



 **PolBeris**



60 ANNI DI ATTIVITÀ
60 YEARS OF ACTIVITIES

14.000 m² SUPERFICIE di cui 6500 m² COPERTI
14.000 m² AREA OF WHICH 6500 m² COVERED

1800 ton. MATERIALE STOCCATO A MAGAZZINO
1800 ton. MATERIAL STORED IN STOCK

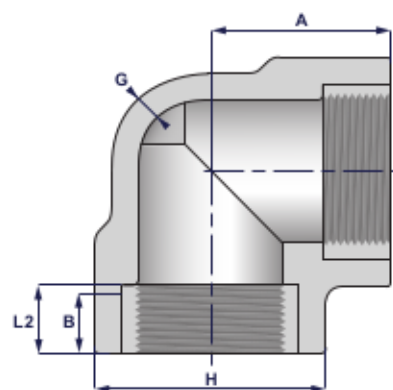


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2000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.125
1/4"	21	22	3.18	0.125
3/8"	25	25	3.18	0.145
1/2"	28	33	3.18	0.285
3/4"	33	38	3.18	0.375
1"	38	46	3.68	0.550
1 1/4"	44	56	3.89	0.760
1 1/2"	51	62	4.01	1.000
2"	60	75	4.27	1.500
2 1/2"	76	92	5.61	3.650
3"	86	109	5.99	5.700
4"	106	146	6.55	11.500

3000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.140
1/4"	25	25	3.30	0.175
3/8"	28	33	3.51	0.325
1/2"	33	38	4.09	0.465
3/4"	38	46	4.32	0.700
1"	44	56	4.98	1.080
1 1/4"	51	62	5.28	1.300
1 1/2"	60	75	5.56	2.360
2"	64	84	7.14	2.600
2 1/2"	83	102	7.65	5.700
3"	95	121	8.84	8.000
4"	114	152	11.18	15.500

6000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	25	25	6.35	0.195
1/4"	28	33	6.60	0.360
3/8"	33	38	6.98	0.510
1/2"	38	46	8.15	0.820
3/4"	44	56	8.53	1.250
1"	51	62	9.93	1.650
1 1/4"	60	75	10.59	2.750
1 1/2"	64	84	11.07	3.550
2"	83	102	12.09	7.100
2 1/2"	95	121	15.29	11.000
3"	106	146	16.64	17.500
4"	114	152	18.67	16.500

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

SIZE	B mini min.	L2 mini min.	SIZE	H	A
1/8"	6.4	6.7	1/8"	-0 +4	-0 +3
1/4"	8.1	10.2	1/4"	-0 +4	-0 +3
3/8"	9.1	10.4	3/8"	-0 +4	-0 +3
1/2"	10.9	13.6	1/2"	-0 +4	-0 +3
3/4"	12.7	13.9	3/4"	-0 +4	-0 +3
1"	14.7	17.3	1"	-0 +4	-0 +3
1 1/4"	17.0	18.0	1 1/4"	-0 +4	-0 +3
1 1/2"	17.8	18.4	1 1/2"	-0 +4	-0 +3
2"	19.0	19.2	2"	-0 +4	-0 +3
2 1/2"	23.6	28.9	2 1/2"	-0 +4	-0 +3
3"	25.9	30.5	3"	-0 +4	-0 +3
4"	27.7	33.0	4"	-0 +4	-0 +3

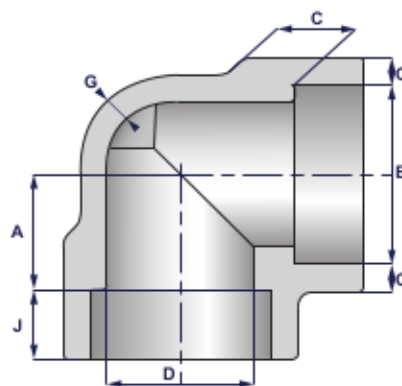
Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

GOMITO 90° FILETTATO
THREADED ELBOW 90°



3000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	2.41	9.5	11.0	1.0	0.125
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	3.02	9.5	11.0	1.0	0.125
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	3.20	9.5	13.5	1.5	0.145
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	3.73	9.5	15.5	1.5	0.275
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	3.91	12.5	19.0	1.5	0.375
1"	33.9	34.3	25.9	27.4	4.98	5.69	4.55	12.5	22.5	2.0	0.550
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	4.85	12.5	27.0	2.0	0.780
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	5.08	12.5	32.0	2.0	1.050
2"	61.2	61.7	51.7	53.3	6.04	6.93	5.54	16.0	38.0	2.0	1.500
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	7.01	16.0	41.0	2.5	3.000
3"	89.8	90.3	76.4	79.4	8.30	9.52	7.62	16.0	57.0	2.5	5.000
4"	115.2	115.7	100.7	103.8	9.35	10.69	8.56	19.0	66.5	2.5	9.000

6000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	3.15	9.5	11.0	1.0	0.140
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	3.68	9.5	13.5	1.0	0.175
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	4.01	9.5	15.5	1.5	0.350
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	4.78	9.5	19.0	1.5	0.400
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	5.56	12.5	22.5	1.5	0.650
1"	33.9	34.3	19.9	21.5	6.93	7.92	6.35	12.5	27.0	2.0	0.950
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	6.35	12.5	32.0	2.0	1.350
1 1/2"	48.8	49.2	33.2	34.7	7.80	8.92	7.14	12.5	38.0	2.0	2.100
2"	61.2	61.7	42.1	43.6	9.50	10.92	8.74	16.0	41.0	2.0	3.100

9000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/2"	21.8	22.2	5.6	7.2	8.18	9.35	7.47	9.5	25.5	1.5	0.780
3/4"	27.2	27.6	10.3	11.8	8.56	9.78	7.82	12.5	28.5	1.5	1.150
1"	33.9	34.3	14.4	16.0	9.96	11.38	9.09	12.5	32.0	2.0	1.700
1 1/4"	42.7	43.1	22.0	23.5	10.62	12.14	9.70	12.5	35.0	2.0	2.400
1 1/2"	48.8	49.2	27.2	28.7	11.12	12.70	10.15	12.5	38.0	2.0	2.800
2"	61.2	61.7	37.4	38.9	12.12	13.84	11.07	16.0	54.0	2.0	6.250

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

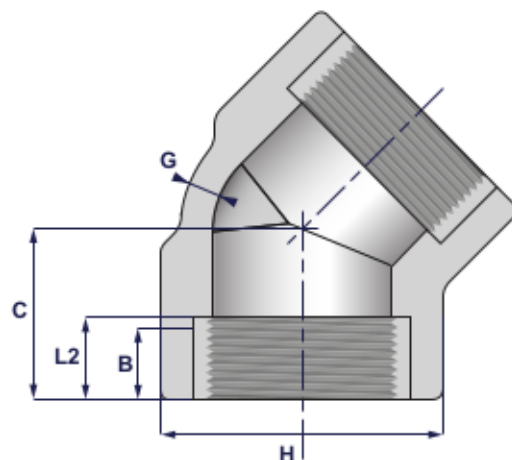
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- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

**GOMITO 90° TASCA
SOCKET WELD ELBOW 90°**



2000 lbs

SIZE	C	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	17	22	3.18	0.105
1/4"	17	22	3.18	0.105
3/8"	19	25	3.18	0.130
1/2"	22	33	3.18	0.250
3/4"	25	38	3.18	0.310
1"	28	46	3.68	0.440
1 1/4"	33	56	3.89	0.670
1 1/2"	35	62	4.01	0.930
2"	43	75	4.27	1.210
2 1/2"	52	92	5.61	3.100
3"	64	109	5.99	5.200
4"	79	146	6.55	10.500

3000 lbs

SIZE	C	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	17	22	3.18	0.120
1/4"	19	25	3.30	0.150
3/8"	22	33	3.51	0.280
1/2"	25	38	4.09	0.380
3/4"	28	46	4.32	0.560
1"	33	56	4.98	0.910
1 1/4"	35	62	5.28	1.150
1 1/2"	43	75	5.56	1.850
2"	44	84	7.14	2.100
2 1/2"	52	102	7.65	4.850
3"	64	121	8.84	6.650
4"	79	152	11.18	12.500

6000 lbs

SIZE	C	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	19	25	6.35	0.165
1/4"	22	33	6.60	0.310
3/8"	25	38	6.98	0.420
1/2"	28	46	8.15	0.650
3/4"	33	56	8.53	1.050
1"	35	62	9.93	1.410
1 1/4"	43	75	10.59	2.150
1 1/2"	44	84	11.07	2.750
2"	52	102	12.09	6.150
2 1/2"	64	121	15.29	8.600
3"	79	146	16.64	15.000
4"	79	152	18.67	13.000

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

SIZE	B mini min.	L2 mini min.
1/8"	6.4	6.7
1/4"	8.1	10.2
3/8"	9.1	10.4
1/2"	10.9	13.6
3/4"	12.7	13.9
1"	14.7	17.3
1 1/4"	17.0	18.0
1 1/2"	17.8	18.4
2"	19.0	19.2
2 1/2"	23.6	28.9
3"	25.9	30.5
4"	27.7	33.0

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

SIZE	H	C
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

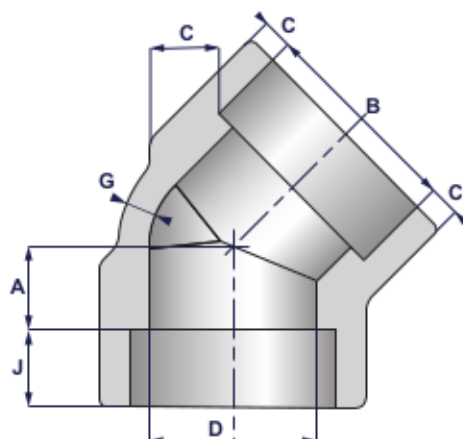
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- I pesi sono indicativi

Remarks:

- Dimensions in millimeters
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- Weights are approximate

GOMITO 45° FILETTATO
THREADED ELBOW 45°



3000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance + Tolerances†	
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	2.41	9.5	8.0	1.0	0.100
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	3.02	9.5	8.0	1.0	0.100
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	3.20	9.5	8.0	1.5	0.120
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	3.73	9.5	11.0	1.5	0.240
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	3.91	12.5	13.0	1.5	0.330
1"	33.9	34.3	25.9	27.4	4.98	5.69	4.55	12.5	14.0	2.0	0.460
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	4.85	12.5	17.5	2.0	0.660
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	5.08	12.5	20.5	2.0	1.890
2"	61.2	61.7	51.7	53.3	6.04	6.93	5.54	16.0	25.5	2.0	1.250
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	7.01	16.0	28.5	2.5	2.650
3"	89.8	90.3	76.4	79.4	8.30	9.52	7.62	16.0	32.0	2.5	4.000
4"	115.2	115.7	100.7	103.8	9.35	10.69	8.56	19.0	41.0	2.5	8.000

6000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance + Tolerances†	
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	3.15	9.5	8.0	1.0	0.120
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	3.68	9.5	8.0	1.0	0.150
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	4.01	9.5	11.0	1.5	0.290
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	4.78	9.5	12.5	1.5	0.320
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	5.56	12.5	14.0	1.5	0.540
1"	33.9	34.3	19.9	21.5	6.93	7.92	6.35	12.5	17.5	2.0	0.770
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	6.35	12.5	20.5	2.0	1.100
1 1/2"	48.8	49.2	33.2	34.7	7.80	7.80	8.92	12.5	25.5	2.0	1.700
2"	61.2	61.7	42.1	43.6	9.50	9.50	10.92	16.0	28.5	2.0	2.700

9000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance + Tolerances†	
1/2"	21.8	22.2	5.6	7.2	8.18	9.35	7.47	9.5	15.5	1.5	0.640
3/4"	27.2	27.6	10.3	11.8	8.56	9.78	7.82	12.5	19.0	1.5	0.930
1"	33.9	34.3	14.4	16.0	9.96	11.38	9.09	12.5	20.5	2.0	1.400
1 1/4"	42.7	43.1	22.0	23.5	10.62	12.14	9.70	12.5	22.5	2.0	1.800
1 1/2"	48.8	49.2	27.2	28.7	11.12	12.70	10.15	12.5	25.5	2.0	2.350
2"	61.2	61.7	37.4	38.9	12.12	13.84	11.07	16.0	28.5	2.0	4.400

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

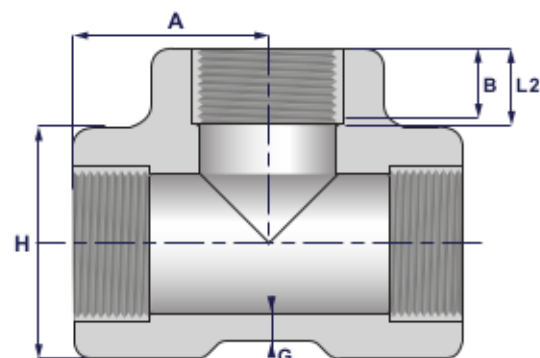
Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

**GOMITO 45° TASCA
SOCKET WELD ELBOW 45°**



2000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.165
1/4"	21	22	3.18	0.165
3/8"	25	25	3.18	0.190
1/2"	28	33	3.18	0.370
3/4"	33	38	3.18	0.490
1"	38	46	3.68	0.715
1 1/4"	44	56	3.89	0.990
1 1/2"	51	62	4.01	1.300
2"	60	75	4.27	1.950
2 1/2"	76	92	5.61	4.750
3"	86	109	5.99	7.400
4"	106	146	6.55	15.000

3000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.180
1/4"	25	25	3.30	0.230
3/8"	28	33	3.51	0.420
1/2"	33	38	4.09	0.600
3/4"	38	46	4.32	0.910
1"	44	56	4.98	1.400
1 1/4"	51	62	5.28	1.690
1 1/2"	60	75	5.56	3.050
2"	64	84	7.14	3.400
2 1/2"	83	102	7.65	7.400
3"	95	121	8.84	10.400
4"	114	152	11.18	20.000

6000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	25	25	6.35	0.255
1/4"	28	33	6.60	0.470
3/8"	33	38	6.98	0.665
1/2"	38	46	8.15	1.070
3/4"	44	56	8.53	1.625
1"	51	62	9.93	2.150
1 1/4"	60	75	10.59	3.600
1 1/2"	64	84	11.07	4.600
2"	83	102	12.09	9.250
2 1/2"	95	121	15.29	14.500
3"	106	146	16.64	23.000
4"	114	152	18.67	21.500

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

SIZE	B mini min.	L2 mini min.
1/8"	6.4	6.7
1/4"	8.1	10.2
3/8"	9.1	10.4
1/2"	10.9	13.6
3/4"	12.7	13.9
1"	14.7	17.3
1 1/4"	17.0	18.0
1 1/2"	17.8	18.4
2"	19.0	19.2
2 1/2"	23.6	28.9
3"	25.9	30.5
4"	27.7	33.0

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLLERANCES COMMON TO ALL CLASSES

SIZE	H	C
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

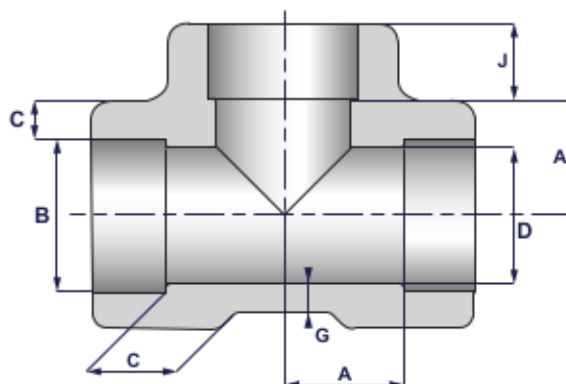
Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

TEE FILETTATO
THREADED TEE



3000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance, + Tolerances, -	
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	2.41	9.5	11.0	1.0	0.165
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	3.02	9.5	11.0	1.0	0.165
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	3.20	9.5	13.5	1.5	0.190
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	3.73	9.5	15.5	1.5	0.360
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	3.91	12.5	19.0	1.5	0.490
1"	33.9	34.3	25.9	27.4	4.98	5.69	4.55	12.5	22.5	2.0	0.715
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	4.85	12.5	27.0	2.0	1.010
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	5.08	12.5	32.0	2.0	1.365
2"	61.2	61.7	51.7	53.3	6.04	6.93	5.54	16.0	38.0	2.0	1.950
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	7.01	16.0	41.0	2.5	3.900
3"	89.8	90.3	76.4	79.4	8.30	9.52	7.62	16.0	57.0	2.5	6.300
4"	115.2	115.7	100.7	103.8	9.35	10.69	8.56	19.0	66.5	2.5	10.400

6000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance, + Tolerances, -	
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	3.15	9.5	11.0	1.0	0.180
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	3.68	9.5	13.5	1.0	0.230
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	4.01	9.5	15.5	1.5	0.450
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	4.78	9.5	19.0	1.5	0.520
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	5.56	12.5	22.5	1.5	0.850
1"	33.9	34.3	19.9	21.5	6.93	7.92	6.35	12.5	27.0	2.0	1.250
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	6.35	12.5	32.0	2.0	1.750
1 1/2"	48.8	49.2	33.2	34.7	7.80	7.80	7.14	12.5	38.0	2.0	2.750
2"	61.2	61.7	42.1	43.6	9.50	9.50	8.74	16.0	41.0	2.0	4.000

9000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolerance, + Tolerances, -	
1/2"	21.8	22.2	5.6	7.2	8.18	9.35	7.47	9.5	25.5	1.5	1.010
3/4"	27.2	27.6	10.3	11.8	8.56	9.78	7.82	12.5	28.5	1.5	1.500
1"	33.9	34.3	14.4	16.0	9.96	11.38	9.09	12.5	32.0	2.0	2.250
1 1/4"	42.7	43.1	22.0	23.5	10.62	12.14	9.70	12.5	35.0	2.0	3.150
1 1/2"	48.8	49.2	27.2	28.7	11.12	12.70	10.15	12.5	38.0	2.0	3.650
2"	61.2	61.7	37.4	38.9	12.12	13.84	11.07	16.0	54.0	2.0	8.200

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

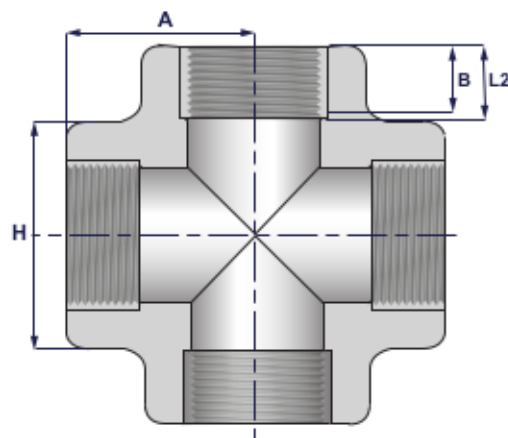
Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

TEE TASCA
SOCKET WELD TEE



2000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.205
1/4"	21	22	3.18	0.205
3/8"	25	25	3.18	0.235
1/2"	28	33	3.18	0.465
3/4"	33	38	3.18	0.610
1"	38	46	3.68	0.900
1 1/4"	44	56	3.89	1.240
1 1/2"	51	62	4.01	1.630
2"	60	75	4.27	2.450
2 1/2"	76	92	5.61	6.000
3"	86	109	5.99	9.300
4"	106	146	6.55	19.000

3000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	21	22	3.18	0.230
1/4"	25	25	3.30	0.285
3/8"	28	33	3.51	0.530
1/2"	33	38	4.09	0.760
3/4"	38	46	4.32	1.140
1"	44	56	4.98	1.760
1 1/4"	51	62	5.28	2.100
1 1/2"	60	75	5.56	3.850
2"	64	84	7.14	4.240
2 1/2"	83	102	7.65	9.300
3"	95	121	8.84	13.000
4"	114	152	11.18	25.000

6000 lbs

SIZE	A	H	G Spessore min. min. Wall Thickness	Peso Kg./Cad. Weight Kilos/Each
1/8"	25	25	6.35	0.320
1/4"	28	33	6.60	0.590
3/8"	33	38	6.98	0.830
1/2"	38	46	8.15	1.350
3/4"	44	56	8.53	2.040
1"	51	62	9.93	2.700
1 1/4"	60	75	10.59	4.500
1 1/2"	64	84	11.07	5.800
2"	83	102	12.09	11.600
2 1/2"	95	121	15.29	18.000
3"	106	146	16.64	28.500
4"	114	152	18.67	27.000

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

SIZE	B mini min.	L2 mini min.
1/8"	6.4	6.7
1/4"	8.1	10.2
3/8"	9.1	10.4
1/2"	10.9	13.6
3/4"	12.7	13.9
1"	14.7	17.3
1 1/4"	17.0	18.0
1 1/2"	17.8	18.4
2"	19.0	19.2
2 1/2"	23.6	28.9
3"	25.9	30.5
4"	27.7	33.0

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLLERANCES COMMON TO ALL CLASSES

SIZE	H	C
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

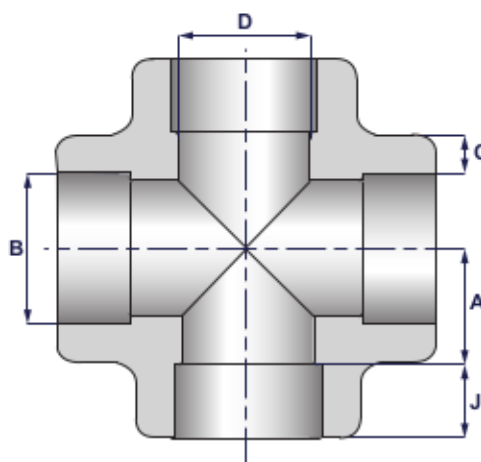
Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

CROCE FILETTATA
THREADED CROSS



3000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	2.41	9.5	11.0	1.0	0.205
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	3.02	9.5	11.0	1.0	0.205
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	3.20	9.5	13.5	1.5	0.235
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	3.73	9.5	15.5	1.5	0.450
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	3.91	12.5	19.0	1.5	0.610
1"	33.9	34.3	25.9	27.4	4.98	5.69	4.55	12.5	22.5	2.0	0.900
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	4.85	12.5	27.0	2.0	1.270
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	5.08	12.5	32.0	2.0	1.700
2"	61.2	61.7	51.7	53.3	6.04	6.93	5.54	16.0	38.0	2.0	2.450
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	7.01	16.0	41.0	2.5	4.900
3"	89.8	90.3	76.4	79.4	8.30	9.52	7.62	16.0	57.0	2.5	8.150
4"	115.2	115.7	100.7	103.8	9.35	10.69	8.56	19.0	66.5	2.5	13.000

6000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	3.15	9.5	11.0	1.0	0.230
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	3.68	9.5	13.5	1.0	0.285
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	4.01	9.5	15.5	1.5	0.570
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	4.78	9.5	19.0	1.5	0.650
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	5.56	12.5	22.5	1.5	1.060
1"	33.9	34.3	19.9	21.5	6.93	7.92	6.35	12.5	27.0	2.0	1.550
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	6.35	12.5	32.0	2.0	2.200
1 1/2"	48.8	49.2	33.2	34.7	7.80	7.80	7.14	12.5	38.0	2.0	2.420
2"	61.2	61.7	42.1	43.6	9.50	9.50	8.74	16.0	41.0	2.0	5.050

9000 lbs

SIZE	B		D		C*		G	J	A	A	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.	Min.		Tolleranze, ± Tolerances, ±	
1/2"	21.8	22.2	11.0	12.5	8.18	9.35	4.78	9.5	19.0	1.5	1.270
3/4"	27.2	27.6	14.8	16.3	8.56	9.78	5.56	12.5	22.5	1.5	1.875
1"	33.9	34.3	19.9	21.5	9.96	11.38	6.35	12.5	27.0	2.0	2.770
1 1/4"	42.7	43.1	28.7	30.2	10.62	12.14	6.35	12.5	32.0	2.0	3.950
1 1/2"	48.8	49.2	33.2	34.7	11.12	12.70	7.14	12.5	38.0	2.0	4.560
2"	61.2	61.7	42.1	43.6	12.12	13.84	8.74	16.0	41.0	2.0	10.000

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

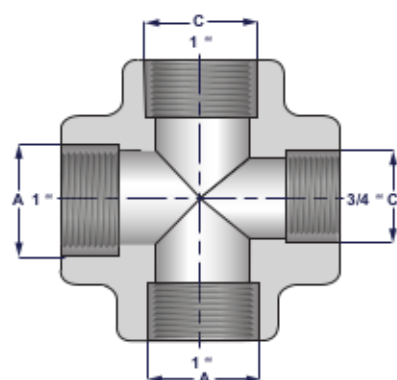


**CROCE TASCA
SOCKET WELD CROSS**

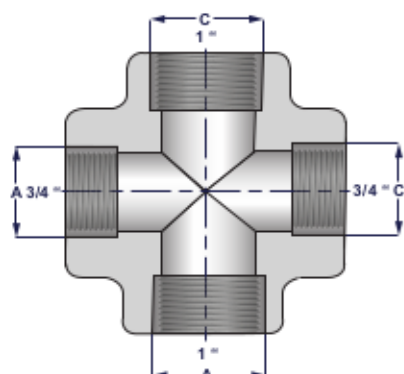


TEE E CROCI RIDOTTI FILETTATI REDUCING FITTINGS TEE AND CROSS THREADED

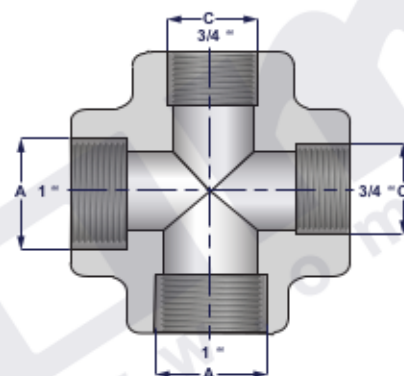
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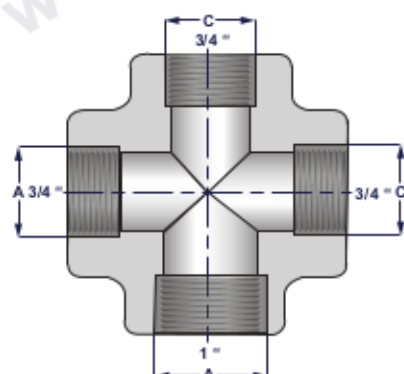
Reducing on one outlet
(1x1x1x3/4)



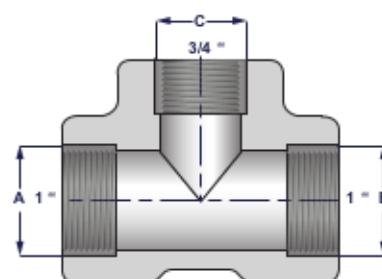
Reducing on one both outlet
(1x1x3/4x3/4)



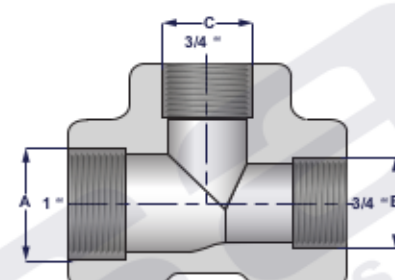
Reducing on one run and outlet
(1x3/4x1x3/4)



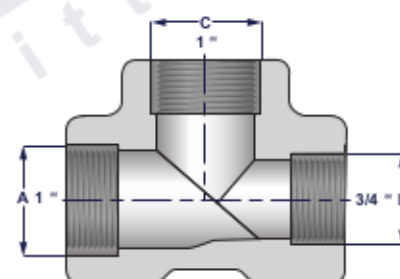
Reducing on one run and both outlet
(1x3/4x3/4x3/4)



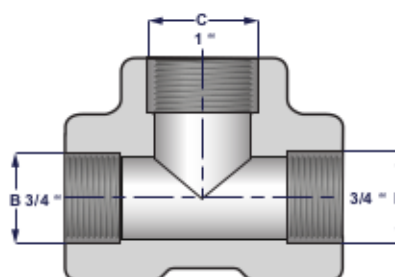
Reducing on outlet
(1x1x3/4)



Reducing on one run and outlet
(1x3/4x3/4)



Reducing on one run
(1x3/4x1)



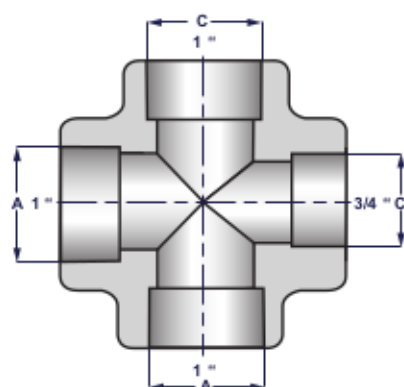
Reducing on both runs
(bullhead)
(3/4x3/4x1)

Note:

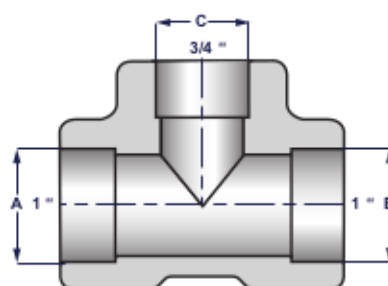
- Dimensioni in accordo ANSI B 16.11

Remarks:

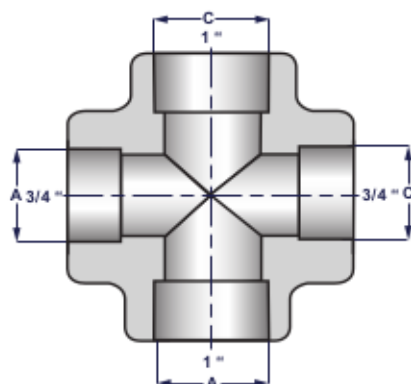
- Dimensions in compliance with ANSI B 16.11



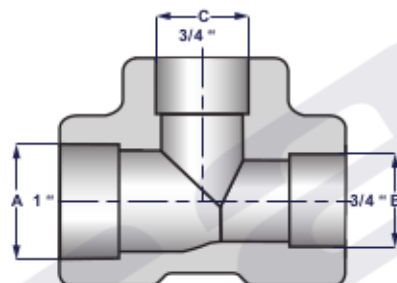
Reducing on one outlet
(1x1x1x3/4)



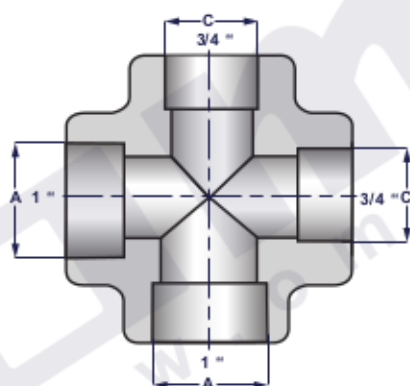
Reducing on outlet
(1x1x3/4)



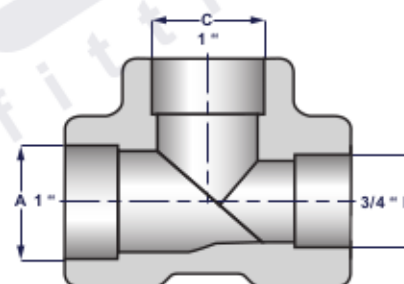
Reducing on one both outlet
(1x1x3/4x3/4)



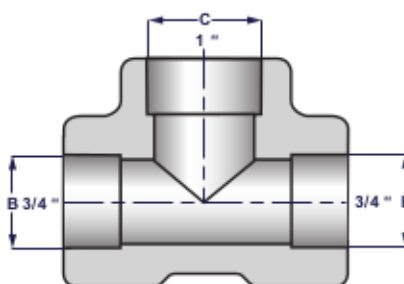
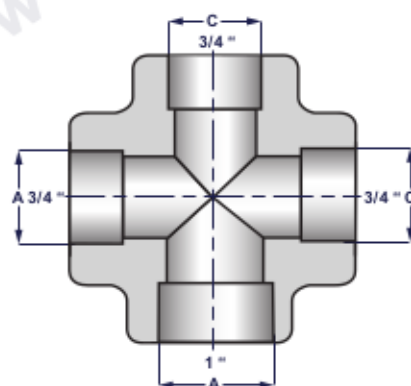
Reducing on one run and outlet
(1x3/4x3/4)



Reducing on one run and outlet
(1x3/4x1x3/4)



Reducing on one run
(1x3/4x1)



Reducing on both runs
(bullhead)
(3/4x3/4x1)

Note:

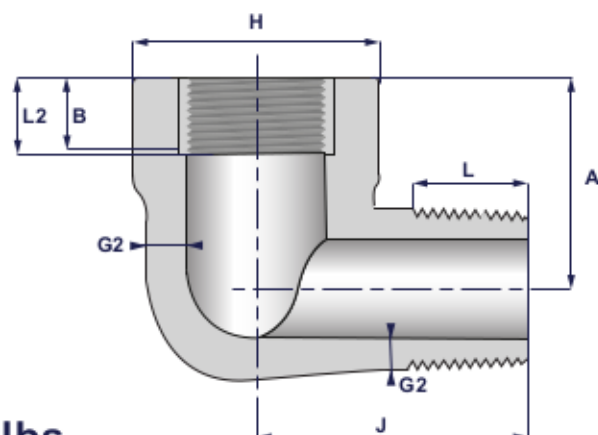
- Dimensioni in accordo ANSI B 16.11

Remarks:

- Dimensions in compliance with ANSI B 16.11



**TEE E CROCI RIDOTTI TASCA
REDUCING TEE SOCKET WELD ENDS**



3000 lbs

SIZE	A	J	H	G ₁ Min.	G ₂ Min.	B Min.	L2 Min.	L Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	19	25	19	3.18	2.74	6.4	6.7	10	0.100
1/4"	22	32	25	3.30	3.22	8.1	10.2	11	0.130
3/8"	25	38	32	3.51	3.50	9.1	10.4	13	0.215
1/2"	28	41	38	4.09	4.16	10.9	13.6	14	0.330
3/4"	35	48	44	4.32	4.88	12.7	13.9	16	0.540
1"	44	57	51	4.98	5.56	14.7	17.3	19	0.970
1 1/4"	51	66	62	5.28	5.56	17.0	18.0	21	1.100
1 1/2"	54	71	70	5.56	6.25	17.8	18.4	21	1.940
2"	64	84	84	7.14	7.64	19.0	19.2	22	2.340

6000 lbs

SIZE	A	J	H	G ₁ Min.	G ₂ Min.	B Min.	L2 Min.	L Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	22	32	25	5.08	4.22	6.4	6.7	10	0.130
1/4"	25	38	32	5.66	5.28	8.1	10.2	11	0.210
3/8"	28	41	38	6.98	5.59	9.1	10.4	13	0.330
1/2"	35	48	44	8.15	6.53	10.9	13.6	14	0.540
3/4"	44	57	51	8.53	6.86	12.7	13.9	16	0.970
1"	51	66	62	9.93	7.95	14.7	17.3	19	1.100
1 1/4"	54	71	70	10.59	8.48	17.0	18.0	21	1.940
1 1/2"	64	84	84	11.07	8.89	17.8	18.4	21	2.340
2"	83	105	102	12.09	9.70	19.0	19.2	22	5.000

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

DN SIZE	H	C
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

NOTE GENERALI: Dimensioni in millimetri.

Le dimensioni A - H
possono essere variate a discrezione del produttore.

GENERAL NOTES: Dimensions are in millimeters.

Dimensions A - H
for the appropriate fittings sizes may also be used at the option of the manufacturer

Note:

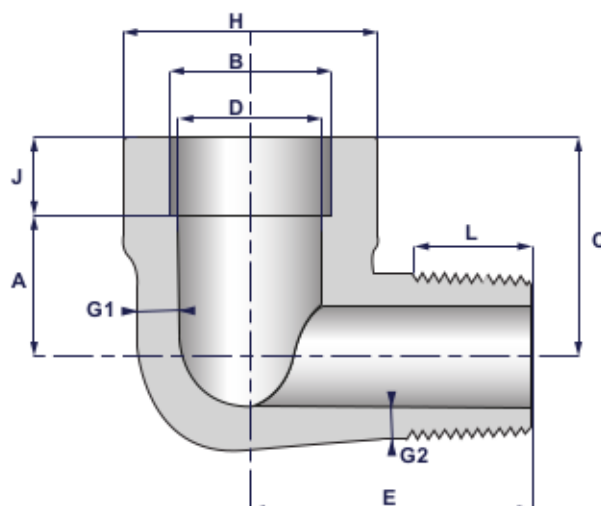
- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

**GOMITO M/F
M/F STREET ELBOW**

12



3000 lbs

SIZE	H	B		D		G ₁	G ₂	J	A	L	E	C	Peso Kg./Cad. Weight Kilos/Each
		Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.	Min.			
1/8"	19	10.8	11.2	6.1	7.6	3.18	2.74	9.5	11.0	10	25	19	0.100
1/4"	25	14.2	14.6	8.5	10.0	3.30	3.22	9.5	11.0	11	32	22	0.130
3/8"	32	17.6	18.0	11.8	13.3	3.51	3.50	9.5	13.5	13	38	25	0.215
1/2"	38	21.8	22.2	15.0	16.6	4.09	4.16	9.5	15.5	14	41	28	0.330
3/4"	44	27.2	27.6	20.2	21.7	4.32	4.88	12.5	19.0	16	48	35	0.540
1"	51	33.9	34.3	25.9	27.4	4.98	5.56	12.5	22.5	19	57	44	0.970
1 1/4"	62	42.7	43.1	34.3	35.8	5.28	5.56	12.5	27.0	21	66	51	1.100
1 1/2"	70	48.8	49.2	40.1	41.6	5.56	6.25	12.5	32.0	21	71	54	1.940
2"	84	61.2	61.7	51.7	53.3	7.14	7.64	16.0	38.0	22	84	64	2.340

6000 lbs

SIZE	H	B		D		G ₁	G ₂	J	A	L	E	C	Peso Kg./Cad. Weight Kilos/Each
		Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.	Min.			
1/8"	19	10.8	11.2	3.2	4.8	5.08	4.22	9.5	11.0	10	25	19	0.110
1/4"	25	14.2	14.6	5.6	7.1	5.66	5.28	9.5	11.0	11	32	22	0.145
3/8"	32	17.6	18.0	8.4	9.9	6.98	5.59	9.5	13.5	13	38	25	0.237
1/2"	38	21.8	22.2	11.0	12.5	8.15	6.53	9.5	15.5	14	41	28	0.363
3/4"	44	27.2	27.6	14.8	16.3	8.53	6.86	12.5	19.0	16	48	35	0.594
1"	51	33.9	34.3	19.9	21.5	9.93	7.95	12.5	22.5	19	57	44	1.067
1 1/4"	62	42.7	43.1	28.7	30.2	10.59	8.48	12.5	27.0	21	66	51	1.210
1 1/2"	70	48.8	49.2	33.2	34.7	11.07	8.89	12.5	32.0	21	71	54	2.134
2"	84	61.2	61.7	42.1	43.6	12.09	9.70	16.0	38.0	22	84	64	2.574

NOTE GENERALI: Dimensioni in millimetri.

Le dimensioni A - H possono essere variate a discrezione del produttore.

GENERAL NOTES: Dimensions are in millimeters.

Dimensions A- H for the appropriate fittings sizes may also be used at the option of the manufacturer

Note:

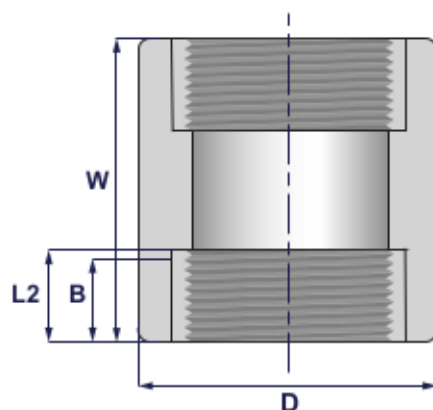
- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



**GOMITO M/F FILETTO PER TASCA
THREADED / SOCKET WELD M/F STREET ELBOW**



3000 lbs

SIZE	W	D	B min.	L2 min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	32	16	6.4	6.7	0.060
1/4"	35	19	8.1	10.2	0.070
3/8"	38	22	9.1	10.4	0.080
1/2"	48	28	10.9	13.6	0.170
3/4"	51	35	12.7	13.9	0.230
1"	60	44	14.7	17.3	0.460
1 1/4"	67	57	17.0	18.0	0.800
1 1/2"	79	64	17.8	18.4	1.110
2"	86	76	19.0	19.2	1.500
2 1/2"	92	92	23.6	28.9	2.300
3"	108	108	25.9	30.5	3.500
4"	121	140	27.7	33.0	6.000

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

SIZE	D	W
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

6000 lbs

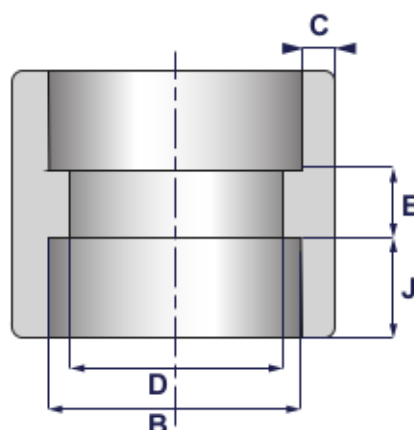
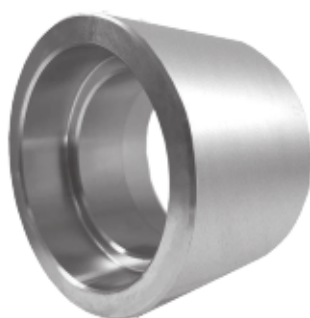
SIZE	W	D	B min.	L2 min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	32	22	6.4	6.7	0.100
1/4"	35	25	8.1	10.2	0.120
3/8"	38	32	9.1	10.4	0.210
1/2"	48	38	10.9	13.6	0.350
3/4"	51	44	12.7	13.9	0.490
1"	60	57	14.7	17.3	1.080
1 1/4"	67	64	17.0	18.0	1.160
1 1/2"	79	76	17.8	18.4	1.960
2"	86	92	19.0	19.2	2.940
2 1/2"	92	108	23.6	28.9	4.200
3"	108	127	25.9	30.5	6.300
4"	121	159	27.7	33.0	10.400

Note:

- Dimensioni in millimetri
- Dimensions in accord ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



3000 lbs

SIZE	B		D		C*		J	E	E	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.		Tolleranze ± Tolerances ±	
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	9.5	6.5	1.5	0.055
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	9.5	6.5	1.5	0.060
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	9.5	6.5	3.0	0.085
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	9.5	9.5	3.0	0.150
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	12.5	9.5	3.0	0.210
1"	33.9	34.3	25.9	27.4	4.98	5.69	12.5	12.5	4.0	0.350
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	12.5	12.5	4.0	0.475
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	12.5	12.5	4.0	0.620
2"	61.2	61.7	51.7	53.3	6.04	6.93	16.0	19.0	4.0	1.050
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	16.0	19.0	5.0	1.650
3"	89.8	90.3	76.4	79.4	8.30	9.52	16.0	19.0	5.0	2.200
4"	115.2	115.7	100.7	103.8	9.35	10.69	19.0	19.0	5.0	3.400

6000 lbs

SIZE	B		D		C*		J	E	E	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.		Tolleranze ± Tolerances ±	
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	9.5	6.5	1.5	0.060
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	9.5	6.5	1.5	0.075
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	9.5	6.5	3.0	0.110
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	9.5	9.5	3.0	0.200
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	12.5	9.5	3.0	0.310
1"	33.9	34.3	19.9	21.5	6.93	7.92	12.5	12.5	4.0	0.500
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	12.5	12.5	4.0	0.660
1 1/2"	48.8	49.2	33.2	34.7	7.80	8.92	12.5	12.5	4.0	0.890
2"	61.2	61.7	42.1	43.6	9.50	10.92	16.0	19.0	4.0	1.700

9000 lbs

SIZE	B		D		C*		J	E	E	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.		Tolleranze ± Tolerances ±	
1/2"	21.8	22.2	5.6	7.2	8.18	9.35	9.5	9.5	3.0	0.335
3/4"	27.2	27.6	10.3	11.8	8.56	9.78	12.5	9.5	3.0	0.440
1"	33.9	34.3	14.4	16.0	9.96	11.38	12.5	12.5	4.0	0.750
1 1/4"	42.7	43.1	22.0	23.5	0.62	12.14	12.5	12.5	4.0	1.040
1 1/2"	48.8	49.2	27.2	28.7	1.12	12.70	12.5	12.5	4.0	1.300
2"	61.2	61.7	37.4	38.9	2.12	13.84	16.00	19.0	4.0	2.200

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

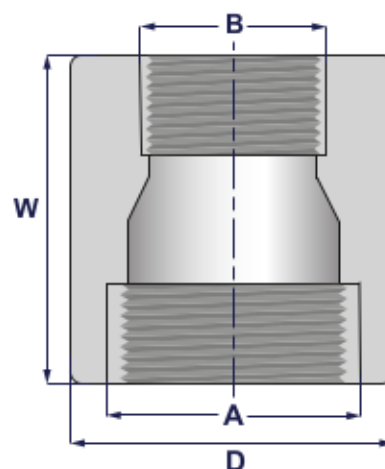
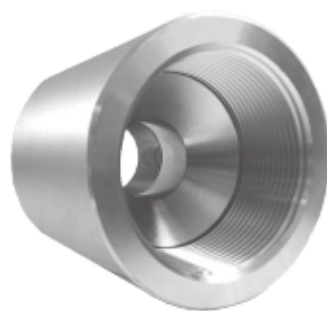
- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

**MANICOTTO A TASCA
SOCKET WELD COUPLING**



MANICOTTO FILETTATO RIDOTTO REDUCING THREADED COUPLING

16



3000 lbs

SIZE		W	D	Peso Kg./Cad. Weight Kilos/Each
A	B			
1/4" x 1/8"		35	19	0.084
3/8" x 1/8"		38	22	0.096
3/8" x 1/4"		38	22	0.096
1/2" x 1/4"		48	28	0.204
1/2" x 3/8"		48	28	0.204
3/4" x 3/8"		51	35	0.276
3/4" x 1/2"		51	35	0.276
1" x 1/2"		60	44	0.552
1" x 3/4"		60	44	0.552
1 1/4" x 1/2"		67	57	0.960
1 1/4" x 3/4"		67	57	0.960
1 1/4" x 1"		67	57	0.960
1 1/2" x 1/2"		79	64	1.332
1 1/2" x 3/4"		79	64	1.332
1 1/2" x 1"		79	64	1.332
1 1/2" x 1 1/4"		79	64	1.332
2" x 1/2"		86	76	1.800
2" x 3/4"		86	76	1.800
2" x 1"		86	76	1.800
2" x 1 1/4"		86	76	1.800
2" x 1 1/2"		86	76	1.800
2 1/2" x 1/2"		92	92	2.760
2 1/2" x 3/4"		92	92	2.760
2 1/2" x 1"		92	92	2.760
2 1/2" x 1 1/4"		92	92	2.760
2 1/2" x 1 1/2"		92	92	2.760
2 1/2" x 2"		92	92	2.760
3" x 1/2"		108	108	4.200
3" x 3/4"		108	108	4.200
3" x 1"		108	108	4.200
3" x 1 1/4"		108	108	4.200
3" x 1 1/2"		108	108	4.200
3" x 2"		108	108	4.200
3" x 2 1/2"		108	108	4.200
4" x 1/2"		121	140	7.200
4" x 3/4"		121	140	7.200
4" x 1"		121	140	7.200
4" x 1 1/4"		121	140	7.200
4" x 1 1/2"		121	140	7.200
4" x 2"		121	140	7.200
4" x 2 1/2"		121	140	7.200
4" x 3"		121	140	7.200

Note:

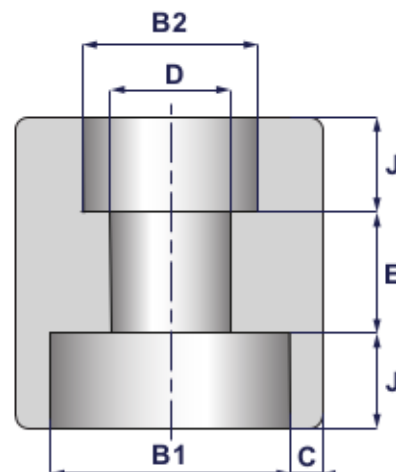
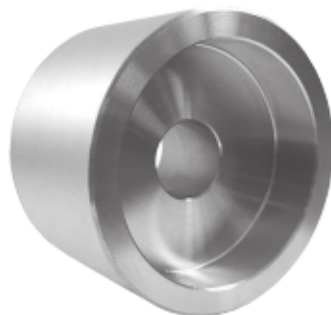
- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

6000 lbs

SIZE		W	D	Peso Kg./Cad. Weight Kilos/Each
A	B			
1/4" x 1/8"		35	25	0.144
3/8" x 1/8"		38	32	0.252
3/8" x 1/4"		38	32	0.252
1/2" x 1/4"		48	38	0.420
1/2" x 3/8"		48	38	0.420
3/4" x 3/8"		51	44	0.588
3/4" x 1/2"		51	44	0.588
1" x 1/2"		60	57	1.296
1" x 3/4"		60	57	1.296
1 1/4" x 1/2"		67	64	1.392
1 1/4" x 3/4"		67	64	1.392
1 1/4" x 1"		67	64	1.392
1 1/2" x 1/2"		79	76	2.352
1 1/2" x 3/4"		79	76	2.352
1 1/2" x 1"		79	76	2.352
1 1/2" x 1 1/4"		79	76	2.352
2" x 1/2"		86	92	3.528
2" x 3/4"		86	92	3.528
2" x 1"		86	92	3.528
2" x 1 1/4"		86	92	3.528
2" x 1 1/2"		86	92	3.528
2 1/2" x 1/2"		92	108	5.400
2 1/2" x 3/4"		92	108	5.400
2 1/2" x 1"		92	108	5.400
2 1/2" x 1 1/4"		92	108	5.400
2 1/2" x 1 1/2"		92	108	5.400
2 1/2" x 2"		92	108	5.400
3" x 1/2"		108	127	7.560
3" x 3/4"		108	127	7.560
3" x 1"		108	127	7.560
3" x 1 1/4"		108	127	7.560
3" x 1 1/2"		108	127	7.560
3" x 2"		108	127	7.560
3" x 2 1/2"		108	127	7.560
4" x 1/2"		121	159	12.480
4" x 3/4"		121	159	12.480
4" x 1"		121	159	12.480
4" x 1 1/4"		121	159	12.480
4" x 1 1/2"		121	159	12.480
4" x 2"		121	159	12.480
4" x 2 1/2"		121	159	12.480
4" x 3"		121	159	12.480

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



3000 lbs

SIZE	B1		B2		D		C*		J	E	E Tolleranze ± Tolerances ±	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Avg.				
¼" x ⅛"	14.2	14.6	10.8	11.2	6.1	7.6	3.30	3.78	9.5	6.5	1.5	0.072
⅜" x ⅛"	17.6	18.0	10.8	11.2	6.1	7.6	3.50	4.01	9.5	6.5	1.5	0.102
⅜" x ¼"	17.6	18.0	14.2	14.6	8.5	10.0	3.50	4.01	9.5	6.5	3.0	0.102
½" x ¼"	21.8	22.2	14.2	14.6	8.5	10.0	4.09	4.67	9.5	9.5	3.0	0.180
½" x ⅜"	21.8	22.2	17.6	18.0	11.8	13.3	4.09	4.67	9.5	9.5	3.0	0.180
¾" x ⅜"	27.2	27.6	17.6	18.0	11.8	13.3	4.27	4.90	12.5	9.5	3.0	0.252
¾" x ½"	27.2	27.6	21.8	22.2	15.0	16.6	4.27	4.90	12.5	9.5	3.0	0.252
1" x ½"	33.9	34.3	21.8	22.2	15.0	16.6	4.98	5.69	12.5	12.5	4.0	0.420
1" x ¾"	33.9	34.3	27.2	27.6	20.2	21.7	4.98	5.69	12.5	12.5	4.0	0.420
1 ¼" x ½"	42.7	43.1	21.8	22.2	15.0	16.6	5.28	6.07	12.5	12.5	4.0	0.570
1 ¼" x ¾"	42.7	43.1	27.2	27.6	20.2	21.7	5.28	6.07	12.5	12.5	4.0	0.570
1 ¼" x 1"	42.7	43.1	33.9	34.3	25.9	27.4	5.28	6.07	12.5	12.5	4.0	0.570
1 ½" x ½"	48.8	49.2	21.8	22.2	15.0	16.6	5.54	6.35	12.5	12.5	4.0	0.744
1 ½" x ¾"	48.8	49.2	27.2	27.6	20.2	21.7	5.54	6.35	12.5	12.5	4.0	0.744
1 ½" x 1"	48.8	49.2	33.9	34.3	25.9	27.4	5.54	6.35	12.5	12.5	4.0	0.744
1 ½" x 1 ¼"	48.8	49.2	42.7	43.1	34.3	35.8	5.54	6.35	12.5	12.5	4.0	0.744
2" x ½"	61.2	61.7	21.8	22.2	15.0	16.6	6.04	6.93	16.0	19.0	4.0	1.260
2" x ¾"	61.2	61.7	27.2	27.6	20.2	21.7	6.04	6.93	16.0	19.0	4.0	1.260
2" x 1"	61.2	61.7	33.9	34.3	25.9	27.4	6.04	6.93	16.0	19.0	4.0	1.260
2" x 1 ¼"	61.2	61.7	42.7	43.1	34.3	35.8	6.04	6.93	16.0	19.0	4.0	1.260
2" x 1 ½"	61.2	61.7	48.8	49.2	40.1	41.6	6.04	6.93	16.0	19.0	4.0	1.260
2 ½" x ½"	73.9	74.4	21.8	22.2	15.0	16.6	7.67	8.76	16.0	19.0	5.0	1.980
2 ½" x ¾"	73.9	74.4	27.2	27.6	20.2	21.7	7.67	8.76	16.0	19.0	5.0	1.980
2 ½" x 1"	73.9	74.4	33.9	34.3	25.9	27.4	7.67	8.76	16.0	19.0	5.0	1.980
2 ½" x 1 ¼"	73.9	74.4	42.7	43.1	34.3	35.8	7.67	8.76	16.0	19.0	5.0	1.980
2 ½" x 1 ½"	73.9	74.4	48.8	49.2	40.1	41.6	7.67	8.76	16.0	19.0	5.0	1.980
2 ½" x 2"	73.9	74.4	61.2	61.7	51.7	53.3	7.67	8.76	16.0	19.0	5.0	1.980
3" x ½"	89.8	90.3	21.8	22.2	15.0	16.6	8.30	9.52	16.0	19.0	5.0	2.640
3" x ¾"	89.8	90.3	27.2	27.6	20.2	21.7	8.30	9.52	16.0	19.0	5.0	2.640
3" x 1"	89.8	90.3	33.9	34.3	25.9	27.4	8.30	9.52	16.0	19.0	5.0	2.640
3" x 1 ¼"	89.8	90.3	42.7	43.1	34.3	35.8	8.30	9.52	16.0	19.0	5.0	2.640
3" x 1 ½"	89.8	90.3	48.8	49.2	40.1	41.6	8.30	9.52	16.0	19.0	5.0	2.640
3" x 2"	89.8	90.3	61.2	61.7	51.7	53.3	8.30	9.52	16.0	19.0	5.0	2.640
3" x 2 ½"	89.8	90.3	73.9	74.4	61.2	64.2	8.30	9.52	16.0	19.0	5.0	2.640
4" x ½"	115.2	115.7	21.8	22.2	15.0	16.6	9.35	10.69	19.0	19.0	5.0	4.148
4" x ¾"	115.2	115.7	27.2	27.6	20.2	21.7	9.35	10.69	19.0	19.0	5.0	4.148
4" x 1"	115.2	115.7	33.9	34.3	25.9	27.4	9.35	10.69	19.0	19.0	5.0	4.148
4" x 1 ¼"	115.2	115.7	42.7	43.1	34.3	35.8	9.35	10.69	19.0	19.0	5.0	4.148
4" x 1 ½"	115.2	115.7	48.8	49.2	40.1	41.6	9.35	10.69	19.0	19.0	5.0	4.148
4" x 2"	115.2	115.7	61.2	61.7	51.7	53.3	9.35	10.69	19.0	19.0	5.0	4.148
4" x 2 ½"	115.2	115.7	73.9	74.4	61.2	64.2	9.35	10.69	19.0	19.0	5.0	4.148
4" x 3"	115.2	115.7	89.8	90.3	76.4	79.4	9.35	10.69	19.0	19.0	5.0	4.148

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

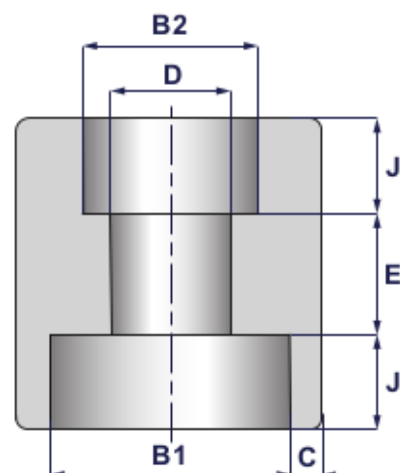
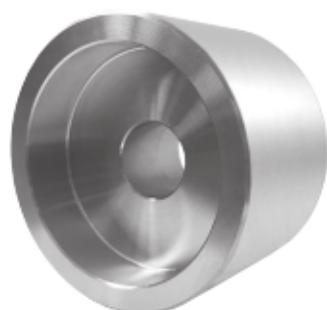


MANICOTTO TASCA RIDOTTO 3000 lbs
REDUCING SOCKET WELD COUPLING 3000 lbs



MANICOTTO TASCA RIDOTTO 6000 lbs
REDUCING SOCKET WELD COUPLING 6000 lbs

18



6000 lbs

SIZE	B1		B2		D		C*		J	E	E Tolleranze ± Tolerances ±	Peso Kg/Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Avg.				
¼" x ⅜"	14.2	14.6	10.8	11.2	3.2	4.8	4.01	4.60	9.5	6.5	1.5	0.090
⅜" x ½"	17.6	18.0	10.8	11.2	3.2	4.8	4.37	5.03	9.5	6.5	3.0	0.132
½" x ¾"	17.6	18.0	14.2	14.6	5.6	7.1	4.37	5.03	9.5	6.5	3.0	0.132
¾" x 1"	21.8	22.2	14.2	14.6	5.6	7.1	5.18	5.97	9.5	9.5	3.0	0.240
1" x 1 ¼"	21.8	22.2	17.6	18.0	8.4	9.9	5.18	5.97	9.5	9.5	3.0	0.240
1 ¼" x 1 ½"	27.2	27.6	17.6	18.0	8.4	9.9	6.04	6.96	12.5	9.5	3.0	0.372
1 ½" x 2"	27.2	27.6	21.8	22.2	11.0	12.5	6.04	6.96	12.5	9.5	3.0	0.372
2" x 2 ½"	33.9	34.3	21.8	22.2	11.0	12.5	6.93	7.92	12.5	12.5	4.0	0.600
2 ½" x 3"	33.9	34.3	27.2	27.6	14.8	16.3	6.93	7.92	12.5	12.5	4.0	0.600
3" x 3 ½"	42.7	43.1	21.8	22.2	11.0	12.5	6.93	7.92	12.5	12.5	4.0	0.792
3 ½" x 4"	42.7	43.1	27.2	27.6	14.8	16.3	6.93	7.92	12.5	12.5	4.0	0.792
4" x 4 ½"	42.7	43.1	33.9	34.3	19.9	21.5	6.93	7.92	12.5	12.5	4.0	0.792
4 ½" x 5"	48.8	49.2	21.8	22.2	11.0	12.5	7.80	8.92	12.5	12.5	4.0	1.068
5" x 5 ½"	48.8	49.2	27.2	27.6	14.8	16.3	7.80	8.92	12.5	12.5	4.0	1.068
5 ½" x 6"	48.8	49.2	33.9	34.3	19.9	21.5	7.80	8.92	12.5	12.5	4.0	1.068
6" x 6 ½"	48.8	49.2	42.7	43.1	28.7	30.2	7.80	8.92	12.5	12.5	4.0	1.068
6 ½" x 7"	61.2	61.7	21.8	22.2	11.0	12.5	9.50	10.92	16.0	19.0	4.0	2.040
7" x 7 ½"	61.2	61.7	27.2	27.6	14.8	16.3	9.50	10.92	16.0	19.0	4.0	2.040
7 ½" x 8"	61.2	61.7	33.9	34.3	19.9	21.5	9.50	10.92	16.0	19.0	4.0	2.040
8" x 8 ½"	61.2	61.7	42.7	43.1	28.7	30.2	9.50	10.92	16.0	19.0	4.0	2.040
8 ½" x 9"	61.2	61.7	48.8	49.2	33.2	34.7	9.50	10.92	16.0	19.0	4.0	2.040

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

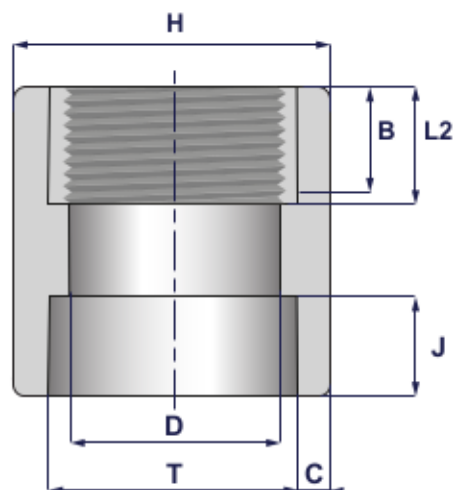
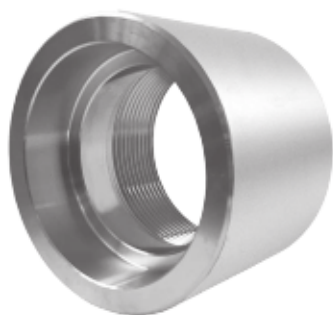
* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



3000 lbs

SIZE	T		D		C*		H	J	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.			
¼"	14.2	14.6	8.5	10.0	3.30	3.78	22	9.5	0.040
⅜"	17.6	18.0	11.8	13.3	3.50	4.01	28	9.5	0.066
½"	21.8	22.2	15.0	16.6	4.09	4.67	32	9.5	0.106
¾"	27.2	27.6	20.2	21.7	4.27	4.90	38	12.5	0.157
1"	33.9	34.3	25.9	27.4	4.98	5.69	45	12.5	0.260
1 ¼"	42.7	43.1	34.3	35.8	5.28	6.07	60	12.5	0.460
1 ½"	48.8	49.2	40.1	41.6	5.54	6.35	65	12.5	0.580
2"	61.2	61.7	51.7	53.3	6.04	6.93	76	16.0	0.750
2 ½"	73.9	74.4	61.2	64.2	7.67	8.76	95	16.0	1.044
3"	89.8	90.3	76.4	79.4	8.30	9.52	108	16.0	1.750
4"	115.2	115.7	100.7	103.8	9.35	10.69	140	19.0	3.125

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

SIZE	B		L2
	Min.	Max.	
¼"	8.1	10.2	
⅜"	9.1	10.4	
½"	10.9	13.6	
¾"	12.7	13.9	
1"	14.7	17.3	
1 ¼"	17.0	18.0	
1 ½"	17.8	18.4	
2"	19.0	19.2	
2 ½"	23.6	28.9	
3"	25.9	30.5	
4"	27.7	33.0	

6000 lbs

SIZE	T		D		C*		H	J	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.			
¼"	14.2	14.6	5.6	7.1	4.01	4.60	25.0	9.5	0.050
⅜"	17.6	18.0	8.4	9.9	4.37	5.03	32.0	9.5	0.090
½"	21.8	22.2	11.0	12.5	5.18	5.97	38.5	9.5	0.155
¾"	27.2	27.6	14.8	16.3	6.04	6.96	45.0	12.5	0.235
1"	33.9	34.3	19.9	21.5	6.93	7.92	60.0	12.5	0.480
1 ¼"	42.7	43.1	28.7	30.2	6.93	7.92	65.0	12.5	0.600
1 ½"	48.8	49.2	33.2	34.7	7.80	8.92	76.0	12.5	0.900
2"	61.2	61.7	42.1	43.6	9.50	10.92	95.0	16.0	1.500
2 ½"	73.9	74.4	52.0	56.0	12.00	12.00	110.0	16.0	2.300
3"	89.8	90.3	64.0	68.0	12.20	12.20	140.0	16.0	3.900

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

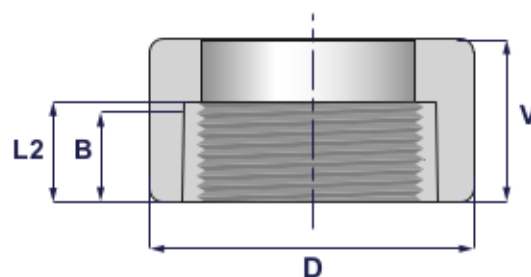
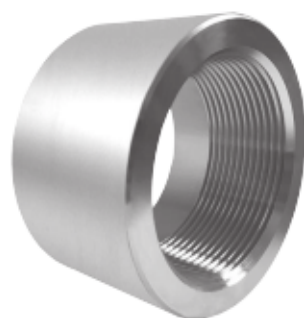
- Dimensioni in millimetri
- Dimensione in accordo allo standard OMSA
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with OMSA's standard
- Weights are approximate



MANICOTTO A TASCA/FILETTATO
SOCKET WELD/THREADED COUPLING



3000 lbs

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

SIZE	V	D	B Min.	L2 Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	16	16	6.4	6.7	0.030
1/4"	17.5	19	8.1	10.2	0.035
3/8"	19	22	9.1	10.4	0.040
1/2"	24	28	10.9	13.6	0.085
3/4"	25.5	35	12.7	13.9	0.115
1"	30	44	14.7	17.3	0.230
1 1/4"	33.5	57	17.0	18.0	0.400
1 1/2"	39.5	64	17.8	18.4	0.555
2"	43	76	19.0	19.2	0.750
2 1/2"	46	92	23.6	28.9	1.150
3"	54	108	25.9	30.5	1.750
4"	60.5	140	27.7	33.0	3.000

SIZE	D	V
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

6000 lbs

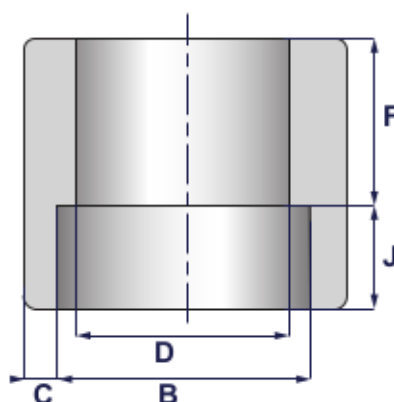
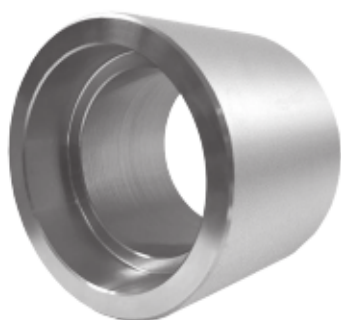
SIZE	V	D	B Min.	L2 Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	16	22	6.4	6.7	0.050
1/4"	17.5	25	8.1	10.2	0.060
3/8"	19	32	9.1	10.4	0.105
1/2"	24	38	10.9	13.6	0.175
3/4"	25.5	44	12.7	13.9	0.245
1"	30	57	14.7	17.3	0.540
1 1/4"	33.5	64	17.0	18.0	0.580
1 1/2"	39.5	76	17.8	18.4	0.980
2"	43	92	19.0	19.2	1.470
2 1/2"	46	108	23.6	28.9	2.100
3"	54	127	25.9	30.5	3.150
4"	60.5	159	27.7	33.0	5.200

Note:

- Dimensioni in millimetri
- Dimensions in accordance with ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



3000 lbs

SIZE	B		D		C*		J	F	F Tolleranze Tollerances	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.				
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	9.5	16.0	1.5	0.060
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	9.5	16.0	1.5	0.070
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	9.5	17.5	3.0	0.100
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	9.5	22.5	3.0	0.170
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	12.5	24.0	3.0	0.240
1"	33.9	34.3	25.9	27.4	4.98	5.69	12.5	28.5	4.0	0.400
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	12.5	30.0	4.0	0.545
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	12.5	32.0	4.0	0.710
2"	61.2	61.7	51.7	53.3	6.04	6.93	16.0	41.0	4.0	1.200
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	16.0	43.0	5.0	1.900
3"	89.8	90.3	76.4	79.4	8.30	9.52	16.0	44.5	5.0	2.550
4"	115.2	115.7	100.7	103.8	9.35	10.69	19.0	48.0	5.0	3.950

6000 lbs

SIZE	B		D		C*		J	F	F Tolleranze Tollerances	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.				
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	9.5	16.0	1.5	0.070
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	9.5	16.0	1.5	0.090
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	9.5	17.5	3.0	0.130
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	9.5	22.5	3.0	0.230
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	12.5	24.0	3.0	0.360
1"	33.9	34.3	19.9	21.5	6.93	7.92	12.5	28.5	4.0	0.580
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	12.5	30.0	4.0	0.770
1 1/2"	48.8	49.2	33.2	34.7	7.80	8.92	12.5	32.0	4.0	1.050
2"	61.2	61.7	42.1	43.6	9.50	10.92	16.0	41.0	4.0	2.000

9000 lbs

SIZE	B		D		C*		J	F	F Tolleranze Tollerances	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.				
1/2"	21.8	22.2	5.6	7.2	8.18	9.35	9.5	22.5	3.0	0.375
3/4"	27.2	27.6	10.3	11.8	8.56	9.78	12.5	24.0	3.0	0.500
1"	33.9	34.3	14.4	16.0	9.96	11.38	12.5	28.5	4.0	0.850
1 1/4"	42.7	43.1	22.0	23.5	10.62	12.14	12.5	30.0	4.0	1.190
1 1/2"	48.8	49.2	27.2	28.7	11.12	12.70	12.5	32.0	4.0	1.500
2"	61.2	61.7	37.4	38.9	12.12	13.84	16.0	41.0	4.0	2.540

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

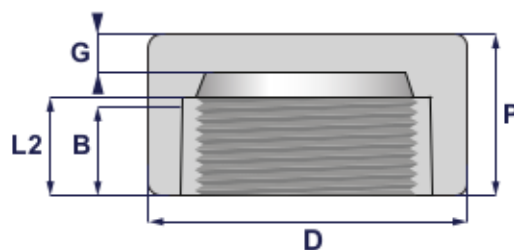
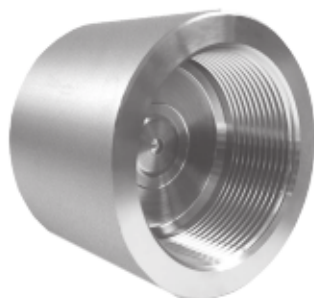
- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



**MEZZO MANICOTTO A TASCA
SOCKET WELD HALF COUPLING**



3000 lbs

SIZE	P	D	B Min.	L2 Min.	G	Peso Kg./Cad. Weight Kilos/Each
1/8"	19	16	6.4	6.7	4.8	0.030
1/4"	25	19	8.1	10.2	4.8	0.045
3/8"	25	22	9.1	10.4	4.8	0.060
1/2"	32	28	10.9	13.6	6.4	0.130
3/4"	37	35	12.7	13.9	6.4	0.200
1"	41	44	14.7	17.3	9.7	0.350
1 1/4"	44	57	17.0	18.0	9.7	0.640
1 1/2"	44	64	17.8	18.4	11.2	0.770
2"	48	76	19.0	19.2	12.7	1.128
2 1/2"	60	92	23.6	28.9	15.7	2.000
3"	65	108	25.9	30.5	19.0	3.000
4"	68	140	27.7	33.0	22.4	5.500

6000 lbs

SIZE	P	D	B Min.	L2 Min.	G	Peso Kg./Cad. Weight Kilos/Each
1/8"	22	22	6.4	6.7	6.4	0.055
1/4"	27	25	8.1	10.2	6.4	0.100
3/8"	27	32	9.1	10.4	6.4	0.160
1/2"	33	38	10.9	13.6	7.9	0.265
3/4"	38	44	12.7	13.9	7.9	0.410
1"	43	57	14.7	17.3	11.2	0.740
1 1/4"	46	64	17.0	18.0	11.2	0.920
1 1/2"	48	76	17.8	18.4	12.7	1.380
2"	51	92	19.0	19.2	15.7	2.100
2 1/2"	64	108	23.6	28.9	19.0	3.500
3"	68	127	25.9	30.5	22.4	5.000
4"	75	159	27.7	33.0	28.4	8.600

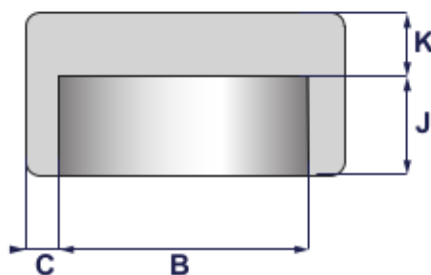
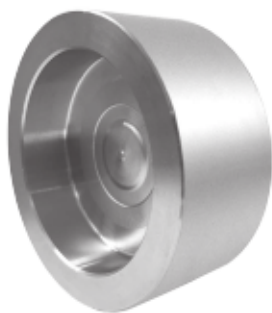
Note:

- Dimensioni in millimetri
- Dimensione in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with ANSI B 16.11
- Weights are approximate

TAPPO FEMMINA FILETTATO
FEMALE THREADED PLUGS



3000 lbs

SIZE	B		C*		J	K	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Avg.	Min.	Min.	
1/8"	10.8	11.2	3.18	3.18	9.5	4.8	0.035
1/4"	14.2	14.6	3.30	3.78	9.5	4.8	0.050
3/8"	17.6	18.0	3.50	4.01	9.5	4.8	0.070
1/2"	21.8	22.2	4.09	4.67	9.5	6.4	0.110
3/4"	27.2	27.6	4.27	4.90	12.5	6.4	0.175
1"	33.9	34.3	4.98	5.69	12.5	9.6	0.260
1 1/4"	42.7	43.1	5.28	6.07	12.5	9.6	0.435
1 1/2"	48.8	49.2	5.54	6.35	12.5	11.2	0.580
2"	61.2	61.7	6.04	6.93	16.0	12.7	1.000
2 1/2"	73.9	74.4	7.67	8.76	16.0	15.7	1.700
3"	89.8	90.3	8.30	9.52	16.0	19.0	2.600
4"	115.2	115.7	9.35	10.69	19.0	22.4	4.200

6000 lbs

SIZE	B		C*		J	K	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Avg.	Min.	Min.	
1/8"	10.8	11.2	3.43	3.96	9.5	6.4	0.070
1/4"	14.2	14.6	4.01	4.60	9.5	6.4	0.090
3/8"	17.6	18.0	4.37	5.03	9.5	6.4	0.130
1/2"	21.8	22.2	5.18	5.97	9.5	7.9	0.155
3/4"	27.2	27.6	6.04	6.96	12.5	7.9	0.260
1"	33.9	34.3	6.93	7.92	12.5	11.2	0.400
1 1/4"	42.7	43.1	6.93	7.92	12.5	11.2	0.630
1 1/2"	48.8	49.2	7.80	8.92	12.5	12.7	0.860
2"	61.2	61.7	9.50	10.92	16.0	15.7	1.600

9000 lbs

SIZE	B		C*		J	K	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Avg.	Min.	Min.	
1/2"	21.8	22.2	8.18	9.35	9.5	11.2	0.375
3/4"	27.2	27.6	8.56	9.78	12.5	12.7	0.500
1"	33.9	34.3	9.96	11.38	12.5	14.2	0.850
1 1/4"	42.7	43.1	10.62	12.14	12.5	14.2	1.190
1 1/2"	48.8	49.2	11.12	12.70	12.5	15.7	1.500
2"	61.2	61.7	12.12	13.84	16.0	19.0	2.540

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



TAPPO MASCHIO E RIDUZIONE M/F FILETTATI TESTA ESAGONALE **THREADED MALE PLUG AND THREADED HEX HEAD BUSHING**

24



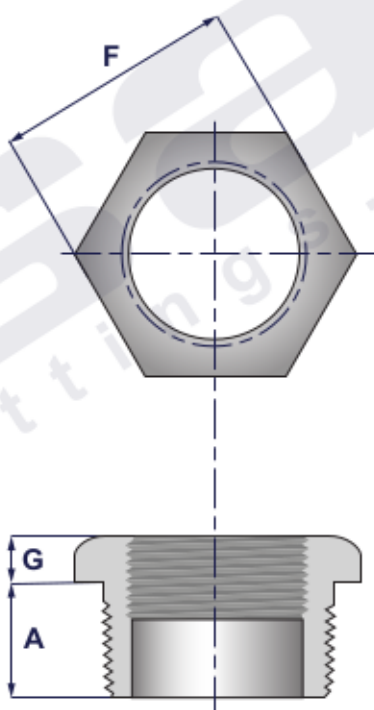
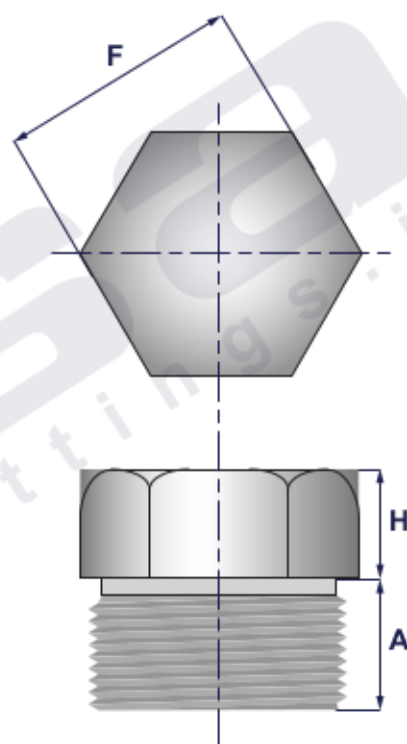
SIZE	A Min.	H Min.	F	Peso Kg./Cad. Weight KJlos/Each
1/4"	11	6	16.00	0.025
3/8"	13	8	19.00	0.045
1/2"	14	8	22.00	0.070
3/4"	16	10	27.00	0.125
1"	19	10	35.00	0.220
1 1/4"	21	14	46.00	0.410
1 1/2"	21	16	51.00	0.570
2"	22	18	63.50	0.900
2 1/2"	27	19	76.00	1.600
3"	28	21	90.00	2.500
4"	32	25	118.00	5.000



SIZE	A Min.	G	F	Peso Kg./Cad. Weight KJlos/Each
1/4"	11	3	16.00	0.020
3/8"	13	4	19.00	0.025
1/2"	14	5	22.00	0.040
3/4"	16	6	27.00	0.070
1"	19	6	35.00	0.115
1 1/4"	21	7	46.00	0.230
1 1/2"	21	8	51.00	0.250
2"	22	9	63.50	0.500
2 1/2"	27	10	76.00	0.750
3"	28	10	90.00	1.150
4"	32	13	118.00	2.500

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

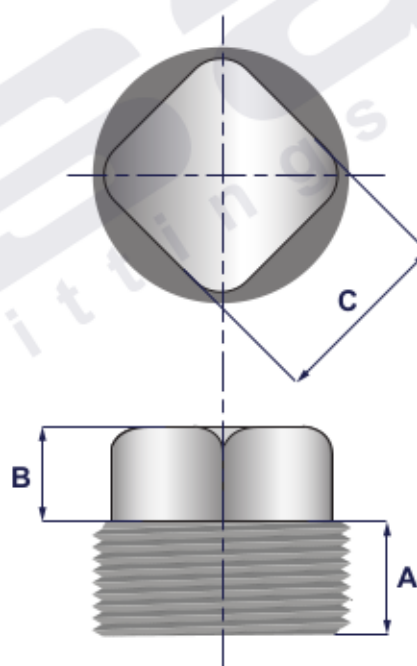


Remarks:

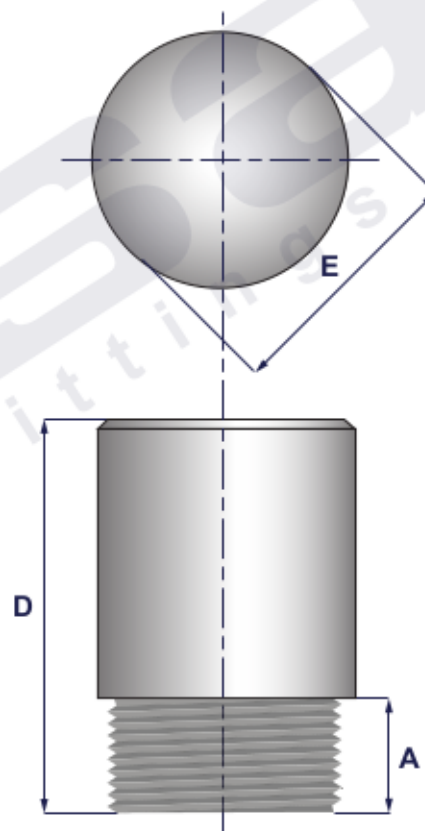
- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



SIZE	A Min.	B Min.	C Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	10	6	7.15	0.015
1/4"	11	6	9.55	0.020
3/8"	13	8	11.11	0.035
1/2"	14	10	14.29	0.055
3/4"	16	11	15.88	0.090
1"	19	13	20.64	0.170
1 1/4"	21	14	23.81	0.290
1 1/2"	21	16	28.58	0.390
2"	22	18	33.27	0.600
2 1/2"	27	19	38.10	1.100
3"	28	21	42.86	1.700
4"	32	25	63.50	3.500



SIZE	A Min.	D Min.	E	Peso Kg./Cad. Weight Kilos/Each
1/8"	10	35	10	0.025
1/4"	11	41	14	0.050
3/8"	13	41	18	0.075
1/2"	14	44	22	0.125
3/4"	16	44	28	0.200
1"	19	51	35	0.350
1 1/4"	21	51	45	0.555
1 1/2"	21	51	50	0.725
2"	22	64	60	1.420
2 1/2"	27	70	75	2.250
3"	28	70	89	3.400
4"	32	76	115	6.100



Note:

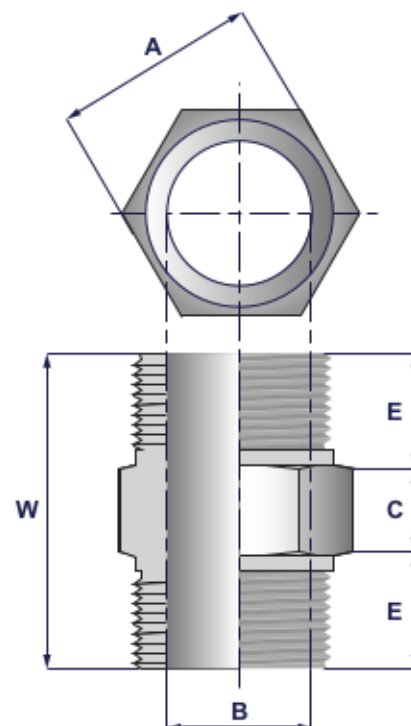
- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



**TAPPO FILETTATO TESTA QUADRA E TONDA
THREADED SQUARE HEAD AND ROUND HEAD PLUG**



3000 lbs

SIZE	B	A Min.	W Min.	C Min.	E	Peso Kg./Cad. Weight Kilos/Each
1/4"	8	16	36	6	15	0.030
3/8"	11	19	40	8	16	0.045
1/2"	14	22	48	8	20	0.070
3/4"	19	27	52	10	21	0.105
1"	24	35	60	10	25	0.180
1 1/4"	32	46	66	14	26	0.290
1 1/2"	38	50	68	16	26	0.355
2"	49	62	71	17	27	0.530
2 1/2"	59	76	99	19	40	1.050
3"	73.5	90	104	20	42	1.650
4"	97	118	114	22	46	2.550

6000 lbs

SIZE	B	A Min.	W Min.	C Min.	E Min.	Peso Kg./Cad. Weight Kilos/Each
1/4"	6	16	36	6	15	0.035
3/8"	8	19	40	8	16	0.055
1/2"	11	22	48	8	20	0.100
3/4"	13	27	52	10	21	0.160
1"	17	35	60	10	25	0.280
1 1/4"	22	46	66	14	26	0.450
1 1/2"	30	50	68	16	26	0.560
2"	39	62	71	17	27	0.870
2 1/2"	45	76	99	19	40	1.630
3"	58.5	90	104	20	42	2.600
4"	80	118	114	22	46	4.200

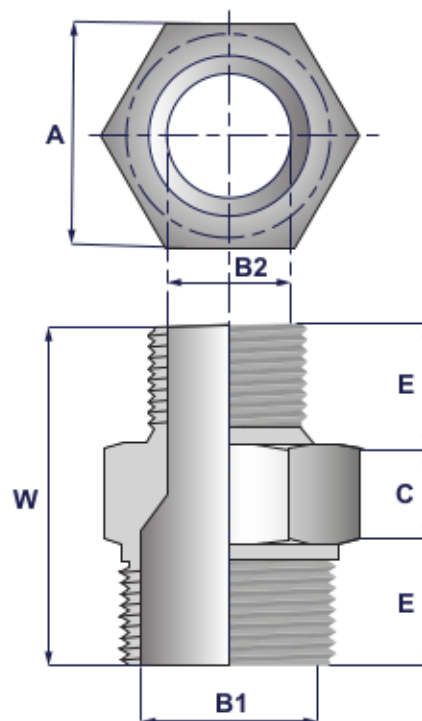
Note:

- Dimensioni in millimetri
- Dimensioni in accordo BS 3799
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with BS 3799
- Weights are approximate

**NIPPLO ESAGONALE FILETTATO
THREADED HEXAGONAL NIPPLE**



SIZE		3000 lbs		6000 lbs		A	W	C	E	3000 lbs	6000 lbs
A	B	B1	B2	B1	B2	Min.	Min.	Min.	Min.	Peso Kg./Cad. Weight Kilos/Each	Peso Kg./Cad. Weight Kilos/Each
3/8"	1/4"	11	8	8	6	19	40	8	16	0.045	0.050
1/2"	1/4"	14	8	11	6	22	48	8	20	0.060	0.075
1/2"	3/8"	14	11	11	8	22	48	8	20	0.060	0.080
3/4"	3/8"	19	11	13	8	27	52	10	21	0.090	0.125
3/4"	1/2"	19	14	13	11	27	52	10	21	0.100	0.145
1"	1/2"	24	14	17	11	35	60	10	25	0.160	0.230
1"	3/4"	24	19	17	13	35	60	10	25	0.165	0.250
1 1/4"	1/2"	32	14	22	11	46	66	14	26	0.265	0.370
1 1/4"	3/4"	32	19	22	13	46	66	14	26	0.270	0.385
1 1/4"	1"	32	24	22	17	46	66	14	26	0.285	0.420
1 1/2"	1/2"	38	14	30	11	50	68	16	26	0.335	0.545
1 1/2"	3/4"	38	19	30	13	50	68	16	26	0.340	0.540
1 1/2"	1"	38	24	30	17	50	68	16	26	0.350	0.480
1 1/2"	1 1/4"	38	32	30	22	50	68	16	26	0.350	0.460
2"	1/2"	49	14	39	11	62	71	17	27	0.510	0.700
2"	3/4"	49	19	39	13	62	71	17	27	0.515	0.720
2"	1"	49	24	39	17	62	71	17	27	0.525	0.760
2"	1 1/4"	49	32	39	22	62	71	17	27	0.525	0.800
2"	1 1/2"	49	38	39	30	62	71	17	27	0.525	0.810
2 1/2"	1"	59	24	45	17	76	99	19	40	0.950	1.400
2 1/2"	1 1/4"	59	32	45	22	76	99	19	40	0.950	1.350
2 1/2"	1 1/2"	59	38	45	30	76	99	19	40	0.950	1.350
2 1/2"	2"	59	49	45	39	76	99	19	40	0.950	1.400
3"	1"	73.5	24	58.5	17	90	104	20	42	1.500	2.150
3"	1 1/4"	73.5	32	58.5	22	90	104	20	42	1.500	2.150
3"	1 1/2"	73.5	38	58.5	30	90	104	20	42	1.500	2.150
3"	2"	73.5	49	58.5	39	90	104	20	42	1.500	2.200
3"	2 1/2"	73.5	59	58.5	45	90	104	20	42	1.500	2.400
4"	1"	97	24	80	17	118	114	22	46	2.400	3.900
4"	1 1/4"	97	32	80	22	118	114	22	46	2.400	3.900
4"	1 1/2"	97	38	80	30	118	114	22	46	2.400	3.900
4"	2"	97	49	80	39	118	114	22	46	2.400	3.900
4"	2 1/2"	97	59	80	45	118	114	22	46	2.400	3.900
4"	3"	97	73.5	80	58.5	118	114	22	46	2.400	3.900

Note:

- Dimensioni in millimetri
- Dimensioni in accordo BS 3799
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with BS 3799
- Weights are approximate



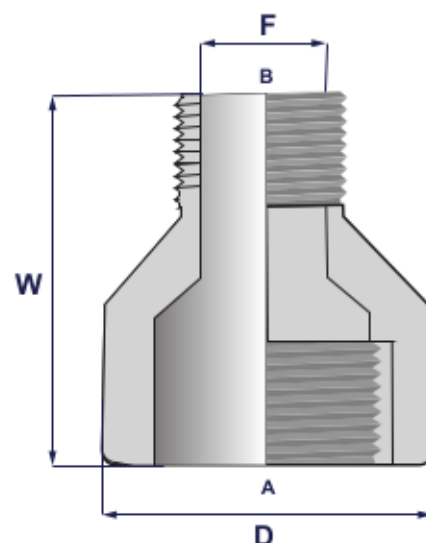
NIPPO ESAGONALE FILETTATO RIDOTTO
HEXAGONAL RED. NIPPLE THREADED



MANICOTTO F/M FILETTATA THREADED F/M COUPLING

28

Dimensions purely indicative, Omsa reserves the right to modify them



3000 lbs

SIZE		W	D	F	Peso Kg./Cad. Weight Kilos/Each
A	B				
3/8" x 1/4"		38	22	6	0.125
1/2" x 1/4"		48	28	6	0.265
1/2" x 3/8"		48	28	9	0.265
3/4" x 3/8"		51	35	9	0.358
3/4" x 1/2"		51	35	12	0.358
1" x 1/2"		60	44	12	0.720
1" x 3/4"		60	44	16	0.720
1 1/4" x 1/2"		67	57	12	1.250
1 1/4" x 3/4"		67	57	16	1.250
1 1/4" x 1"		67	57	21	1.250
1 1/2" x 1/2"		79	64	12	1.731
1 1/2" x 3/4"		79	64	16	1.731
1 1/2" x 1"		79	64	21	1.731
1 1/2" x 1 1/4"		79	64	29.5	1.731
2" x 1/2"		86	76	12	2.340
2" x 3/4"		86	76	16	2.340
2" x 1"		86	76	21	2.340
2" x 1 1/4"		86	76	29.5	2.340
2" x 1 1/2"		86	76	34	2.340
2 1/2" x 1/2"		92	92	12	3.590
2 1/2" x 3/4"		92	92	16	3.590
2 1/2" x 1"		92	92	21	3.590
2 1/2" x 1 1/4"		92	92	29.5	3.590
2 1/2" x 1 1/2"		92	92	34	3.590
2 1/2" x 2"		92	92	42	3.590
3" x 1/2"		108	108	12	5.460
3" x 3/4"		108	108	16	5.460
3" x 1"		108	108	21	5.460
3" x 1 1/4"		108	108	29.5	5.460
3" x 1 1/2"		108	108	34	5.460
3" x 2"		108	108	42	5.460
3" x 2 1/2"		108	108	54	5.460
4" x 1/2"		121	140	12	9.360
4" x 3/4"		121	140	16	9.360
4" x 1"		121	140	21	9.360
4" x 1 1/4"		121	140	29.5	9.360
4" x 1 1/2"		121	140	34	9.360
4" x 2"		121	140	42	9.360
4" x 2 1/2"		121	140	54	9.360
4" x 3"		121	140	66	9.360

6000 lbs

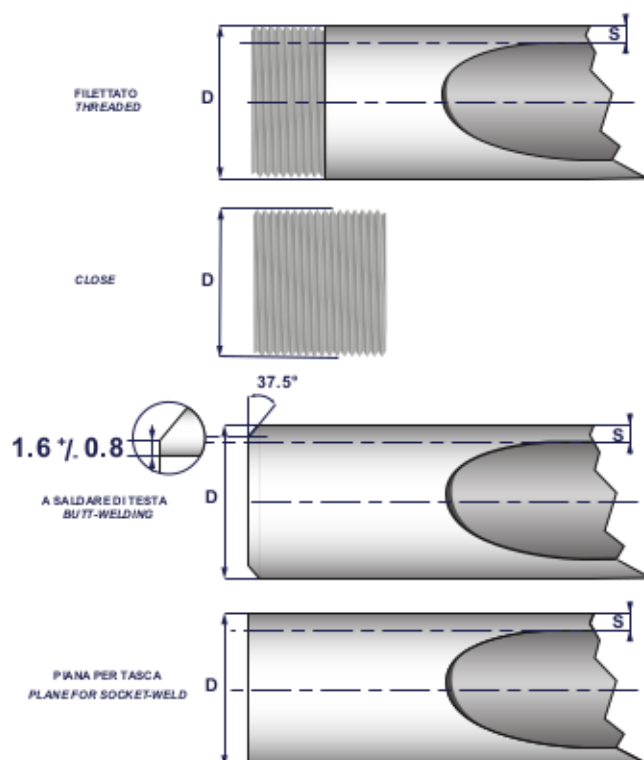
SIZE		W	D	F	Peso Kg./Cad. Weight Kilos/Each
A	B				
1/2" x 1/4"		48	38	4	0.265
1/2" x 3/8"		48	38	4.3	0.265
3/4" x 3/8"		51	44	4.3	0.359
3/4" x 1/2"		51	44	6.3	0.359
1" x 1/2"		60	57	6.3	0.717
1" x 3/4"		60	57	11	0.717
1 1/4" x 1/2"		67	64	6.3	0.960
1 1/4" x 3/4"		67	64	11	0.960
1 1/4" x 1"		67	64	15.5	0.960
1 1/2" x 1/2"		79	76	6.3	1.332
1 1/2" x 3/4"		79	76	11	1.332
1 1/2" x 1"		79	76	15.5	1.332
1 1/2" x 1 1/4"		79	76	22	1.332
2" x 1/2"		86	92	6.3	1.800
2" x 3/4"		86	92	11	1.800
2" x 1"		86	92	15.5	1.800
2" x 1 1/4"		86	92	22	1.800
2" x 1 1/2"		86	92	27	1.800
2 1/2" x 1/2"		92	108	6.3	2.760
2 1/2" x 3/4"		92	108	11	2.760
2 1/2" x 1"		92	108	15.5	2.760

Note:

- Dimensioni in millimetri
- Dimensioni in accordo allo standard OMSA
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with OMSA's standard
- Weights are approximate



SIZE	D	D Tolleranze Tolerances	Pipe Nipple lengths close	S Schedule STD - 40 - 40 S		S Schedule XS - 80 - 80 S		S Schedule 160		S Schedule XXS		TOLLERANZE COMUNI A TUTTE LE SCHEDULE TOLERANCES COMMON TO ALL SCHEDULE
			inches mm	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	
1/4"	13.7	±0.4	7/8"	22.0	2.24	0.63	3.02	0.80	3.68 *	-	6.05 *	Tolleranze sullo spessore + 12.5 % - 12.5 % Permitted variations in wall thickness
3/8"	17.1	±0.4	1"	25.4	2.31	0.84	3.20	1.10	4.01 *	-	6.40 *	
1/2"	21.3	±0.4	1 1/4"	28.5	2.77	1.27	3.73	1.62	4.78	1.95	7.47	
3/4"	26.7	±0.4	1 3/8"	35.0	2.87	1.69	3.91	2.20	5.56	2.90	7.82	
1"	33.4	±0.4	1 1/2"	38.0	3.38	2.50	4.55	3.24	6.35	4.24	9.09	
1 1/4"	42.2	±0.4	1 3/4"	41.0	3.56	3.39	4.85	4.47	6.35	5.61	9.70	
1 1/2"	48.3	±0.4	2"	44.5	3.68	4.05	5.08	5.41	7.14	7.25	10.15	
2"	60.3	±0.8	2 1/2"	51.0	3.91	5.44	5.54	7.48	8.74	11.11	11.07	
2 1/2"	73.0	±0.8	3"	63.5	5.16	8.63	7.01	11.41	9.52	14.92	14.02	
3"	88.9	±0.8	3 1/2"	66.5	5.49	11.29	7.62	15.27	11.13	21.35	15.24	
4"	114.3	±0.8	4"	73.0	6.02	16.07	8.56	22.32	13.49	33.54	17.12	

SIZE	L = 50 mm				L = 76 mm				L = 100 mm				L = 150 mm			
	sch. 40	sch. 80	sch. 160	XXS	sch. 40	sch. 80	sch. 160	XXS	sch. 40	sch. 80	sch. 160	XXS	sch. 40	sch. 80	sch. 160	XXS
1/4"	0.032	0.040	-	-	0.048	0.061	-	-	0.063	0.080	-	-	0.095	0.121	-	-
3/8"	0.042	0.055	-	-	0.064	0.084	-	-	0.084	0.110	-	-	0.127	0.167	-	-
1/2"	0.064	0.081	0.098	0.128	0.097	0.123	0.148	0.194	0.127	0.162	0.195	0.255	0.192	0.245	0.295	0.386
3/4"	0.085	0.110	0.145	0.182	0.129	0.167	0.221	0.277	0.169	0.220	0.290	0.364	0.256	0.333	0.439	0.552
1"	0.125	0.162	0.212	0.273	0.190	0.246	0.322	0.414	0.250	0.324	0.424	0.545	0.379	0.491	0.642	0.826
1 1/4"	0.170	0.224	0.281	0.389	0.258	0.340	0.427	0.591	0.339	0.447	0.561	0.777	0.514	0.677	0.850	1.177
1 1/2"	0.203	0.271	0.363	0.478	0.308	0.411	0.551	0.727	0.405	0.541	0.725	0.956	0.614	0.820	1.098	1.448
2"	0.272	0.374	0.556	0.672	0.414	0.569	0.845	1.022	0.544	0.748	1.111	1.344	0.824	1.133	1.683	2.036
2 1/2"	0.432	0.571	0.746	1.020	0.656	0.868	1.135	1.551	0.863	1.141	1.492	2.039	1.308	1.729	2.261	3.089
3"	0.565	0.764	1.068	1.384	0.859	1.161	1.624	2.105	1.129	1.527	2.135	2.768	1.711	2.314	3.235	4.194
3 1/2"	0.678	0.932	-	-	1.032	1.417	-	-	1.357	1.863	-	-	2.056	2.823	-	-
4"	0.804	1.116	1.677	2.052	1.222	1.697	2.551	3.120	1.607	2.232	3.354	4.103	2.435	3.382	5.082	6.217

Note:

- Dimensioni in millimetri
- Dimensioni in accordo B 36.10 / B 36.19
- Lunghezza nipple close in accordo ASTM A733
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with B 36.10 / B 36.19
- Pipe Nipple lengths close in compliance ASTM A733
- Weights are approximate

* Non contemplati dalla normativa B 36.10 ma in accordo alla B 16.11

* Not covered by the regulations B 36.10 but in compliance with B 16.11

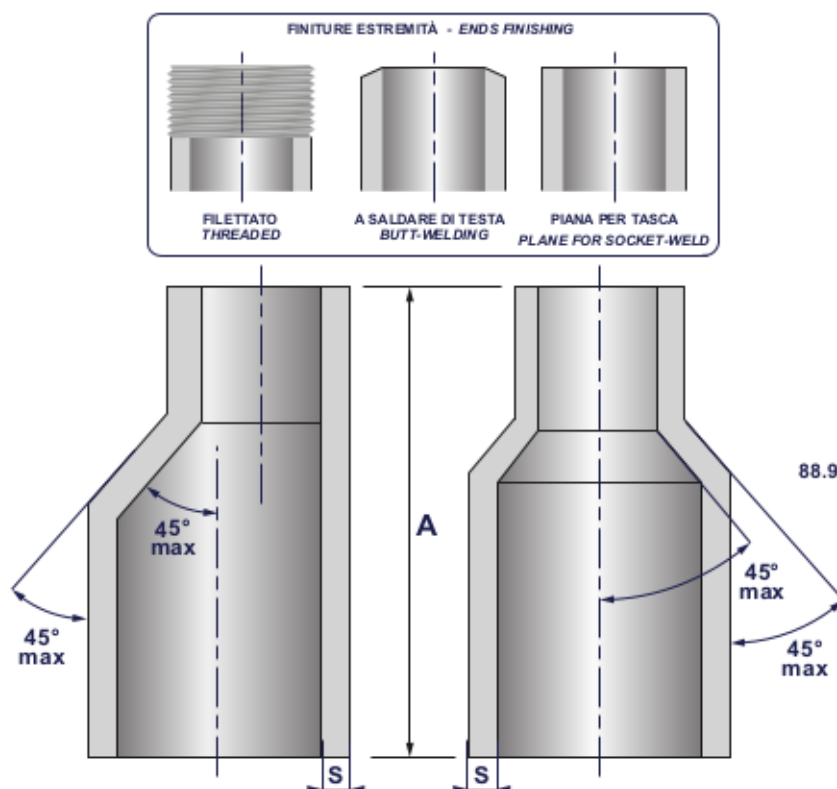


NIPPLI TUBO
PIPE NIPPLE



NPPLLO TUBO RIDOTTO CONCENTRICO ED ECCENTRICO CONCENTRIC AND ECCENTRIC SWAGE NIPPLE

30

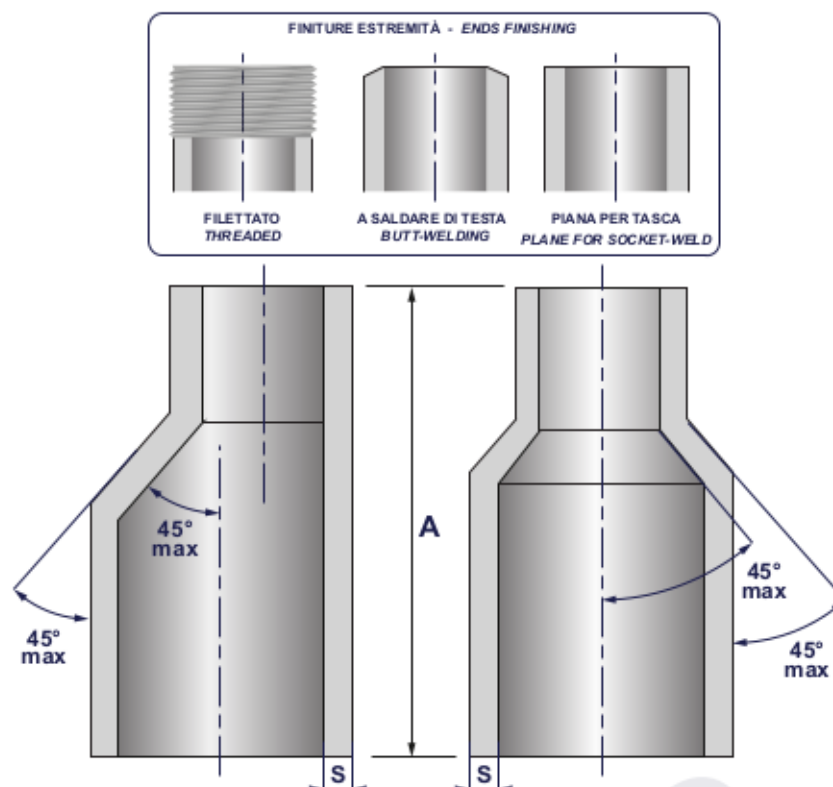


SIZE	DIAMETRO ESTERNO OUTSIDE DIAMETRES		Peso Kg./Cad. Weight Kilos/Each MSS SP-95				Peso Kg./Cad. Weight Kilos/Each BS 3799					
	Diametro Maggiore Large Diametres	Diametro Minore Small Diametres	A	A	S	Schedule 40	Schedule 80	Schedule 160	Schedule XXS	Schedule 80	Schedule 160	Schedule XXS
			MSS SP-95	BS 3799								
1/4" x 3/8"	13.7	10.3	57	-	Spessore e tolleranza vedi pag. 29 Thickness and tolerance see pag. 29	0.036	0.046	-	-	-	-	-
	17.1	10.3	64	76		0.054	0.070	-	-	0.084	-	-
	17.1	13.7	64	76		0.054	0.070	-	-	0.084	-	-
1/2" x 3/8"	21.3	13.7	70	89		0.089	0.110	0.135	0.175	0.145	0.174	0.325
	21.3	17.1	70	89		0.089	0.110	0.135	0.175	0.145	0.174	0.325
3/4" x 3/8"	26.7	13.7	76	95		0.129	0.165	0.215	0.270	0.209	0.276	0.346
	26.7	17.1	76	95		0.129	0.165	0.215	0.270	0.209	0.276	0.346
	26.7	21.3	76	95		0.129	0.165	0.215	0.270	0.209	0.276	0.346
1" x 3/8"	33.4	13.7	89	102		0.223	0.285	0.370	0.480	0.330	0.432	0.556
	33.4	17.1	89	102		0.223	0.285	0.370	0.480	0.330	0.432	0.556
	33.4	21.3	89	102		0.223	0.285	0.370	0.480	0.330	0.432	0.556
	33.4	26.7	89	102		0.223	0.285	0.370	0.480	0.330	0.432	0.556
1 1/4" x 3/4"	42.2	21.3	102	-		0.345	0.450	0.570	0.785	-	-	-
	42.2	26.7	102	-		0.345	0.450	0.570	0.785	-	-	-
	42.2	33.4	102	-		0.345	0.450	0.570	0.785	-	-	-
1 1/2" x 1"	48.3	21.3	114	114		0.462	0.600	0.820	1.050	0.600	0.820	1.050
	48.3	26.7	114	114		0.462	0.600	0.820	1.050	0.600	0.820	1.050
	48.3	33.4	114	114		0.462	0.600	0.820	1.050	0.600	0.820	1.050
	48.3	42.2	114	114	0.462	0.600	0.820	1.050	0.600	0.820	1.050	

Quate puramente indicative, Omsa si riserva di modificarle
Dimensions purely indicative, Omsa reserves the right to modify

- Note:
- Dimensioni in millimetri
 - Dimensioni in accordo MSS SP 95
 - I pesi sono indicativi

- Remarks:
- Dimensions are in millimeters
 - Dimensions in compliance with MSS SP 95
 - Weights are approximate



SIZE	DIAMETRO ESTERNO OUTSIDE DIAMETRES				S	Peso Kg./Cad. Weight Kilos/Each				Peso Kg./Cad. Weight Kilos/Each			BS 3799
	Diametro Maggiore Large Diameters	Diametro Minore Small Diameters	A	A		MSS SP-95							
			MSS SP-95	BS3799		Schedule 40	Schedule 80	Schedule 160	Schedule XXS	Schedule 80	Schedule 160	Schedule XXS	
2" x 1"	½"	60.3	21.3	165	165	0.897	1.200	1.800	2.200	1.200	1.800	2.200	
	¾"	60.3	26.7	165	165	0.897	1.200	1.800	2.200	1.200	1.800	2.200	
	1"	60.3	33.4	165	165	0.897	1.200	1.800	2.200	1.200	1.800	2.200	
	1 ¼"	60.3	42.2	165	165	0.897	1.200	1.800	2.200	1.200	1.800	2.200	
	1 ½"	60.3	48.3	165	165	0.897	1.200	1.800	2.200	1.200	1.800	2.200	
2 ½" x 1 ¼"	¾"	73.0	26.7	178	178	1.541	2.000	2.600	3.600	2.000	2.600	3.600	
	1"	73.0	33.4	178	178	1.541	2.000	2.600	3.600	2.000	2.600	3.600	
	1 ¼"	73.0	42.2	178	178	1.541	2.000	2.600	3.600	2.000	2.600	3.600	
	1 ½"	73.0	48.3	178	178	1.541	2.000	2.600	3.600	2.000	2.600	3.600	
	2"	73.0	60.3	178	178	1.541	2.000	2.600	3.600	2.000	2.600	3.600	
3" x 1 ½"	¾"	88.9	26.7	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
	1"	88.9	33.4	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
	1 ¼"	88.9	42.2	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
	1 ½"	88.9	48.3	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
	2"	88.9	60.3	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
4" x 3"	2 ½"	88.9	73.0	203	203	2.300	3.000	4.300	5.500	3.000	4.300	5.500	
	1"	114.3	33.4	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	
	1 ¼"	114.3	42.2	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	
	1 ½"	114.3	48.3	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	
	2"	114.3	60.3	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	
3"	2 ½"	114.3	73.0	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	
	3"	114.3	88.9	229	229	3.737	5.000	7.500	9.200	5.000	7.500	9.200	

Note:

- Dimensioni in millimetri
- Dimensioni in accordo MSS SP 95
- I pesi sono indicativi

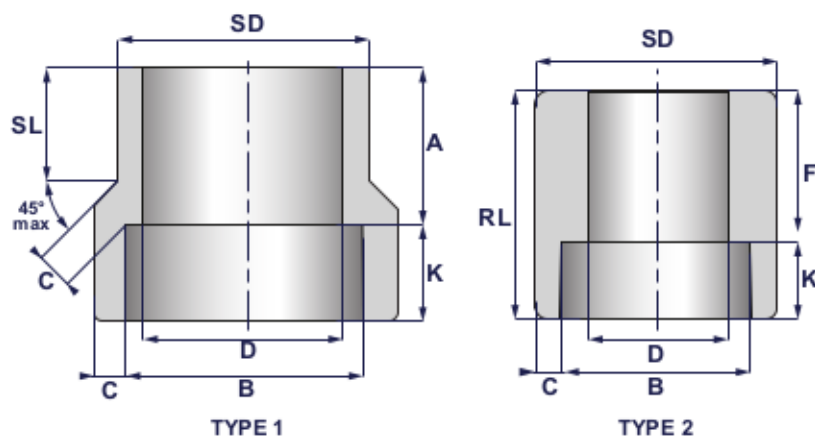
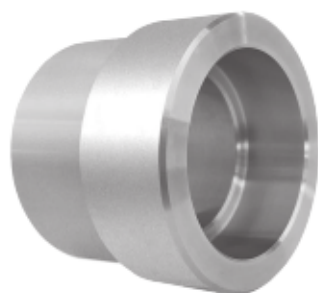
Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with MSS SP 95
- Weights are approximate



INSERTO RIDOTTO TASCA - MSS SP-79 SOCKET WELDING REDUCING INSERT - MSS SP-79

32



NORMAL PIPE SIZE	Type		B	K Min.	SD	A		D		C		SL		RL		Peso Kg./Cad. Weight Kilos/Each			
	3M	6M				3M	6M	3M	6M	3M	6M	3M	6M	3M	6M	3M	6M	3M	6M
3/8" x 1/4"	1	1	14.4	9.5	17.1	19.0	21.3	9.2	6.3	3.78	4.60	14.2	15.7	-	-	0.075	0.100		
1/2" x 1/4"	1	1	14.4	9.5	21.3	20.6	20.6	9.2	6.3	3.78	4.60	15.7	15.7	-	-	0.080	0.110		
	1	1	17.8	9.5	21.3	20.6	20.6	12.5	9.1	4.01	5.03	15.7	15.7	-	-	0.085	0.120		
3/4" x 1/4"	2	2	14.4	9.5	26.7	17.5	22.4	9.2	6.3	3.78	4.60	-	-	26.9	32.0	0.100	0.130		
	2	1	17.8	9.5	26.7	15.7	22.4	12.5	9.1	4.01	5.03	-	19.0	26.9	-	0.100	0.170		
	1	1	22.0	9.5	26.7	22.4	25.4	15.8	11.7	4.67	5.97	17.5	19.0	-	-	0.140	0.200		
1" x 1/4"	2	2	14.4	9.5	33.4	19.0	23.9	9.2	6.3	3.78	4.60	-	-	28.4	33.2	0.150	0.210		
	2	2	17.8	9.5	33.4	17.5	22.4	12.5	9.1	4.01	5.03	-	-	28.4	33.2	0.150	0.210		
	2	1	22.0	9.5	33.4	15.7	28.4	15.8	11.7	4.67	5.97	-	20.6	28.4	-	0.165	0.290		
	1	1	27.4	12.5	33.4	23.9	28.4	20.9	15.5	4.90	6.96	19.0	20.6	-	-	0.200	0.330		
1 1/4" x 1/4"	2	2	14.4	9.5	42.2	22.4	25.4	6.3	9.2	3.78	4.60	-	-	31.7	34.7	0.230	0.365		
	2	2	17.8	9.5	42.2	20.6	23.9	12.5	9.1	4.01	5.03	-	-	31.7	34.7	0.230	0.365		
	2	2	22.0	9.5	42.2	19.0	22.4	15.8	11.7	4.67	5.97	-	-	31.7	34.7	0.230	0.365		
	2	2	27.4	12.5	42.2	17.5	20.6	20.9	15.5	4.90	6.96	-	-	31.7	34.7	0.260	0.380		
	1	1	34.1	12.5	42.2	25.4	30.2	26.6	20.7	5.69	7.92	20.6	22.4	-	-	0.350	0.520		
1 1/2" x 1/4"	2	2	17.8	9.5	48.2	22.4	28.4	12.5	9.1	4.01	5.03	-	-	33.2	39.6	0.370	0.490		
	2	2	22.0	9.5	48.2	20.6	26.9	15.8	11.7	4.67	5.97	-	-	33.2	39.6	0.370	0.490		
	2	2	27.4	12.5	48.2	19.0	25.4	20.9	15.5	4.90	6.96	-	-	33.2	39.6	0.360	0.500		
	1	1	34.1	12.5	48.2	17.5	29.2	26.6	20.7	5.69	7.92	-	25.4	33.2	-	0.380	0.650		
1 3/4" x 1/4"	1	1	42.9	12.5	48.2	28.4	35.0	35.0	29.4	6.07	7.92	22.4	25.4	-	-	0.420	0.650		

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

TOLLERANZE - TOLERANCE

A	
Sizes 3/8 - 3/4	+1.5/-0.00
Sizes 1 - 2	+2.0/-0.00
Sizes 2 1/4 - 4	+2.5/-0.00

B	
Sizes 1/4 - 1 1/2	+0.20/-0.20
Sizes 2 - 3	+0.30/-0.20

D	
Sizes 1/4 - 2	+0.80/-0.80
Sizes 2 1/2 - 3	+1.5/-1.5

SD	
Sizes 3/8 - 1 1/2	+0.25/-0.25
Sizes 2 - 3	+0.50/-0.50
Sizes 4	+0.80/-0.80

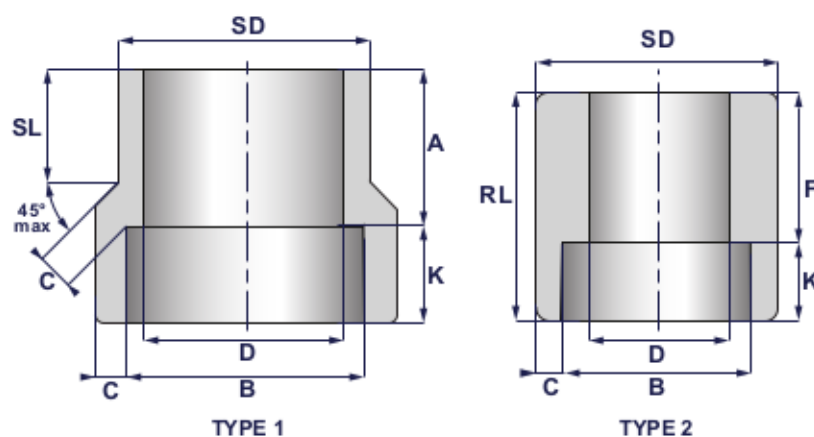
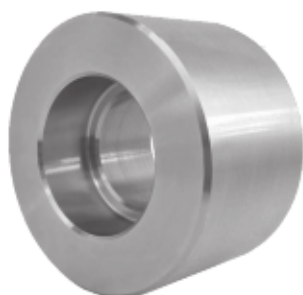
SL	
Sizes 3/8 - 3/4	+0.00/-1.50
Sizes 1 - 2	+0.00/-2.00
Sizes 2 1/2 - 4	+0.00/-2.50

Note:

- Dimensioni in millimetri
- Dimensioni in accordo MSS SP 79
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with MSS SP 79
- Weights are approximate



NORMAL PIPE SIZE	Type		B	K Min.	SD	A		D		C*		SL		RL		Peso Kg./Cad. Weight Kilos/Each		
								Avg.				Min.						
	3M	6M				3M	6M	3M	6M	3M	6M	3M	6M	3M	6M	3M	6M	
2" x	1/2"	2	2	22.0	9.5	60.3	25.4	28.4	15.8	11.7	4.67	5.97	-	-	38.1	41.1	0.620	0.850
	3/4"	2	2	27.4	12.5	60.3	23.9	26.9	20.9	15.5	4.90	6.96	-	-	38.1	41.1	0.600	0.850
	1"	2	2	34.1	12.5	60.3	22.4	25.4	26.6	20.7	5.69	7.92	-	-	38.1	41.1	0.600	0.860
	1 1/4"	2	2	42.9	12.5	60.3	20.6	23.9	35.0	29.4	6.07	7.92	-	-	38.1	41.1	0.560	0.820
	1 1/2"	1	1	49.0	12.5	60.3	31.8	38.9	40.8	33.9	6.35	8.92	25.4	28.7	-	-	0.670	1.050
2 1/2" x	3/4"	2	2	27.4	12.5	73.0	39.6	38.1	20.9	15.5	4.90	6.96	-	-	53.8	53.8	0.980	1.350
	1"	2	2	34.1	12.5	73.0	38.1	38.1	26.6	20.7	5.69	7.92	-	-	53.8	53.8	0.980	1.350
	1 1/4"	2	2	42.9	12.5	73.0	36.6	36.6	35.0	29.4	6.07	7.92	-	-	53.8	53.8	0.930	1.350
	1 1/2"	2	2	49.0	12.5	73.0	35.0	35.0	40.8	33.9	6.35	8.92	-	-	53.8	53.8	0.900	1.350
	2"	1	1	61.4	16.0	73.0	46.0	42.7	52.4	42.8	6.93	10.92	38.1	31.8	-	-	1.000	1.800
3" x	1"	2	2	34.1	12.5	88.9	31.8	31.8	26.6	20.7	5.69	7.92	-	-	47.4	53.8	1.550	2.150
	1 1/4"	2	2	42.9	12.5	88.9	30.2	31.8	35.0	29.4	6.07	7.92	-	-	47.4	53.8	1.500	2.100
	1 1/2"	2	2	49.0	12.5	88.9	28.4	31.8	40.8	33.9	6.35	8.92	-	-	47.4	53.8	1.450	2.100
	2"	2	2	61.4	16.0	88.9	25.4	31.8	52.4	42.8	6.93	10.92	-	-	47.4	53.8	1.350	2.100
	2 1/2"	1	1	74.1	16.0	88.9	38.1	57.2	62.7	54.0	8.76	-	31.8	44.4	-	-	1.650	2.600
4" x	1 1/4"	2	2	42.9	12.5	114.3	42.9	-	35.0	-	6.07	-	-	-	60.4	-	2.400	-
	1 1/2"	2	2	49.0	12.5	114.3	41.1	-	40.8	-	6.35	-	-	-	60.4	-	2.200	-
	2"	2	2	61.4	16.0	114.3	38.1	-	52.4	-	6.93	-	-	-	60.4	-	2.000	-
	2 1/2"	2	2	74.1	16.0	114.3	38.1	-	62.7	-	8.76	-	-	-	60.4	-	1.750	-
	3"	2	1	90.0	16.0	114.3	33.3	-	77.9	-	9.52	-	-	-	60.4	-	1.500	-

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

TOLLERANZE - TOLERANCE

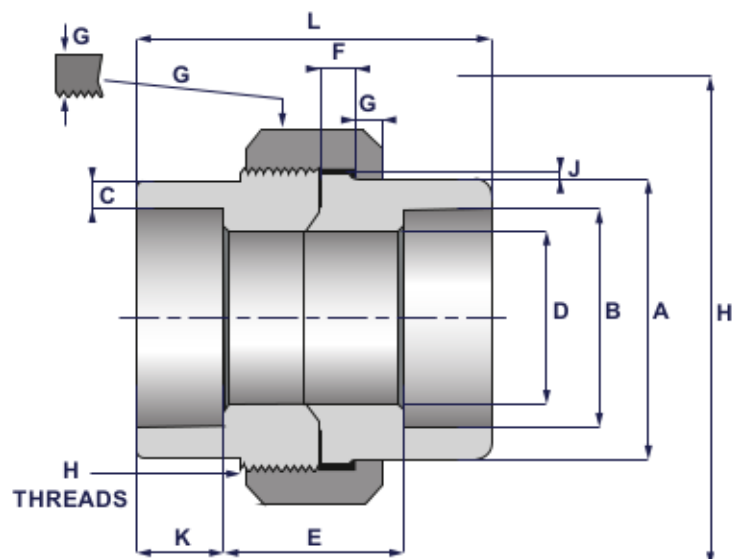
A		B		D	
Sizes 3/8 - 3/4	+1.5/-0.00	Sizes 1/4 - 1 1/2	+0.20/-0.20	Sizes 1/4 - 2	+0.80/-0.80
Sizes 1 - 2	+2.0/-0.00	Sizes 2 - 3	+0.30/-0.20	Sizes 2 1/2 - 3	+1.5/-1.5
Sizes 2 1/2 - 4	+2.5/-0.00				
SD		SL			
Sizes 3/8 - 1 1/2	+0.25/-0.25	Sizes 3/8 - 3/4	+0.00/-1.50		
Sizes 2 - 3	+0.50/-0.50	Sizes 1 - 2	+0.00/-2.00		
Sizes 4	+0.80/-0.80	Sizes 2 1/2 - 4	+0.00/-2.50		

Note:

- Dimensioni in millimetri
- Dimensioni in accordo MSS SP 79
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with MSS SP 79
- Weights are approximate



3000 lbs

SIZE	A		B		C*		D		E		F	G	H	J	K	L	N	Peso Kg./Cad. Weight Kilos/Each
	Min.		Min.	Max.	Min.	Avg.	Min.	Max.	Min.	Max.	Min.	Min.	Fillets per pulice Threads per inch.	Min.	Min.			
⅛"	21.8		10.6	11.2	3.18	3.18	6.07	7.590	19.05	22.35	3.17	3.17	16	1.24	9.650	41.4	50.8	0.170
¼"	21.8		14.0	14.6	3.30	3.78	8.48	10.00	19.05	22.35	3.17	3.17	16	1.24	9.650	41.4	50.8	0.170
⅜"	25.9		17.5	18.0	3.50	4.01	11.70	13.28	20.57	26.92	3.42	3.42	14	1.37	9.650	45.9	55.9	0.250
½"	31.2		21.7	22.2	4.08	4.67	15.03	16.56	20.57	26.92	3.68	3.68	14	1.49	9.650	49.0	58.4	0.330
¾"	37.0		27.0	27.6	4.26	4.90	20.16	21.69	25.40	31.75	4.06	4.06	11	1.67	12.70	56.9	66.0	0.430
1"	45.4		33.8	34.3	4.97	5.69	25.88	27.41	26.16	34.29	4.57	4.44	11	1.85	12.70	61.9	78.8	0.670
1 ¼"	54.8		42.5	43.0	5.28	6.07	34.29	35.81	32.51	40.64	5.33	5.20	10	2.13	12.70	71.1	93.9	1.150
1 ½"	61.4		48.6	49.2	5.53	6.35	40.13	41.66	34.04	42.16	5.84	5.58	10	2.31	12.70	76.5	111.7	1.550
2"	75.2		61.1	61.6	6.04	6.93	51.74	53.26	37.34	45.47	6.60	6.35	10	2.69	15.75	86.1	132.0	2.300
2 ½"	91.6		73.8	74.4	7.67	8.76	61.19	64.24	52.07	61.72	7.49	7.11	8	3.07	15.75	102.4	149.8	5.100
3"	109.2		89.8	90.4	8.30	9.52	76.40	79.45	53.59	63.75	8.25	8.00	8	3.53	15.75	109.0	175.2	6.900

6000 lbs

SIZE	A		B		C*		D		E		F		G		H		J		K		L		N		Peso Kg./Cad. Weight Kilos/Each
	Min.		Min.	Max.	Min.	Avg.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Flats per pitch Threads per inch.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
⅜"	21.8		10.6	11.2	3.42	3.96	3.20	4.80	19.05	22.35	3.17	3.17			16	1.24	9.650	41.4	50.8			50.8		0.340	
¼"	25.9		14.0	14.6	4.01	4.60	5.58	7.11	20.57	26.92	3.42	3.42			14	1.37	9.650	45.9	55.9			55.9		0.340	
⅓"	31.2		17.5	18.0	4.36	5.03	8.35	9.88	20.57	26.92	3.68	3.68			14	1.49	9.650	49.0	58.4			58.4		0.460	
½"	37.0		21.7	22.2	5.18	5.97	11.2	12.55	25.40	31.75	4.06	4.06			11	1.67	9.650	56.9	66.0			66.0		0.850	
¾"	45.4		27.0	27.6	6.04	6.96	14.78	16.31	26.16	34.29	4.57	4.44			11	1.85	12.70	61.9	78.8			78.8		1.150	
1"	54.8		33.8	34.3	6.93	7.92	19.94	21.46	32.51	40.64	5.33	5.20			10	2.13	12.70	71.1	93.9			93.9		1.900	
1 ¼"	61.4		42.5	43.0	6.93	7.92	28.70	30.23	34.04	42.16	5.84	5.58			10	2.31	12.70	76.4	111.7			111.7		2.450	
1 ½"	75.2		48.6	49.2	7.79	8.92	33.22	34.75	37.34	45.47	6.60	6.35			10	2.69	12.70	86.1	132.0			132.0		3.230	
2"	91.6		61.1	61.6	9.49	10.92	42.09	43.61	52.07	61.72	7.49	7.11			8	3.07	15.75	102.3	149.8			149.8		5.500	
2 ½"	109.2		73.8	74.4	10.3	13.00	53.21	54.74	53.59	63.75	8.25	8.00			8	3.53	15.75	109.0	175.2			175.2		8.400	

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

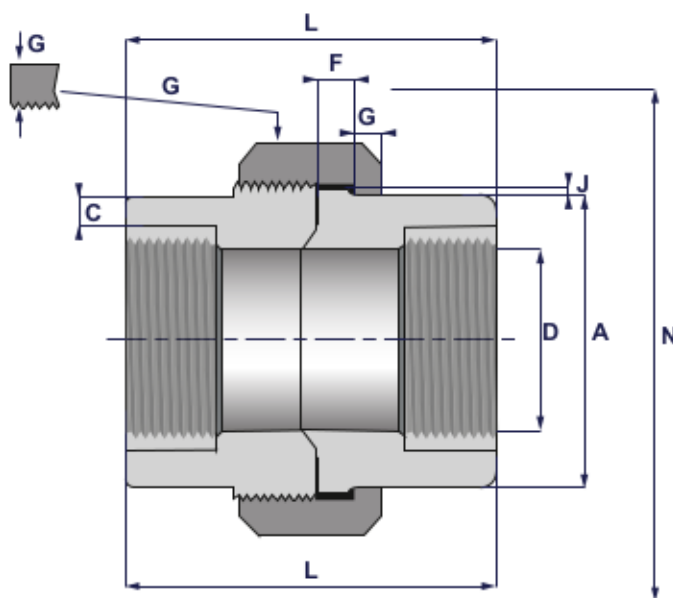
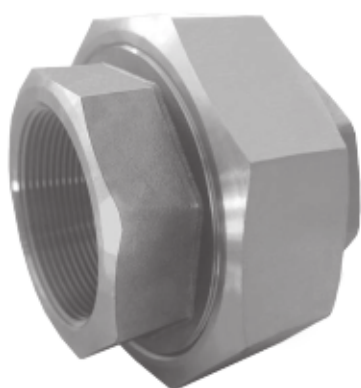
* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 83
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 83
- Weights are approximate



3000 lbs

SIZE	A		C		D		F	G	H	J	L	N	Peso Kg./Cad. Weight Kilos/Each
	Min.		Min.		Min.	Max.	Min.	Min.	Flt per pollice Threads per inch.	Min.			
1/8"	14.73		2.41		6.42	8.43	3.17	3.17	16	1.25	41.40	50.8	0.165
1/4"	19.05		3.02		9.45	11.13	3.17	3.17	16	1.25	41.40	50.8	0.165
3/8"	22.86		3.20		13.51	14.27	3.42	3.42	14	1.37	45.98	55.9	0.240
1/2"	27.69		3.73		17.06	17.86	3.68	3.68	14	1.49	49.02	58.4	0.340
3/4"	33.53		3.91		21.39	23.01	4.06	4.06	11	1.67	56.90	66.0	0.430
1"	41.40		4.54		27.74	28.99	4.57	4.44	11	1.85	61.98	78.8	0.660
1 1/4"	50.55		4.85		35.36	37.69	5.33	5.20	10	2.13	71.12	93.9	1.100
1 1/2"	57.15		5.08		41.20	43.54	5.84	5.58	10	2.31	76.45	111.7	1.550
2"	70.10		5.53		52.12	55.58	6.60	6.35	10	2.69	86.11	132.0	2.250
2 1/2"	85.34		7.01		64.31	66.27	7.49	7.11	8	3.07	102.36	149.8	4.700
3"	102.36		7.62		77.27	82.55	8.25	8.00	8	3.53	108.97	175.2	6.400

6000 lbs

SIZE	A		C		D		F	G	H	J	L	N	Peso Kg./Cad. Weight Kilos/Each
	Min.		Min.		Min.	Max.	Min.	Min.	Flt per pollice Threads per inch.	Min.			
1/8"	1.651		3.15		3.20	8.43	3.17	3.17	16	1.25	41.4	50.8	0.350
1/4"	2.108		3.68		5.59	11.13	3.42	3.42	14	1.37	45.9	50.8	0.350
3/8"	2.515		4.01		8.36	14.27	3.68	3.68	14	1.49	49.0	55.9	0.470
1/2"	3.099		4.78		11.02	17.86	4.06	4.06	11	1.67	56.8	58.4	0.880
3/4"	3.785		5.56		14.78	23.01	4.57	4.44	11	1.85	61.9	66.0	1.150
1"	4.623		6.35		19.94	28.98	5.33	5.20	10	2.13	71.1	78.8	2.000
1 1/4"	5.486		6.35		28.70	37.69	5.84	5.58	10	2.31	76.4	93.9	2.500
1 1/2"	6.248		7.14		33.22	43.54	6.60	6.35	10	2.69	86.1	111.7	3.250
2"	7.772		8.74		44.09	55.58	7.49	7.11	8	3.07	102.3	132.0	5.350
2 1/2"	9.220		9.53		53.21	66.27	8.25	8.00	8	3.53	108.9	149.8	8.400
3"	11.125		11.13		65.89	82.55	10.19	10.19	8	4.06	190.5	175.2	13.250

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 83
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 83
- Weights are approximate

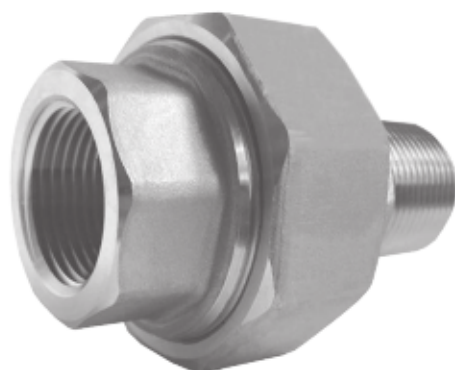


**BOCCHETTONE FILETTATO
THREADED UNION**

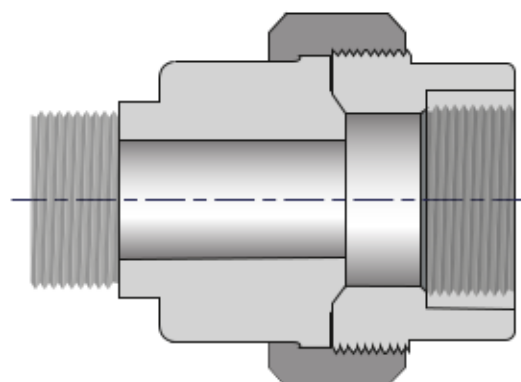


BOCCHETTONE FILETTATO M/F M/M **THREADED UNION M/F M/M**

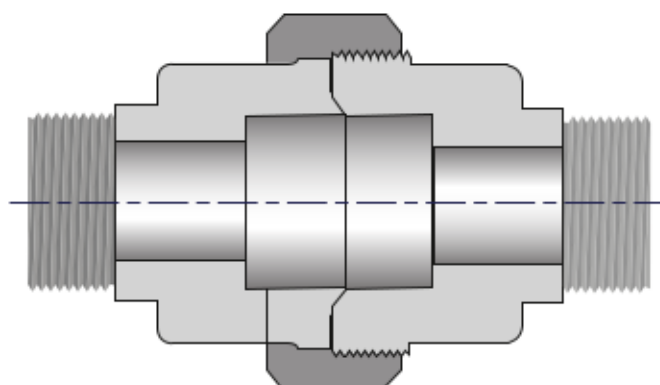
36



BOCCHETTONI F/M
F/M UNIONS



BOCCHETTONI F/M
M/M UNIONS



3000 lbs

SIZE	Peso Kg./Cad. Weight Kilos/Each	
	M/M	F/M
1/4"	0.205	0.185
3/8"	0.290	0.265
1/2"	0.440	0.390
3/4"	0.590	0.510
1"	0.900	0.780
1 1/4"	1.420	1.260
1 1/2"	1.990	1.770
2"	2.950	2.600

6000 lbs

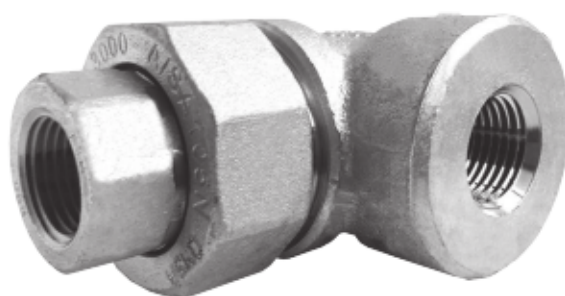
SIZE	Peso Kg./Cad. Weight Kilos/Each	
	M/M	F/M
1/4"	0.390	0.370
3/8"	0.520	0.495
1/2"	0.980	0.930
3/4"	1.310	1.230
1"	2.240	2.120
1 1/4"	2.820	2.660
1 1/2"	3.690	3.470
2"	6.050	5.700

Note:

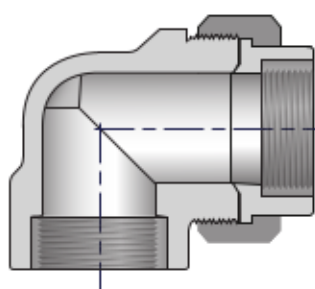
- Dimensioni in millimetri
- Dimensione in accordo allo standard OMSA
- I pesi sono indicativi

Remarks:

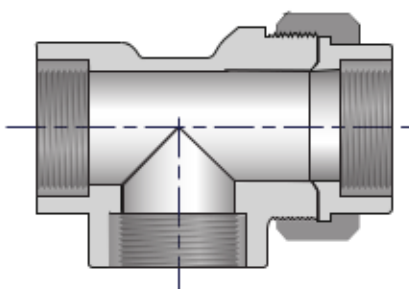
- Dimensions are in millimeters
- Dimension in compliance with OMSA's standard
- Weights are approximate



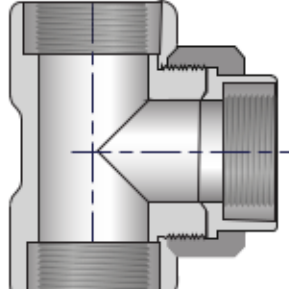
G f/f



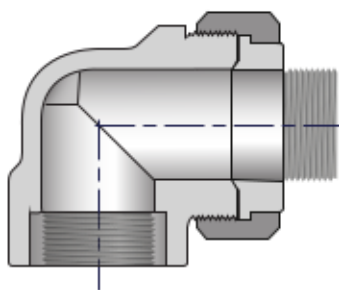
T f/f/f



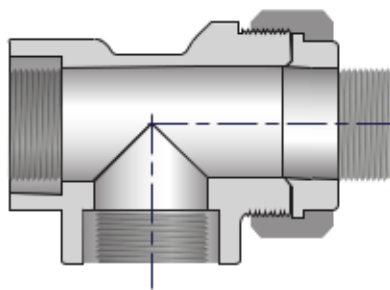
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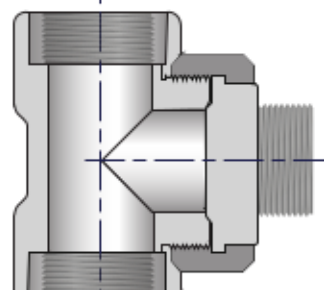
G m/f



T f/m/f



T f/f/m



3000 lbs

SIZE	Peso Kg./Cad. - Weight Kilos/Each					
	GL f/f	TL f/f/f	TC f/f/f	GL m/f	TC m/f/f	TL m/f/f
1/4"	0.310	0.365	0.365	0.330	0.385	0.385
3/8"	0.520	0.625	0.625	0.545	0.650	0.650
1/2"	0.760	0.840	0.840	0.810	0.890	0.890
3/4"	1.040	1.250	1.250	1.120	1.330	1.330
1"	1.530	1.850	1.850	1.650	1.970	1.970
1 1/4"	2.200	2.600	2.600	2.360	2.760	2.760
1 1/2"	3.530	4.220	4.220	3.750	4.440	4.440
2"	4.200	5.000	5.000	4.550	5.350	5.350

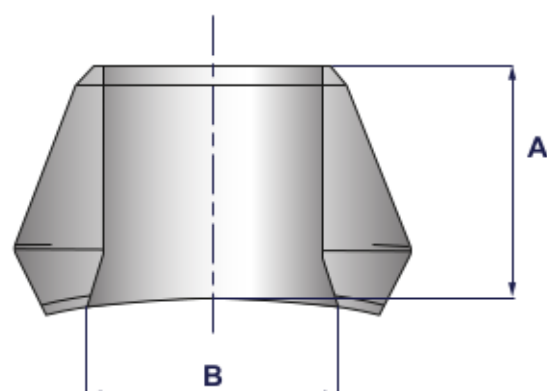
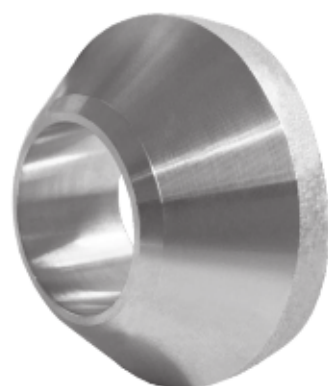
Note:

- Dimensioni in millimetri
- Dimensione in accordo allo standard OMSA
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with OMSA's standard
- Weights are approximate

**GOMITO E TEE BOCCHETTONE
UNION ELBOW AND TEE ELBOW**



SIZE	Standard reducing			Extra Strong reducing			Schedule 160 - XXS reducing		
	A	B	Peso Kg./Cad. Weight Kilos/Each	A	B	Peso Kg./Cad. Weight Kilos/Each	A	B	Peso Kg./Cad. Weight Kilos/Each
1/8"	15.7	16.0	-	15.7	16.0	-	-	-	-
1/4"	15.7	16.0	-	15.7	16.0	-	-	-	-
3/8"	19.1	19.0	-	19.1	19.0	-	-	-	-
1/2"	19.1	24.0	0.07	19.1	24.0	0.07	28.4	14	0.15
3/4"	22.4	30.0	0.12	22.4	30.0	0.12	31.8	19	0.32
1"	26.9	36.5	0.18	26.9	36.5	0.18	38.1	25.5	0.38
1 1/4"	31.8	44.5	0.32	31.8	44.5	0.32	44.4	33.5	0.60
1 1/2"	33.3	51.0	0.36	33.3	51.0	0.40	50.8	38	0.85
2"	38.1	65.0	0.70	38.1	65.0	0.72	55.4	43	1.00
2 1/2"	41.1	76.0	1.10	41.1	76.0	1.13	62.0	54	1.70
3"	44.4	93.5	1.70	44.4	93.5	1.85	73.2	73	2.95
3 1/2"	47.8	101.5	2.25	47.8	101.5	2.30	-	-	-
4"	50.8	120.5	3.05	50.8	120.5	3.40	84.1	98.5	4.95
5"	57.2	141.0	4.85	57.2	141.0	5.00	93.7	122	6.80
6"	60.4	170.0	7.50	77.7	170.0	10.4	104.6	146	13.7
8"	69.8	220.5	12.7	98.6	220.5	21.0	-	-	-
10"	77.7	274.5	20.0	93.7	265.0	25.4	-	-	-
12"	85.9	325.5	29.4	103.1	316.0	35.0	-	-	-
14"	88.9	357.0	31.8	100.1	351.0	39.0	-	-	-
16"	93.7	408.0	41.7	106.2	402.0	52.0	-	-	-
18"	96.8	459.0	56.7	111.2	452.0	59.0	-	-	-
20"	101.6	510.0	79.3	119.1	503.0	84.7	-	-	-
24"	115.8	611.0	127	139.7	605.0	146	-	-	-

TOLLERANZE - TOLERANCE

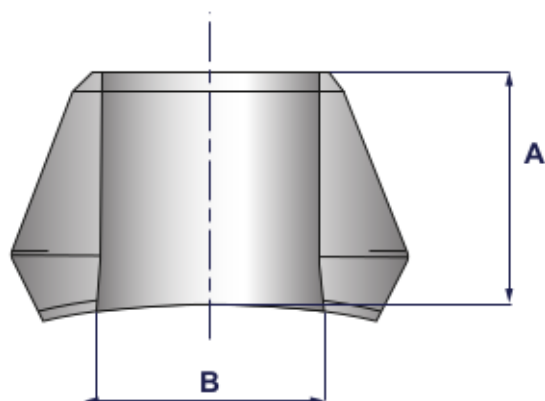
A	
6 - 20	± 0.8 mm
25 - 100	± 1.6 mm
125 - 300	± 3.2 mm
350 - 600	± 4.8 mm

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate



SIZE	Standard full			Extra Strong full			Schedule 160 - XXS full		
	A	B	Peso Kg./Cad. Weight Kilos/Each	A	B	Peso Kg./Cad. Weight Kilos/Each	A	B	Peso Kg./Cad. Weight Kilos/Each
1/2"	19.1	16.0	0.07	19.1	14.0	0.07	28.4	11.5	0.15
3/4"	22.4	20.5	0.12	22.4	19.0	0.12	31.8	15.5	0.32
1"	26.9	26.0	0.18	26.9	24.0	0.18	38.1	21.0	0.38
1 1/4"	31.8	35.0	0.32	31.8	32.0	0.32	44.4	29.5	0.60
1 1/2"	33.3	41.0	0.36	33.3	38.0	0.40	50.8	34.0	0.85
2"	38.1	52.5	0.70	38.1	49.0	0.72	55.4	43.0	1.00
2 1/2"	41.1	62.0	1.10	41.1	59.0	1.13	62.0	54.0	1.70
3"	44.4	78.0	1.70	44.4	73.5	1.85	73.2	66.5	2.95
3 1/2"	50.8	90.5	2.25	50.8	85.0	2.30	-	-	-
4"	50.8	101.5	3.05	50.8	97.0	3.40	84.1	87.0	4.95
5"	57.2	128.5	4.85	57.2	122.0	5.00	93.7	109.5	6.80
6"	60.4	154.0	7.50	77.7	146.0	10.4	104.6	132	13.7
8"	69.8	121.5	12.7	98.6	193.5	21.0	-	-	-
10"	77.7	254.0	20.0	88.9	247.5	25.4	-	-	-
12"	85.9	304.5	29.4	100.1	289.5	35.0	-	-	-
14"	88.9	336.5	31.8	104.6	330.0	39.0	-	-	-
16"	93.7	387.5	41.7	112.8	381.0	52.0	-	-	-
18"	103.1	438.0	56.7	119.1	432.0	59.0	-	-	-
20"	117.3	489.0	79.3	127.0	482.5	84.7	-	-	-
24"	136.6	590.5	127	139.7	584.0	146	-	-	-

TOLLERANZE - TOLLERANCE

A	
6 - 20	± 0.8 mm
25 - 100	± 1.6 mm
125 - 300	± 3.2 mm
350 - 600	± 4.8 mm

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate

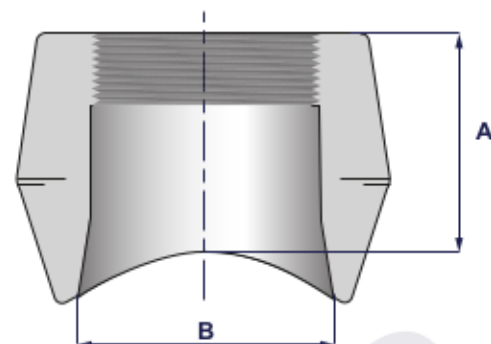
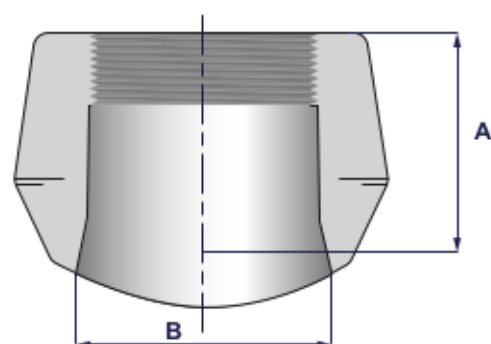


**DERIVAZIONE BW FULL SIZE
FULL SIZE WELDBRANCHES**



DERIVAZIONE FILETTATA SCREWBRANCHES

40



3000 lbs

SIZE	A	B	Peso Kg./Cad. Weight Kilos/Each
1/8"	19.0	16.0	-
1/4"	19.0	16.0	-
3/8"	20.5	19.0	-
1/2"	25.5	24.0	0.12
3/4"	27.0	30.0	0.19
1"	33.5	36.5	0.31
1 1/4"	33.5	44.5	0.45
1 1/2"	35.0	51.0	0.50
2"	38.0	65.0	0.87
2 1/2"	51.0	76.0	1.50
3"	54.0	93.5	2.15
4"	57.0	120.5	3.50

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

6000 lbs

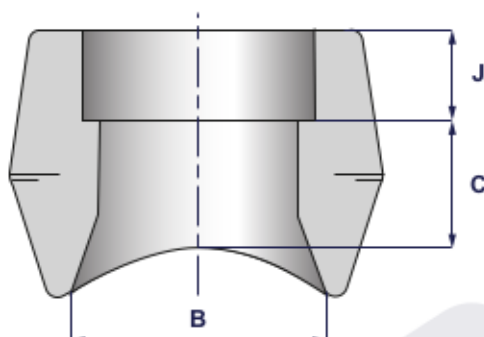
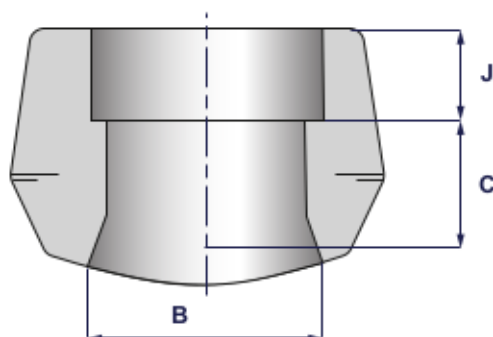
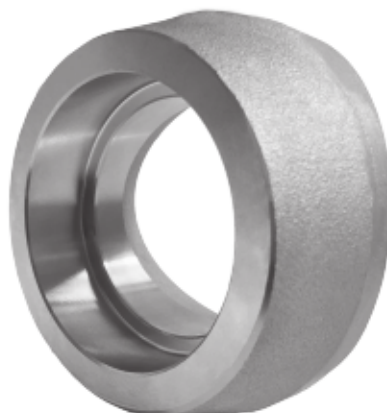
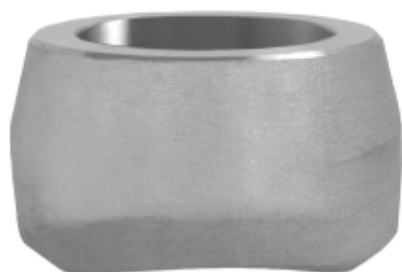
SIZE	A	B	Peso Kg./Cad. Weight Kilos/Each
1/8"	-	-	-
1/4"	28.5	14.0	-
3/8"	28.5	14.0	-
1/2"	31.5	19.0	0.30
3/4"	36.5	25.5	0.50
1"	39.5	33.5	0.90
1 1/4"	39.5	38.0	0.85
1 1/2"	43.0	49.0	1.45
2"	52.5	59.0	2.75

TOLLERANZE - TOLERANCE

A	
6 - 20	± 0.8 mm
25 - 100	± 1.6 mm

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate



3000 lbs

SIZE	J Min.	C	B	Peso Kg./Cad. Weight Kilos/Each
1/8"	9.5	11.0	16.0	-
1/4"	9.5	11.0	16.0	-
3/8"	9.5	13.0	19.0	-
1/2"	9.5	16.0	24.0	0.12
3/4"	12.5	16.0	30.0	0.19
1"	12.5	23.0	36.5	0.31
1 1/4"	12.5	23.0	44.5	0.45
1 1/2"	12.5	24.0	51.0	0.50
2"	16.0	24.0	65.0	0.87
2 1/2"	16.0	26.0	76.0	1.50
3"	16.0	31.0	93.0	2.15
4"	19.0	31.0	120.5	3.50

6000 lbs

SIZE	J Min.	C	B	Peso Kg./Cad. Weight Kilos/Each
1/2"	9.5	24.0	24.0	0.30
3/4"	12.5	26.0	30.0	0.50
1"	12.5	29.0	36.5	0.90
1 1/4"	12.5	31.0	44.5	0.85
1 1/2"	12.5	32.0	51.0	1.45
2"	16.0	37.0	65.0	2.75

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate

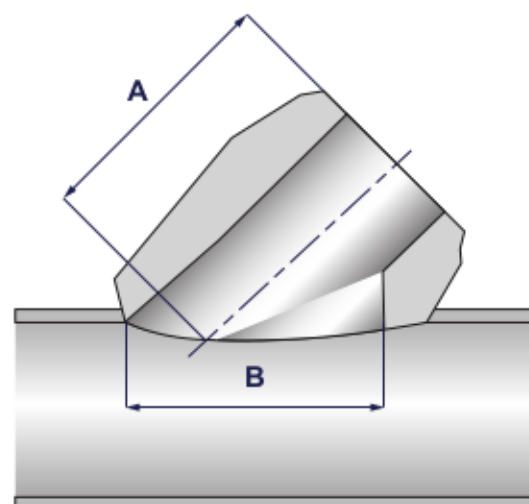
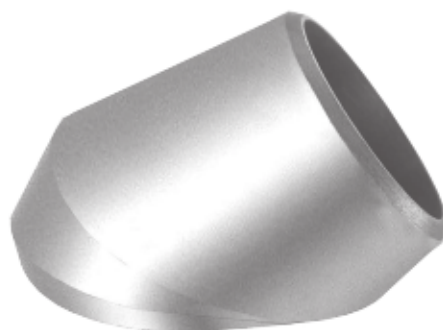


**DERIVAZIONE TASCA
SOKETBRANCHES**



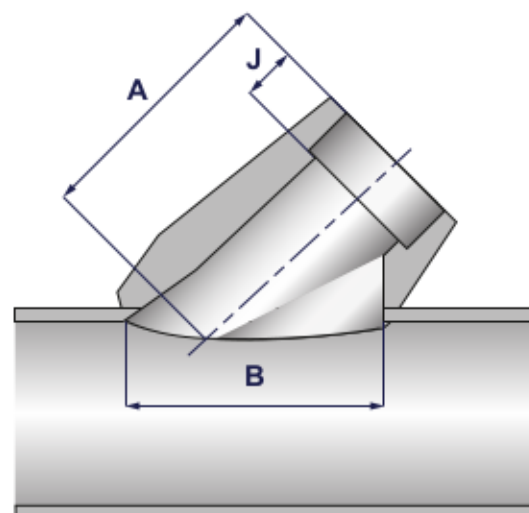
DERIVAZIONE 45°/90° BW E TASCA ELBOE BRANCHES

42



Standard / Extra Strong

SIZE	A		B	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.		
¼"	38.1	42.9	36.5	0.23
⅜"	38.1	42.9	36.5	0.23
½"	38.1	42.9	36.5	0.30
¾"	44.5	50.8	41.0	0.35
1"	54.0	65.1	51.0	0.53
1 ¼"	54.0	65.1	66.5	0.86
1 ½"	63.5	69.9	73.0	1.20
2"	73.0	88.9	96.0	2.40

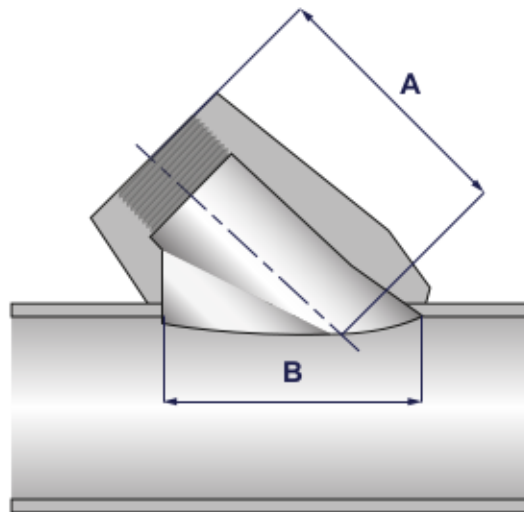
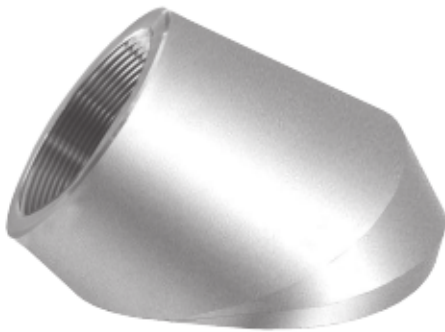


3000 lbs

SIZE	J	A		B	Peso Kg./Cad. Weight Kilos/Each
	Min.	Min.	Max.		
¼"	9.50	38.1	42.9	36.5	0.23
⅜"	9.50	38.1	42.9	36.5	0.23
½"	9.50	38.1	44.5	36.5	0.30
¾"	12.5	46.0	50.8	41.0	0.35
1"	12.5	54.0	63.5	51.0	0.53
1 ¼"	12.5	61.1	76.2	66.5	0.86
1 ½"	12.5	63.5	76.2	73.0	1.20
2"	16.0	76.2	84.1	96.0	2.40

6000 lbs

SIZE	J	A		B	Peso Kg./Cad. Weight Kilos/Each
	Min.	Min.	Max.		
¼"	9.50	38.9	47.6	36.5	0.35
⅜"	9.50	38.9	47.6	36.5	0.35
½"	9.50	46.0	55.6	44.5	0.40
¾"	12.5	54.0	63.5	54.0	0.67
1"	12.5	61.1	73.0	66.5	1.00
1 ¼"	12.5	65.1	77.8	76.0	1.32
1 ½"	12.5	78.6	85.7	105.0	2.80
2"	16.0	78.6	104.8	111.0	3.60



3000 lbs

SIZE	A		B	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.		
¼"	38.1	42.9	36.5	0.23
⅜"	38.1	42.9	36.5	0.23
½"	38.1	44.5	36.5	0.30
¾"	46.0	50.8	41.0	0.35
1"	54.0	63.5	51.0	0.53
1 ¼"	61.1	76.2	66.5	0.86
1 ½"	63.5	76.2	73.0	1.20
2"	76.2	84.1	96.0	2.40

6000 lbs

SIZE	A		B	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.		
¼"	38.9	47.6	36.5	0.35
⅜"	38.9	47.6	36.5	0.35
½"	46.0	55.6	44.5	0.40
¾"	54.0	63.5	54.0	0.67
1"	61.1	73.0	66.5	1.00
1 ¼"	65.1	77.8	76.0	1.32
1 ½"	78.6	85.7	105.0	2.80
2"	78.6	104.8	111.0	3.60

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

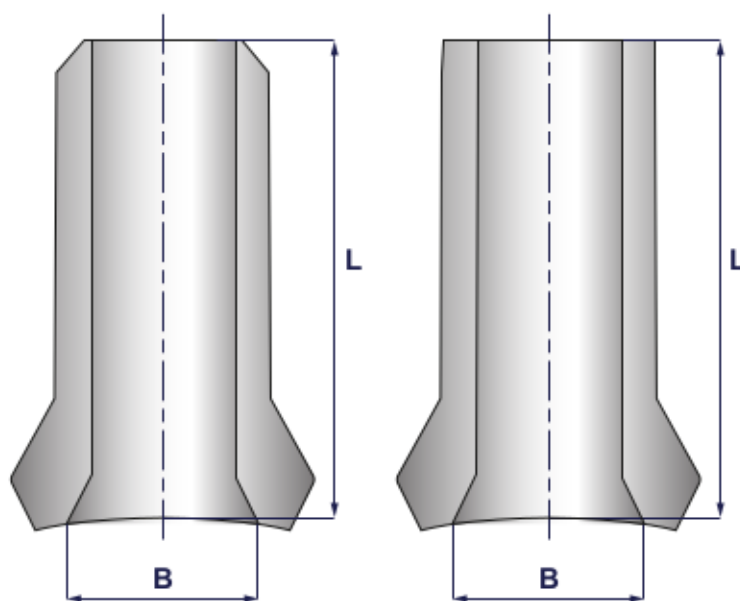
Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate



NIPPLEBRANCHES A TASCA E BW SOKET WELD AND BW NIPPLEBRANCHES

44



SCHEDULA 80

SIZE	B	L	Peso Kg./Cad. Weight Kilos/Each
	mini		
1/4"	16	89	0.20
3/8"	19	89	0.23
1/2"	24	89	0.25
3/4"	30	89	0.40
1"	36.5	89	0.65
1 1/4"	44.5	89	0.75
1 1/2"	50.8	89	0.95
2"	65	89	1.45

SCHEDULA 160

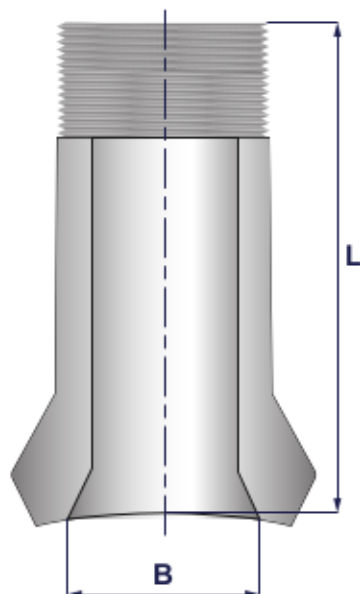
SIZE	B	L	Peso Kg./Cad. Weight Kilos/Each
	mini		
1/4"	-	-	-
3/8"	-	-	-
1/2"	14	89	0.25
3/4"	19	89	0.50
1"	25.5	89	0.70
1 1/4"	33.5	89	0.88
1 1/2"	38	89	1.15
2"	43	89	1.50

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate



3000 lbs

SIZE	B mini	L	Peso Kg./Cad. Weight Kilos/Each
1/4"	16	89	0.20
3/8"	19	89	0.23
1/2"	24	89	0.25
3/4"	30	89	0.40
1"	36.5	89	0.65
1 1/4"	44.5	89	0.75
1 1/2"	50.8	89	0.95
2"	65	89	1.45

6000 lbs

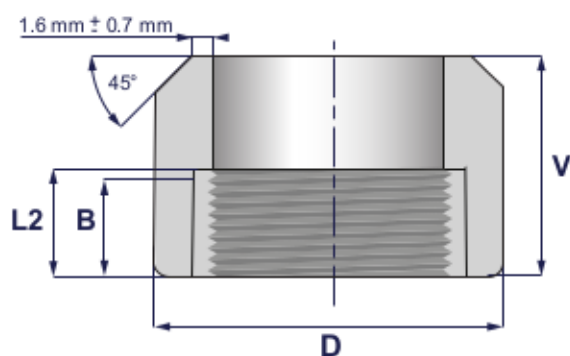
SIZE	B mini	L	Peso Kg./Cad. Weight Kilos/Each
1/4"	-	-	-
3/8"	-	-	-
1/2"	14	89	0.25
3/4"	19	89	0.50
1"	25.5	89	0.70
1 1/4"	33.5	89	0.88
1 1/2"	38	89	1.15
2"	43	89	1.50

Note:

- Dimensioni in millimetri
- Dimensione in accordo MSS SP 97
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimension in compliance with MSS SP 97
- Weights are approximate



3000 lbs

TOLLERANZE COMUNI A TUTTE LE SERIE
TOLERANCES COMMON TO ALL CLASSES

SIZE	V	D	B Min.	L2 Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	16	16	6.4	6.7	0.030
1/4"	17.5	19	8.1	10.2	0.035
3/8"	19	22	9.1	10.4	0.040
1/2"	24	28	10.9	13.6	0.085
3/4"	25.5	35	12.7	13.9	0.115
1"	30	44	14.7	17.3	0.230
1 1/4"	33.5	57	17.0	18.0	0.400
1 1/2"	39.5	64	17.8	18.4	0.555
2"	43	76	19.0	19.2	0.750
2 1/2"	46	92	23.6	28.9	1.150
3"	54	108	25.9	30.5	1.750
4"	60.5	140	27.7	33.0	3.000

SIZE	D	V
1/8"	-0 +4	-0 +3
1/4"	-0 +4	-0 +3
3/8"	-0 +4	-0 +3
1/2"	-0 +4	-0 +3
3/4"	-0 +4	-0 +3
1"	-0 +4	-0 +3
1 1/4"	-0 +4	-0 +3
1 1/2"	-0 +4	-0 +3
2"	-0 +4	-0 +3
2 1/2"	-0 +4	-0 +3
3"	-0 +4	-0 +3
4"	-0 +4	-0 +3

6000 lbs

SIZE	V	D	B Min.	L2 Min.	Peso Kg./Cad. Weight Kilos/Each
1/8"	16	22	6.4	6.7	0.050
1/4"	17.5	25	8.1	10.2	0.060
3/8"	19	32	9.1	10.4	0.105
1/2"	24	38	10.9	13.6	0.175
3/4"	25.5	44	12.7	13.9	0.245
1"	30	57	14.7	17.3	0.540
1 1/4"	33.5	64	17.0	18.0	0.580
1 1/2"	39.5	76	17.8	18.4	0.980
2"	43	92	19.0	19.2	1.470
2 1/2"	46	108	23.6	28.9	2.100
3"	54	127	25.9	30.5	3.150
4"	60.5	159	27.7	33.0	5.200

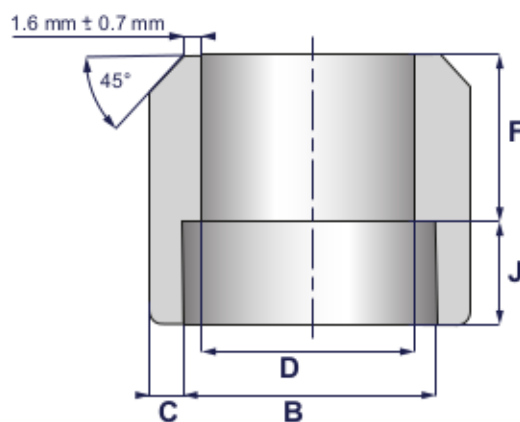
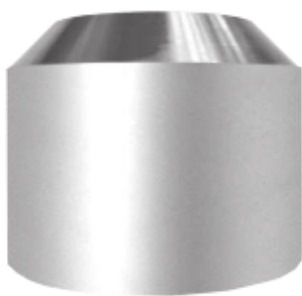
Note:

- Dimensioni in millimetri
- Dimensione in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B16.11
- Weights are approximate

BOSS FILETTATO B 16.11
THREADED BOSS B 16.11



3000 lbs

SIZE	B		D		C*		J	F	F	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.				
1/8"	10.8	11.2	6.1	7.6	3.18	3.18	9.5	16.0	1.5	0.060
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	9.5	16.0	1.5	0.070
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	9.5	17.5	3.0	0.100
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	9.5	22.5	3.0	0.170
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	12.5	24.0	3.0	0.240
1"	33.9	34.3	25.9	27.4	4.98	5.69	12.5	28.5	4.0	0.400
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	12.5	30.0	4.0	0.545
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	12.5	32.0	4.0	0.710
2"	61.2	61.7	51.7	53.3	6.04	6.93	16.0	41.0	4.0	1.200
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	16.0	43.0	5.0	1.900
3"	89.8	90.3	76.4	79.4	8.30	9.52	16.0	44.5	5.0	2.550
4"	115.2	115.7	100.7	103.8	9.35	10.69	19.0	48.0	5.0	3.950

6000 lbs

SIZE	B		D		C*		J	F	F	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.				
1/8"	10.8	11.2	3.2	4.8	3.43	3.96	9.5	16.0	1.5	0.070
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	9.5	16.0	1.5	0.090
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	9.5	17.5	3.0	0.130
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	9.5	22.5	3.0	0.230
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	12.5	24.0	3.0	0.360
1"	33.9	34.3	19.9	21.5	6.93	7.92	12.5	28.5	4.0	0.580
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	12.5	30.0	4.0	0.770
1 1/2"	48.8	49.2	33.2	34.7	7.80	8.92	12.5	32.0	4.0	1.050
2"	61.2	61.7	42.1	43.6	9.50	10.92	16.0	41.0	4.0	2.000

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

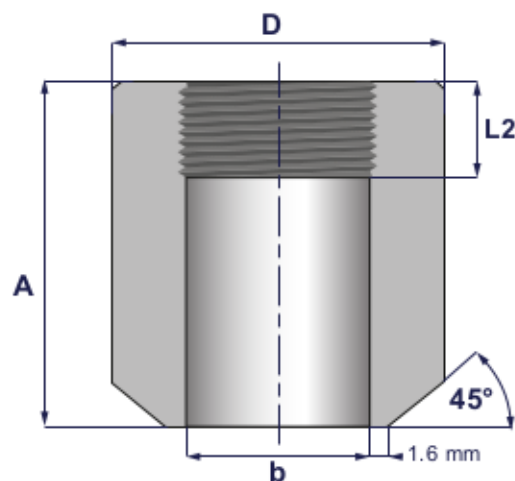
- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate

BOSS TASCA B 16.11
SOCKET WELD BOSS B 16.11

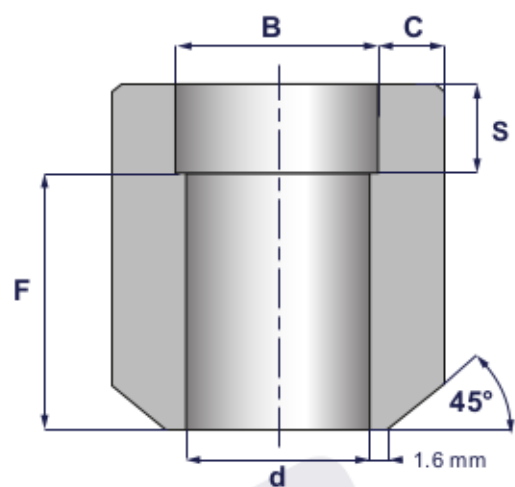


BOSS TASCA E FILETTATO BS 3799 **SOKET WELD AND THREADED BOSS BS 3799**

48



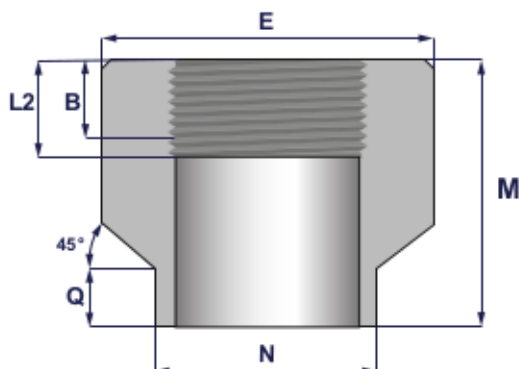
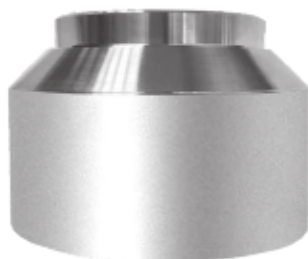
SIZE	b	A	L2	D		Peso Kg./Cad. Weight Kilos/Each	
				Min.		3000 lbs	6000 lbs
1/8"	8.4	38	6.70	16	22	0.045	0.100
1/4"	11.1	41	10.21	19	26	0.065	0.140
3/8"	14.2	45	10.36	22	32	0.080	0.230
1/2"	18.0	51	13.56	29	38	0.170	0.360
3/4"	23.0	51	13.86	35	45	0.220	0.470
1"	29.0	51	17.34	45	60	0.370	0.860
1 1/2"	44.0	51	18.38	64	76	0.680	1.200
2"	56.0	51	19.22	76	95	0.820	1.850
2 1/2"	67.0	51	28.89	95	-	1.380	-
3"	82.0	57	30.48	110	-	1.800	-
4"	95.0	64	33.02	140	-	3.100	-



SIZE	B	C		d		F	S	Peso Kg./Cad. Weight Kilos/Each	
		3000 lbs	6000 lbs	3000 lbs	6000 lbs			3000 lbs	6000 lbs
1/8"	10.7	3.2	-	6.8	-	28	10	0.045	-
1/4"	14.1	3.3	-	9.2	-	32	10	0.065	-
3/8"	17.6	3.5	-	12.5	-	34	11	0.080	-
1/2"	21.8	4.1	5.2	15.5	11.8	38	13	0.170	0.385
3/4"	27.4	4.3	6.1	21.0	15.5	38	13	0.220	0.520
1"	34.1	5.0	7.0	26.5	20.7	35	16	0.370	0.920
1 1/2"	49.0	5.6	7.8	40.5	34.0	32	19	0.680	1.300
2"	61.0	6.1	9.5	52.0	43.0	29	22	0.820	2.000
2 1/2"	73.8	7.7	10.4	62.0	54.0	29	22	1.380	2.450
3"	89.7	8.3	12.2	78.0	66.0	29	22	1.800	3.620

Note:
 • Dimensione in accordo BS 3799

Remarks:
 • Dimension in compliance with BS 3799



3000 lbs

QUOTE COMUNI A TUTTE LE SERIE
DIMENSIONS COMMON TO ALL CLASSES

SIZE	M	M Tolleranze + Tolerances +	E	E Tolleranze + Tolerances +	N	N Tolleranze + Tolerances +	Q	Q Tolleranze + Tolerances +	Peso Kg./Cad. Weight Kilos/Each
¼"	30.2	0.8	23.8	1.5	17.5	1.5	9.5	0.8	0.06
⅜"	30.2	0.8	27.0	1.5	20.7	1.5	9.5	0.8	0.15
½"	33.4	0.8	33.4	1.5	23.8	1.5	9.5	0.8	0.23
¾"	34.9	0.8	38.1	1.5	27.0	1.5	9.5	0.8	0.28
1"	42.9	0.8	46.1	1.5	33.4	1.5	9.5	0.8	0.45
1 ¼"	47.6	0.8	55.6	1.5	42.9	1.5	9.5	0.8	0.78
1 ½"	50.8	0.8	63.5	1.5	49.2	1.5	9.5	0.8	1.00
2"	57.2	1.5	79.4	1.5	61.9	1.5	9.5	0.8	1.50
2 ½"	63.5	1.5	92.1	1.5	73.0	1.5	9.5	0.8	2.60
3"	69.9	1.5	111.1	1.5	88.9	1.5	9.5	0.8	3.90
4"	76.2	1.5	141.3	1.5	114.3	1.5	9.5	0.8	6.50

SIZE	B Min.	L2 Min.
¼"	8.1	10.2
⅜"	9.1	10.4
½"	10.9	13.6
¾"	12.7	13.9
1"	14.7	17.3
1 ¼"	17.0	18.0
1 ½"	17.8	18.4
2"	19.0	19.2
2 ½"	23.6	28.9
3"	25.9	30.5
4"	27.7	33.0

6000 lbs

SIZE	M	M Tolleranze + Tolerances +	E	E Tolleranze + Tolerances +	N	N Tolleranze + Tolerances +	Q	Q Tolleranze + Tolerances +	Peso Kg./Cad. Weight Kilos/Each
¼"	30.2	0.8	25.4	1.5	17.5	1.5	9.5	0.8	0.06
⅜"	30.2	0.8	31.8	1.5	20.7	1.5	9.5	0.8	0.18
½"	33.4	0.8	38.1	1.5	23.8	1.5	9.5	0.8	0.27
¾"	34.9	0.8	44.5	1.5	27.0	1.5	9.5	0.8	0.38
1"	42.9	0.8	57.2	1.5	33.4	1.5	9.5	0.8	0.75
1 ¼"	47.6	0.8	63.5	1.5	42.9	1.5	9.5	0.8	0.90
1 ½"	50.8	0.8	76.2	1.5	49.2	1.5	9.5	0.8	1.50
2"	57.2	1.5	92.1	1.5	61.9	1.5	9.5	0.8	2.40
2 ½"	63.5	1.5	108.0	1.5	73.0	1.5	9.5	0.8	3.50
3"	69.9	1.5	127.0	1.5	88.9	1.5	9.5	0.8	5.00
4"	76.2	1.5	158.8	1.5	114.3	1.5	9.5	0.8	9.00

Note:

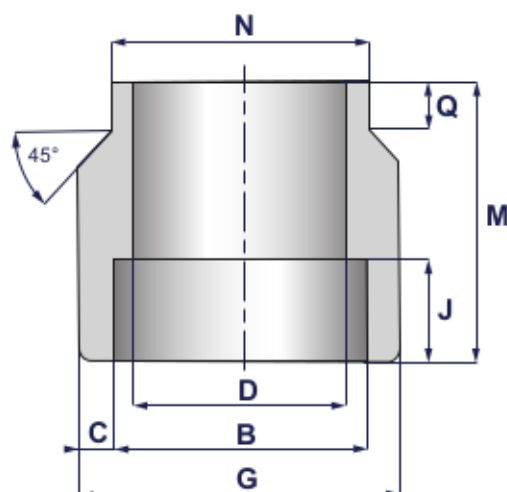
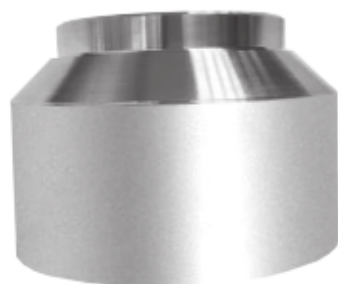
- Dimensioni in millimetri
- Dimensione in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



**COUPLET FILETTATI B 16.11
THREADED COUPLET B 16.11**



3000 lbs

SIZE	B		D		C*		J	G	G	Q	Q	M	M	N	N	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.		Tolleranze + Tolerances +		Tolleranze + Tolerances +		Tolleranze + Tolerances +		Tolleranze + Tolerances +	
1/8"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4"	14.2	14.6	8.5	10.0	3.30	3.78	9.5	23.8	1.5	9.5	0.8	30.2	0.8	17.5	1.5	0.060
3/8"	17.6	18.0	11.8	13.3	3.50	4.01	9.5	27.0	1.5	9.5	0.8	30.2	0.8	20.7	1.5	0.150
1/2"	21.8	22.2	15.0	16.6	4.09	4.67	9.5	33.4	1.5	9.5	0.8	33.4	0.8	23.8	1.5	0.230
3/4"	27.2	27.6	20.2	21.7	4.27	4.90	12.5	38.1	1.5	9.5	0.8	34.9	0.8	27.0	1.5	0.280
1"	33.9	34.3	25.9	27.4	4.98	5.69	12.5	46.1	1.5	9.5	0.8	42.9	0.8	33.4	1.5	0.450
1 1/4"	42.7	43.1	34.3	35.8	5.28	6.07	12.5	55.6	1.5	9.5	0.8	47.6	0.8	42.9	1.5	0.780
1 1/2"	48.8	49.2	40.1	41.6	5.54	6.35	12.5	63.5	1.5	9.5	0.8	50.8	0.8	49.2	1.5	1.000
2"	61.2	61.7	51.7	53.3	6.04	6.93	16.0	79.4	1.5	9.5	0.8	57.2	1.5	61.9	1.5	1.500
2 1/2"	73.9	74.4	61.2	64.2	7.67	8.76	16.0	92.1	1.5	9.5	0.8	63.5	1.5	73.0	1.5	2.600
3"	89.8	90.3	76.4	79.4	8.30	9.52	16.0	111.1	1.5	9.5	0.8	69.9	1.5	88.9	1.5	3.900
4"	115.2	115.7	100.7	103.8	9.35	10.69	19.0	141.3	1.5	9.5	0.8	76.2	1.5	114.3	1.5	6.500

6000 lbs

SIZE	B		D		C*		J	G	G	Q	Q	M	M	N	N	Peso Kg./Cad. Weight Kilos/Each
	Min.	Max.	Min.	Max.	Min.	Avg.	Min.		Tolleranze + Tolerances +		Tolleranze + Tolerances +		Tolleranze + Tolerances +		Tolleranze + Tolerances +	
1/8"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4"	14.2	14.6	5.6	7.1	4.01	4.60	9.5	25.4	1.5	9.5	0.8	30.2	0.8	17.5	1.5	0.060
3/8"	17.6	18.0	8.4	9.9	4.37	5.03	9.5	31.8	1.5	9.5	0.8	30.2	0.8	20.7	1.5	0.180
1/2"	21.8	22.2	11.0	12.5	5.18	5.97	9.5	38.1	1.5	9.5	0.8	33.4	0.8	23.8	1.5	0.270
3/4"	27.2	27.6	14.8	16.3	6.04	6.96	12.5	44.5	1.5	9.5	0.8	34.9	0.8	27.0	1.5	0.380
1"	33.9	34.3	19.9	21.5	6.93	7.92	12.5	57.2	1.5	9.5	0.8	47.6	0.8	33.4	1.5	0.750
1 1/4"	42.7	43.1	28.7	30.2	6.93	7.92	12.5	63.5	1.5	9.5	0.8	47.6	0.8	42.9	1.5	0.900
1 1/2"	48.8	49.2	33.2	34.7	7.80	8.92	12.5	76.2	1.5	9.5	0.8	50.8	0.8	49.2	1.5	1.500
2"	61.2	61.7	42.1	43.6	9.50	1.92	16.0	92.1	1.5	9.5	0.8	57.2	1.5	61.9	1.5	2.400
2 1/2"	73.9	74.4	-	-	-	-	16.0	108.0	1.5	9.5	0.8	63.5	1.5	73.0	1.5	3.500
3"	89.8	90.3	-	-	-	-	16.0	127.0	1.5	9.5	0.8	69.9	1.5	88.9	1.5	5.000
4"	115.2	115.7	-	-	-	-	19.0	158.8	1.5	9.5	0.8	76.2	1.5	114.3	1.5	9.000

* Il valore dello spessore C non deve essere inferiore al valore della colonna Avg. il valore Min. è consentito solo in aree localizzate.

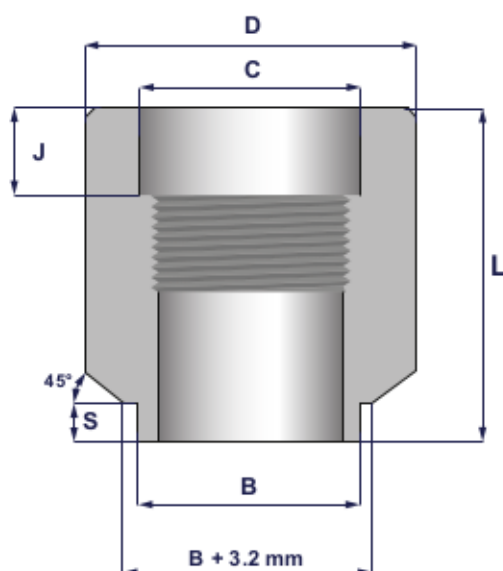
* Average of socket wall thickness around periphery shall not be less than listed values. The minimum values are permitted in localized areas

Note:

- Dimensioni in millimetri
- Dimensioni in accordo ANSI B 16.11
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with ANSI B 16.11
- Weights are approximate



3000 lbs

SIZE	L	D	C mini	J mini	B	S	Peso Kg./Cad. Weight Kilos/Each
½"	43	35	21.3	11.1	23.8	9.5	0.16
¾"	48	38	27.2	14.5	27	9.5	0.21
1"	56	50	33.9	14.5	33.3	9.5	0.4
1 ¼"	61	60	42.7	14.5	42.8	9.5	0.68
1 ½"	65	65	48.8	14.5	49.2	9.5	0.85
2"	73	76.2	61.2	17.5	61.9	9.5	1.35
2 ½"	77	92	73.9	17.5	73	9.5	2.13

6000 lbs

SIZE	L	D	C mini	J mini	B	S	Peso Kg./Cad. Weight Kilos/Each
½"	43	38	21.3	11.1	23.8	9.5	0.19
¾"	48	45	27.2	14.5	27	9.5	0.3
1"	56	60	33.9	14.5	33.3	9.5	0.62
1 ¼"	61	65	42.7	14.5	42.8	9.5	0.8
1 ½"	65	76.2	48.8	14.5	49.2	9.5	1.2
2"	73	92	61.2	17.5	61.9	9.5	2.0

Note:

- Dimensioni in millimetri
- Dimensioni in accordo allo standard OMSA
- I pesi sono indicativi

Remarks:

- Dimensions are in millimeters
- Dimensions in compliance with OMSA's standard
- Weights are approximate





DIAMETRO E TIPO SIZE AND TYPE

Il diametro nominale (simbolo DN) è un valore convenzionale con cui vengono individuati i diametri dei componenti.

Mentre il simbolo NPS rappresenta la misura del diametro nominale espressa in pollici. La corrispondenza tra DN e NPS la seguente:

The nominal diameter (DN) is a common value with which size of fittings are identified.

NPS symbol represents the size of nominal diameter in inches.

The correspondence between DN and NPS is the following:

NPS	DN
1/8"	6
1/4"	8
3/8"	10
1/2"	15
3/4"	20
1"	25
1 1/4 "	32
1 1/2 "	40
2"	50
2 1/2 "	65
3"	80
3 1/2 "	90
4"	100
5"	125
6"	150

NPS	DN
8"	200
10"	250
12"	300
14"	350
16"	400
18"	450
20"	500
22"	550
24"	600
26"	650
28"	700
30"	750
32"	800
34"	850
36"	900



SISTEMA INGLESE
BRITISH SYSTEM

LUNGHEZZA LENGTH

m. 1,0000 = yards 1,0936 = ft. 3,2808
m. 0,9144 = yards 1,0000 = ft. 3,0000
m. 0,3048 = yards 0,3333 = ft. 1,0000
mm. 25,4000 = inc. 1,0000

MASSA WEIGHT

Kg. 1,0000 = lbs. 2,2046
Kg. 0,4536 = lbs. 1,0000

FORZA FORCE

N. 1,0000 = Kgf. 0,1020 = lbs. 0,2250
N. 4,4452 = Kgf. 0,4359 = lbs. 1,0000
N. 9,8067 = Kgf. 1,0000 = lbs. 2,2046

LAVORO (resilienza) WORK (impact test)

J. 1,0000 = Kgm. 0,1020 = ft lb. 0,7381
J. 1,3549 = Kgm. 0,1383 = ft lb. 1,0000
J. 9,8067 = Kgm. 1,0000 = ft lb. 7,2333

TENSIONE (Trazione, Snervam.) PRESSURE (Tensile, Yield)

MPa 1,0000 = Kg./mmq. 0,1020 = psi 145
MPa 6,8965 = Kg./mmq. 0,7032 = psi 1000
MPa 9,8067 = Kg./mmq. 1,0000 = psi 1422

PRESSIONE (Fluidi) PRESSURE (Fluids)

bar 1,0000 = Kg./cmq. 1,0200 = psi. 14,500
bar 0,9807 = Kg./cmq. 1,0000 = psi. 14,223
bar 0,6897 = Kg./cmq. 0,7032 = psi. 10,000

TEMPERATURA TEMPERATURE

$1^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$
 $\frac{5}{9}^{\circ}\text{C} + 32 = 1^{\circ}\text{F}$

N. = Newton
J. = Joule
MPa = Megaascal = 1 N./mmq.
bar = bar = 10 N./cmq
 $^{\circ}\text{C}$ = gradi Celsius

lb. = libbra
ft. = piede
ft. lb. = piede x libbra
psi. = libbre per pollice quadro
 $^{\circ}\text{F}$ = gradi Fahrenheit



CONVERSIONI DELLE FRAZIONI DI POLLICE IN MILLIMETRI
CONVERSION OF FRACTIONS OF ONE INCH IN MILLIMETERS

Pollici Inches		1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0"	-	25.400	50.800	76.200	101.600	127.000	152.400	177.800	203.200	228.600	254.000	279.400
1/64"	0.397	25.797	51.197	76.597	101.997	127.397	152.797	178.197	203.597	228.997	254.397	279.797
1/32"	0.794	26.194	51.594	76.994	102.394	127.794	153.194	178.594	203.994	229.394	254.794	280.194
3/64"	1.191	26.591	51.991	77.391	102.791	128.191	153.591	178.991	204.391	229.791	255.191	280.591
1/16"	1.588	26.988	52.388	77.788	103.188	128.588	153.988	179.388	204.788	230.188	255.588	280.988
5/64"	1.984	27.384	52.784	78.184	103.584	128.984	154.384	179.784	205.184	230.584	255.984	281.384
3/32"	2.381	27.781	53.181	78.581	103.981	129.381	154.781	180.181	205.581	230.981	256.381	281.781
7/64"	2.778	28.178	53.578	78.978	104.378	129.778	155.178	180.578	205.978	231.378	256.778	282.178
1/8"	3.175	28.575	53.975	79.375	104.775	130.175	155.575	180.975	206.375	231.775	257.175	282.575
9/64"	3.572	28.972	54.372	79.772	105.172	130.572	155.972	181.372	206.772	232.172	257.572	282.972
5/32"	3.969	29.369	54.769	80.169	105.569	130.969	156.369	181.769	207.169	232.569	257.969	283.369
11/64"	4.366	29.766	55.166	80.566	105.966	131.366	156.766	182.166	207.566	232.966	258.366	283.766
3/16"	4.762	30.162	55.562	80.962	106.362	131.762	157.162	182.562	207.962	233.362	258.762	284.162
13/64"	5.159	30.559	55.959	81.359	106.759	132.159	157.559	182.959	208.359	233.759	259.159	284.559
7/32"	5.556	30.956	56.356	81.756	107.156	132.556	157.956	183.356	208.756	234.156	259.556	284.956
15/64"	5.953	31.353	56.753	82.153	107.553	132.953	158.353	183.753	209.153	234.553	259.953	285.353
1/4"	6.350	31.750	57.150	82.550	107.950	133.350	158.750	184.150	209.550	234.950	260.350	285.750
17/64"	6.747	32.147	57.547	82.947	108.347	133.747	159.147	184.547	209.947	235.347	260.747	286.147
9/32"	7.144	32.544	57.944	83.344	108.744	134.144	159.544	184.944	210.344	235.734	261.144	286.544
19/64"	7.541	32.941	58.341	83.741	109.141	134.541	159.941	185.341	210.741	236.141	261.541	286.941
5/16"	7.938	33.338	58.738	84.138	109.538	134.938	160.338	185.738	211.138	236.538	261.938	287.338
21/64"	8.334	33.734	59.134	84.534	109.934	135.334	160.734	186.134	211.534	236.934	262.334	287.734
11/32"	8.731	34.131	59.531	84.931	110.331	135.731	161.131	186.531	211.931	237.331	262.731	288.131
23/64"	9.128	34.528	59.928	85.328	110.728	136.128	161.528	186.928	212.328	237.728	263.128	288.528
3/8"	9.525	34.925	60.325	85.725	111.125	136.525	161.925	187.325	212.725	238.125	263.525	288.925
25/64"	9.922	35.322	60.722	86.122	111.522	136.922	162.322	187.722	213.122	238.522	263.922	289.322
13/32"	10.319	35.719	61.119	86.519	111.919	137.319	162.719	188.119	213.519	238.919	264.319	289.719
27/64"	10.716	36.116	61.516	86.916	112.316	137.716	163.116	188.516	213.916	239.316	264.716	290.116
7/16"	11.112	36.512	61.912	87.312	112.712	138.112	163.512	188.912	214.312	239.712	265.112	290.512
29/64"	11.509	36.909	62.309	87.709	113.109	138.509	163.909	189.309	214.709	240.109	265.509	290.909
15/32"	11.906	37.306	62.706	88.106	113.506	138.906	164.306	189.706	215.106	240.506	265.906	291.306
31/64"	12.303	37.703	63.103	88.503	113.903	139.303	164.703	190.103	215.503	241.903	266.303	291.603
1/2"	12.700	38.100	63.500	88.900	114.300	139.700	165.100	190.500	215.900	241.200	266.600	292.000
33/64"	13.097	38.497	63.897	89.297	114.697	140.097	165.497	190.897	216.297	241.697	267.097	292.497
17/32"	13.494	38.894	64.294	89.694	115.094	140.494	165.894	191.294	216.694	242.094	267.494	292.894
35/64"	13.891	39.291	64.691	90.091	115.491	140.891	166.291	191.691	217.091	242.491	267.891	293.291
9/16"	14.288	39.688	65.088	90.488	115.888	141.288	166.688	192.088	217.488	242.888	268.288	293.688
37/64"	14.684	40.084	65.484	90.884	116.284	141.684	167.084	192.484	217.884	243.284	268.684	294.084
19/32"	15.081	40.481	65.881	91.281	116.681	142.081	167.481	192.881	218.281	243.681	269.081	294.481
39/64"	15.478	40.878	66.278	91.678	117.078	142.478	167.878	193.278	218.678	244.078	269.478	294.878
5/8"	15.875	41.275	66.675	92.075	117.475	142.875	168.275	193.675	219.075	244.475	269.875	295.275
41/64"	16.272	41.672	67.072	92.472	117.872	143.272	168.672	194.072	219.472	244.872	270.272	295.672
21/32"	16.669	42.069	67.469	92.869	118.269	143.669	169.069	194.469	219.869	245.269	270.669	296.069
43/64"	17.066	42.466	67.866	93.266	118.666	144.066	169.466	194.866	220.266	245.666	271.066	296.466
11/16"	17.462	42.862	68.262	93.662	119.062	144.462	169.862	195.262	220.662	246.062	271.462	296.862
45/64"	17.859	43.259	68.659	94.059	119.459	144.859	170.259	195.659	221.059	246.459	271.859	297.259
23/32"	18.256	43.656	69.056	94.456	119.856	145.256	170.656	196.056	221.456	246.856	272.256	297.656
47/64"	18.653	44.053	69.453	94.853	120.253	145.653	171.053	196.453	221.853	247.253	272.653	298.053
3/4"	19.050	44.450	69.850	95.250	120.650	146.050	171.450	196.850	222.250	247.650	273.050	298.450
49/64"	19.447	44.847	70.247	95.647	121.047	146.447	171.847	197.247	222.647	248.047	273.447	298.847
25/32"	19.844	45.244	70.644	96.044	121.444	146.844	172.244	197.644	223.044	248.444	273.844	299.244
51/64"	20.241	45.641	71.041	96.441	121.841	147.241	172.641	198.041	223.441	248.841	274.241	299.641
13/16"	20.638	46.038	71.438	96.838	122.238	147.638	173.038	198.438	223.838	249.238	274.638	300.038
53/64"	21.034	46.434	71.834	97.234	122.634	148.034	173.434	198.834	224.234	249.634	275.034	300.434
27/32"	21.431	46.831	72.231	97.631	123.031	148.431	173.831	199.231	224.631	250.031	275.431	300.831
55/64"	21.828	47.228	72.628	98.028	123.428	148.828	174.228	199.628	225.028	250.428	275.828	301.228
7/8"	22.225	47.625	73.025	98.425	123.825	149.225	174.625	200.025	225.425	250.825	276.225	301.625
57/64"	22.622	48.022	73.422	98.822	124.222	149.622	175.022	200.422	225.822	251.222	276.622	302.022
29/32"	23.019	48.419	73.819	99.219	124.619	150.019	175.419	200.819	226.219	251.619	277.019	302.419
59/64"	23.416	48.816	74.216	99.616	125.016	150.416	175.816	201.216	226.619	252.016	277.416	302.816
15/16"	23.812	49.212	74.612	100.012	125.412	150.812	176.212	201.612	226.012	252.412	277.812	303.212
61/64"	24.209	49.609	75.009	100.409	125.809	151.209	176.609	202.009	227.412	252.809	278.209	303.609
31/32"	24.606	50.006	75.406	100.806	126.206	151.606	177.006	202.406	227.809	253.206	278.606	304.006
63/64"	25.003	50.403	75.803	101.203	126.603	152.003	177.403	202.803	228.203	253.603	279.003	304.403

Marcatura	Marking	Example
1 omsa ITALY		omsa ITALY
2 Materiale	Material	A105N
3 Serie	Rating designations	3000
4 Colata	Heat N°	000
5 Dimensione	Size	1-1/4
6 Norma dimensionale di riferimento	Dimensional standard reference	B16

Per mancanza di spazio è possibile omettere nel seguente ordine

- 6) Norma dimensionale di riferimento
- 5) Dimensione
- 4) Colata
- 3) Serie
- 2) Materiale
- 1) Omsa

Abbreviazioni per identificazione dei materiali

F304/L = F304/F304L
F316/L = F316/F316L

LF2CL1 = LF2 CLASSE 1

F11CL1 = F 11 CLASSE 1
F11CL2 = F 11 CLASSE 2
F11CL3 = F 11 CLASSE 3

F22CL1 = F 22 CLASSE 1
F22CL2 = F 22 CLASSE 3

When shape or size does not permit inclusion of all the required markings, body and/or identifications plate markings, as appropriate to the product and material, may be omitted in the following order:

- 6) Dimension standard references
- 5) Size
- 4) Heat N°
- 3) Rating designations
- 2) Material
- 1) Omsa

Material id. shortening

F304/L = F304/F304L
F316/L = F316/F316L

LF2CL1 = LF2 CLASS 1

F11CL1 = F 11 CLASS 1
F11CL2 = F 11 CLASS 2
F11CL3 = F 11 CLASS 3

F22CL1 = F 22 CLASS 1
F22CL2 = F 22 CLASS 3

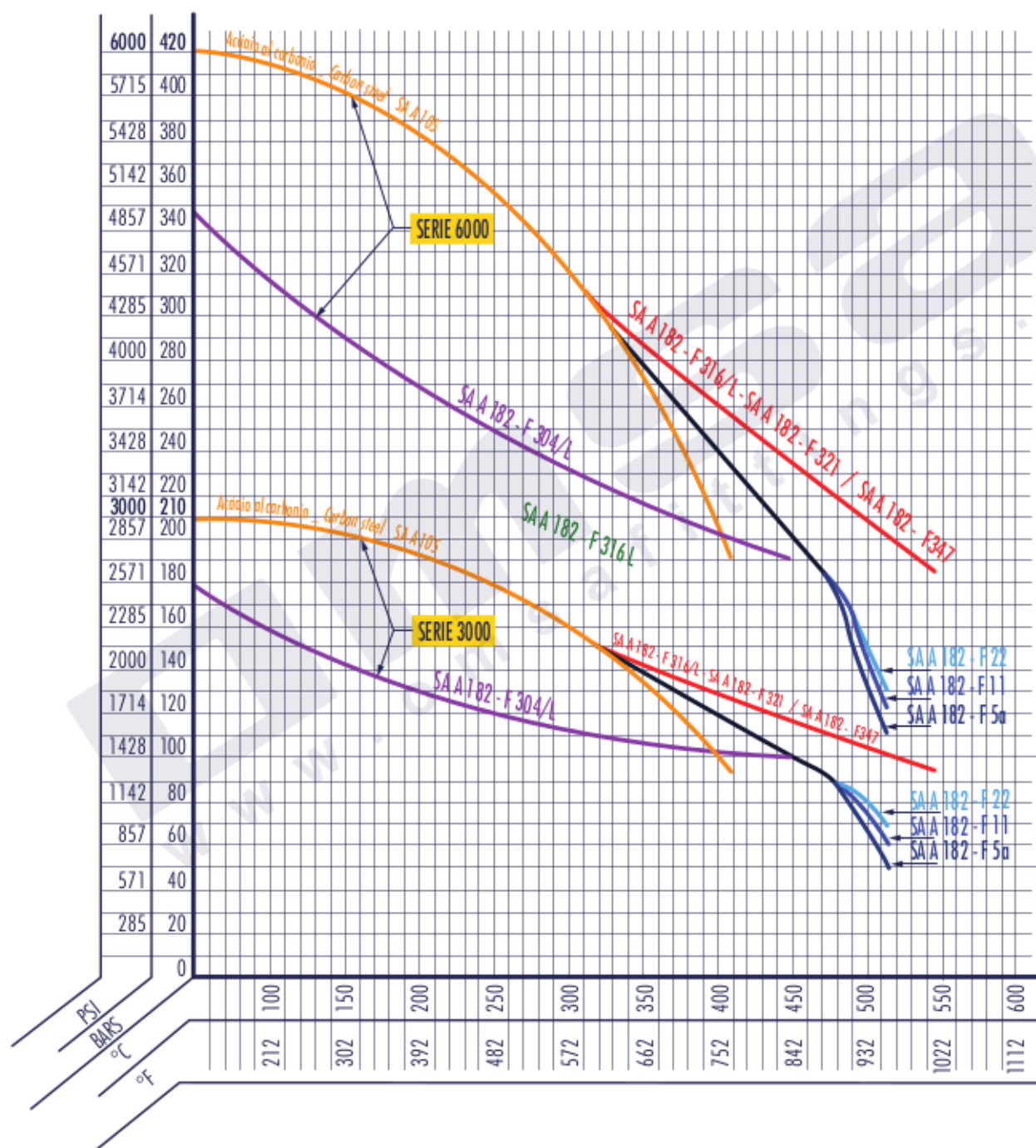
- Marcatura in accordo MSS SP 25
- Marking in compliance with MSS SP 25





PRESSIONE DI ESERCIZIO NOMINALE WORKING PRESSURE

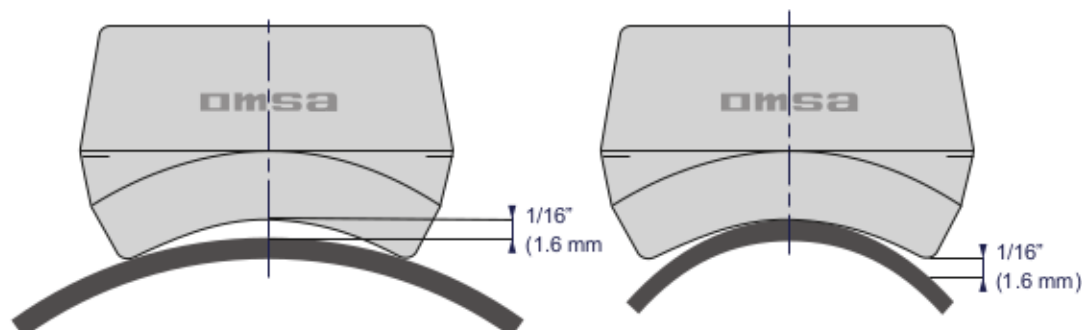
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ANSI B 36.10

ANSI B 36.19

Dimensioni nominali Nominal Pipe Size	Dimensioni esterni Outside Diameter	SCHEDULE 10	SCHEDULE 20	SCHEDULE 30	SCHEDULE STD	SCHEDULE 40	SCHEDULE 60	SCHEDULE XS	SCHEDULE 80	SCHEDULE 100	SCHEDULE 120	SCHEDULE 140	SCHEDULE 160	SCHEDULE 180	SCHEDULE XS	SCHEDULE 200	SCHEDULE 240	SCHEDULE 300	SCHEDULE 360	SCHEDULE 420	SCHEDULE 480	SCHEDULE 600
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1/4"	13.7	22.4	26.3	29.4	32.4	35.4	38.4	41.4	44.4	47.4	50.4	53.4	56.4	59.4	62.4	65.4	68.4	71.4	74.4	77.4	80.4	83.4
3/8"	17.1	27.1	31.1	35.1	39.1	43.1	47.1	51.1	55.1	59.1	63.1	67.1	71.1	75.1	79.1	83.1	87.1	91.1	95.1	99.1	103.1	107.1
1/2"	21.3	32.3	37.3	42.3	47.3	52.3	57.3	62.3	67.3	72.3	77.3	82.3	87.3	92.3	97.3	102.3	107.3	112.3	117.3	122.3	127.3	132.3
3/4"	26.7	39.7	45.7	51.7	57.7	63.7	69.7	75.7	81.7	87.7	93.7	99.7	105.7	111.7	117.7	123.7	129.7	135.7	141.7	147.7	153.7	159.7
1"	33.4	50.4	58.4	66.4	74.4	82.4	90.4	98.4	106.4	114.4	122.4	130.4	138.4	146.4	154.4	162.4	170.4	178.4	186.4	194.4	202.4	210.4
1 1/4"	42.2	64.2	75.2	86.2	97.2	108.2	119.2	130.2	141.2	152.2	163.2	174.2	185.2	196.2	207.2	218.2	229.2	240.2	251.2	262.2	273.2	284.2
1 1/2"	48.3	73.3	86.3	99.3	112.3	125.3	138.3	151.3	164.3	177.3	190.3	203.3	216.3	229.3	242.3	255.3	268.3	281.3	294.3	307.3	320.3	333.3
2"	60.3	91.3	107.3	123.3	139.3	155.3	171.3	187.3	203.3	219.3	235.3	251.3	267.3	283.3	299.3	315.3	331.3	347.3	363.3	379.3	395.3	411.3
2 1/2"	73.0	110.0	129.0	148.0	167.0	186.0	205.0	224.0	243.0	262.0	281.0	300.0	319.0	338.0	357.0	376.0	395.0	414.0	433.0	452.0	471.0	490.0
3"	88.9	141.9	164.9	187.9	210.9	233.9	256.9	279.9	302.9	325.9	348.9	371.9	394.9	417.9	440.9	463.9	486.9	509.9	532.9	555.9	578.9	601.9
3 1/2"	101.6	164.6	191.6	218.6	245.6	272.6	299.6	326.6	353.6	380.6	407.6	434.6	461.6	488.6	515.6	542.6	569.6	596.6	623.6	650.6	677.6	704.6
4"	114.3	191.3	222.3	253.3	284.3	315.3	346.3	377.3	408.3	439.3	470.3	501.3	532.3	563.3	594.3	625.3	656.3	687.3	718.3	749.3	780.3	811.3
5"	141.3	241.3	281.3	321.3	361.3	401.3	441.3	481.3	521.3	561.3	601.3	641.3	681.3	721.3	761.3	801.3	841.3	881.3	921.3	961.3	1001.3	1041.3
6"	168.3	288.3	338.3	388.3	438.3	488.3	538.3	588.3	638.3	688.3	738.3	788.3	838.3	888.3	938.3	988.3	1038.3	1088.3	1138.3	1188.3	1238.3	1288.3
8"	219.1	379.1	449.1	519.1	589.1	659.1	729.1	799.1	869.1	939.1	1009.1	1079.1	1149.1	1219.1	1289.1	1359.1	1429.1	1499.1	1569.1	1639.1	1709.1	1779.1
10"	273.0	463.0	543.0	623.0	703.0	783.0	863.0	943.0	1023.0	1103.0	1183.0	1263.0	1343.0	1423.0	1503.0	1583.0	1663.0	1743.0	1823.0	1903.0	1983.0	2063.0
12"	323.8	553.8	653.8	753.8	853.8	953.8	1053.8	1153.8	1253.8	1353.8	1453.8	1553.8	1653.8	1753.8	1853.8	1953.8	2053.8	2153.8	2253.8	2353.8	2453.8	2553.8
14"	355.6	615.6	725.6	835.6	945.6	1055.6	1165.6	1275.6	1385.6	1495.6	1605.6	1715.6	1825.6	1935.6	2045.6	2155.6	2265.6	2375.6	2485.6	2595.6	2705.6	2815.6
16"	406.4	696.4	826.4	956.4	1086.4	1216.4	1346.4	1476.4	1606.4	1736.4	1866.4	1996.4	2126.4	2256.4	2386.4	2516.4	2646.4	2776.4	2906.4	3036.4	3166.4	3296.4
18"	457.2	777.2	927.2	1077.2	1227.2	1377.2	1527.2	1677.2	1827.2	1977.2	2127.2	2277.2	2427.2	2577.2	2727.2	2877.2	3027.2	3177.2	3327.2	3477.2	3627.2	3777.2
20"	508.0	858.0	1028.0	1198.0	1368.0	1538.0	1708.0	1878.0	2048.0	2218.0	2388.0	2558.0	2728.0	2898.0	3068.0	3238.0	3408.0	3578.0	3748.0	3918.0	4088.0	4258.0
22"	558.8	938.8	1128.8	1318.8	1508.8	1698.8	1888.8	2078.8	2268.8	2458.8	2648.8	2838.8	3028.8	3218.8	3408.8	3598.8	3788.8	3978.8	4168.8	4358.8	4548.8	4738.8
24"	609.6	1019.6	1229.6	1439.6	1649.6	1859.6	2069.6	2279.6	2489.6	2699.6	2909.6	3119.6	3329.6	3539.6	3749.6	3959.6	4169.6	4379.6	4589.6	4799.6	5009.6	5219.6
26"	660.4	1090.4	1310.4	1530.4	1750.4	1970.4	2190.4	2410.4	2630.4	2850.4	3070.4	3290.4	3510.4	3730.4	3950.4	4170.4	4390.4	4610.4	4830.4	5050.4	5270.4	5490.4
28"	711.2	1161.2	1391.2	1621.2	1851.2	2081.2	2311.2	2541.2	2771.2	3001.2	3231.2	3461.2	3691.2	3921.2	4151.2	4381.2	4611.2	4841.2	5071.2	5301.2	5531.2	5761.2
30"	762.0	1232.0	1472.0	1712.0	1952.0	2192.0	2432.0	2672.0	2912.0	3152.0	3392.0	3632.0	3872.0	4112.0	4352.0	4592.0	4832.0	5072.0	5312.0	5552.0	5792.0	6032.0
32"	812.8	1292.8	1542.8	1792.8	2042.8	2292.8	2542.8	2792.8	3042.8	3292.8	3542.8	3792.8	4042.8	4292.8	4542.8	4792.8	5042.8	5292.8	5542.8	5792.8	6042.8	6292.8
34"	863.6	1343.6	1603.6	1863.6	2123.6	2383.6	2643.6	2903.6	3163.6	3423.6	3683.6	3943.6	4203.6	4463.6	4723.6	4983.6	5243.6	5503.6	5763.6	6023.6	6283.6	6543.6
36"	914.4	1394.4	1664.4	1934.4	2204.4	2474.4	2744.4	3014.4	3284.4	3554.4	3824.4	4094.4	4364.4	4634.4	4904.4	5174.4	5444.4	5714.4	5984.4	6254.4	6524.4	6794.4



RIF. NORMA MSS SP-97
PARAGRAFO 3.3

Il produttore ha la facoltà di definire
Il collettore per una data misura
Per ragioni economiche
Garantendo la differenza di distanza
Tra il raggio del collettore
E il raggio del raccordo interno
Non superi 1/16" (1.6 mm)

REF. STANDARD MSS SP-97
PARAGRAPH 3.3

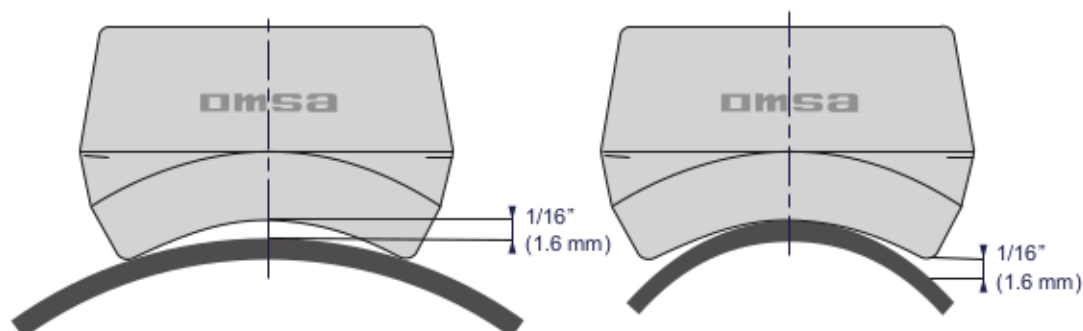
The manufacturer has the option to consolidate
run sizes for a certain branch size
for economic reasons,
provided the designated
consolidations gap distance between the run
pipe radius and the fitting inlet radius does
not exceed 1/16" (1.6 mm)

DERIVAZIONE A SALDARE DI TESTA STD - XS
BRANCH OUTLETS BW STD - XS

DN SIZE	RUN SIZE									
1/8"	3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-
1/4"	3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-
3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-	-
1/2"	1/2"	3/4"	1"	1 1/4" - 1 1/2"	2" - 2 1/2"	3" - 8"	10" - 36"	-	-	-
3/4"	3/4"	1"	1 1/4" - 1 1/2"	2" - 2 1/2"	3" - 5"	6" - 12"	14" - 36"	-	-	-
1"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 10"	12" - 36"	-
1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 8"	10" - 18"	20" - 36"	-
1 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2" - 4"	5" - 6"	8" - 12"	14" - 24"	26" - 36"	-
2"	2"	2 1/2"	3"	4"	5"	6"	8" - 10"	12" - 18"	20" - 36"	-
2 1/2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10" - 12"	14" - 18"	20" - 36"
3"	3"	3 1/2"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"
3 1/2"	3 1/2"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"	-
4"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"	-	-

DERIVAZIONE A SALDARE DI TESTA SCH 160 - XXS
BRANCH OUTLETS BW SCH 160 - XXS

DN SIZE	RUN SIZE									
1/2"	1/2"	1 1/4" - 1 1/2"	1 1/2" - 36"	-	-	-	-	-	-	-
3/4"	3/4" - 1"	1 1/4" - 2"	2 1/2" - 6"	8" - 36"	-	-	-	-	-	-
1"	1"	1 1/4" - 2"	3" - 10"	12" - 36"	-	-	-	-	-	-
1 1/4"	1 1/4" - 1 1/2"	2" - 1/2"	3" - 10"	12" - 36"	-	-	-	-	-	-
1 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2" - 4"	-	-	-	-	-
2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 8"	10" - 18"	20" - 36"	-	-	-



**RIF. NORMA MSS SP-97
PARAGRAFO 3.3**

Il produttore ha la facoltà di definire
Il collettore per una data misura
Per ragioni economiche
Garantendo la differenza di distanza
Tra il raggio del collettore
E il raggio del raccordo interno
Non superiori 1/16" (1.6 mm)

**REF. STANDARD MSS SP-97
PARAGRAPH 3.3**

*The manufacturer has the option to consolidate
run sizes for a certain branch size
for economic reasons,
provided the designated
consolidations gap distance between the run
pipe radius and the fitting inlet radius does
not exceed 1/16" (1.6 mm)*

**DERIVAZIONE FILETTATE E A TASCA 3000 lbs
BRANCH OUTLETS THREADED and SOCKET 3000 lbs**

DN SIZE	RUN SIZE									
1/8"	3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-
1/4"	3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-
3/8"	1/2"	3/4" - 1"	2 1/2" - 1 1/4"	3" - 36"	-	-	-	-	-	-
1/2"	1/2"	3/4"	1"	1 1/4" - 1 1/2"	2" - 2 1/2"	3" - 8"	10" - 36"	-	-	-
3/4"	3/4"	1"	1 1/4" - 1 1/2"	2" - 2 1/2"	3" - 5"	6" - 12"	14" - 36"	-	-	-
1"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 10"	12" - 36"	-
1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 8"	10" - 18"	20" - 36"	-
1 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2" - 4"	5" - 6"	8" - 12"	14" - 24"	26" - 36"	-
2"	2"	2 1/2"	3"	4"	5"	6"	8" - 10"	12" - 18"	20" - 36"	-
2 1/2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10" - 12"	14" - 18"	20" - 36"
3"	3"	3 1/2"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"
3 1/2"	3 1/2"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"	-
4"	4"	5"	6"	8"	10"	12" - 14"	16" - 20"	24" - 36"	-	-

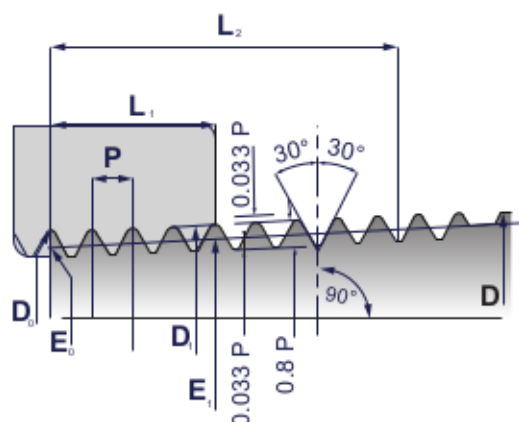
**DERIVAZIONE FILETTATE E A TASCA 6000 lbs
BRANCH OUTLETS THREADED and SOCKET 6000 lbs**

DN SIZE	RUN SIZE									
1/2"	3/4" - 1"	1 1/4" - 2"	2 1/2" - 6"	8" - 36"	-	-	-	-	-	-
3/4"	1"	1 1/4" - 2 1/2"	3" - 10"	12" - 36"	-	-	-	-	-	-
1"	1 1/4" - 1 1/2"	2" - 2 1/2"	3" - 10"	12" - 36"	-	-	-	-	-	-
1 1/4"	1 1/2"	2" - 2 1/2"	3" - 3 1/2"	4" - 8"	10" - 20"	24" - 36"	-	-	-	-
1 1/2"	2"	2 1/2"	3" - 3 1/2"	4" - 5"	6" - 8"	10" - 18"	20" - 36"	-	-	-
2"	2 1/2"	3"	4"	5"	6"	10" - 18"	12" - 20"	24" - 36"	-	-



FILETTATURE ANSI B 1.20.1 (NPT) THREADS ANSI B 1.20.1 (NPT)

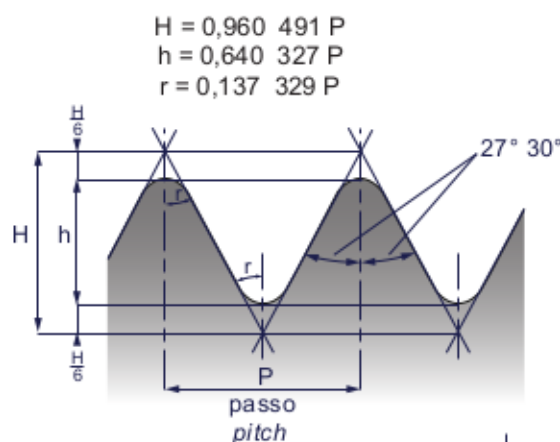
62



Conicità = 6.25%
La bisettrice dell'angolo del filetto
è perpendicolare all'asse del cono.

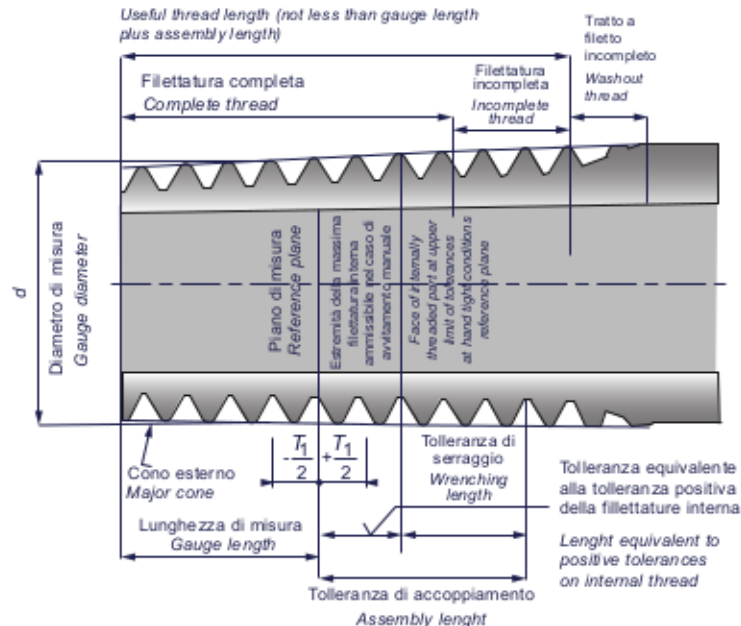
Taper = 6.25%
The bisector of the thread flank angle
is perpendicular to the axis of the cone.

Dimensione nominale Nominal pipe size	Passo Pitch		Diametro medio (in mm.) Pitch diameter (in mm.)		Diametro esterno (in mm.) External diameter (in mm.)			Filettatura utile L ₂ in mm. Length of effective thread L ₂	Avvitamento L ₁ in mm. Length hand-tight engagement L ₁
	in filetti per pollice Threads/ inch, n	in mm.	all'inizio della filettat. esterna E ₀ at the beginning of external thread E ₀	alla lunghezza L ₁ di avvitamento E ₁ at plane of hand-tight engagement length L ₁	all'inizio della filettat. esterna D ₀ at the beginning of external thread D ₀	alla lunghezza L ₁ di avvitamen. D ₁ at gaging notch of plug gauge D ₁	diametro esterno nominale D nominal external diameter D		
1/8	27	0.9407	9.233	9.489	9.985	10.242	10.287	6.703	4.102
1/4	18	1.4111	12.126	12.487	13.254	13.616	13.716	10.206	5.786
3/8	18	1.4111	15.545	15.926	16.673	17.055	17.145	10.358	6.096
1/2	14	1.8143	19.264	19.772	20.715	21.223	21.336	13.556	8.128
3/4	14	1.8143	24.579	25.117	26.030	26.568	26.670	13.861	8.611
1	11½	2.2087	30.826	31.461	32.592	33.227	33.401	17.343	10.160
1½	11½	2.2087	39.551	40.218	41.317	41.984	42.164	17.953	10.668
1½	11½	2.2087	45.621	46.287	47.387	48.053	48.260	18.377	10.668
2	11½	2.2087	57.633	58.325	59.399	60.091	60.325	19.215	11.074
2½	8	3.1750	69.076	70.159	71.616	72.699	73.025	28.892	17.323
3	8	3.1750	84.852	86.068	87.392	88.608	88.900	30.480	19.456
3½	8	3.1750	97.473	98.776	100.013	101.316	101.600	31.750	20.853
4	8	3.1750	110.093	111.433	112.633	113.973	114.300	33.020	21.438

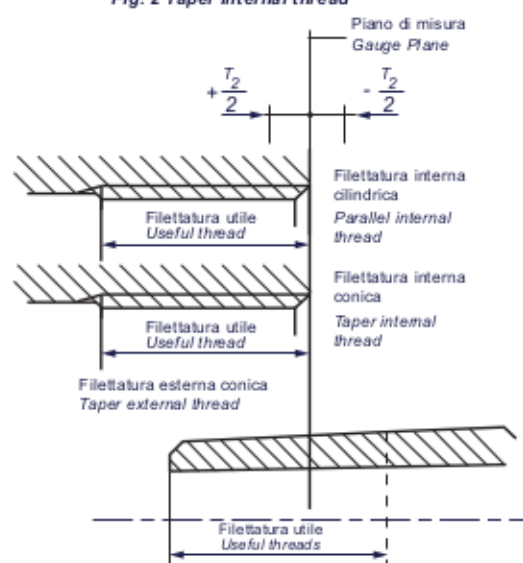


**Fig. 1 Filettatura cilindrica
Parallel Thread**

Filettatura utile (almeno uguale alla lunghezza di misura più la tolleranza di accoppiamento)
Useful thread length (not less than gauge length plus assembly length)



**Fig. 2 Filettatura conica
Fig. 2 Taper internal thread**



Denominazione della filettatura Thread size	Numero di passi in 25,4 mm Number of threads in 25,4 mm	Passo Pitch	Profondità del filetto Threaded thickness	Diametri (di base) nel piano di misura Diameters at gauge plane			Lunghezza di misura (distanza dal piano di misura all'estremità del tubo) Gauge length				Posizione piano di misura su filettatura interna			Lunghezza della filettatura utile del tubo almeno uguale a Length of useful external thread not less than			Tolleranza di accoppiamento assembly length	
				esterno (diametro di misura) Major (gauge diameter) d mm	medio pitch d2 mm	di nocciolo minor d1 mm	nominale nominal mm	tolleranza tolerance + e - T1/2 mm	numero di passi turn of thread	massima max mm	minima min mm	tolleranza tolerance + e - T1/2 mm	numero di passi turn of thread	per lunghezza nominale di misura for nominal gauge length mm	per lunghezza massima di misura for maximum gauge length mm	per lunghezza minima di misura for minimum gauge length mm	mm	numero di passi Number of threads
1/8	28	0.907	0.581	9.728	9.147	8.566	4.0	0.9	1	4.9	3.1	1.1	1 1/2	6.5	7.4	5.6	2.5	2 1/2
1/4	19	1.337	0.856	13.157	13.301	11.445	6.0	1.3	1	7.3	4.7	1.7	1 1/2	9.7	11.0	8.4	3.7	2 1/2
3/8	19	1.337	0.856	16.662	15.806	14.950	6.4	1.3	1	7.7	5.1	1.7	1 1/2	10.1	11.4	8.8	3.7	2 1/2
1/2	14	1.814	1.162	20.955	19.793	18.631	8.2	1.8	1	10.0	6.4	2.3	1 1/2	13.2	15.0	11.4	5.0	2 1/2
3/4	14	1.814	1.162	26.441	25.279	24.117	9.5	1.8	1	11.3	7.7	2.3	1 1/2	14.5	16.3	12.7	5.0	2 1/2
1	11	2.309	1.479	33.249	31.770	30.291	10.4	2.3	1	12.7	8.1	2.9	1 1/2	16.8	19.1	14.5	6.4	2 1/2
1 1/8	11	2.309	1.479	41.910	40.431	38.952	12.7	2.3	1	15.0	10.4	2.9	1 1/2	19.1	21.4	16.8	6.4	2 1/2
1 1/4	11	2.309	1.479	47.803	46.324	44.845	12.7	2.3	1	15.0	10.4	2.9	1 1/2	19.1	21.4	16.8	6.4	2 1/2
2	11	2.309	1.479	59.614	58.135	56.656	15.9	2.3	1	18.2	13.6	2.9	1 1/2	23.4	25.7	21.1	7.5	3 1/2
2 1/8	11	2.309	1.479	75.184	73.705	72.226	17.5	3.5	1 1/2	21.0	14.0	3.5	1 1/2	26.7	30.2	23.2	9.2	4
3	11	2.309	1.479	87.884	86.405	84.926	20.6	3.5	1 1/2	24.1	17.1	3.5	1 1/2	29.7	33.3	26.3	9.2	4
4	11	2.309	1.479	113.030	111.551	110.072	25.4	3.5	1 1/2	28.9	21.9	3.5	1 1/2	35.8	39.3	32.3	10.4	4 1/2

TABELLA PESI RACCORDI FILETTATI - TABLE WEIGHTS THREADED FITTINGS

		lbs	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Gomito 90° Elbow 90°		2000	0.125	0.125	0.145	0.285	0.375	0.550	0.760	1.000	1.500	3.650	5.700	11.500
		3000	0.140	0.175	0.325	0.465	0.700	0.700	1.080	1.300	2.360	5.700	8.000	15.500
		6000	0.285	0.360	0.510	0.820	1.250	1.650	2.750	3.550	7.100	11.000	17.500	16.500
Gomito 45° Elbow 45°		2000	0.105	0.105	0.130	0.250	0.310	0.440	0.670	0.930	1.210	3.100	5.200	10.500
		3000	0.120	0.150	0.280	0.380	0.560	0.910	1.150	1.850	2.100	4.850	6.650	12.500
		6000	0.165	0.310	0.420	0.650	1.050	1.410	2.150	2.750	6.150	8.600	15.000	13.000
Tee Equal Tee		2000	0.165	0.165	0.190	0.360	0.490	0.715	1.010	1.365	1.950	3.900	6.300	10.400
		3000	0.180	0.230	0.450	0.520	0.850	1.250	1.750	2.750	4.000	-	-	-
		6000	-	-	-	1.100	1.500	2.250	3.150	3.650	8.200	-	-	-
Croce Cross		2000	0.205	0.205	0.235	0.465	0.610	0.900	1.240	1.630	2.450	6.000	9.300	19.000
		3000	0.230	0.285	0.530	0.760	1.140	1.760	2.100	3.850	4.240	9.300	13.000	25.000
		6000	0.320	0.590	0.830	1.350	2.040	2.700	4.500	5.800	11.600	18.000	28.500	27.000
Gomito MF Street elbow		2000	-	-	-	-	-	-	-	-	-	-	-	-
		3000	0.100	0.130	0.215	0.330	0.540	0.970	1.100	1.940	2.340	-	-	-
		6000	0.130	0.210	0.330	0.540	0.970	1.100	1.940	2.340	5.000	-	-	-
Manicotto Coupling		2000	-	-	-	-	-	-	-	-	-	-	-	-
		3000	0.060	0.070	0.080	0.170	0.230	0.460	0.800	1.110	1.500	2.300	3.500	6.000
		6000	0.100	0.120	0.210	0.350	0.490	1.080	1.160	1.960	2.940	4.200	6.300	10.400
Manicotto rid. Red. coupling		3000	-	0.084	0.096	0.204	0.276	0.552	0.960	1.332	1.800	2.760	4.200	7.200
		6000	-	0.144	0.252	0.420	0.588	1.296	1.392	2.352	3.528	5.400	7.560	12.480
Manicotto F/T SW/T coupling		3000	-	0.040	0.066	0.106	0.157	0.260	0.460	0.580	0.750	1.044	1.750	3.125
		6000	-	0.050	0.090	0.155	0.235	0.480	0.600	0.900	1.500	2.300	3.900	-
Mezzo Manicotto Half coupling		3000	0.030	0.035	0.040	0.085	0.115	0.230	0.400	0.555	0.750	1.150	1.750	3.000
		6000	0.050	0.060	0.105	0.175	0.245	0.540	0.580	0.980	1.470	2.100	3.150	5.200
Tappo femmina Femal plugs		3000	0.030	0.035	0.040	0.185	0.200	0.230	0.400	0.555	0.750	1.150	1.750	3.000
		6000	-	0.100	0.160	0.265	0.410	0.740	0.920	1.380	2.100	3.500	5.000	8.600
Tappo m. esag. M. hexag. plugs			-	0.025	0.045	0.070	0.125	0.220	0.410	0.570	0.900	1.600	2.500	5.000
Rid. m. esag. M. hexag. Bush			-	0.020	0.025	0.040	0.070	0.115	0.230	0.250	0.500	0.750	1.150	2.500
Tappo m. quadra M. square plugs			0.015	0.020	0.035	0.055	0.090	0.170	0.290	0.390	0.600	1.100	1.700	3.500
Tappo m. tonda M. square plugs			0.025	0.050	0.075	0.125	0.200	0.350	0.555	0.725	1.420	2.250	3.400	6.100

TABELLA PESI RACCORDI FILETTATI - TABLE WEIGHTS THREADED FITTINGS

		lbs	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Nipplo esag. Hexag. nipple		3000	-	0.030	0.060	0.070	0.105	0.180	0.290	0.355	0.530	1.050	1.650	2.550
		6000	-	0.035	0.055	0.100	0.160	0.280	0.450	0.560	0.870	1.630	2.600	4.200
Nipplo esag. rid. Hexag. rid. nipple		3000	-	-	0.045	0.060	0.090	0.160	0.265	0.335	0.510	0.950	1.500	2.400
		6000	-	-	0.050	0.075	0.125	0.230	0.370	0.545	0.700	1.400	2.150	3.900
Riduzione M/F M/F bush		3000	-	-	0.125	0.265	0.358	0.720	1.250	1.731	2.340	3.590	5.460	9.360
		6000	-	-	0.125	0.265	0.359	0.717	0.960	1.332	1.800	2.760	-	-
Nipplo tubo rid. conc. Conc. Swage nipple MSS SP - 95		Sch. 40	-	0.036	0.054	0.089	0.129	0.223	0.345	0.462	0.897	1.541	2.300	3.737
		Sch. 80	-	0.046	0.070	0.110	0.165	0.285	0.450	0.600	1.200	2.000	3.000	5.000
		Sch. 160	-	-	-	0.135	0.135	0.215	0.370	0.570	1.800	2.600	4.300	7.500
		Sch. XXS	-	-	-	0.175	0.270	0.480	0.785	1.050	2.200	3.600	5.500	9.200
Nipplo tubo rid. ecc. Ecc. Swage nipple MSS SP - 95		Sch. 40	-	0.036	0.054	0.089	0.129	0.223	0.345	0.462	0.897	1.541	2.300	3.737
		Sch. 80	-	0.046	0.070	0.110	0.165	0.285	0.450	0.600	1.200	2.000	3.000	5.000
		Sch. 160	-	-	-	0.135	0.135	0.215	0.370	0.570	1.800	2.600	4.300	7.500
		Sch. XXS	-	-	-	0.175	0.270	0.480	0.785	1.050	2.200	3.600	5.500	9.200
Nipplo tubo rid. conc. Conc. Swage nipple BS 3799		Sch. 80	-	0.084	0.145	0.209	0.330	0.285	0.600	0.600	1.200	2.000	3.000	5.000
		Sch. 160	-	-	-	0.135	0.135	0.215	0.370	0.570	1.800	2.600	4.300	7.500
		Sch. XXS	-	-	-	0.175	0.270	0.480	0.785	1.050	2.200	3.600	5.500	9.200
Nipplo tubo rid. ecc. Ecc. Swage nipple BS 3799		Sch. 80	-	0.046	0.070	0.110	0.165	0.285	0.450	0.600	1.200	2.000	3.000	5.000
		Sch. 160	-	-	-	0.135	0.135	0.215	0.370	0.570	1.800	2.600	4.300	7.500
		Sch. XXS	-	-	-	0.175	0.270	0.480	0.785	1.050	2.200	3.600	5.500	9.200
Bocchettone Union		3000	0.165	0.165	0.240	0.340	0.430	0.660	1.100	1.550	2.250	4.700	6.400	-
		6000	0.350	0.350	0.470	0.880	1.150	2.000	2.500	3.250	5.350	8.400	13.250	-
Bocc. M/F M/F Union		3000	-	0.185	0.265	0.390	0.510	0.780	1.260	1.770	2.600	-	-	-
		6000	-	0.370	0.495	0.930	1.230	2.120	2.660	3.470	5.700	-	-	-
Bocc. M/M M/M Union		3000	-	0.205	0.290	0.440	0.590	0.900	1.420	1.990	2.950	-	-	-
		6000	-	0.390	0.520	0.980	1.310	2.240	2.820	3.690	6.050	-	-	-
Derivazione Screwbranches		3000	-	-	-	0.120	0.190	0.310	0.450	0.500	0.870	1.500	2.150	3.500
		6000	-	-	-	0.300	0.500	0.900	0.850	1.450	2.750	-	-	-
Derivazione 45°/90° 45°/90° elbowbranches		3000	-	0.230	0.230	0.300	0.350	0.530	0.860	1.200	2.400	-	-	-
		6000	-	0.350	0.350	0.400	0.670	1.000	1.320	2.800	3.600	-	-	-
Nipplebranches Nipplebranches		Sch. 80	-	0.200	0.230	0.250	0.400	0.650	0.750	0.950	1.450	-	-	-
		Sch. 160	-	-	-	0.250	0.500	0.700	0.880	1.150	1.500	-	-	-
Boss B 16.11 Boss B 16.11		3000	0.030	0.035	0.040	0.085	0.115	0.230	0.400	0.555	0.750	1.150	1.750	3.000
		6000	0.050	0.060	0.105	0.175	0.245	0.540	0.580	0.980	1.470	2.100	3.150	5.200
Boss BS 3799 Boss BS 3799		3000	0.045	0.065	0.080	0.170	0.220	0.370	-	0.680	0.820	1.380	1.800	3100
		6000	0.100	0.140	0.230	0.360	0.470	0.860	-	1.850	-	-	-	-
Couplet B 16.11 Couplet B 16.11		3000	-	0.060	0.150	0.230	0.280	0.450	0.780	1.000	1.500	2.600	3.900	6.500
		6000	-	0.060	0.180	0.270	0.380	0.750	0.900	1.500	2.400	3.500	5.000	9.000
Boss Comb. Comb. Boss		3000	-	-	-	0.160	0.210	0.400	0.680	0.850	1.350	2.130	-	-
		6000	-	-	-	0.190	0.300	0.620	0.800	1.200	2.000	-	-	-

TABELLA PESI RACCORDI A TASCA - TABLE WEIGHTS SOCKET WELD FITTINGS

		lbs	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Gomito 90° Elbow 90°		3000	0.125	0.125	0.145	0.275	0.375	0.550	0.780	1.050	1.500	3.000	5.000	9.500
		6000	0.140	0.175	0.350	0.400	0.650	0.950	1.350	2.100	3.100	6.500	10.000	-
		9000	-	-	-	0.780	1.150	1.700	2.400	2.800	6.250	-	-	-
Gomito 45° Elbow 45°		3000	0.100	0.100	0.120	0.240	0.330	0.460	0.660	1.890	1.250	2.650	4.000	8.000
		6000	0.120	0.150	0.290	0.320	0.540	0.770	1.100	1.700	2.700	5.700	7.600	-
		9000	-	-	-	0.640	0.930	1.400	1.800	2.350	4.400	-	-	-
Tee Equal Tee		3000	0.165	0.165	0.190	0.360	0.490	0.715	1.010	1.365	1.950	3.900	6.500	10.400
		6000	0.180	0.230	0.450	0.520	0.850	1.250	1.750	2.750	4.000	8.700	13.000	-
		9000	-	-	-	1.010	1.500	2.250	3.150	3.650	8.200	-	-	-
Croce Cross		3000	0.205	0.205	0.235	0.450	0.610	0.900	1.270	1.700	2.450	4.900	8.150	13.000
		6000	0.230	0.285	0.570	0.650	1.060	1.550	2.200	2.420	5.050	11.000	16.000	-
		9000	-	-	-	1.270	1.875	2.770	3.950	4.560	10.000	-	-	-
Gomito MF Street elbow		3000	0.100	0.130	0.215	0.330	0.540	0.970	1.100	1.940	2.340	-	-	-
		6000	0.130	0.210	0.330	0.540	0.970	1.100	1.940	2.340	5.000	-	-	-
Manicotto Coupling		3000	0.060	0.070	0.100	0.170	0.240	0.400	0.545	0.710	1.200	1.900	2.550	3.950
		6000	0.070	0.090	0.130	0.230	0.360	0.580	0.770	1.050	2.000	-	-	-
		9000	-	-	-	0.375	0.500	0.850	1.190	1.500	2.540	-	-	-
Manicotto rid. Red. coupling		3000	-	0.072	0.102	0.180	0.252	0.420	0.570	0.744	1.260	1.980	2.640	4.148
		6000	-	0.090	0.132	0.240	0.372	0.600	0.792	1.068	2.040	-	-	-
		9000	-	-	-	-	0.528	0.900	-	-	-	-	-	-
Mezzo Manicotto Half coupling		3000	0.060	0.070	0.100	0.170	0.240	0.400	0.545	0.710	1.200	1.900	2.550	3.950
		6000	0.070	0.090	0.130	0.155	0.260	0.400	0.630	0.860	1.600	-	-	-
		9000	-	-	-	0.375	0.500	0.850	1.190	1.500	2.540	-	-	-
Tappo femmina Femal plugs		3000	0.035	0.050	0.070	0.110	0.175	0.260	0.435	0.580	1.000	1.700	2.600	4.200
		6000	0.070	0.090	0.130	0.155	0.260	0.556	0.556	0.556	0.556	0.556	0.556	0.556
		9000	0.035	0.050	0.070	0.110	0.175	0.260	0.435	0.580	1.000	1.700	2.600	4.200
Inserto rid. red. insert		3000	0.075	0.080	0.100	0.150	0.230	0.370	-	-	-	-	-	-
		6000	0.100	0.110	0.130	0.210	0.365	0.490	-	-	-	-	-	-
Rid. m. esag. M. hexag. Bush		3000	-	-	-	-	-	-	-	-	0.620	0.980	1.550	2.400
		6000	-	-	-	-	-	-	-	-	0.850	1.350	2.150	-
Bocchettone Union		3000	0.170	0.170	0.250	0.330	0.430	0.670	1.150	1.550	2.300	5.100	6.900	-
		6000	0.340	0.340	0.460	0.850	1.150	1.900	2.450	3.230	5.500	8.400	-	-
Derivazione bw Weldbranches		St. full.	-	-	-	0.070	0.120	0.180	0.320	0.360	0.700	1.100	1.700	3.050
		Ex. st. f.	-	-	-	0.070	0.120	0.180	0.320	0.400	0.720	1.130	1.850	3.400
		Sch. 160 full	-	-	-	0.150	0.320	0.380	0.600	0.850	1.000	1.700	2.950	4.950
Derivazione bw rid. Weldbranches rid.		St. reducing	-	-	-	0.070	0.120	0.180	0.320	0.360	0.700	1.100	1.700	3.050
		Ex. st. rd.	-	-	-	0.070	0.120	0.180	0.320	0.400	0.720	1.130	1.850	3.400
		Sch. 160 rd.	-	-	-	0.150	0.320	0.380	0.600	0.850	1.000	1.700	2.950	4.950
Derivazione Soketbranches		3000	-	-	-	0.120	0.190	0.310	0.450	0.500	0.870	1.500	2.150	3.500
		6000	-	-	-	0.300	0.500	0.900	0.850	1.450	2.750	-	-	-
Nipplebranches Nipplebranches		Sch. 80	-	0.200	0.230	0.250	0.400	0.650	0.750	0.950	1.450	-	-	-
		Sch. 160	-	-	-	0.250	0.500	0.700	0.880	1.150	1.500	-	-	-
Derivazione 45° Elbowbranches		3000	-	0.350	0.350	0.400	0.670	1.000	1.320	2.800	3.600	-	-	-
		6000	-	0.230	0.230	0.300	0.350	0.530	0.860	1.200	2.400	-	-	-
Boss B 16.11 Boss B 16.11		3000	0.060	0.070	0.100	0.170	0.240	0.400	0.545	0.710	1.200	1.900	2.550	3.950
		6000	0.070	0.090	0.130	0.155	0.260	0.400	0.630	0.860	1.600	-	-	-
Boss BS 3799 Boss BS 3799		3000	0.045	0.065	0.080	0.170	0.220	0.370	-	0.680	0.820	1.380	1.800	3100
		6000	0.100	0.140	0.230	0.360	0.470	0.860	-	1.850	-	-	-	-
Couplet B 16.11 Couplet B 16.11		3000	-	0.060	0.150	0.230	0.280	0.450	0.780	1.000	1.500	2.600	3.900	6.500
		6000	-	0.060	0.180	0.270	0.380	0.750	0.900	1.500	2.400	3.500	5.000	9.000





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