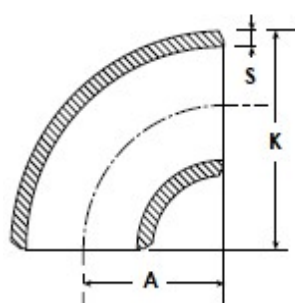
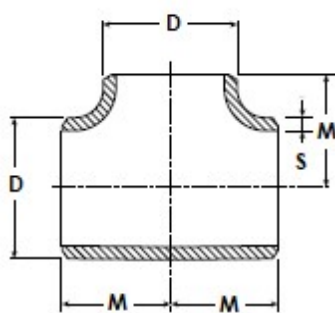
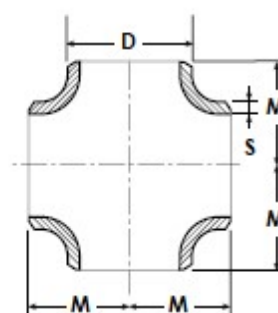
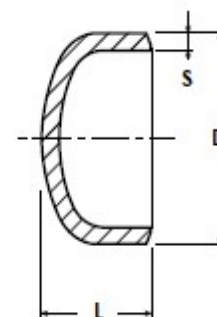


Categoria 06 FP**Raccordi Tubi e Accessori****Fittings and Pipe Accessories**

FPCSF

Raccordi Acciaio al Carbonio

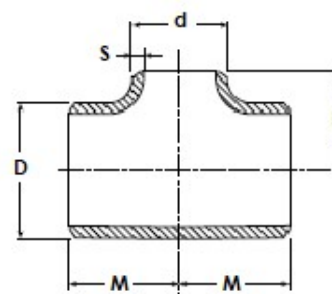
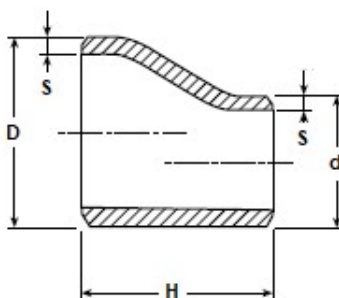
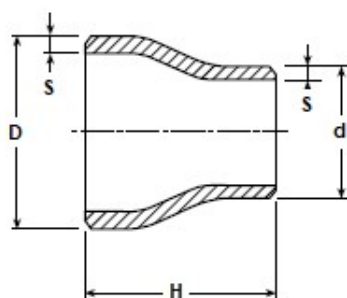
Carbon Steel Fittings

Categoria **FPCSF** Raccordi in Acciaio al Carbonio**Raccordi a saldare in acciaio al carbonio – Norme ASME/ANSI ASTM B16.9 A234 WPB****CURVA 90° R=1.5D**
Elbows long radius**TEE UGUALI**
Equal tees**CROCI**
Crosses**FONDELLI**
Caps

Ø	D mm	A mm	K mm	S (=SCHEDULE)		M	L
				STD (40)	XS		
1/2"	21.3	38.1	47.6	2.77	3.73	25.4	25.9
3/4"	26.7	38.1	50.9	2.87	3.91	28.5	25.9
1"	33.4	38.1	55.6	3.38	4.55	38.1	38.1
1 1/4"	42.2	47.6	69.8	3.56	4.85	47.6	38.1
1 1/2"	48.3	57.2	82.5	3.68	5.08	57.1	38.1
2"	60.3	76.2	106.4	3.91	5.54	63.5	38.1
2 1/2"	73.0	95.2	131.8	5.16	7.01	76.2	38.1
3"	88.9	114.3	158.8	5.49	7.62	85.7	50.8
4"	114.3	152.4	209.6	6.02	8.56	104.8	63.5
5"	141.3	190.5	261.9	6.55	9.52	123.8	76.2
6"	168.3	228.6	312.7	7.11	10.97	142.8	88.9
8"	219.1	304.8	414.3	8.18	12.70	177.8	101.6
10"	273.0	381.0	517.5	9.27	12.70	215.9	127.0
12"	323.8	457.2	619.1	9.52	12.70	254.0	152.4
14"	355.8	533.4	711.2	9.52	12.70	279.4	165.1
16"	406.4	609.6	812.8	9.52	12.70	304.9	177.8
18"	457.2	685.8	914.4	9.52	12.70	342.9	203.2
20"	508.0	762.0	1016.0	9.52	12.70	381.0	228.6

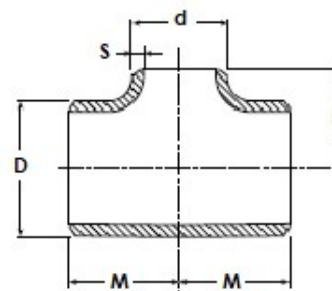
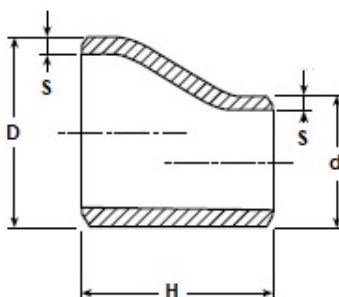
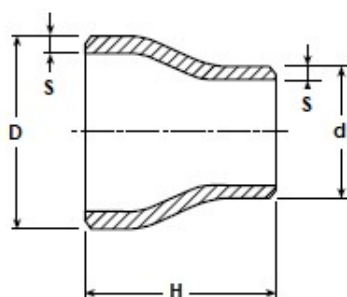
Tolleranze dimensionali a norme ASME B16.9

La certificazione della raccorderia è conforme ai requisiti della norma EN 10204:2004 3.1 e dell'allegato I par. 4.3 della direttiva PED.

Raccordi a saldare in acciaio al carbonio – Norme ASME/ANSI ASTM B16.9 A234 WPB

RIDUZIONI CONCENTRICHE ED ECCENTRICHE
Concentric and eccentric reducers

TEE RIDOTTI
Reducing tees

Ø	D mm	d mm	H mm	S (=SCHEDULE)		M	L
				STD (40)	XS		
3/4" x 1/2"	26.7	21.3	38.0	2.87	3.91	28.5	28.5
3/4" x 3/8"		17.3				29.0	29.0
1" x 3/4"	33.4	26.7	51.0	3.38	4.55	38.1	38.1
1" x 1/2"		21.3					
1"1/4 x 1"	42.2	33.4	64.0	3.56	4.85	47.6	47.6
1"1/4 x 3/4"		26.7					
1"1/4 x 1/2"	48.3	21.3	76.0	3.68	5.08	57.1	57.1
1"1/2 x 1"1/4		42.2					
1"1/2 x 1"		33.4					
1"1/2 x 3/4"		26.7					
1"1/2 x 1/2"	60.3	21.3	89.0	3.91	5.54	63.5	60.3
2" x 1"1/2"		48.3					57.0
2" x 1"1/4"		42.2					50.8
2" x 1"		33.4					44.5
2" x 3/4"		26.7					69.9
2" x 1/2"		21.3					66.7
2"1/2 x 2"	73.0	60.3	102.0	5.16	7.01	76.2	63.5
2"1/2 x 1"1/2"		48.3					57.0
2"1/2 x 1"1/4"		42.2					82.6
2"1/2 x 1"		33.4					76.2
3" x 2"1/2"	88.9	73.0	127.0	5.49	7.62	85.7	73.0
3" x 2"		60.3					69.9
3" x 1"1/2"		48.3					65.9
3" x 1"1/4"		42.2					88.9
3" x 1"		33.4					85.7
4" x 3"	114.3	88.9	140.0	6.02	8.56	104.8	83.7
4" x 2"1/2"		73.0					78.6
4" x 2"		60.3					111.7
4" x 1"1/2"		48.3					111.1
4" x 1"1/4"		42.2					107.9
4" x 1"	141.3	33.4	152.0	6.55	9.52	123.8	104.7
5" x 4"		114.3					136.5
5" x 3"		88.9					130.1
5" x 2"1/2"		73.0					123.8
5" x 2"	168.3	60.3	178.0	7.11	10.97	142.8	120.6
6" x 5"		141.3					115.9
6" x 4"		114.3					168.2
6" x 3"		88.9					161.9
6" x 2"1/2"		73.0					155.5
6" x 2"	219.1	60.3	178.0	8.18	12.70	177.8	150.8
8" x 6"		168.3					203.2
8" x 5"		141.3					193.7
8" x 4"		114.3					
8" x 3"	273.0	88.9	178.0	9.27		215.9	
10" x 8"		219.1					
10" x 6"		168.3					

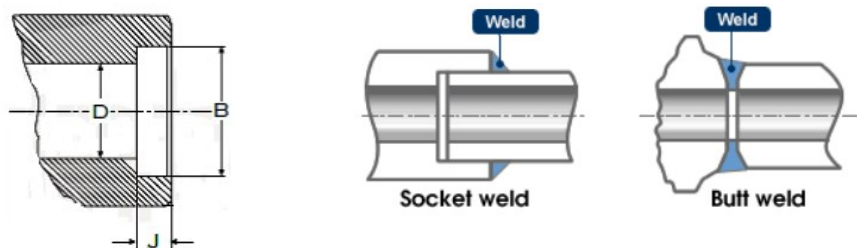
Raccordi a saldare in acciaio al carbonio – Norme ASME/ANSI ASTM B16.9 A234 WPB

RIDUZIONI CONCENTRICHE ED ECCENTRICHE
Concentric and eccentric reducers

TEE RIDOTTI
Reducing tees

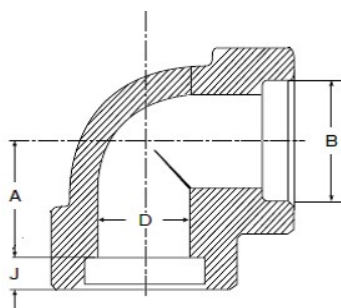
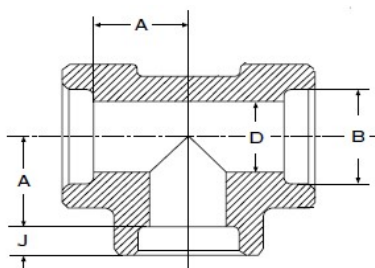
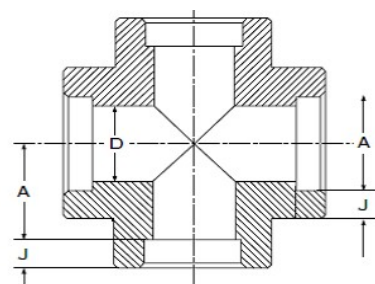
Ø	D mm	d mm	H mm	S (=SCHEDULE)		M	L
				STD (40)	XS		
10" x 5"	273.0	141.3	178.0	9.27	12.70	215.9	190.5
10" x 4"	273.0	114.3					184.2
12" x 10"	323.8	273.0	203.0	9.52		254.0	241.3
12" x 8"	323.8	219.1					228.6
12" x 6"	323.8	168.3					219.1
12" x 5"	323.8	141.3					215.9
12" x 4"	323.8	114.3					214.1
14" x 12"	355.6	323.8					269.9
14" x 10"	355.6	273.0					279.4
14" x 8"	355.6	219.1	247.7				
14" x 6"	355.6	168.3	238.1				
16" x 14"	406.4	355.6	304.9			304.9	
16" x 12"	406.4	323.8				295.6	
16" x 10"	406.4	273.0				282.6	
16" x 8"	406.4	219.1				273.1	
16" x 6"	406.4	168.3				263.5	
18" x 16"	457.2	406.4				381.0	342.9
18" x 14"	457.2	355.6	330.2				
18" x 12"	457.2	323.8	320.7				
18" x 10"	457.2	273.0	308.0				
18" x 8"	457.2	219.1	389.5				
20" x 18"	508.0	457.2	508.0			381.0	368.3
20" x 16"	508.0	406.4					355.6
20" x 14"	508.0	355.6					355.6
20" x 12"	508.0	323.8					346.1
20" x 10"	508.0	273.0					333.4
20" x 8"	508.0	219.1					324.0

Tolleranze dimensionali a norme ASME B16.9

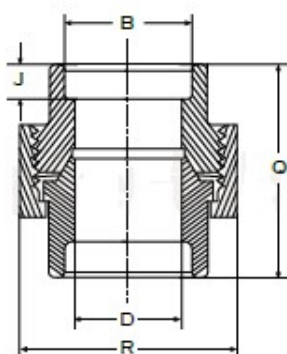
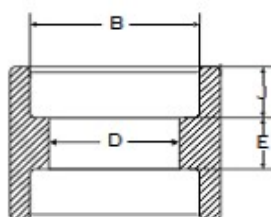
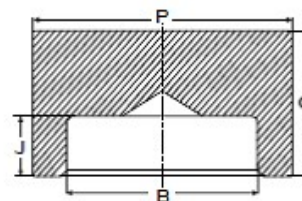
La certificazione della raccorderia è conforme ai requisiti della norma EN 10204:2004 3.1 e dell'allegato I par. 4.3 della direttiva PED.

Raccordi forgiati a saldare di tasca in acciaio A105 S3000 (o S6000) ANSI B16.11

Dimensioni comuni dei raccordi a saldare di tasca ANSI B16.11

Diametro Ø		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
B	min	10.65	14.10	17.55	21.70	27.05	33.80	42.55	48.65	61.10	73.80	89.80	115.45
	max	10.90	14.35	17.80	21.95	27.30	34.05	42.80	48.90	61.35	74.20	90.15	115.80
D (S3000)	min	6.10	8.50	11.80	15.00	20.20	25.90	34.30	40.10	51.70	61.20	76.40	100.70
	max	7.60	10.00	13.30	16.60	21.70	27.40	35.80	41.70	53.50	64.20	79.50	103.80
J	min	10.00	10.00	10.00	10.00	13.00	13.00	13.00	13.00	16.00	16.00	16.00	19.00

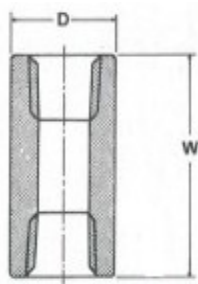

GOMITO 90°
Elbows

TEE UGUALI
Equal tees

CROCI
Crosses

Diametro Ø		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A		/	11.00	13.50	15.50	19.50	22.00	27.00	32.00	38.00	41.50	57.50	66.50
J	min	10.00	10.00	10.00	10.00	13.00	13.00	13.00	13.00	16.00	16.00	16.00	19.00


BOCCHETTONE
Unions

MANICOTTI
Couplings

TAPPO FEMMINA
Caps

Diametro Ø		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Q		/	42.50	47.50	52.00	57.00	63.00	68.00	78.00	91.00	120.0	120.0	148.0
R		/	36.00	41.00	46.00	56.00	65.00	80.00	88.00	105.0	122.0	144.0	200.0
E		/	6.50	6.50	9.50	9.50	13.00	13.00	13.00	19.00	19.00	19.00	19.00
J	min	10.00	10.00	10.00	10.00	13.00	13.00	13.00	13.00	16.00	16.00	16.00	19.00
O		/	20.00	20.00	20.00	25.00	26.00	30.00	31.00	38.00	41.00	43.00	48.00
P		/	22.00	26.00	32.00	38.00	45.00	55.00	60.00	75.00	95.00	110.0	140.0

Raccordi in acciaio S3000 (o S6000) ANSI B16.11


MANICOTTO
Couplings

Tronchetto filettato
Pipe Nipples

Diametro Ø	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D (manicotto)	16.00	20.00	22.00	30.00	35.00	45.00	57.00	64.00	76.00	92.00	108.0	140.0
W	32.00	35.00	38.00	48.00	51.00	60.00	67.00	79.00	86.00	92.00	108.0	121.0
D (tronchetto)	10.30	13.70	17.10	21.30	26.70	33.40	42.20	48.30	60.30	73.00	88.90	114.30
L	100	100	100	100	100	100	*	*	*	*	*	*

*L da definire (a richiesta)

Sono possibili altre tipologie di raccorderia a **saldare SW** e **raccorderia filettata** serie forgiata.

Tutti gli articoli ricavati da barra e da forgiato secondo le norme ANSI B16.11 / BS 3799.

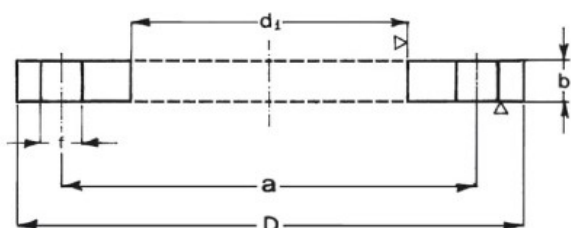
Materiali standard in **acciaio al carbonio**, acciaio Inox **AISI316/L** e special **Alloys**.



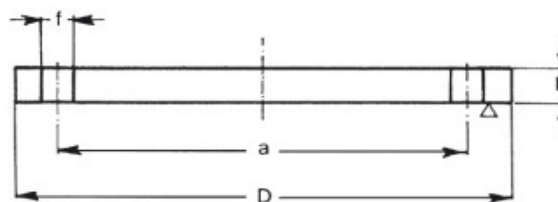
Categoria **FPCSF** Raccordi in Acciaio al Carbonio, flange piane e cieche A105 **EN1092-1**.



Flange piane A105 EN1092-1-01



Flange cieche A105 EN1092-1-05



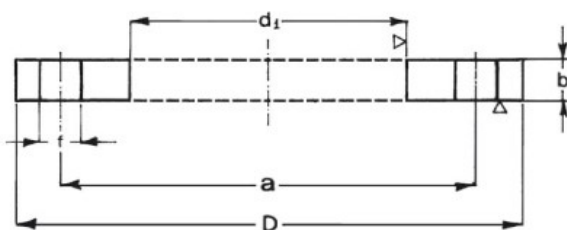
DN / PN	Ø tubo	d1	a	b	D	f	VITI	n°fori
80 (10)	88.9	90.5	160	20	200	18	M16	4
200 (10)	219.1	221.5	295	24	340	22	M20	8
250 (10)	273.0	276.5	355	29	405	22	M20	12
300 (10)	323.9	327.5	400	26	445	22	M20	12
350 (10)	355.6	359.0	460	30	505	22	M20	16
400 (10)	406.4	411.0	515	32	565	26	M24	16
450 (10)	457.2	462.0	565	36	615	26	M24	20
500 (10)	508.0	513.5	620	38	670	26	M24	20

N.B. per tutti i DN non riportati in tabella, utilizzare flange EN PN 16.

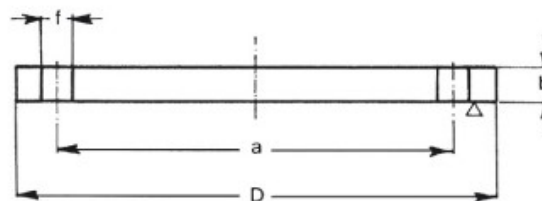
DN / PN	Ø tubo	d1	a	b	D	f	VITI	n°fori
10 (16/40)	17.2	18.0	60	14	90	14	M12	4
15 (16/40)	21.3	22.0	65	14	95	14	M12	4
20 (16/40)	26.9	27.5	75	16	105	14	M12	4
25 (16/40)	33.7	34.5	85	16	115	14	M12	4
32 (16/40)	42.4	43.5	100	18	140	18	M16	4
40 (16/40)	48.3	49.5	110	18	150	18	M16	4
50 (16)	60.3	61.5	125	20	165	18	M16	4
65 (16)	76.1	77.5	145	20	185	18	M16	8#
80 (16)	88.9	90.5	160	20	200	18	M16	8
100 (16)	114.3	116.0	180	22	220	18	M16	8
125 (16)	139.7	141.5	210	22	250	18	M16	8
150 (16)	168.3	170.5	240	24	285	22	M20	8
200 (16)	219.1	221.5	295	26	340	22	M20	12
250 (16)	273.0	276.5	355	29	405	26	M24	12
300 (16)	323.9	327.5	410	32	460	26	M24	12
350 (16)	355.6	359.0	470	35	520	26	M24	16
400 (16)	406.4	411.0	525	38	580	30	M27	16
450 (16)	457.2	462.0	585	42	640	30	M27	20
500 (16)	508.0	513.5	650	46	715	33	M30	20

In accordo con la normativa EN 1092-1, le flange con questo DN e PN possono essere fornite con 4 fori.
Da definire in fase d'ordine se 4 o 8 fori.

Flange piane A105 EN1092-1-01

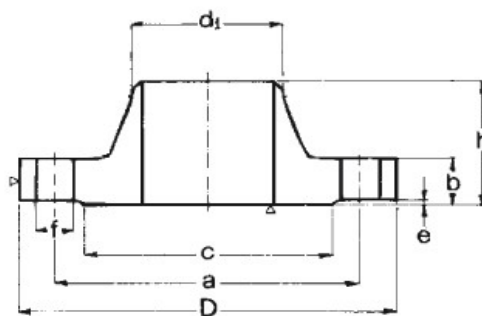


Flange cieche A105 EN1092-1-05



DN / PN	Ø tubo	d1	a	b	D	f	VITI	n°fori
50 (25/40)	60.3	61.5	125	20	165	18	M16	4
65 (25)	76.1	77.5	145	20	185	18	M16	8
80 (25)	88.9	90.5	160	20	200	18	M16	8
100 (25)	114.3	116.0	180	22	220	18	M16	8
125 (25)	139.7	141.5	210	22	250	18	M16	8
150 (25)	168.3	170.5	240	24	285	22	M20	8
200 (25)	219.1	221.5	295	26	340	22	M20	12
250 (25)	273.0	276.5	355	29	405	26	M24	12
300 (25)	323.9	327.5	410	32	460	26	M24	12
350 (25)	355.6	359.0	470	35	520	26	M24	16
400 (25)	406.4	411.0	525	38	580	30	M27	16
450 (25)	457.2	462.0	585	42	640	30	M27	20
500 (25)	508.0	513.5	650	46	715	33	M30	20
DN / PN	Ø tubo	d1	a	b	D	f	VITI	n°fori
65 (40)	76.1	77.5	145	22	185	18	M16	8
80 (40)	88.9	90.5	160	24	200	18	M16	8
100 (40)	114.3	116.0	190	26	235	22	M20	8
125 (40)	139.7	141.5	220	28	270	26	M24	8
150 (40)	168.3	170.5	250	30	300	26	M24	8
200 (40)	219.1	221.5	320	36	375	30	M27	12
250 (40)	273.0	276.5	385	42	450	33	M30	12
300 (40)	323.9	327.5	450	52	515	33	M30	16
350 (40)	355.6	359.0	510	58	580	36	M33	16
400 (40)	406.4	411.0	585	65	660	39	M36	16
450 (40)	457.2	462.0	610	/	685	39	M36	20
500 (40)	508.0	513.5	670	/	755	42	M39	20

Flange a collarino A105 EN1092-1-11



DN / PN	d1 Ø tubo	a	b	c	D	e	f	h	VITI	n°fori
15 (16/40)	21.3	65	16	45	95	2	14	38	M12	4
20 (16/40)	26.9	75	18	58	105	2	14	40	M12	4
25 (16/40)	33.7	85	18	68	115	2	14	40	M12	4
32 (16/40)	42.4	100	18	78	140	2	18	42	M16	4
40 (16/40)	48.3	110	18	88	150	3	18	45	M16	4
50 (16)	60.3	125	18	102	165	3	18	45	M16	4
65 (16)	76.1	145	18	122	185	3	18	45	M16	8#
80 (16)	88.9	160	20	138	200	3	18	50	M16	8
100 (16)	114.3	180	20	158	220	3	18	52	M16	8
125 (16)	139.7	210	22	188	250	3	18	55	M16	8
150 (16)	168.3	240	22	212	285	3	22	55	M20	8
200 (16)	219.1	295	24	268	340	3	22	62	M20	12
250 (16)	273.0	355	26	320	405	3	26	70	M24	12
300 (16)	323.9	410	28	378	460	4	26	78	M24	12
350 (16)	355.6	470	30	438	520	4	26	82	M24	16
400 (16)	406.4	525	32	490	580	4	30	85	M27	16
450 (16)	457.2	585	34	550	640	4	30	83	M27	20
500 (16)	508.0	650	36	610	715	4	33	84	M30	20

In accordo con la normativa EN 1092-1, le flange con questo DN e PN possono essere fornite con 4 fori.

DN / PN	d1 Ø tubo	a	b	c	D	e	f	h	VITI	n°fori
50 (25/40)	60.3	125	20	102	165	3	18	48	M16	4
65 (25/40)	76.1	145	22	122	185	3	18	52	M16	8
80 (25/40)	88.9	160	24	138	200	3	18	58	M16	8
100 (25)	114.3	180	24	162	235	3	22	65	M20	8
125 (25)	139.7	210	26	188	270	3	26	68	M24	8
150 (25)	168.3	240	28	218	300	3	26	75	M24	8
200 (25)	219.1	295	30	278	360	3	26	80	M24	12
250 (25)	273.0	355	32	335	425	3	30	88	M27	12
300 (25)	323.9	410	34	395	485	4	30	92	M27	16
350 (25)	355.6	470	38	450	555	4	33	100	M30	16
400 (25)	406.4	525	40	505	620	4	36	110	M33	16
450 (25)	457.2	585	46	555	670	4	36	110	M33	20
500 (25)	508.0	650	48	615	730	4	36	125	M33	20
DN / PN	d1 Ø tubo	a	b	c	D	e	f	h	VITI	n°fori
100 (40)	114.3	190	24	162	235	3	22	65	M20	8
125 (40)	139.7	220	26	188	270	3	26	68	M24	8
150 (40)	168.3	250	28	218	300	3	26	75	M24	8
200 (40)	219.1	320	34	285	375	3	30	80	M27	12
250 (40)	273.0	385	38	345	450	3	33	88	M30	12
300 (40)	323.9	450	42	410	515	4	33	92	M30	16
350 (40)	355.6	510	46	465	580	4	36	100	M33	16
400 (40)	406.4	585	50	535	660	4	39	110	M36	16
450 (40)	457.2	610	57	560	685	4	39	110	M36	20
500 (40)	508.0	670	57	615	755	4	42	125	M39	20

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