33.40 x 2.77	1" SCH 10S	0.20	38
33.40 x 3.38	1" SCH 40S	0.24	38
33.40 x 4.55	1" SCH 80S	0.39	38
33.40 x 6.35	1" SCH 160	0.47	38
42.16 x 2.77	1.1/4" SCH 10S	0.33	48
42.16 x 3.56	1.1/4" SCH 40S	0.41	48
42.16 x 4.85	1.1/4" SCH 80S	0.54	48
42.16 x 6.35	1.1/4" SCH 160	0.89	48
48.26 x 2.77	1.1/2" SCH 10S	0.46	57
48.26 x 3.68	1.1/2" SCH 40S	0.60	57
48.26 x 5.08	1.1/2" SCH 80S	1.02	57
48.26 x 7.14	1.1/2" SCH 160	1.43	57
60.33 x 2.77	2" SCH 10S	0.63	64
60.33 x 3.91	2" SCH 40S	0.87	64
60.33 x 5.54	2" SCH 80S	1.60	64
60.33 x 8.71	2" SCH 160	3.18	64
73.03 x 3.05	2.1/2" SCH 10S	1.10	76
73.03 x 5.16	2.1/2" SCH 40S	1.70	76
73.03 x 7.01	2.1/2" SCH 80S	3.63	76
88.90 x 3.05	3" SCH 10S	1.37	86
88.90 x 5.49	3" SCH 40S	1.90	86
88.90 x 7.62	3" SCH 80S	4.45	86
88.90 x 11.13	3" SCH 160	5.87	86
101.6 x 3.05	3 1/2" SCH 10S	1.74	95
101.6 x 5.74	3 1/2" SCH 40S	3.19	95

TEES UGUALI			
Ø est. mm x Sp mm	Dimensioni	Peso Kg/pz.	A
114.30 x 3.05	4" SCH 10S	2.15	105
114.30 x 6.02	4" SCH 40S	4.13	105
114.30 x 8.56	4" SCH 80S	7.70	105
114.30 x 13.49	4" SCH 160	9.76	105
141.30 x 3.40	5" SCH 10S	3.48	124
141.30 x 6.55	5" SCH 40S	6.55	124
168.28 x 3.40	6" SCH 10S	4.76	143
168.28 x 7.11	6" SCH 40S	9.73	143
168.28 x 10.97	6" SCH 80S	13.61	143
219.08 x 3.76	8" SCH 10S	8.46	178
219.08 x 8.18	8" SCH 40S	18.00	178
219.08 x 12.70	8" SCH 80S	27.40	178
273.05 x 4.19	10" SCH 10S	14.20	216
273.05 x 9.27	10" SCH 40S	30.60	216
323.85 x 4.57	12" SCH 10S	21.60	254
323.85 x 9.53	12" SCH 40S	44.30	254
355.60 x 4.78	14" SCH 10S	48.53	279
355.60 x 9.53	14" SCH 40S	79.38	279
406.40 x 4.77	16" SCH 10S	58.90	305
406.40 x 9.53	16" SCH 40S	99,70	305



TEES UGUALI
ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

TEES RIDOTTI					
Ø est. x Ø est.	Sp. x Sp. mm	Dimensioni	Peso Kg/pz.	C	M
26.67 x 21.34	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.11	29	29
26.67 x 21.34	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.15	29	29
26.67 x 21.34	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.19	29	29
33.40 x 21.30	2.77 x 2.11	1" x 1/2" SCH 10S	0.19	38	38
33.40 x 21.30	3.38 x 2.77	1" x 1/2" SCH 40S	0.22	38	38
33.40 x 21.30	4.55 x 3.73	1" x 1/2" SCH 80S	0.28	38	38
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.19	38	38
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.23	38	38
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.29	38	38
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.44	48	48
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.53	48	48
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.66	48	48
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.45	48	48
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.53	48	48
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.60	48	48
48.26 x 21.30	2.77 x 2.11	1.1/2" x 1/2" SCH 10S	0.39	57	57
48.26 x 21.30	3.68 x 2.77	1.1/2" x 1/2" SCH 40S	0.51	57	57
48.26 x 21.30	5.08 x 3.73	1.1/2" x 1/2" SCH 80S	0.67	57	57
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.40	57	57
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.52	57	57
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.69	57	57
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.42	57	57
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.55	57	57
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.73	57	57
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.44	57	57
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.57	57	57
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.77	57	57
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.51	64	44
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.71	64	44
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.99	64	44
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.54	64	51
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.74	64	51
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	1.02	64	51
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.57	64	57
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.80	64	57
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	1.07	64	57
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.59	64	60
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.83	64	60
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	1.11	64	60
73.03 x 33.40	3.05 x 2.77	2.1/2" x 1" SCH 10S	0.88	76	57
73.03 x 33.40	5.16 x 3.38	2.1/2" x 1" SCH 40S	1.35	76	57
73.03 x 48.26	3.05 x 2.77	2.1/2" x 1.1/2" SCH 10S	0.90	76	67
73.03 x 48.26	5.16 x 3.68	2.1/2" x 1.1/2" SCH 40S	1.49	76	67



TEES RIDOTTI
ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

STUB-ENDS SHORT LENGTH					
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	F	G	R
21.34 x 2.11	1/2" SCH 10S	0.07	50.8	34.9	3.18
21.34 x 2.77	1/2" SCH 40S	0.09	50.8	34.9	3.18
26.67 x 2.11	3/4" SCH 10S	0.10	50.8	42.9	3.18
26.67 x 2.87	3/4" SCH 40S	0.12	50.8	42.9	3.18
33.40 x 2.77	1" SCH 10S	0.16	50.8	50.8	3.18
33.40 x 3.38	1" SCH 40S	0.17	50.8	50.8	3.18
42.16 x 2.77	1.1/4" SCH 10S	0.22	50.8	63.5	4.76
42.16 x 3.56	1.1/4" SCH 40S	0.25	50.8	63.5	4.76
48.26 x 2.77	1.1/2" SCH 10S	0.25	50.8	73.0	6.35
48.26 x 3.68	1.1/2" SCH 40S	0.31	50.8	73.0	6.35
60.33 x 2.77	2" SCH 10S	0.43	63.5	92.1	7.94
60.33 x 3.91	2" SCH 40S	0.61	63.5	92.1	7.94
73.03 x 3.05	2.1/2" SCH 10S	0.57	63.5	104.8	7.94
73.03 x 5.16	2.1/2" SCH 40S	0.80	63.5	104.8	7.94
88.90 x 3.05	3" SCH 10S	0.73	63.5	127.0	9.53
88.90 x 5.49	3" SCH 40S	1.13	63.5	127.0	9.53
114.30 x 3.05	4" SCH 10S	1.09	76.2	157.2	11.11
114.30 x 6.02	4" SCH 40S	1.87	76.2	157.2	11.11
141.30 x 3.40	5" SCH 10S	1.47	76.2	185.7	11.11
141.30 x 6.55	5" SCH 40S	2.28	76.2	185.7	11.11
168.28 x 3.40	6" SCH 10S	2.15	88.9	215.9	12.70
168.28 x 7.11	6" SCH 40S	3.57	88.9	215.9	12.70
219.08 x 3.76	8" SCH 10S	3.22	101.6	269.9	12.70
219.08 x 8.18	8" SCH 40S	6.07	101.6	269.9	12.70
273.05 x 4.19	10" SCH 10S	5.13	127.0	323.9	12.70
273.05 x 9.27	10" SCH 40S	10.07	127.0	323.9	12.70
323.85 x 4.57	12" SCH 10S	8.16	152.4	381.0	12.70
323.85 x 9.53	12" SCH 40S	14.29	152.4	381.0	12.70
355.60 x 4.78	14" SCH 10S	10.89	152.4	412.8	12.70
406.40 x 4.78	16" SCH 10S	12.70	152.4	469.9	12.70
457.20 x 4.78	18" SCH 10S	17.24	152.4	533.4	12.70
508.00 x 5.54	20" SCH 10S	21.77	152.4	584.2	12.70

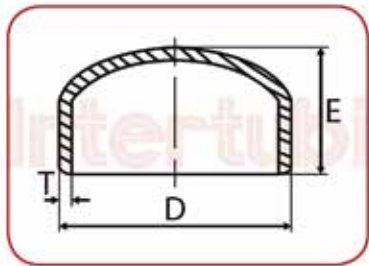


STUB-ENDS SHORT LENGTH
ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

CARATTERISTICHE TECNICHE
Ricavati da tubo senza saldatura o saldato.
Norme dimensionali e tolleranze: ASME B16.9/B16.25
MARCATURA: in accordo ASTM/ASME B16.9 e MSS SP-25
CERTIFICATI EN 10204/3.1

FONDELLI			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	E
21.34 x 2.11	1/2" SCH 10S	0.04	25
21.34 x 2.77	1/2" SCH 40S	0.05	25
21.34 x 3.73	1/2" SCH 80S	0.06	25
26.67 x 2.11	3/4" SCH 10S	0.06	25
26.67 x 2.87	3/4" SCH 40S	0.07	25
26.67 x 3.91	3/4" SCH 80S	0.08	25
33.40 x 2.77	1" SCH 10S	0.09	38
33.40 x 3.38	1" SCH 40S	0.13	38
33.40 x 4.55	1" SCH 80S	0.13	38
42.16 x 2.77	1.1/4" SCH 10S	0.13	38
42.16 x 3.56	1.1/4" SCH 40S	0.17	38
42.16 x 4.85	1.1/4" SCH 80S	0.18	38
48.26 x 2.77	1.1/2" SCH 10S	0.14	38
48.26 x 3.68	1.1/2" SCH 40S	0.23	38
48.26 x 5.08	1.1/2" SCH 80S	0.24	38
60.33 x 2.77	2" SCH 10S	0.19	38
60.33 x 3.91	2" SCH 40S	0.26	38
60.33 x 5.54	2" SCH 80S	0.35	38
73.03 x 3.05	2.1/2" SCH 10S	0.25	38
73.03 x 5.16	2.1/2" SCH 40S	0.45	38
73.03 x 7.01	2.1/2" SCH 80S	0.51	38
88.90 x 3.05	3" SCH 10S	0.40	51
88.90 x 5.49	3" SCH 40S	0.71	51
88.90 x 7.62	3" SCH 80S	0.85	51
114.30 x 3.05	4" SCH 10S	0.65	64
114.30 x 6.02	4" SCH 40S	1.22	64
114.30 x 8.56	4" SCH 80S	1.61	64
141.30 x 3.40	5" SCH 10S	1.02	76
141.30 x 6.55	5" SCH 40S	1.91	76
168.28 x 3.40	6" SCH 10S	1.36	89
168.28 x 7.11	6" SCH 40S	3.23	89
168.28 x 10.97	6" SCH 80S	4.54	89

FONDELLI			
Ø est. mm x Spess. mm	Dimensioni	Peso Kg/pz.	E
219.08 x 3.76	8" SCH 10S	2.49	102
219.08 x 8.18	8" SCH 40S	5.67	102
219.08 x 12.70	8" SCH 80S	7.80	102
273.05 x 4.19	10" SCH 10S	4.90	127
273.05 x 9.27	10" SCH 40S	9.21	127
273.05 x 12.70	10" SCH 80S	13.10	127
323.85 x 4.57	12" SCH 10S	6.53	152
323.85 x 9.53	12" SCH 40S	13.06	152
323.85 x 12.70	12" SCH 80S	17.30	152



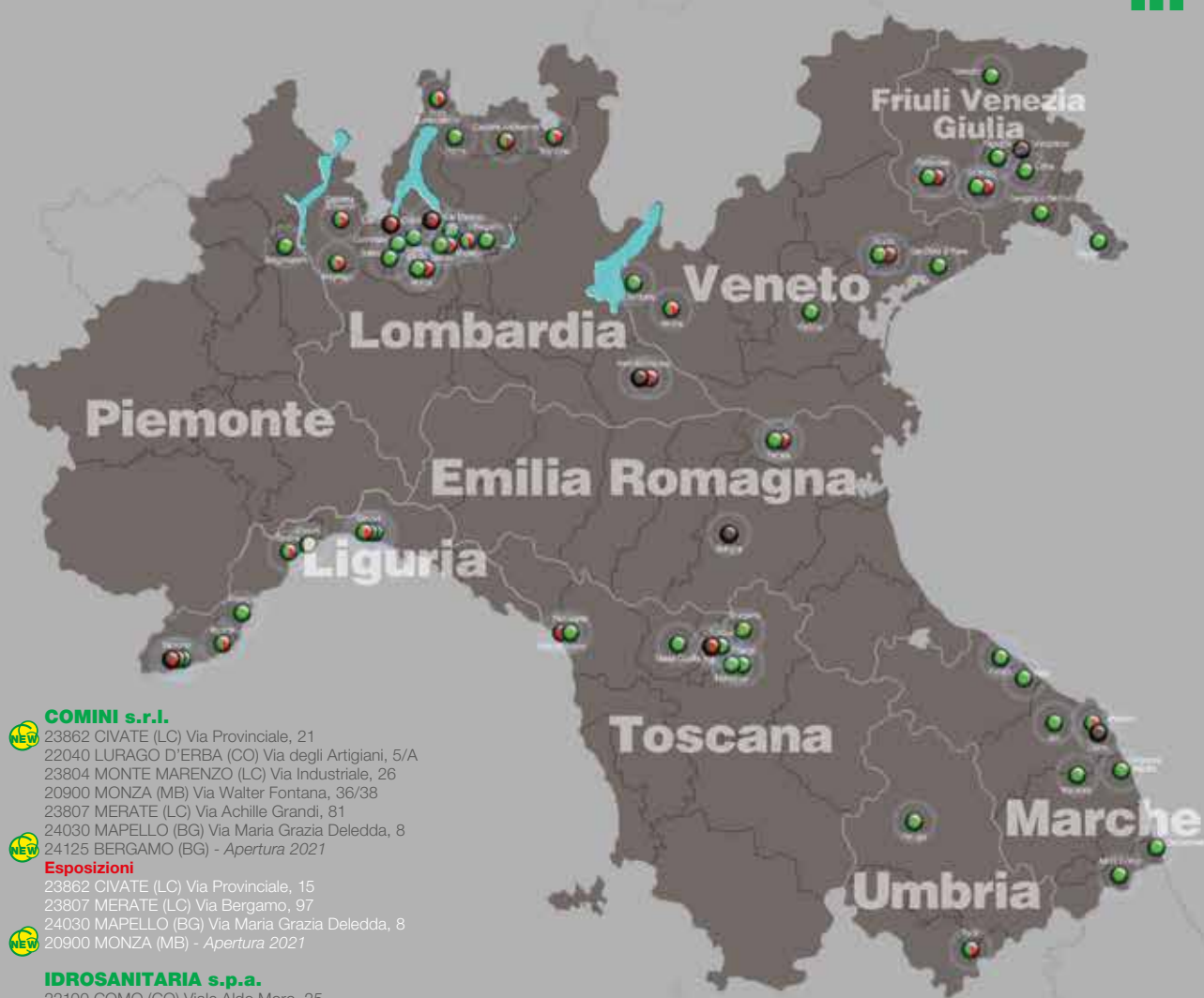
FONDELLI

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

CARATTERISTICHE TECNICHE

Ricavati da tubo senza saldatura.
Norme dimensionali e tolleranze: ASME B16.9/B16.25
MARCATURA: in accordo ASTM/ASME B16.9 e MSS SP-25
CERTIFICATI EN 10204/3.1

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- 23807 MERATE (LC) Via Achille Grandi, 81
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- 23019 TRAONA (SO) Via Ligabue, 1

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- 18038 SANREMO (IM) Via Nino Bixio, 19
- 18100 IMPERIA (IM) Via Argine Sinistro, 126
- 17031 ALBENGA (SV) Via Alcide De Gasperi, 9
- 17100 SAVONA (SV) Via Giovanni Servettaz, 39
- 17011 ALBISOLA (SV) Via Giuseppe Garibaldi, 32
- 16161 GENOVA (GE) Via Castel Morrone, 1
- 16141 GENOVA (GE) Via Lungo Bisagno Istria, 11
- 16158 GENOVA (GE) Via delle Fabbriche, 33

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- 18100 IMPERIA (IM) Via Argine Sinistro, 126
- 17100 SAVONA (SV) Via Giovanni Servettaz, 39
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