

***TUBURI FLESSIBILE
METALICE***

RV-INOX

The logo for Valfluid features a stylized orange and yellow flame-like shape above the word "Valfluid" in a bold, blue, sans-serif font. A small red square is positioned above the letter 'i' in "fluid".

Valfluid



Tuburi flexibile metalice si compensatori dilatatie

TUBURI FLEXIBILE METALICE RV-INOX

GENERALITATI

Tuburile flexibile metalice **RV-INOX** cu ondulatii paralele, fara garnituri,garanteaza o inchidere perfecta, cu o mare flexibilitate asigurata de deformarea peretelui ondulat. In functie de conditiile de functionare, sunt echipate cu una sau mai multe impletituri exterioare pentru cresterea presiunii de lucru .

Tuburile sunt fabricate din lamele foarte subtiri sudate cap-cap sau suprapus.

FACTOR CORECTIE

In cazul in care un tub metalic flexibil lucreaza la temperaturi de peste 20°C,trebuie sa utilizati factorul de corectie pentru determinarea noii presiuni maxime . Factorul de corectie trebuie sa fie inmultit cu presiunea de lucru indicata in datele tehnice ale tubului ales, astfel valorile obtinute ar trebui sa fie mai mari decit presiunea la care tubul va fi supus.

Factor corectie

Temperatura		Coeficientul de corectie in functie de temperatura			
°C	° F	304	321	316ti	316 L
20	68	1.00	1.00	1.00	1.00
50	122	0.92	0.92	0.94	0.89
100	212	0.83	0.86	0.87	0.80
150	302	0.75	0.83	0.84	0.75
200	392	0.68	0.79	0.80	0.69
250	482	0.63	0.74	0.75	0.65
300	572	0.59	0.71	0.72	0.62
350	662	0.56	0.68	0.69	0.60
400	752	0.54	0.67	0.68	0.58
450	842	0.53	0.66	0.67	0.56
500	932	0.52	0.65	0.66	0.55
550	1022	0.52	0.56	0.58	0.47

TESTE

Toate tuburile sunt supuse unor teste dimensionale si functionale pentru a intruni caracteristicile cerute,sunt supuse unui test de presiune de 1,5 ori mai mare decit presiunea maxima de lucru. Durata de testare este determinata in baza anumitor norme sau cereri.

MATERIALE

Tuburi flexibile din otel inoxidabil austenitic

AISI 321

ISO 683/13 Tipo 15 ASTM A 240 Type 321
DIN WN 1.4541

AISI 316 Ti

ISO 683/13 Tipo 21 DIN WN 1.4571

AISI 316 L

ISO 683/13 Tipo 19 ASTM A 240 Type 316 L
DIN WN 1.4435

Impletitura metalica din otel inoxidabil austenitic

AISI 304

ISO 683/13 Tipo 11 ASTM A580 Type 304
DIN WN 1.4571

La cerere

AISI 316 Ti

ISO 683/13 Tipo 21
DIN WN 1.4571

PRESIUNE DE SPARGERE

Presiunea de spargere este de 4 ori mai mare decit presiunea de lucru

RAZA DE CURBURA

Raza la care un tub poate fi montat este in directa legatura cu diametrul tubului. Valoarea razei de curbura este raportata la temperatura mediului fara presiune.

RAZA DE INDOIRE

Raza la care tubul, prin caracteristicile lui de flexibilitate,ramane indoit chiar fara interventie externa. Valoarea razei de indoire este legata de temperatura mediului, fara presiune, si este considerata a fi statica.

VITEZA LICHIDULUI

Pentru a evita efectul de rezonanta,cauza unor posibile spargerii,viteza lichidului transportat nu trebuie sa depaseasca 40 m/sec.

TEMPERATURA

De la -270°C la +600°C

PRESIUNE

Presiunea de lucru "PL" indicata in tabelele din acest catalog ,este "PL" maxima la temperatura mediului.

RACORDURI

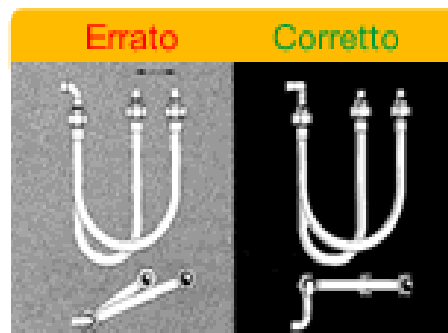
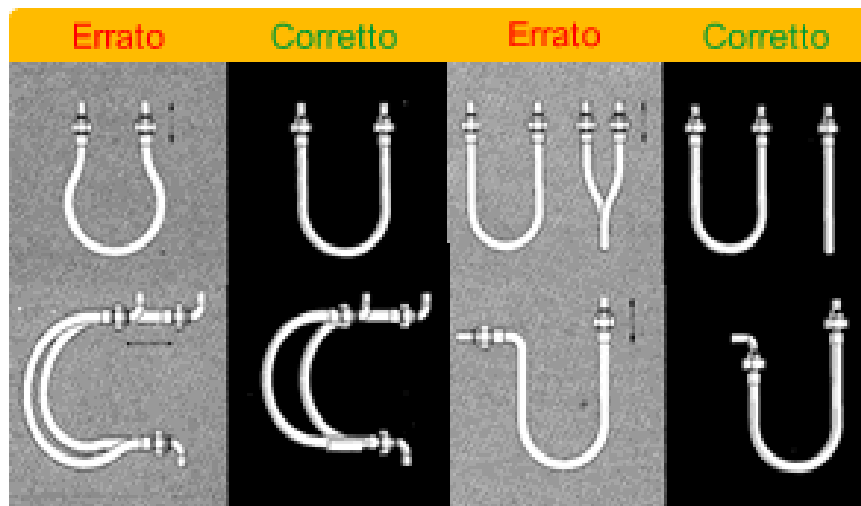
De orice tip si material (UNI, ANSI, etc.),sudate cu aliaj de argint sau electrosudate (Tig).

TUBURI FLEXIBILE METALICE RV-INOX

MONTARE

Pentru o corecta instalare a tuburilor flexibile trebuie sa se urmeze niste reguli de baza:

- Nu indoiti tuburile flexibile dincolo de raza de curbura admisa
- Asigurativa ca in faza de montaj, si in fazele de lucru, tuburile flexibile nu sunt supuse unor forte si/sau miscari de torsiune, ca sunt protejate de lovituri si alte situatii in care ar putea fi deteriorate;
- Asigurativa ca presiunea si temperatura de lucru sunt in intervalul recomandat;
- Asigurativa de strangerea corecta a racordurilor pentru a preveni eventualele scurgeri sau pierderi.



TUBURI FLEXIBILE METALICE RV-INOX

Tabelul de dilatare termica

Aliaj din otel		Oteluri inoxidabile austenitice	
Temperatura	Coef. de dilatare	Temperatura	Coef. de dilatare
C°	mm/m	C°	mm/m
-200	-2,05	-200	-3,29
-175	-1,86	-175	-2,96
-150	-1,66	-150	-2,61
-125	-1,45	-125	-2,26
-100	-1,23	-100	-1,89
-75	-0,993	-75	-1,52
-50	-0,747	-50	-1,13
-25	-0,489	-25	-0,736
0	-0,221	0	-0,330
25	0,055	25	0,083
50	0,342	50	0,503
75	0,639	75	0,931
100	0,946	100	1,36
125	1,26	125	1,80
150	1,58	150	2,24
175	1,91	175	2,69
200	2,25	200	3,14
225	2,60	225	3,59
250	2,95	250	4,05
275	3,32	275	4,51
300	3,69	300	4,98
325	4,07	325	5,45
350	4,46	350	5,92
375	4,86	375	6,40
400	5,26	400	6,90
425	5,68	425	7,39
450	6,10	450	7,89
475	6,52	475	8,38
500	6,94	500	8,89
525	7,35	525	9,41
550	7,77	550	9,92
575	8,20	575	10,4
600	8,63	600	10,9
625	9,03	625	11,5
650	9,43	650	12
675	9,86	675	12,5
700	10,3	700	13
725	10,7	725	13,5
750	11,1	750	14

TUBURI FLEXIBILE METALICE RV-INOX

RACORDURI

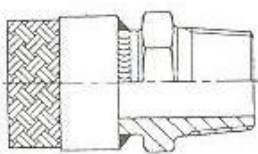
Tuburile flexibile metalice sunt furnizate in mod normal cu racorduri, care ar trebui sa fie selectate avand in vedere:

1. Metoda de conectare compatibila intre tubul flexibil si racord, in functie de temperatura;
2. Materialul racordului;
3. Tipul de racord.

Temperatura maxima de utilizare:

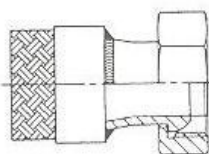
- Lipire cu aliaj de argint: 300 °C - sudura electrica TIG: 600 °C
- Racorduri din otel carbon: 400 °C – racorduri din otel inox: 600 °C – racorduri din bronz: 400 °C

Racord fix filet exterior



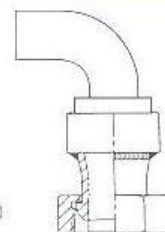
Misure DN
da 6 a 50 (100)

Racord olandez baza conica



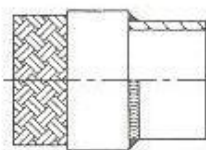
Misure DN
da 6 a 50 (100)

Racord olandez 90° baza conica



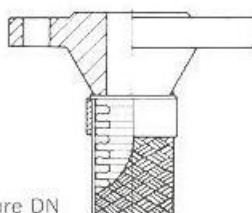
Misure DN
da 6 a 50 (100)

Niplu pentru sudura



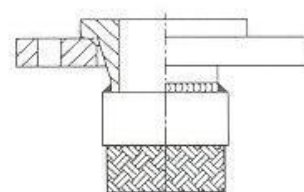
Misure DN
da 6 a 200

Flansa fixa UNI/ASA



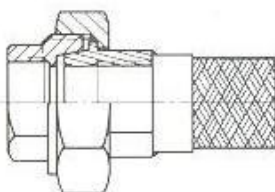
Misure DN
da 10 a 200

Flansa rotativa UNI/ASA



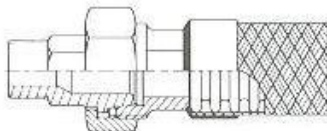
Misure DN
da 10 a 200

Olandez filet interior



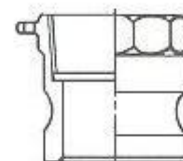
Misure DN da 6 a 80

Olandez filet exterior



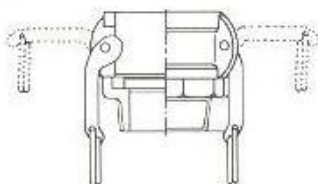
Misure DN da 6 a 80

Cupla camlock tip "A"



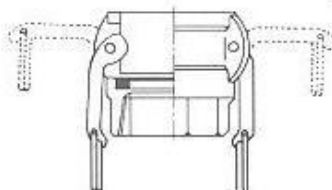
Misure DN da 10 a 150

Cupla camlock tip "B"



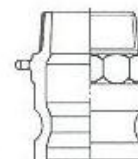
Misure DN da 10 a 150

Cupla camlock tip "D"



Misure DN da 10 a 150

Cupla camlock tip "F"



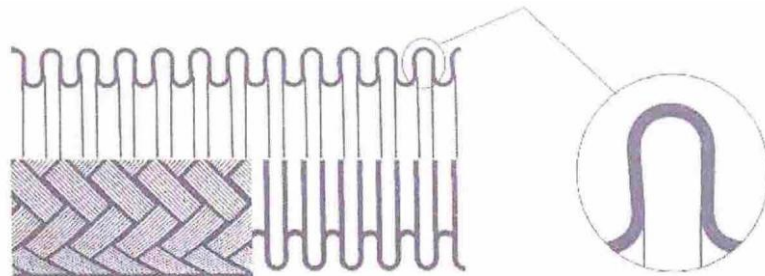
Misure DN da 10 a 150

TUBURI FLEXIBILE METALICE RV-INOX

RV100 : Tub perete simplu joasa presiune

RV100: fara impletitura metalica

RV100B: o impletitura metalica



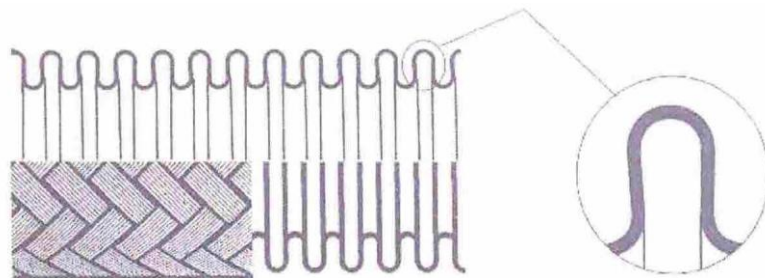
Diametru interior		Numar impletituri	Diametru exterior mm	Presiune BAR/g		Raza minima de curbura mm	
Toli	mm			Max lucru	Spargere	Static	Dinamic
1/4"	6	0	9.7	18	96	15	80
		1	10.8	150	500	25	
3/8"	10	0	14.3	9	48	18	130
		1	15.7	100	102	40	
1/2"	12	0	16.8	7	36	20	140
		1	18.2	70	292	45	
5/8"	16	0	21.7	5	28	28	160
		1	23.3	64	276	60	
3/4"	20	0	26.7	3	24	32	170
		1	28.3	43	172	70	
1"	25	0	32.2	2,5	12	40	190
		1	34.2	49	220	85	
1.1/4"	32	0	41	2	10	41	260
		1	43	35	160	43	
1.1/2"	40	0	49.7	2	10	60	300
		1	52	38	152	130	
2"	50	0	60.3	1	6.4	70	320
		1	62.6	26	104	160	
2.1/2"	65	0	80	1	4	90	400
		1	83.2	24	96	200	
3"	80	0	98	1	4	110	700
		1	101.2	22	88	240	
4"	100	0	118	0.8	3.2	130	750
		1	121.2	19	76	290	
5"	125	0	145	0.6	2.4	500	1000
		1	148.2	16	64	500	
6"	150	0	171	0.5	2	700	1300
		1	174.8	12.5	50	700	
8"	200	0	227	0.25	1	860	1350
		1	232	10.5	42	860	

Presiunile indicate in tabel se refera la o temperatura de 20°C

TUBURI FLEXIBILE METALICE RV-INOX

RVSH : Tub perete simplu inalta presiune

RVSH1: o impletitura metalica
RVSH2: doua impletituri metalice



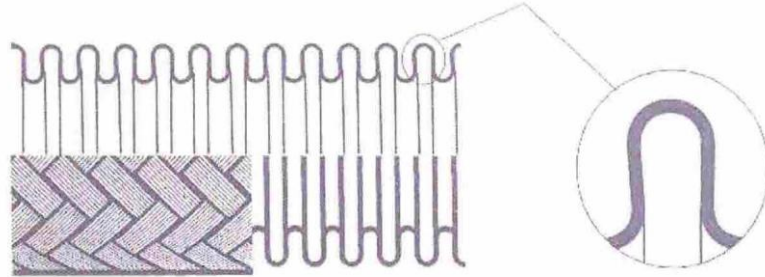
Diametru interior		Numar impletituri	Diametru exterior mm	Presiune BAR/g		Raza minima de curbura mm	
Toli	mm			Max lucru	Spargere	Static	Dinamic
1/4"	6	1	11.6	260	1040	25	140
		2	13	300	1200	40	180
3/8"	10	1	17.5	170	680	38	220
		2	19.1	250	1000	60	260
1/2"	12	1	20.3	125	500	45	250
		2	21.9	250	1000	70	300
5/8"	16	1	25.8	145	580	58	300
		2	27.8	225	900	90	360
3/4"	20	1	31.2	97	390	70	280
		2	33.2	145	580		
1"	25	1	36.2	62	250	85	320
		2	38.2	100	400		
1.1/4"	32	1	45	65	260	105	380
		2	47.2	78	310		
1.1/2"	40	1	57.3	38	150	130	420
		2	58.2	72	290		
2"	50	1	68.2	55	220	160	490
		2	71.3	77	310		
2.1/2"	65	1	84.2	31	125	200	590
		2	87.3	36	145		
3"	80	1	101.5	30	120	240	700
		2	104.6	51	200		
4"	100	1	121	29	120	290	900
		2	124.1	47	190		
5"	125	1	149.2	17	70	600	1200
		2	152.4	33	130		

Presiunile indicate in tabel se refera la o temperatura de 20°C

TUBURI FLEXIBILE METALICE RV-INOX

RVPL : Tub perete dublu joasa presiune

RVPL1: o impletitura metalica
RVPL2: doua impletituri metalice



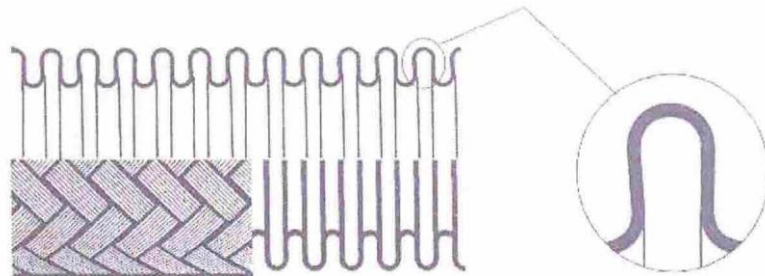
Diametru interior		Numar impletituri	Diametru exterior mm	Presiune BAR/g		Raza minima de curbura mm	
Toli	mm			Max lucru	Spargere	Static	Dinamic
3/4"	20	1	29	64	256	30	180
		2	31	100	400		
1"	25	1	35	60	240	40	210
		2	37	100	400		
1.1/4"	32	1	44	50	200	50	240
		2	46	83	332		
1.1/2"	40	1	54	43	172	60	280
		2	56	52	208		
2"	50	1	66	40	160	70	320
		2	70	50	200		
2.1/2"	65	1	84	27	108	78	360
		2	87	38	152		
3"	80	1	101	26	104	100	420
		2	104	35	140		
4"	100	1	123	20	80	120	500
		2	126	31	124		
5"	125	1	151	16	64	150	580
		2	156	30	120		
6"	150	1	178	13	52	200	700
		2	182	25	100		
8"	200	1	233	10	40	270	850
		2	238	20	80		

Presiunile indicate in tabel se refera la o temperatura de 20°C

TUBURI FLEXIBILE METALICE RV-INOX

RVPH : Tub perete dublu inalta presiune

RVPH1: o impletitura metalica
RVPH2: doua impletituri metalice



Diametru interior		Numar impletituri	Diametru exterior mm	Presiune BAR/g		Raza minima de curbura mm	
Toli	mm			Max lucru	Spargere	Static	Dinamic
3/4"	20	1	29	83	332	50	200
		2	31	130	520		
1"	25	1	35	78	312	60	230
		2	37	130	520		
1.1/4"	32	1	44	65	260	70	260
		2	46	108	432		
1.1/2"	40	1	54	56	224	80	300
		2	56	68	272		
2"	50	1	66	52	208	90	340
		2	70	65	260		
2.1/2"	65	1	84	35	140	100	380
		2	87	50	200		
3"	80	1	101	34	136	120	440
		2	104	45	180		
4"	100	1	123	26	104	140	520
		2	126	40	160		
5"	125	1	151	20	80	170	600
		2	156	39	156		
6"	150	1	178	16	64	230	740
		2	182	32	128		
8"	200	1	233	13	52	300	880
		2	238	26	104		

Presiunile indicate in tabel se refera la o temperatura de 20°C

TUBURI FLEXIBILE METALICE RV-INOX

TABELUL DE REZISTENTA LA COROZIUNE

□ = Rezistent 0 = Rezistenta limitata Δ = Fara rezistenta	B R O N Z	M O N E L	O T E L	A I S I 3 2 1	A I S I 3 1 6
Acetat de amil	□	□	□	□	□
Acetat de etil	□	□	0	□	□
Acetilena	Δ	□	□	□	□
Otet	0	0	Δ	□	□
Acetona	□	□	Δ	□	□
Acid acetic	Δ	0	Δ	□	□
Acid benzoic	□	□	□	□	□
Acid boric	0	□	Δ	□	□
Acid Butiric	0	□	Δ	□	□
Acid cianhidric	Δ	0	Δ	□	□
Acid citric	0	□	Δ	0	□
Acid cloridric	0	□	Δ	Δ	Δ
Acid cromic	Δ	0	Δ	Δ	0
Acid fluorhidric	Δ	0	Δ	Δ	Δ
Acid fluor-silicic	0	0	Δ	Δ	Δ
Acid formic	0	□	Δ	0	□
Acid fosforic	Δ	0	Δ	Δ	0
Acid idric	Δ	0	Δ	Δ	Δ
Acid lactic	0	0	Δ	0	□
Acid azotic	Δ	Δ	Δ	□	□
Acid oleic	0	□	Δ	0	□
Acid osilic	0	0	Δ	Δ	0
Acid palmitic	0	□	Δ	□	□
Acid propanoic	0	□	Δ	□	□
Acid prusic	Δ	0	Δ	□	□
Acid sulfuric 95-100 %	0	0	Δ	□	□
Acid sulfuric 80-95 %	0	0	Δ	0	0
Acid sulfuric 40-80 %	Δ	0	Δ	Δ	Δ
Acid sulfuric 40 %	Δ	0	Δ	Δ	Δ
Acid sulfuric	0	0	Δ	Δ	0
Acid stearic	0	□	Δ	0	□
Acid taninos	□	□	Δ	□	□
Acid tartaric	□	□	Δ	0	□
Apa	□	□	Δ	□	□
Apa canalizare	□	□	Δ	□	□
Apa de mare	□	□	Δ	Δ	Δ
Apa dulce	Δ	0	□	□	□
Apa cu sapun	□	□	0	□	□

TUBURI FLEXIBILE METALICE RV-INOX

TABELUL DE REZISTENTA LA COROZIUNE

□ = Rezistent 0 = Rezistentă limitată Δ = Fără rezistență	B R O N Z	M O N E L	O T E L	A I S I 3 2 1	A I S I 3 1 6
Apa oxigenată	0	0	Δ	□	□
Apa potabilă	□	□	Δ	□	□
Alcool	□	□	□	□	□
Alcool amilic	□	□	□	□	□
Alcool butilic	□	□	□	□	□
Alcool etilic	□	□	□	□	□
Alcool metilic	□	□	□	□	□
Allume	0	□	Δ	0	□
Amoniac uscat	□	□	□	□	□
Amoniac umed	Δ	0	Δ	□	□
Anhidridă acetică	0	□	Δ	□	□
Dioxid de carbon uscat	□	□	□	□	□
Dioxid de carbon umed	0	□	Δ	□	□
Sulf	□	□	Δ	□	□
Dioxid de sulf uscat	□	□	Δ	□	□
Dioxid de sulf uscat	0	0	Δ	0	□
Anilina	Δ	□	0	□	□
Asfalt	□	□	□	□	□
Azot	□	□	□	□	□
Benzen	□	□	□	□	□
Benzină	□	□	0	□	□
Benzol	□	□	□	□	□
Bauturi carbogazoase	0	□	Δ	□	□
Bicarbonat de sodiu	0	□	Δ	□	□
Bere	□	□	Δ	□	□
Bisulfat de sodiu	0	□	Δ	0	□
Bisulfid de calciu	□	□	0	□	□
Bisulfid de sodiu	0	□	Δ	□	□
Borax	□	□	0	□	□
Brom uscat	□	□	Δ	Δ	Δ
Brom umed	Δ	0	Δ	Δ	Δ
Butan	□	□	□	□	□
Butanol	□	□	□	□	□
Cafea	□	□	Δ	□	□
Var	□	□	0	□	□
Carbonat de bariu	□	□	0	□	□
Carbonat de potasiu	0	□	0	□	□
Carbonat de sodiu	0	□	0	□	□

TUBURI FLEXIBILE METALICE RV-INOX

TABELUL DE REZISTENTA LA COROZIUNE

□ = Rezistent 0 = Rezistenta limitata Δ = Fara rezistenta	B R O N Z	M O N E L	O T E L	A I S I 3 2 1	A I S I 3 1 6
Tar	□	□	0	□	□
Tar terebentina	□	□	Δ	□	□
Cianura	Δ	0	Δ	□	□
Cianura de potasiu	Δ	□	0	□	□
Cianura de sodiu	Δ	□	0	□	□
Clor uscat	□	□	0	Δ	0
Clor umed	Δ	Δ	Δ	Δ	Δ
Cloroform uscat	□	□	□	□	□
Clorura de amoniu	Δ	□	Δ	Δ	0
Clorura de aluminiu	0	□	Δ	Δ	Δ
Clorura de bariu	0	□	Δ	0	□
Clorura de calciu umed	0	0	Δ	Δ	Δ
Clorura de calciu	0	□	Δ	Δ	Δ
Clorura de etil	0	□	Δ	0	0
Clorura de magneziu	0	□	Δ	Δ	0
Clorura de metil uscat	□	□	Δ	□	□
Clorura de potasiu	0	□	Δ	Δ	0
Clorura de cupru	Δ	0	Δ	Δ	Δ
Clorura de sodiu	0	□	Δ	Δ	Δ
Clorura de sulf uscat	□	□	Δ	Δ	Δ
Clorura de fier	Δ	0	Δ	Δ	Δ
Clorura feroasa	0	0	Δ	Δ	Δ
Cromat de potasiu	□	□	Δ	□	□
Cromat de sodiu	□	□	0	□	□
Dextroza	□	□	□	□	□
Dicromat de potasiu	Δ	□	Δ	□	□
Dicromat de sodiu	Δ	0	Δ	□	□
Etanol	□	□	□	□	□
Eter	□	□	0	□	□
Fenol	0	□	Δ	□	□
Formaldehida	□	□	□	0	0
Fosfat de sodiu	0	□	Δ	□	□
Freon	□	□	□	□	□
Furfurol	□	□	0	□	□
Gas natural	□	□	□	□	□
Gelatina	□	□	Δ	□	□
Glicerina	□	□	0	□	□
Glicol	□	□	□	□	□

TUBURI FLEXIBILE METALICE RV-INOX

TABELUL DE REZISTENTA LA COROZIUNE

□ = Resistent 0 = Rezistenta limitata Δ = Fara rezistenta	B R O N Z	M O N E L	O T E L	A I S I 3 2 1	A I S I 3 1 6
Cauciuc natural	0	□	Δ	0	□
Glucaza	□	□	□	□	□
Hidrocarburi	□	□	□	□	□
Hidrogen sulfurat uscat	□	□	0	□	□
Hidrogen sulfurat umed	Δ	0	Δ	0	□
Hidroxid de aluminiu	□	□	0	□	□
Hidroxid de amoniu	Δ	□	0	□	□
Hidroxid de bariu	□	□	0	□	□
Hidroxid de calciu	□	□	Δ	□	□
Hidroxid de magneziu	□	□	□	□	□
Hidroxid de potasiu	0	□	0	0	0
Hidroxid de sodiu	0	□	0	0	0
Hipoclorit de calciu	0	0	Δ	Δ	Δ
Hipoclorit de sodiu	Δ	0	Δ	Δ	Δ
Kerosen	□	□	0	□	□
Lapte	□	□	0	Δ	□
Mercur	Δ	0	0	□	□
Metanol (formaldeide)	□	□	□	0	0
Metanol (alcool metilic)	□	□	0	□	□
Monocloroetanol	0	□	Δ	0	0
Nitrat de amoniu	Δ	□	Δ	□	□
Nitrat de cupru	Δ	0	Δ	□	□
Nitrat de sodiu	0	□	0	□	□
Pacura	0	□	Δ	□	□
Motorina	0	□	Δ	□	□
Ulei de porumb	□	□	0	□	□
Ulei de ricin	□	□	□	□	□
Ulei din seminte de bumbac	□	□	□	□	□
Titei	0	□	Δ	Δ	0
Oxid de aluminiu	□	□	□	□	□
Oxigen	□	□	Δ	□	□
Parafina	□	□	0	□	□
Pentanol	□	□	□	□	□
Ulei	□	□	0	□	□
Cloroza de var	0	0	Δ	Δ	Δ
Propan	□	□	□	□	□
Reziduri fecale	□	□	0	□	□
Saramura	□	□	Δ	Δ	Δ

TUBURI FLEXIBILE METALICE RV-INOX

TABELUL DE REZISTENTA LA COROZIUNE

□ = Resistent 0 = Rezistenta limitata Δ = Fara rezistenta	B R O N Z	M O N E L	O T E L	A I S I 3 2 1	A I S I 3 1 6
Sare alba	0	□	Δ	0	□
Saruri de argint	Δ	□	Δ	Δ	Δ
Saruri de mercur	Δ	0	Δ	Δ	Δ
Sirop din trestie de zahar	□	□	□	□	□
Sirop de zahar	□	□	0	□	□
Cidru	□	□	Δ	□	□
Silicat de sodiu	□	□	0	□	□
Soda caustica	0	□	0	0	0
Sulfat de aluminiu	Δ	□	Δ	0	□
Sulfat de amoniu	Δ	□	Δ	0	□
Sulfat de bariu	□	□	□	□	□
Sulfat de magneziu	□	□	0	0	□
Sulfat de potasiu	□	□	0	0	□
Sulfat de cupru	0	□	Δ	□	□
Sulfat de sodiu	□	□	0	0	□
Sulfat feric	Δ	□	Δ	0	□
Sulfat feros	0	□	Δ	0	□
Sulfit	Δ	□	Δ	0	0
Sulfit de bariu	Δ	0	Δ	□	□
Sulfit de sodiu	0	□	Δ	0	□
Sulfit de calciu	Δ	0	Δ	0	0
Sulfura de carbon	□	□	0	□	□
Sulfura de sodiu	Δ	□	Δ	0	□
Solutie clorura de sodiu	□	□	Δ	Δ	Δ
Solutie salina	□	□	Δ	Δ	Δ
Solutie de zahar	□	□	0	□	□
Solventi pentru vopsea	□	□	□	□	□
Sulfit de sodiu	Δ	□	Δ	□	□
Suc de fructe	0	□	Δ	□	□
Suc de struguri	□	□	□	□	□
Tanin	□	□	Δ	□	□
Tetraborat de sodiu	□	□	0	□	□
Tetraclorura de carbon	□	□	0	□	□
Tetraclorura de carbon umed	0	0	Δ	Δ	Δ

TUBURI FLEXIBILE METALICE RV-INOX

TABELLA DI RESISTENZA ALLA CORROSIONE

□ = Resistent 0 = Rezistenta limitata Δ = Fara rezistenta	B R O N Z O	M O N E L	A C C A L C.	A I S I 3 2 1	A I S I 3 1 6
Triclorometan uscat	□	□	Δ	□	□
Abur	□	□	Δ	□	□
Vopsele	□	□	□	□	□
Vopsele de ulei	□	□	0	□	□
Sulf topit	Δ	0	Δ	Δ	Δ
Sulf uscat	□	□	Δ	□	□

N.B.: Acest tabel este doar o sugestie de utilizare. Responsabilitatea pentru alegerea materialului ramane in sarcina cumparatorului.

TUBURI FLEXIBILE METALICE RV-INOX

COMPENSATORI

Este cunoscut ca toate corpurile sufera o crestere a dimensiunilor datorita caldurii, numita dilatatie. Cresterea este proportionala cu temperatura si depinde de natura materialului . In cazul in care acest fenomen fizic se aplica unor tevi la diverse intervale de temperatura apare deformarea plastica. Solutia la aceasta problema este data de utilizarea compensatorilor de dilatatie. Compensatorii de dilatatie, sunt elemente care trebuie introduse in treseul tevilor, pentru a prelua tensiunile aparute datorita schimbarilor de temperatura. Acestea sunt realizate din foi subtiri de otel inoxidabil cu suduri longitudinale, astfel incat sa nu creeze o crestere in grosime prin urmare o concentrare a efortului, este fub forma unui burduf care este executat la rece printr-un procedeu special hidro-mecanic, proces conceput pentru a nu modifica structura de rezistenta a materialului. Acestea sunt realizate din foi subtiri de otel inoxidabil tip burduf , la ele vin sudate flanse sau alte tipuri de cuplaje pentru a putea fi montate/sudate pe tevi.



De asemenea, acestea pot fi combinate intre ele si montate la sisteme pentru a satisface cele mai variate tipuri de compensare. In functie de tipul de miscare pot fi mai multe tipuri de compensatoare:

- Compensator Axial
- Compensator Unghiular
- Compensator Unghiular Sferic
- Compensator Articulat Sferic
- Compensator Pluridirectional

TUBURI FLEXIBILE METALICE RV-INOX

RACORDURI

De orice tip si material (UNI, ANSI, etc.). Sudare folosind metoda de electro-sudare (Tig).

TEMPERATURA

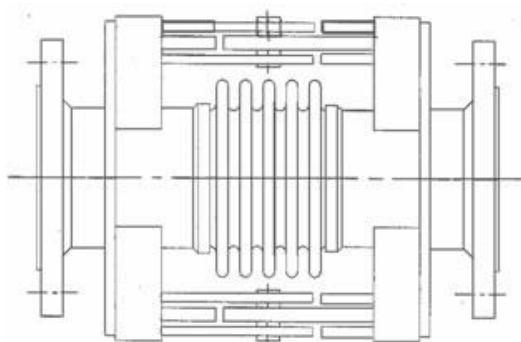
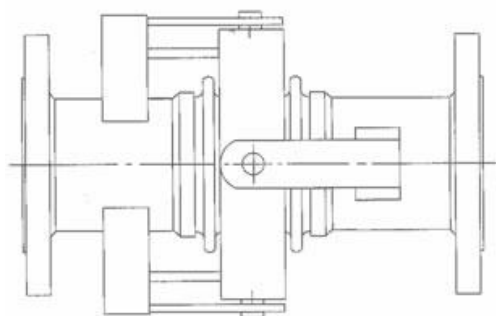
Otel inox AISI321 : - 250 / + 800 °C

Otel inox AISI316 : - 250 / + 800 °C

Otel carbon : - 150 / + 350 °C

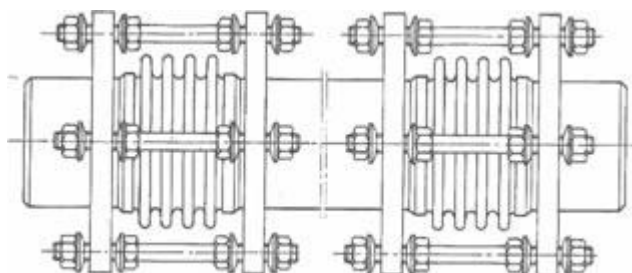
COMPENSATORI UNGHIULARI SI UNGHIULARI SFERICI

Permite o deviere unghiulara cit si spatiala, de asemenea compensarea miscarii mai multor tevi.



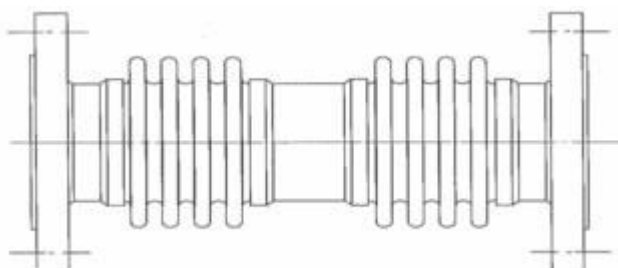
COMPENSATORI ARTICULATI SFERICI

Este format din doua burdufuri unite intre ele de o parte rigida, burdufurile sunt fixate cu tiranti care permit compensatorului o deformare laterala/spatiala (laterala sferica).

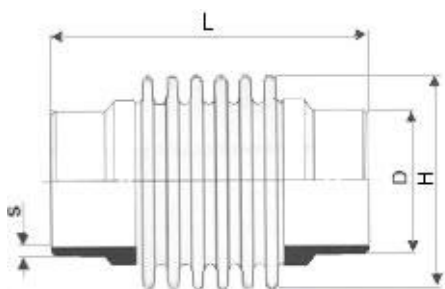


COMPENSATORI PLURIDIRECTIONALI

Consta din doua burdufuri unite intre ele de o parte rigida, care permite o deformare laterala/spatiala/axiala

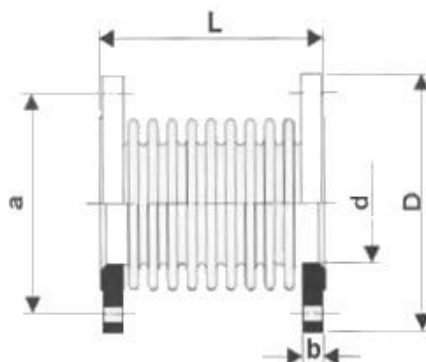


COMPENSATORI AXIALI (PN 6 - 10 - 16)



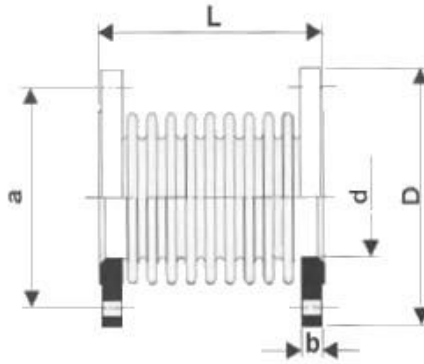
DN	Serie	Cursa axiale (mm)			Dimensiuni (mm)				Caratteristiche			
		+	-	tot	L	D	H	s	Rigiditatea axiale Kg/mm			Zona
									PN 6	PN 10	PN 16	
25	A	9	21	30	250	33.4	46	3.38	6	7	8	13
	B	12	33	45	290				4	5	5	
	C	15	45	60	330				3.5	3.8	4	
32	A	9	21	30	250	42.4	52	3.56	6.5	7	9	16.7
	B	12	33	45	290				5	6	6.3	
	C	15	45	60	330				4.5	5	5.6	
40	A	9	21	30	250	48.3	63	3.68	8	10	11	25.2
	B	12	33	45	290				5	6	7.2	
	C	15	45	60	330				4.5	4.5	4.6	
50	A	9	21	30	250	60.3	76	3.91	8	10	13	36.5
	B	12	33	45	290				4	6	7	
	C	15	45	60	330				3.5	4	4	
65	A	9	21	30	250	73	100	5.16	10	12	15	64
	B	12	33	45	290				5	6	8	
	C	15	45	60	330				4	4.2	4.7	
80	A	9	21	30	250	88.9	116	5.49	14	16	18	88
	B	12	33	45	290				7	10	11	
	C	15	45	60	330				5.6	8	9.3	
100	A	9	21	30	250	114.3	135	6.02	13	16	20	121.5
	B	12	33	45	290				9	11	14	
	C	15	45	60	330				7	10	11.2	
125	A	9	21	30	250	141.3	165	6.55	14	22	26	184
	B	12	33	45	290				11	18	20	
	C	15	45	60	330				9.8	12	16.3	
150	A	9	21	30	250	168.3	192	7.11	15	26	31	253
	B	12	33	45	290				11	18	23	
	C	15	45	60	330				9	14	16	
175	A	9	21	30	250	193.7	216	8.02	18	30	35	326
	B	12	33	45	290				10	20	24	
	C	15	45	60	330				8	17	18	
200	A	9	21	30	250	219.1	248	8.18	19	30	36	425
	B	12	33	45	290				11	22	27	
	C	15	45	60	330				7.5	17	21	
250	A	9	21	30	250	273	302	9.27	19	34	45	646
	B	12	33	45	290				13	28	30	
	C	15	45	60	330				9	18	22	
300	A	9	21	30	250	323.9	355	9.52	24	48	58	900
	B	12	33	45	290				16	28	36	
	C	15	45	60	330				13	20	21	
350	A	9	21	30	250	355.6	385	9.52	26	65	80	1070
	B	12	33	45	290				18	30	40	
	C	15	45	60	330				15	18	22	
400	A	9	21	30	250	406.4	435	9.52	38	70	85	1380
	B	12	33	45	290				25	32	40	
	C	15	45	60	330				20	25	34	
450	A	9	21	30	250	457.4	486	9.52	46	75	86	1730
	B	12	33	45	290				30	44	50	
	C	15	45	60	330				22	30	40	
500	A	9	21	30	250	508	540	9.52	44	82	95	2140
	B	12	33	45	290				36	58	70	
	C	15	45	60	330				30	46	60	
600	A	9	21	30	250	508	540	9.52	50	91	102	3040
	B	12	33	45	290				40	73	84	
	C	15	45	60	330				34	50	65	

COMPENSATORI AXIALI CU FLANSA (PN 6)



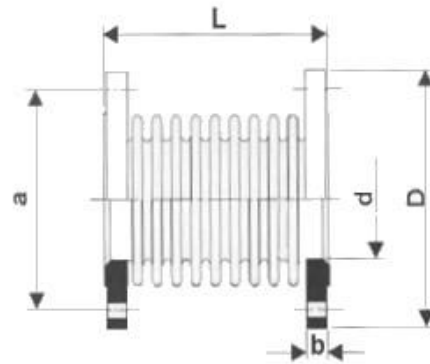
DN	Serie	Cursa axiale (mm)			Dimensiuni (mm)					Gauri		Caracteristice	
		+	-	Tot	L	D	d	b	a	N°	Ø mm	R Kg/mm	A
25	A	9	21	30	174	100	25	12	75	4	11	6	13
	B	12	33	45	214							4	
	C	15	45	60	254							3.5	
32	A	9	21	30	178	120	32	14	90	4	14	6.5	16.7
	B	12	33	45	218							5	
	C	15	45	60	258							4.5	
40	A	9	21	30	178	130	40	14	100	4	14	8	25.2
	B	12	33	45	218							5	
	C	15	45	60	258							4.5	
50	A	9	21	30	178	140	50	14	110	4	14	8	36.5
	B	12	33	45	218							4	
	C	15	45	60	258							3.5	
65	A	9	21	30	178	160	65	14	130	4	14	10	64
	B	12	33	45	218							5	
	C	15	45	60	258							4	
80	A	9	21	30	182	190	80	16	150	4	16	10	64
	B	12	33	45	222							5	
	C	15	45	60	262							4	
100	A	9	21	30	182	210	100	16	170	4	16	13	121.5
	B	12	33	45	222							9	
	C	15	45	60	262							7	
125	A	9	21	30	186	240	125	18	220	8	18	14	184
	B	12	33	45	226							11	
	C	15	45	60	266							9.8	
150	A	9	21	30	190	265	150	20	225	8	18	15	253
	B	12	33	45	230							11	
	C	15	45	60	270							9	
175	A	9	21	30	194	295	175	22	255	8	18	18	326
	B	12	33	45	234							10	
	C	15	45	60	274							8	
200	A	9	21	30	194	320	200	22	280	8	18	19	425
	B	12	33	45	234							11	
	C	15	45	60	274							7.5	
250	A	9	21	30	198	375	250	24	335	12	18	19	646
	B	12	33	45	238							13	
	C	15	45	60	278							9	
300	A	9	21	30	198	440	300	24	395	12	22	24	900
	B	12	33	45	238							16	
	C	15	45	60	278							13	
350	A	9	21	30	202	490	350	26	445	12	22	26	1070
	B	12	33	45	242							18	
	C	15	45	60	282							15	
400	A	9	21	30	206	540	400	28	495	16	22	38	1380
	B	12	33	45	248							25	
	C	15	45	60	288							20	
450	A	9	21	30	206	595	450	28	550	16	22	46	1730
	B	12	33	45	248							30	
	C	15	45	60	288							22	
500	A	9	21	30	210	645	500	30	600	20	22	48	2140
	B	12	33	45	252							36	
	C	15	45	60	292							30	
600	A	9	21	30	210	755	600	30	755	20	25	50	3040
	B	12	33	45	252							40	
	C	15	45	60	292							34	

COMPENSATORI AXIALI CU FLANSA (PN 10)



DN	Serie	Cursa axiale (mm)			Dimensiuni (mm)					Gauri		Caracteristice	
		+	-	Tot	L	D	d	b	a	N°	Ø mm	R Kg/mm	A
25	A	9	21	30	178	115	25	14	85	4	14	7	13
	B	12	33	45	218							5	
	C	15	45	60	258							3.8	
32	A	9	21	30	182	140	32	16	100	4	16	7	16.7
	B	12	33	45	222							6	
	C	15	45	60	262							5	
40	A	9	21	30	182	150	40	18	110	4	16	10	25.2
	B	12	33	45	222							6	
	C	15	45	60	262							4.5	
50	A	9	21	30	186	165	50	18	125	4	18	10	36.5
	B	12	33	45	226							6	
	C	15	45	60	266							4	
65	A	9	21	30	186	185	65	18	145	4	18	12	64
	B	12	33	45	226							6	
	C	15	45	60	266							4.2	
80	A	9	21	30	186	200	80	20	160	4	18	16	88
	B	12	33	45	226							10	
	C	15	45	60	266							8	
100	A	9	21	30	186	220	100	22	180	8	18	16	121.5
	B	12	33	45	226							11	
	C	15	45	60	266							10	
125	A	9	21	30	186	250	125	24	210	8	18	22	184
	B	12	33	45	226							18	
	C	15	45	60	266							12	
150	A	9	21	30	194	285	150	24	240	8	22	26	253
	B	12	33	45	234							18	
	C	15	45	60	274							14	
175	A	9	21	30	194	315	175	26	270	8	22	30	326
	B	12	33	45	234							20	
	C	15	45	60	274							17	
200	A	9	21	30	194	340	200	26	295	8	22	30	425
	B	12	33	45	234							22	
	C	15	45	60	274							17	
250	A	9	21	30	194	395	250	28	350	12	22	34	646
	B	12	33	45	234							28	
	C	15	45	60	274							18	
300	A	9	21	30	194	445	300	28	400	12	22	48	900
	B	12	33	45	234							28	
	C	15	45	60	274							20	
350	A	9	21	30	194	505	350	30	460	16	22	65	1070
	B	12	33	45	234							30	
	C	15	45	60	274							18	
400	A	9	21	30	190	565	400	32	515	16	25	70	1380
	B	12	33	45	240							32	
	C	15	45	60	280							25	
450	A	9	21	30	190	615	450	32	565	20	25	75	1730
	B	12	33	45	240							44	
	C	15	45	60	280							30	
500	A	9	21	30	190	670	500	34	620	20	25	82	2140
	B	12	33	45	240							58	
	C	15	45	60	280							46	
600	A	9	21	30	210	780	600	36	725	20	30	91	3040
	B	12	33	45	250							73	
	C	15	45	60	290							50	

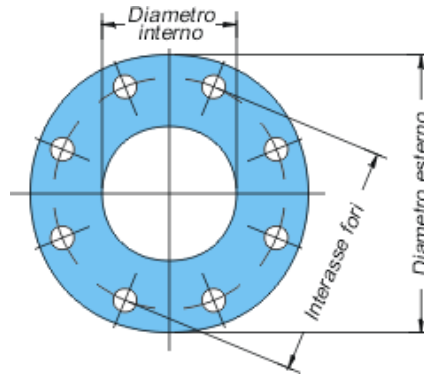
COMPENSATORI AXIALI CU FLANSA (PN 16)



DN	Serie	Cursa axiale (mm)			Dimensiuni (mm)					Gauri		Caracteristice	
		+	-	Tot	L	D	d	b	a	N°	Ø mm	R Kg/mm	A
25	A	9	21	30	178	115	25	14	85	4	14	8	13
	B	12	33	45	218							5	
	C	15	45	60	258							4	
32	A	9	21	30	182	140	32	16	100	4	16	9	16.7
	B	12	33	45	222							6.3	
	C	15	45	60	262							5.6	
40	A	9	21	30	182	150	40	18	110	4	16	11	25.2
	B	12	33	45	222							7.2	
	C	15	45	60	262							4.6	
50	A	9	21	30	186	165	50	18	125	4	18	13	36.5
	B	12	33	45	226							7	
	C	15	45	60	266							4	
65	A	9	21	30	186	185	65	18	145	4	18	15	64
	B	12	33	45	226							8	
	C	15	45	60	266							4.7	
80	A	9	21	30	186	200	80	20	160	4	18	18	88
	B	12	33	45	226							11	
	C	15	45	60	266							9.3	
100	A	9	21	30	186	220	100	22	180	8	18	20	121.5
	B	12	33	45	226							14	
	C	15	45	60	266							11.2	
125	A	9	21	30	186	250	125	24	210	8	18	26	184
	B	12	33	45	226							20	
	C	15	45	60	266							16.3	
150	A	9	21	30	194	285	150	24	240	8	22	31	253
	B	12	33	45	234							23	
	C	15	45	60	274							16	
175	A	9	21	30	194	315	175	26	270	8	22	35	326
	B	12	33	45	234							24	
	C	15	45	60	274							18	
200	A	9	21	30	194	340	200	26	295	8	22	36	425
	B	12	33	45	234							27	
	C	15	45	60	274							21	
250	A	9	21	30	200	405	250	32	355	12	25	45	646
	B	12	33	45	240							30	
	C	15	45	60	280							22	
300	A	9	21	30	200	460	300	32	410	12	25	58	900
	B	12	33	45	240							36	
	C	15	45	60	280							21	
350	A	9	21	30	200	520	350	36	470	16	25	80	1070
	B	12	33	45	240							40	
	C	15	45	60	280							22	
400	A	9	21	30	210	580	400	38	525	16	30	85	1380
	B	12	33	45	250							40	
	C	15	45	60	310							34	
450	A	9	21	30	210	640	450	40	585	20	30	86	1730
	B	12	33	45	250							50	
	C	15	45	60	310							40	
500	A	9	21	30	216	715	500	40	650	20	33	95	2140
	B	12	33	45	256							70	
	C	15	45	60	296							60	
600	A	9	21	30	222	840	600	44	770	20	36	102	3040
	B	12	33	45	262							84	
	C	15	45	60	302							65	

TUBURI FLEXIBILE METALICE RV-INOX

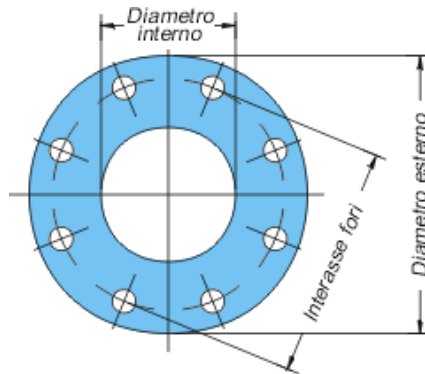
Flanse plane UNI EN 1092-1 PN 6 (ex UNI2276)



DN mm	Ø exterior mm	Ø interior mm	Grosime mm	Gauri			Greutate kg
				Interaxe mm	Diametru mm	Numar	
15	80	22,0	12	55	11	4	0,400
20	90	27,5	14	65	11	4	0,600
25	100	34,5	14	75	11	4	0,800
32	120	43,5	16	90	14	4	1,200
40	130	49,5	16	100	14	4	1,400
50	140	61,5	16	110	14	4	1,500
65	160	77,5	16	130	14	4	1,800
80	190	90,5	18	150	18	4	2,800
100	210	116,0	18	170	18	4	3,200
125	240	141,5	20	200	18	8	4,300
150	265	170,5	20	225	18	8	5,400
200	320	221,5	22	280	18	8	7,200
250	375	276,5	24	335	18	12	10,000
300	440	327,5	24	395	22	12	12,400
350	490	359,5	26	445	22	12	17,500
400	540	411,0	28	495	22	16	21,000
450	595	462,0	30	550	22	16	27,000
500	645	513,5	30	600	22	20	31,000
600	755	616,5	32	705	26	20	39,000
700	860	-	-	810	26	24	49,000
800	975	-	-	920	30	24	64,000
900	1.075	-	-	1.020	30	24	76,000
1.000	1.175	-	-	1.120	30	28	84,000

TUBURI FLEXIBILE METALICE RV-INOX

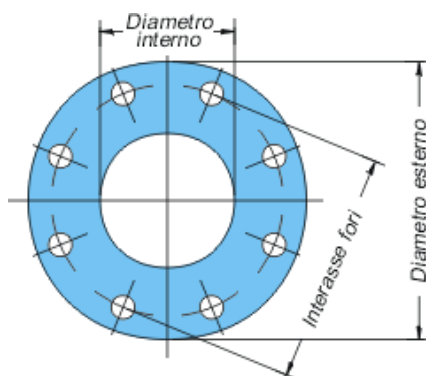
Flanse plane UNI EN 1092-1 PN 10 (ex UNI2277-67)



DN mm	Ø exterior mm	Ø interior mm	Grosime mm	Gauri			Greutate kg
				Interaxe mm	Diametru mm	Numar	
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	19	125	18	4	2,70
65	185	77,5	20	145	18	8	3,10
80	200	90,5	20	160	18	8	3,80
100	220	116,0	22	180	18	8	4,80
125	250	141,5	22	210	18	8	6,40
150	285	170,5	24	240	22	8	8,00
200	340	221,5	24	295	22	8	10,30
250	395	276,5	26	350	22	12	14,00
300	445	327,5	26	400	22	12	15,50
350	505	359,5	28	460	22	16	23,00
400	565	411,0	32	515	26	16	29,00
450	615	462,0	36	565	26	20	35,00
500	670	513,5	38	620	26	20	42,00
600	780	616,5	42	725	30	20	54,00
700	895	-	-	840	30	24	66,00
800	1.015	-	-	950	33	24	90,00
900	1.115	-	-	1.050	33	28	103,0
1.000	1.230	-	-	1.160	36	28	131,0

TUBURI FLEXIBILE METALICE RV-INOX

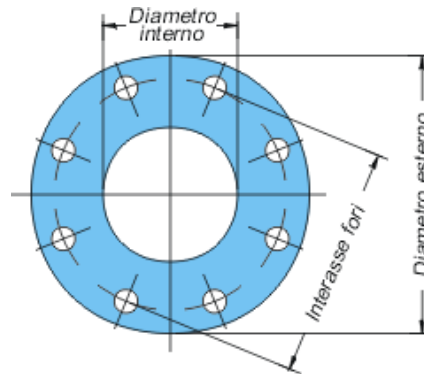
Flanse plane UNI EN 1092-1 PN 16 (ex UNI2278-67)



DN mm	Ø exterior mm	Ø interior mm	Grosime mm	Gauri			Greutate kg
				Interaxe mm	Diametru mm	Numar	
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	19	125	18	4	2,70
65	185	77,5	20	145	18	8 *	3,10
80	200	90,5	20	160	18	8	3,80
100	220	116,0	22	180	18	8	4,80
125	250	141,5	22	210	18	8	6,40
150	285	170,5	24	240	22	8	8,00
200	340	221,5	26	295	22	12	10,30
250	405	276,5	29	355	26	12	17,50
300	460	327,5	32	410	26	12	20,00
350	520	359,0	35	470	26	16	30,50
400	580	411,0	38	525	30	16	37,50
450	640	462,0	42	585	30	20	43,00
500	715	513,5	46	650	33	20	52,00
600	840	616,5	52	770	36	20	72,00
700	910	-	-	840	36	24	90,00
800	1.025	-	-	950	39	24	117,00
900	1.125	-	-	1.050	39	28	130,00
1.000	1.255	-	-	1.170	42	28	165,00

TUBURI FLESSIBILE METALICE RV-INOX

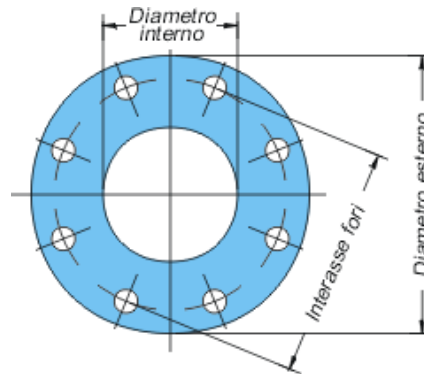
Flanse plane UNI EN 1092-1 PN 25 (ex UNI6083-67)



DN mm	Ø exterior mm	Ø interior mm	Grosime mm	Gauri			Greutate kg
				Interaxe mm	Diametru mm	Numar	
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	20	125	18	4	2,78
65	185	77,5	22	145	18	8	3,80
80	200	90,5	24	160	18	8	4,70
100	235	116	26	190	22	8	6,33
125	270	141,5	28	220	26	8	8,53
150	300	170,5	30	250	26	8	10,90
200	360	221,5	32	310	26	12	14,30
250	425	276,5	35	370	30	12	21,60
300	485	327,5	38	430	30	16	28,30
350	555	359,5	42	490	33	16	41,60
400	620	411,0	46	550	36	16	54,90

TUBURI FLESSIBILE METALICE RV-INOX

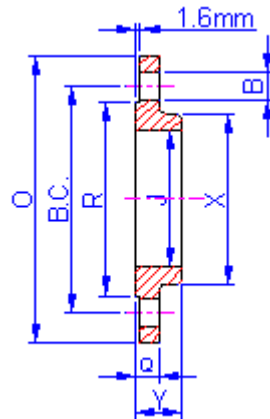
Flanse plane UNI EN 1092-1 PN 40 (ex UNI6084-67)



DN mm	Ø exterior mm	Ø interior mm	Grosime mm	Gauri			Greutate kg
				Interaxe mm	Diametru mm	Numar	
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	20	125	18	4	2,78
65	185	77,5	22	145	18	8	3,80
80	200	90,5	24	160	18	8	4,70
100	235	116	26	190	22	8	6,33
125	270	141,5	28	220	26	8	8,53
150	300	170,5	30	250	26	8	10,90
200	375	221,5	36	320	30	12	18,00
250	450	276,5	42	385	33	12	31,80
300	515	327,5	48	450	33	16	41,90
350	580	359,0	54	510	36	16	62,40
400	660	411,0	60	585	39	16	90,30

TUBURI FLESSIBILE METALICE RV-INOX

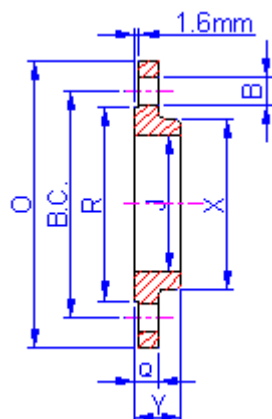
Flanse ANSI B16.5 SLIP ON Class 150 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant *	Greutate Kg
1/2	89	11.1	22.3	30	35	15.9	60.3	4	16	1/2"x65	0.8
3/4	98	12.7	27.7	38	43	15.9	69.8	4	16	1/2"x70	0.9
1	108	14.3	34.5	49	51	17.5	79.4	4	16	1/2"x70	1
1 1/4	118	15.9	43.2	59	64	20.6	88.9	4	16	1/2"x75	1.3
1 1/2	127	17.5	49.5	65	73	22.2	98.4	4	16	1/2"x75	1.4
2	152	19	62	78	92	25.4	120.6	4	19	5/8"x90	2.3
2 1/2	178	22.2	74.7	91	105	28.6	139.7	4	19	5/8"x95	3.2
3	191	23.8	90.7	108	127	30.2	152.4	4	19	5/8"x95	3.6
3 1/2	216	23.8	103.4	122	140	31.7	177.8	8	19	5/8"x95	5
4	229	23.8	116.1	135	157	33.3	190.5	8	19	5/8"x95	5.9
5	254	23.8	143.8	164	186	36.5	215.9	8	22	3/4"x100	6.8
6	279	25.4	170.7	192	216	39.7	241.3	8	22	3/4"x110	8.6
8	343	28.6	221.5	246	270	44.4	298.4	8	22	3/4"x115	13.6
10	406	30.2	276.3	305	324	49.2	361.9	12	25	7/8"x125	19.5
12	483	31.7	327.1	365	381	55.6	431.8	12	25	7/8"x125	29.1
14	533	34.9	359.1	400	413	57.1	476.2	12	29	1"x145	38.6
16	597	36.5	410.5	457	470	63.5	539.7	16	29	1"x145	42.2
18	635	39.7	461.8	505	533	68.3	577.8	16	32	1.1/8"x160	54.5
20	699	42.9	513.1	559	584	73	635	20	32	1.1/8"x170	70
24	813	47.6	615.9	664	692	82.5	749.3	20	35	1.1/4"x190	95

TUBURI FLESSIBILE METALICE RV-INOX

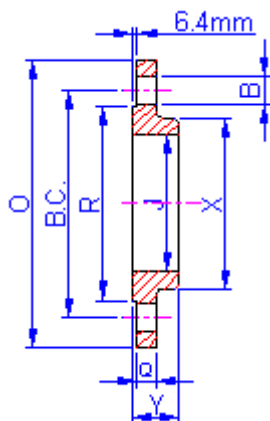
Flanse ANSI B16.5 SLIP ON Class 300 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant *	Greutate Kg
1/2	95	14	22.3	38	35	22	67	4	16	1/2"x70	1.2
3/4	118	16	27.7	48	43	25	83	4	19	5/8"x85	1.3
1	124	18	34.5	54	51	27	89	4	19	5/8"x85	1.4
1 1/4	133	19	43.2	64	64	27	98	4	19	5/8"x90	1.8
1 1/2	156	21	49.5	70	73	30	114	4	22	3/4"x95	2.7
2	165	22	62	84	92	33	127	8	19	5/8"x95	3.2
2 1/2	191	25	74.7	100	105	38	149	8	22	3/4"x110	4.5
3	210	29	90.7	118	127	43	168	8	22	3/4"x115	5.9
3 1/2	229	30	103.4	133	140	44	184	8	22	3/4"x115	7.7
4	254	32	116.1	146	157	48	200	8	22	3/4"x120	10
5	279	35	143.8	178	186	51	235	8	22	3/4"x125	12.7
6	318	37	170.7	206	216	52	270	12	22	3/4"x125	17.7
8	381	41	221.5	260	270	62	330	12	25	7/8"x145	26.3
10	445	48	276.3	321	324	67	387	16	29	1"x170	36.8
12	521	51	327.1	375	381	73	451	16	32	1.1/8"x185	52
14	584	54	359.1	425	413	76	514	20	32	1.1/8"x190	74
16	648	57	410.5	483	470	83	572	20	35	1.1/4"x205	100
18	711	60	461.8	533	533	89	629	24	35	1.1/4"x210	127
20	775	64	513.1	587	584	95	686	24	35	1.1/4"x225	148
24	914	70	615.9	702	692	106	813	24	41	1.1/2"x250	222

TUBURI FLESSIBILE METALICE RV-INOX

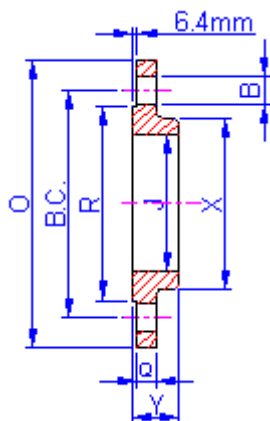
Flanse ANSI B16.5 SLIP ON Class 400 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant *	Greutate Kg
1/2	95	14	22.3	38	35	22	67	4	16	1/2"x80	1.3
3/4	117	16	27.7	47	43	25	83	4	19	5/8"x95	1.4
1	124	17	34.5	54	51	27	89	4	19	5/8"x95	1.8
1 1/4	133	21	43.2	64	64	29	98	4	19	5/8"x100	2.7
1 1/2	156	22	49.5	70	73	32	114	4	22	3/4"x115	3.2
2	165	25	62	84	92	37	127	8	19	5/8"x115	4.1
2 1/2	191	29	74.7	100	105	41	149	8	22	3/4"x125	5.9
3	210	32	90.7	117	127	46	168	8	22	3/4"x135	7.3
3 1/2	229	35	103.4	133	140	49	184	8	25	7/8"x145	9.5
4	254	35	116.1	146	157	51	200	8	25	7/8"x145	11.8
5	279	38	143.8	178	186	54	235	8	25	7/8"x150	14
6	318	41	170.7	206	216	57	270	12	25	7/8"x160	20
8	381	48	221.5	260	270	68	330	12	29	1"x185	30
10	445	54	276.3	321	324	73	387	16	32	1.1/8"x205	41
12	521	57	327.1	375	381	79	451	16	35	1.1/4"x215	59
14	584	60	359.1	425	413	84	514	20	35	1.1/4"x220	87
16	648	64	410.5	483	470	94	572	20	38	1.3/8"x235	115
18	711	67	461.8	533	533	98	629	24	38	1.3/8"x240	140
20	775	70	513.1	587	584	102	686	24	41	1.1/2"x260	170
24	914	76	615.9	702	692	114	813	24	44	1.3/4"x285	245

TUBURI FLESSIBILE METALICE RV-INOX

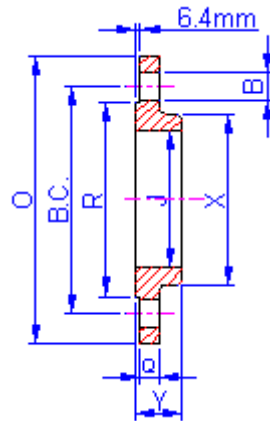
Flanse ANSI B16.5 SLIP ON Class 600 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant *	Greutate Kg
1/2	95	14	22.3	38	35	22.2	67	4	16	1/2"x80	1.3
3/4	117	16	27.6	47	43	25.4	83	4	19	5/8"x95	1.4
1	124	17	34.5	54	51	27	89	4	19	5/8"x95	1.8
1 1/4	133	21	43.1	64	64	28.6	98	4	19	5/8"x100	2.7
1 1/2	156	22	49.5	70	73	31.8	114	4	22	3/4"x115	3.2
2	165	25	61.9	84	92	36.5	127	8	19	5/8"x115	4.1
2 1/2	191	29	74.6	100	105	41.3	149	8	22	3/4"x125	5.9
3	210	32	90.6	117	127	46	168	8	22	3/4"x135	7.3
3 1/2	229	35	103.3	133	140	49.2	184	8	25	7/8"x145	9.5
4	273	38	116	152	157	54	216	8	25	7/8"x150	16.8
5	330	44	143.7	189	186	60.3	267	8	28	1"x175	28.6
6	356	48	170.6	223	216	66.7	292	12	28	1"x185	36.3
8	419	56	221.4	273	270	76.2	349	12	32	1.1/8"x205	52.2
10	508	63.5	276.3	343	324	85.7	432	16	35	1.1/4"x230	80.3
12	559	67	327.1	400	381	92.1	489	20	35	1.1/4"x235	97.5
14	603	70	359.1	432	413	93.7	527	20	38	1.3/8"x250	117
16	686	76	410.4	495	470	106	603	20	41	1.1/2"x265	166
18	743	83	461.7	546	533	117	654	20	44	1.5/8"x285	216
20	813	89	513	610	584	127	724	24	44	1.5/8"x305	278
24	940	102	615.9	718	692	140	838	24	51	1.7/8"x340	397

TUBURI FLESSIBILE METALICE RV-INOX

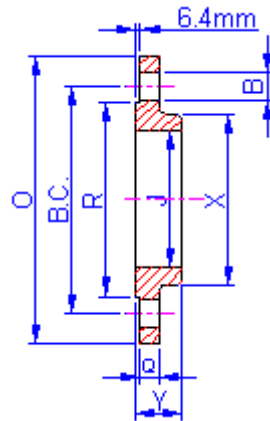
Flanse ANSI B16.5 SLIP ON Class 600 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant *	Greutate Kg
1/2	120.7	22.2	22.3	38	34.9	31.8	82.6	4	22	3/4"x115	3.2
3/4	130.2	25.4	27.7	44	42.9	34.9	88.9	4	22	3/4"x120	3.6
1	149.2	28.6	34.5	52	50.8	41.3	101.6	4	25	7/8"x135	4.1
1 1/4	158.7	28.6	43.2	64	63.5	41.3	111.1	4	25	7/8"x135	4.5
1 1/2	177.8	31.8	49.5	70	73	44.5	123.8	4	29	1"x150	6.4
2	215.9	38.1	62	105	92.1	57.2	165.1	8	25	7/8"x150	11.3
2 1/2	244.5	41.3	74.7	124	104.8	63.5	190.5	8	29	1"x170	16.3
3	241.3	38.1	90.7	127	127	54	190.5	8	25	7/8"x150	14.1
4	292.1	44.5	116.1	159	157.2	69.9	235	8	32	1.1/8"x185	24.1
5	349.3	50.8	143.8	191	185.7	79.4	279.4	8	35	1.1/4"x205	38
6	381	55.6	170.7	235	215.9	85.7	317.5	12	32	1.1/2"x205	49
8	469.9	63.5	221.5	298	269.9	101.6	393.7	12	38	1.3/8"x235	78
10	546.1	69.9	276.3	368	323.9	108	469.9	16	38	1.3/8"x250	111
12	609.6	79.4	327.1	419	381	117.5	533.4	20	38	1.3/8"x265	148
14	641.2	85.7	359.1	451	412.8	130.2	558.8	20	41	1.1/2"x285	173
16	704.8	88.9	410.5	508	469.9	133.4	616	20	44	1.3/8"x300	208
18	787.4	101.6	461.8	565	533.4	152.4	685.8	20	51	1.7/8"x345	272
20	857.2	108	513.1	622	584.2	158.8	749.3	20	54	2"x370	332
24	1041.4	139.7	615.9	749	692.2	203.2	901.7	20	67	2.1/2"x460	632

TUBURI FLESSIBILE METALICE RV-INOX

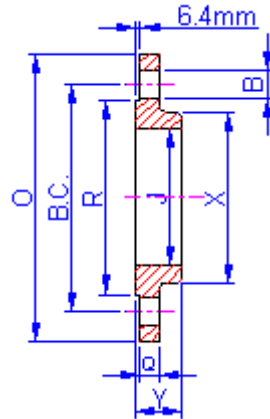
Flanse ANSI B16.5 SLIP ON Class 900 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant **	Greutate Kg
1/2	120.7	22.2	22.3	38	34.9	31.8	82.6	4	22	3/4"x115	3.2
3/4	130.2	25.4	27.7	44	42.9	34.9	88.9	4	22	3/4"x120	3.6
1	149.2	28.6	34.5	52	50.8	41.3	101.6	4	25	7/8"x135	4.1
1 1/4	158.7	28.6	43.2	64	63.5	41.3	111.1	4	25	7/8"x135	4.5
1 1/2	177.8	31.8	49.5	70	73	44.5	123.8	4	29	1"x150	6.4
2	215.9	38.1	62	105	92.1	57.2	165.1	8	25	7/8"x150	11.3
2 1/2	244.5	41.3	74.7	124	104.8	63.5	190.5	8	29	1"x170	16.3
3*	266.7	47.6	-	133	127	73	203.2	8	32	1.1/8"x190	21.8
4*	311.2	54	-	162	157.2	90.5	241.3	8	35	1.1/4"x210	33
5*	374.6	73	-	197	185.7	104.8	292.1	8	41	1.1/2"x260	60
6*	393.7	82.6	-	229	215.9	119.1	317.5	12	38	1.3/8"x275	74
8*	482.6	92.1	-	292	269.9	142.9	393.7	12	44	1.5/8"x305	117
10*	584.2	107.9	-	368	323.9	158.8	482.6	12	51	1.7/8"x355	198
12*	673.1	123.8	-	451	381	181	571.5	16	54	2"x395	264

TUBURI FLESSIBILE METALICE RV-INOX

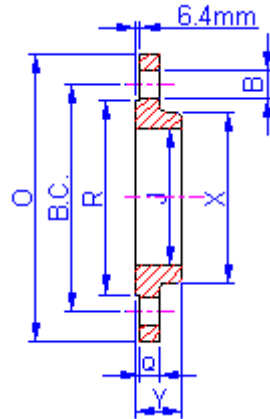
Flanse ANSI B16.5 SLIP ON Class 1500 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant **	Greutate Kg
1/2	120.7	22.2	22.3	38	34.9	31.8	82.6	4	22	3/4"x115	3.2
3/4	130.2	25.4	27.7	44	42.9	34.9	88.9	4	22	3/4"x120	3.6
1	149.2	28.6	34.5	52	50.8	41.3	101.6	4	25	7/8"x135	4.1
1 1/4	158.7	28.6	43.2	64	63.5	41.3	111.1	4	25	7/8"x135	4.5
1 1/2	177.8	31.8	49.5	70	73	44.5	123.8	4	29	1"x150	6.4
2	215.9	38.1	62	105	92.1	57.2	165.1	8	25	7/8"x150	11.3
2 1/2	244.5	41.3	74.7	124	104.8	63.5	190.5	8	29	1"x170	16.3
3*	266.7	47.6	-	133	127	73	203.2	8	32	1.1/8"x190	21.8
4*	311.2	54	-	162	157.2	90.5	241.3	8	35	1.1/4"x210	33
5*	374.6	73	-	197	185.7	104.8	292.1	8	41	1.1/2"x260	60
6*	393.7	82.6	-	229	215.9	119.1	317.5	12	38	1.3/8"x275	74
8*	482.6	92.1	-	292	269.9	142.9	393.7	12	44	1.5/8"x305	117
10*	584.2	107.9	-	368	323.9	158.8	482.6	12	51	1.7/8"x355	198
12*	673.1	123.8	-	451	381	181	571.5	16	54	2"x395	264

TUBURI FLESSIBILE METALICE RV-INOX

Flanse ANSI B16.5 SLIP ON Class 2500 lbs



DN toli	O mm	Q mm	J mm	X mm	R mm	Y mm	B.C. mm	n° gauri	B mm	Tirant **	Greutate Kg
1/2*	133.4	30.2	22.3	42.9	34.9	39.7	88.9	4	22	3/4"x125	3.2
3/4*	139.7	31.8	27.7	50.8	42.9	42.9	95.3	4	22	3/4"x135	4.1
1*	158.8	35.1	34.5	57.2	50.8	47.6	108	4	25	7/8"x145	5.4
1 1/4*	184.2	38.1	43.2	73	63.5	52.4	130.2	4	29	1"x165	8.2
1 1/2*	203.2	44.5	49.5	79.4	73	60.3	146.1	4	32	1.1/8"x185	11.3
2*	235	50.8	62	95.3	92.1	69.9	171.5	8	29	1"x190	17.3
2 1/2*	266.7	57.2	74.7	114.3	104.8	79.4	196.9	8	32	1.1/8"x210	25
3*	304.8	66.5	90.7	133.4	127	92.1	228.6	8	35	1.1/4"x235	38
4*	355.6	76.2	116.1	165.1	157.2	108	273	8	41	1.1/2"x265	58
5*	419.1	91.9	143.8	203.2	185.7	130.2	323.9	8	48	1.3/4"x320	95
6*	482.6	108	170.7	235	215.9	152.4	368.3	8	54	2"x360	147
8*	552.5	127	221.5	304.8	269.7	177.8	438.2	12	54	2"x400	220
10*	673.1	165.1	276.3	374.7	323.9	228.6	539.8	12	67	2.1/2"x510	420
12*	762	184.2	327.1	441.3	381	254	619.1	12	73	2.3/4"x560	500



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