

Connections

DIN 11864 / DIN 11853



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**The above mentioned articles are delivered with an EPDM seal ring.
Other seal ring qualities are available upon request.**

When all technical specifications are complied with acc. to DIN 11864 and DIN 11853, the application of the aseptic and hygienic connections will be successful. AWH has carried out extensive optimization of production and developed exact testing mechanisms to contribute to your performance improvement.

The connections for aseptic and hygienic applications are compatible and differ in the axial length, the available materials and the assortment (the blind parts are only available as DIN 11864 version). The connections are delivered as a standard with pipe dimensions acc. to DIN 11866 series A, B and C.

In the present catalogue you will find a large amount of variants for the program of DIN 11864 and DIN 11853. For individual custom-made orders our competent team will gladly assist you, to accommodate your needs.



The 3-A F-Comp connections for aseptic and hygienic applications of the DIN 11853 and DIN 11864 series listed in this catalog exceed the requirements of the mentioned standards and fully comply with the requirements of 3-A Sanitary Standard 63-04. Additionally, we offer seal rings made of materials, which meet the demands of the 3-A Sanitary Standard 18-03.



We are certified according to ISO 9001 : 2015

The German Standards

DIN 11864 Part 1-3

- Fittings made of stainless steel for aseptic applications in chemical and pharmaceutical industry -

- DIN 11864 – 1: Unions
- DIN 11864 – 2: Flange connections
- DIN 11864 – 3: Clamp connections

in the surface finish

H3 - inside $Ra \leq 0,8\mu m$ and outside $Ra \leq 1,0\mu m$

HE4 - inside e-polished $Ra \leq 0,4\mu m$ and outside $Ra 1,0\mu m$

DIN 11853 Part 1-3

- Fittings made of stainless steel for hygienic applications in food and chemical industry

- DIN 11853 – 1: Unions
- DIN 11853 – 2: Flange connections
- DIN 11853 – 3: Clamp connections

in the surface finish

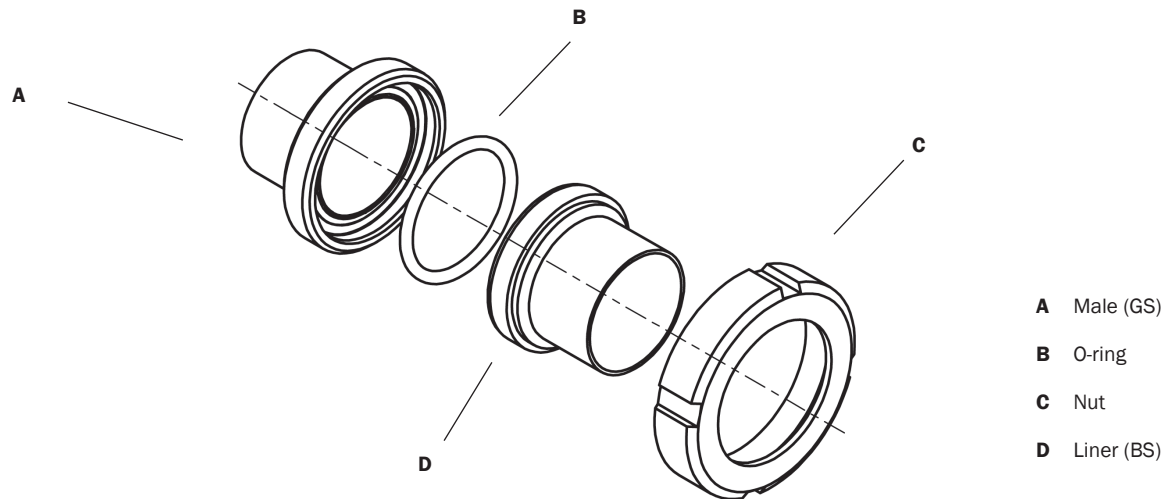
H2 - inside $Ra \leq 0,8\mu m$ and outside $Ra \leq 1,6\mu m$

are described in this catalogue.

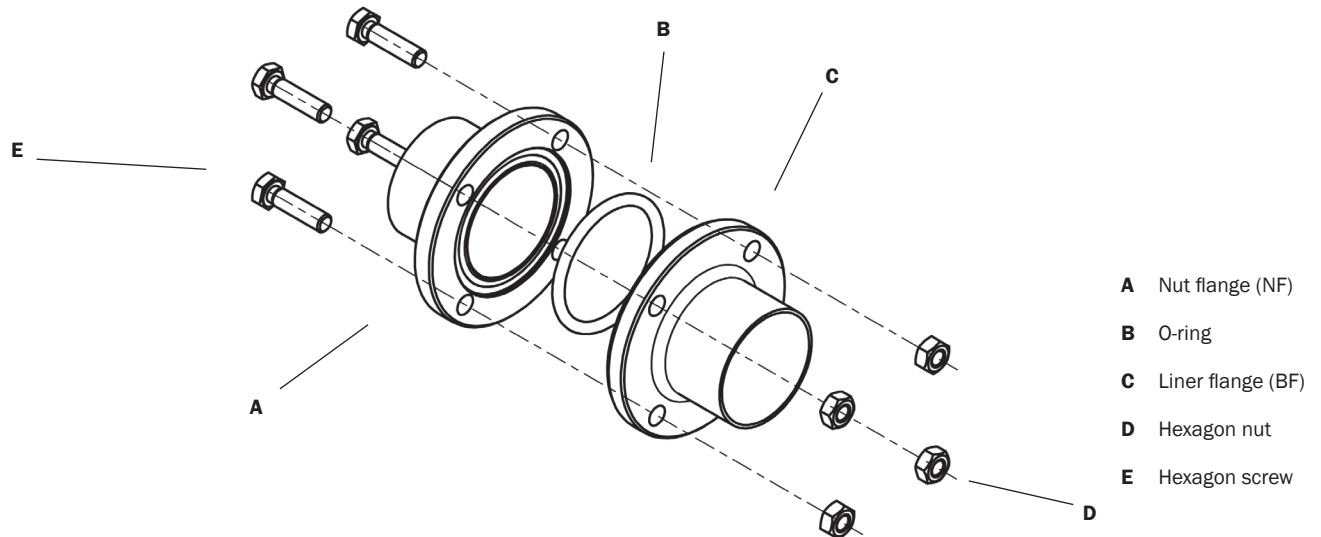
Thanks to the affiliation with the NEUMO-EHRENBURG-GROUP, AWH provides connections of the *BioConnect*® and *Connect S*® series for more extensive hygienic requirements. Our competent team will gladly assist you if required.

Explosion View

Unions

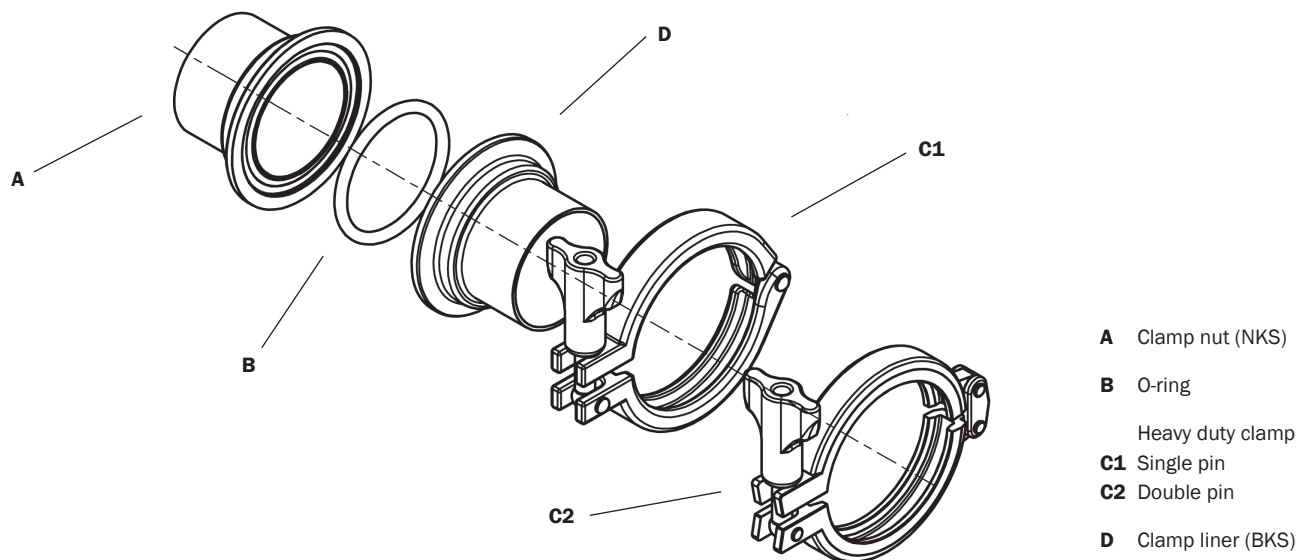


Flange Connections

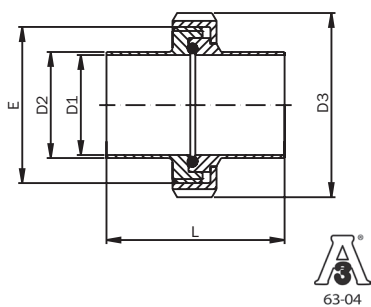


Note: from DN 65 / DN OD 76.1 / DN 2 1/2" more than 4 screws due to pressure resistance

Clamp Connections



Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series A)



Is delivered in parts!

Union DIN

DN DIN	D1	D2	D3	E	L	Weight [kg]
10	10	13	38	Rd 28 x 1/8"	76	0.15
15	16	19	44	Rd 34 x 1/8"	76	0.19
20	20	23	54	Rd 44 x 1/6"	76	0.31
25	26	29	63	Rd 52 x 1/6"	77	0.43
32	32	35	70	Rd 58 x 1/6"	88	0.53
40	38	41	78	Rd 65 x 1/6"	88	0.61
50	50	53	92	Rd 78 x 1/6"	89	0.80
65	66	70	112	Rd 95 x 1/6"	113	1.35
80	81	85	127	Rd 110 x 1/4"	117	1.89
100	100	104	148	Rd 130 x 1/4"	120	2.46

Male DIN

DN DIN	D1	D2	E	L	L1	Weight [kg]
10	10	13	Rd 28 x 1/8"	41	27	0.05
15	16	19	Rd 34 x 1/8"	41	27	0.07
20	20	23	Rd 44 x 1/6"	43	26	0.13
25	26	29	Rd 52 x 1/6"	43	26	0.16
32	32	35	Rd 58 x 1/6"	48	32	0.18
40	38	41	Rd 65 x 1/6"	48	31	0.22
50	50	53	Rd 78 x 1/6"	48	30	0.28
65	66	70	Rd 95 x 1/6"	60	40	0.45
80	81	85	Rd 110 x 1/4"	64	40	0.69
100	100	104	Rd 130 x 1/4"	64	40	0.80

Liner DIN

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	21.9	39	27	0.03
15	16	19	27.9	39	27	0.04
20	20	23	35.9	38	26	0.06
25	26	29	42.9	40	26	0.09
32	32	35	48.9	47	32	0.12
40	38	41	54.9	47	31	0.14
50	50	53	66.9	48	30	0.19
65	66	70	84.9	61	40	0.35
80	81	85	98.9	61	40	0.40
100	100	104	118.9	66	40	0.58

Nut DIN 11851 with Undercut

DN DIN	D1	D3	E	L	L1	Weight [kg]
10	19	38	Rd 28 x 1/8"	18	15	0.07
15	25	44	Rd 34 x 1/8"	18	15	0.08
20	31	54	Rd 44 x 1/6"	20	17	0.13
25	36	63	Rd 52 x 1/6"	21	18	0.18
32	42	70	Rd 58 x 1/6"	21	18	0.22
40	49	78	Rd 65 x 1/6"	21	18	0.25
50	62	92	Rd 78 x 1/6"	22	19	0.33
65	80	112	Rd 95 x 1/6"	25	21	0.55
80	94	127	Rd 110 x 1/4"	29	25	0.80
100	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series A)

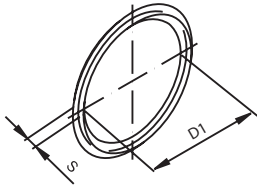
Union DIN			
1.4404 (316L)			
DN DIN	Price/EUR	Article No.	
10	32,44	112L 00 40 2/1	
15	34,93	112L 00 41 2/1	
20	37,34	112L 00 42 2/1	
25	39,14	112L 00 43 2/1	
32	43,48	112L 00 44 2/1	
40	45,31	112L 00 45 2/1	
50	55,85	112L 00 46 2/1	
65	78,39	112L 00 09 2/1	
80	111,25	112L 00 10 2/1	
100	154,55	112L 00 12 2/1	

Male DIN					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	12,90	1121 00 40 2	16,15	1121 00 40 2 HE4	
15	12,90	1121 00 41 2	16,15	1121 00 41 2 HE4	
20	14,00	1121 00 42 2	17,50	1121 00 42 2 HE4	
25	15,00	1121 00 43 2	18,00	1121 00 43 2 HE4	
32	17,00	1121 00 44 2	20,40	1121 00 44 2 HE4	
40	17,80	1121 00 45 2	21,40	1121 00 45 2 HE4	
50	22,70	1121 00 46 2	27,25	1121 00 46 2 HE4	
65	26,00	1121 00 09 2	31,20	1121 00 09 2 HE4	
80	45,85	1121 00 10 2	55,10	1121 00 10 2 HE4	
100	63,95	1121 00 12 2	76,75	1121 00 12 2 HE4	

Liner DIN					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	8,50	1123 00 40 2	10,65	1123 00 40 2 HE4	
15	9,20	1123 00 41 2	11,05	1123 00 41 2 HE4	
20	11,00	1123 00 42 2	13,75	1123 00 42 2 HE4	
25	11,90	1123 00 43 2	14,30	1123 00 43 2 HE4	
32	13,70	1123 00 44 2	16,45	1123 00 44 2 HE4	
40	14,40	1123 00 45 2	17,30	1123 00 45 2 HE4	
50	18,15	1123 00 46 2	21,80	1123 00 46 2 HE4	
65	32,15	1123 00 09 2	38,60	1123 00 09 2 HE4	
80	36,60	1123 00 10 2	43,95	1123 00 10 2 HE4	
100	53,80	1123 00 12 2	64,60	1123 00 12 2 HE4	

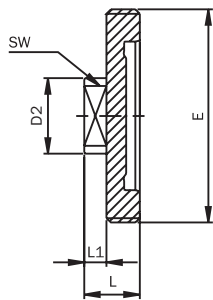
Nut DIN 11851 with Undercut			
1.4307 (304L) pol.			
DN DIN	Price/EUR	Article No.	
10	6,18	11003 000 010 10	
15	7,97	11003 000 015 10	
20	7,48	11003 000 020 10	
25	7,38	11003 000 025 10	
32	7,92	11003 000 032 10	
40	8,25	11003 000 040 10	
50	9,68	11003 000 050 10	
65	14,82	11003 000 065 10	
80	23,28	11003 000 080 10	
100	30,92	11003 000 100 10	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series A)



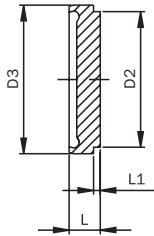
O-ring

DN DIN	D1	S
10	12	3.5
15	18	3.5
20	22	3.5
25	28	3.5
32	34	5
40	40	5
50	52	5
65	68	5
80	83	5
100	102	5
125	127	5
150	152	5



Blind Male DIN

DN DIN	D2	E	SW	L	L1	Weight [kg]
10	22	Rd 28 x 1/8"	17	24	12	0.07
15	22	Rd 34 x 1/8"	17	24	12	0.10
20	22	Rd 44 x 1/6"	17	24	10	0.16
25	40	Rd 52 x 1/6"	27	24	10	0.23
32	40	Rd 58 x 1/6"	27	24	10	0.25
40	40	Rd 65 x 1/6"	27	24	10	0.30
50	40	Rd 78 x 1/6"	27	24	10	0.39
65	48	Rd 95 x 1/6"	32	28	12	0.60
80	48	Rd 110 x 1/4"	32	28	8	1.07
100	48	Rd 130 x 1/4"	32	30	10	1.27



Blind Liner DIN

DN DIN	D3	D2	L	L1	Weight [kg]
10	21.9	18	9	3	0.02
15	27.9	24	9	3	0.03
20	35.9	30	10	3	0.06
25	42.9	35	12	3	0.10
32	48.9	41	13	3	0.13
40	54.9	48	13	3	0.16
50	66.9	61	14	3	0.27
65	84.9	79	16	4	0.52
80	98.9	93	16	4	0.70
100	118.9	114	20	5	1.37

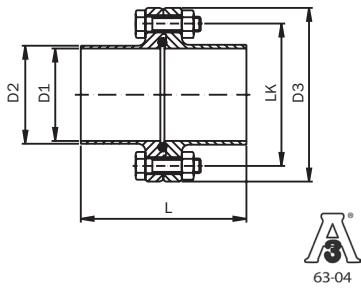
Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series A)

O-ring								
EPDM			FKM			PTFE		
DN DIN	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
10	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
15	4,86	1129 00 41 1	9,71	1129 00 41 2	4,86	11,18	1129 00 41 4	6,32
20	4,86	1129 00 42 1	9,71	1129 00 42 2	4,86	11,18	1129 00 42 4	6,32
25	4,86	1129 00 43 1	9,71	1129 00 43 2	4,86	11,18	1129 00 43 4	6,32
32	4,86	1129 00 44 1	9,71	1129 00 44 2	4,86	11,18	1129 00 44 4	6,32
40	4,86	1129 00 45 1	9,71	1129 00 45 2	4,86	11,18	1129 00 45 4	6,32
50	5,32	1129 00 46 1	10,63	1129 00 46 2	5,32	12,24	1129 00 46 4	6,92
65	5,42	1129 00 09 1	10,84	1129 00 09 2	5,42	12,47	1129 00 09 4	7,05
80	5,52	1129 00 10 1	11,04	1129 00 10 2	5,52	12,70	1129 00 10 4	7,18
100	5,88	1129 00 12 1	11,76	1129 00 12 2	5,88	13,52	1129 00 12 4	7,64
125	8,18	1129 00 13 1	16,36	1129 00 13 2	8,18	18,81	1129 00 13 4	10,63
150	9,20	1129 00 15 1	18,41	1129 00 15 2	9,20	21,16	1129 00 15 4	11,96

Blind Male DIN					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	18,80	1127 00 40 2	23,50	1127 00 40 2 HE4	
15	18,80	1127 00 41 2	23,50	1127 00 41 2 HE4	
20	18,80	1127 00 42 2	23,50	1127 00 42 2 HE4	
25	19,00	1127 00 43 2	23,75	1127 00 43 2 HE4	
32	21,60	1127 00 44 2	25,95	1127 00 44 2 HE4	
40	22,40	1127 00 45 2	26,90	1127 00 45 2 HE4	
50	31,50	1127 00 46 2	37,80	1127 00 46 2 HE4	
65	41,90	1127 00 09 2	50,30	1127 00 09 2 HE4	
80	54,70	1127 00 10 2	65,65	1127 00 10 2 HE4	
100	64,80	1127 00 12 2	77,80	1127 00 12 2 HE4	

Blind Liner DIN					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	9,30	1125 00 40 2	11,65	1125 00 40 2 HE4	
15	9,30	1125 00 41 2	11,65	1125 00 41 2 HE4	
20	9,30	1125 00 42 2	11,65	1125 00 42 2 HE4	
25	9,30	1125 00 43 2	11,65	1125 00 43 2 HE4	
32	9,80	1125 00 44 2	11,80	1125 00 44 2 HE4	
40	12,70	1125 00 45 2	15,30	1125 00 45 2 HE4	
50	17,10	1125 00 46 2	20,55	1125 00 46 2 HE4	
65	22,50	1125 00 09 2	27,00	1125 00 09 2 HE4	
80	25,70	1125 00 10 2	30,85	1125 00 10 2 HE4	
100	40,00	1125 00 12 2	48,00	1125 00 12 2 HE4	

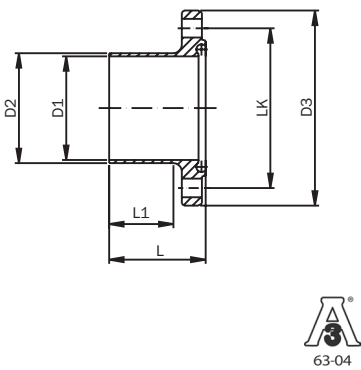
Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series A)



Is delivered in parts!

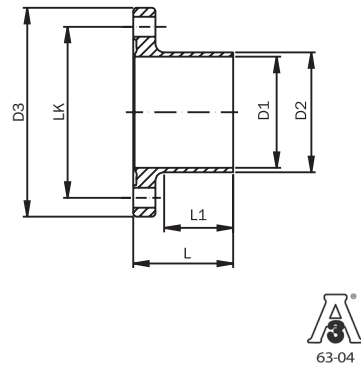
Flange Connection DIN

DN DIN	D1	D2	D3	LK	L	Weight [kg]
10	10	13	54	37 4/M8 x 30	80	0.33
15	16	19	59	42 4/M8 x 30	80	0.39
20	20	23	64	47 4/M8 x 30	80	0.45
25	26	29	70	53 4/M8 x 30	80	0.53
32	32	35	76	59 4/M8 x 30	90	0.62
40	38	41	82	65 4/M8 x 30	90	0.70
50	50	53	94	77 4/M8 x 30	90	0.86
65	66	70	113	95 8/M8 x 30	108	1.24
80	81	85	133	112 8/M10 x 35	116	1.86
100	100	104	159	137 8/M10 x 40	116	2.88
125	125	129	183	161 8/M10 x 40	120	3.46
150	150	154	213	188 8/M12 x 50	120	4.82



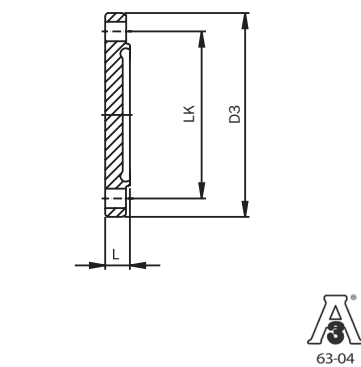
Nut Flange DIN

DN DIN	D1	D2	D3	LK	L	L1	Weight [kg]
10	10	13	54	37 4 x Ø 9	41.5	26	0.16
15	16	19	59	42 4 x Ø 9	41.5	26	0.20
20	20	23	64	47 4 x Ø 9	41.5	26	0.23
25	26	29	70	53 4 x Ø 9	41.5	26	0.27
32	32	35	76	59 4 x Ø 9	46.5	31	0.32
40	38	41	82	65 4 x Ø 9	46.5	31	0.36
50	50	53	94	77 4 x Ø 9	46.5	31	0.44
65	66	70	113	95 8 x Ø 9	55.5	42	0.63
80	81	85	133	112 8 x Ø 11	59.5	42	0.94
100	100	104	159	137 8 x Ø 11	59.5	42	1.46
125	125	129	183	161 8 x Ø 11	61.5	42	1.75
150	150	154	213	188 8 x Ø 14	61.5	40	2.44



Liner Flange DIN

DN DIN	D1	D2	D3	LK	L	L1	Weight [kg]
10	10	13	54	37 4 x Ø 9	40	26	0.16
15	16	19	59	42 4 x Ø 9	40	26	0.19
20	20	23	64	47 4 x Ø 9	40	26	0.23
25	26	29	70	53 4 x Ø 9	40	26	0.26
32	32	35	76	59 4 x Ø 9	45	31	0.30
40	38	41	82	65 4 x Ø 9	45	31	0.34
50	50	53	94	77 4 x Ø 9	45	31	0.42
65	66	70	113	95 8 x Ø 9	54	42	0.60
80	81	85	133	112 8 x Ø 11	58	42	0.91
100	100	104	159	137 8 x Ø 11	58	42	1.42
125	125	129	183	161 8 x Ø 11	60	42	1.71
150	150	154	213	188 8 x Ø 14	60	40	2.38



Blind Nut Flange DIN

DN DIN	D3	LK	L	Weight [kg]
10	54	37 4 x Ø 9	11.5	0.04
15	59	42 4 x Ø 9	11.5	0.06
20	64	47 4 x Ø 9	11.5	0.08
25	70	53 4 x Ø 9	11.5	0.11
32	76	59 4 x Ø 9	11.5	0.14
40	82	65 4 x Ø 9	11.5	0.18
50	94	77 4 x Ø 9	11.5	0.26
65	113	95 8 x Ø 9	11.5	0.38
80	133	112 8 x Ø 11	13.5	0.63
100	159	137 8 x Ø 11	15.5	1.09
125	183	161 8 x Ø 11	15.5	1.59
150	213	188 8 x Ø 14	17.5	2.52

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series A)

Flange Connection DIN

1.4404 (316L) / H3			
DN DIN	Price/EUR	Article No.	
10	44,75	113L 00 40 2/1	
15	46,00	113L 00 41 2/1	
20	46,50	113L 00 42 2/1	
25	47,00	113L 00 43 2/1	
32	49,70	113L 00 44 2/1	
40	55,21	113L 00 45 2/1	
50	58,40	113L 00 46 2/1	
65	75,07	113L 00 09 2/1	
80	105,82	113L 00 10 2/1	
100	145,38	113L 00 12 2/1	
125	228,58	113L 00 13 2/1	
150	320,75	113L 00 15 2/1	

Nut Flange DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	19,30	1131 00 40 2	23,20	1131 00 40 2 HE4	
15	20,00	1131 00 41 2	24,00	1131 00 41 2 HE4	
20	20,40	1131 00 42 2	24,50	1131 00 42 2 HE4	
25	20,60	1131 00 43 2	24,75	1131 00 43 2 HE4	
32	21,60	1131 00 44 2	24,90	1131 00 44 2 HE4	
40	24,80	1131 00 45 2	28,55	1131 00 45 2 HE4	
50	26,00	1131 00 46 2	29,90	1131 00 46 2 HE4	
65	33,70	1131 00 09 2	38,80	1131 00 09 2 HE4	
80	46,10	1131 00 10 2	53,05	1131 00 10 2 HE4	
100	63,90	1131 00 12 2	73,50	1131 00 12 2 HE4	
125	106,00	1131 00 13 2	127,20	1131 00 13 2 HE4	
150	150,40	1131 00 15 2	180,50	1131 00 15 2 HE4	

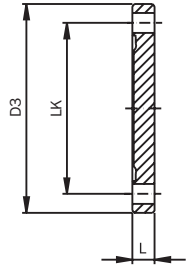
Liner Flange DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	19,00	1133 00 40 2	22,80	1133 00 40 2 HE4	
15	19,60	1133 00 41 2	23,55	1133 00 41 2 HE4	
20	19,70	1133 00 42 2	23,70	1133 00 42 2 HE4	
25	20,00	1133 00 43 2	24,00	1133 00 43 2 HE4	
32	21,70	1133 00 44 2	24,95	1133 00 44 2 HE4	
40	24,00	1133 00 45 2	27,60	1133 00 45 2 HE4	
50	25,50	1133 00 46 2	29,35	1133 00 46 2 HE4	
65	32,90	1133 00 09 2	37,85	1133 00 09 2 HE4	
80	47,80	1133 00 10 2	55,00	1133 00 10 2 HE4	
100	67,90	1133 00 12 2	78,10	1133 00 12 2 HE4	
125	106,70	1133 00 13 2	128,05	1133 00 13 2 HE4	
150	150,50	1133 00 15 2	180,60	1133 00 15 2 HE4	

Blind Nut Flange DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	17,70	1135 00 40 2	21,25	1135 00 40 2 HE4	
15	17,70	1135 00 41 2	21,25	1135 00 41 2 HE4	
20	18,00	1135 00 42 2	21,60	1135 00 42 2 HE4	
25	18,50	1135 00 43 2	22,20	1135 00 43 2 HE4	
32	22,00	1135 00 44 2	25,30	1135 00 44 2 HE4	
40	22,20	1135 00 45 2	25,60	1135 00 45 2 HE4	
50	24,60	1135 00 46 2	28,30	1135 00 46 2 HE4	
65	30,60	1135 00 09 2	35,20	1135 00 09 2 HE4	
80	38,60	1135 00 10 2	44,40	1135 00 10 2 HE4	
100	54,90	1135 00 12 2	63,15	1135 00 12 2 HE4	
125	72,00	1135 00 13 2	86,40	1135 00 13 2 HE4	
150	97,40	1135 00 15 2	116,90	1135 00 15 2 HE4	

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series A)



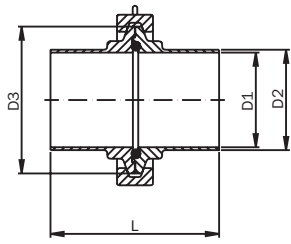
Blind Liner Flange DIN

DN DIN	D3	LK	L	Weight [kg]
10	54	37	4 x Ø 9	0.16
15	59	42	4 x Ø 9	0.19
20	64	47	4 x Ø 9	0.22
25	70	53	4 x Ø 9	0.27
32	76	59	4 x Ø 9	0.32
40	82	65	4 x Ø 9	0.37
50	94	77	4 x Ø 9	0.48
65	113	95	8 x Ø 9	0.69
80	133	112	8 x Ø 11	1.15
100	159	137	8 x Ø 11	1.97
125	183	161	8 x Ø 11	2.62
150	213	188	8 x Ø 14	4.12

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series A)

Blind Liner Flange DIN					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	15,40	1137 00 40 2	18,50	1137 00 40 2 HE4	
15	15,40	1137 00 41 2	18,50	1137 00 41 2 HE4	
20	15,40	1137 00 42 2	18,50	1137 00 42 2 HE4	
25	16,20	1137 00 43 2	18,70	1137 00 43 2 HE4	
32	17,55	1137 00 44 2	20,20	1137 00 44 2 HE4	
40	18,00	1137 00 45 2	20,70	1137 00 45 2 HE4	
50	20,70	1137 00 46 2	23,85	1137 00 46 2 HE4	
65	27,10	1137 00 09 2	31,20	1137 00 09 2 HE4	
80	36,60	1137 00 10 2	42,10	1137 00 10 2 HE4	
100	48,90	1137 00 12 2	56,25	1137 00 12 2 HE4	
125	69,30	1137 00 13 2	83,16	1137 00 13 2 HE4	
150	97,50	1137 00 15 2	117,00	1137 00 15 2 HE4	

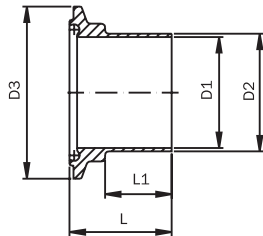
Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series A)



Is delivered in parts!

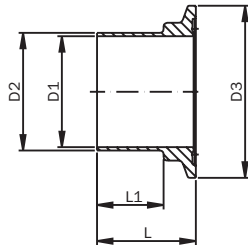
Clamp Connection DIN

DN DIN	D1	D2	D3	L	Weight [kg]
10	10	13	34	76	0.18
15	16	19	34	76	0.18
20	20	23	50.5	76	0.48
25	26	29	50.5	77	0.47
32	32	35	50.5	88	0.46
40	38	41	64	88	0.57
50	50	53	77.5	89	0.74
65	66	70	91	113	0.99
80	81	85	106	117	1.14
100	100	104	130	120	1.36



Clamp Nut DIN

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	34	39.5	26	0.04
15	16	19	34	39.5	26	0.04
20	20	23	50.5	39.5	26	0.09
25	26	29	50.5	40	28	0.09
32	32	35	50.5	45.5	30	0.09
40	38	41	64	45.5	30	0.13
50	50	53	77.5	46	30	0.17
65	66	70	91	58	40	0.26
80	81	85	106	60	40	0.30
100	100	104	130	61.5	40	0.40

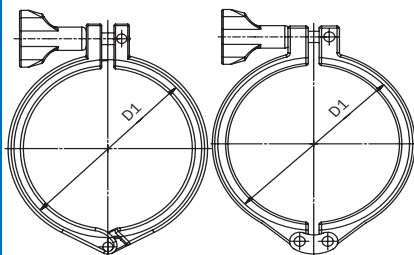


Clamp Liner DIN

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	34	38	26	0.04
15	16	19	34	38	26	0.04
20	20	23	50.5	38	26	0.08
25	26	29	50.5	38.5	28	0.07
32	32	35	50.5	44	30	0.06
40	38	41	64	44	30	0.10
50	50	53	77.5	44.5	30	0.14
65	66	70	91	56.5	40	0.21
80	81	85	106	58.5	40	0.25
100	100	104	130	60	40	0.35

Heavy Duty Clamp

DN DIN	D1	SP Weight [kg]	DP Weight [kg]
10	34	0.213	0.192
15	34	0.213	0.192
20	50.5	0.234	0.334
25	50.5	0.234	0.334
32	50.5	0.234	0.334
40	64	0.312	0.404
50	77.5	0.299	0.454
65	91	0.343	0.506
80	106	0.451	0.562
100	130	0.546	0.655



Applicable professional rules, regulations and norms are to be observed

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series A)

Clamp Connection DIN

1.4404 (316L) / H3			
DN DIN	Price/EUR	Article No.	
10	49,83	119L 00 40 2/1	
15	49,83	119L 00 41 2/1	
20	55,91	119L 00 42 2/1	
25	59,11	119L 00 43 2/1	
32	60,41	119L 00 44 2/1	
40	66,74	119L 00 45 2/1	
50	76,99	119L 00 46 2/1	
65	99,16	119L 00 09 2/1	
80	125,71	119L 00 10 2/1	
100	163,18	119L 00 12 2/1	

Clamp Nut DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	11,50	1193 00 40 2	13,30	1193 00 40 2 HE4	
15	11,50	1193 00 41 2	13,30	1193 00 41 2 HE4	
20	14,50	1193 00 42 2	16,70	1193 00 42 2 HE4	
25	16,20	1193 00 43 2	18,65	1193 00 43 2 HE4	
32	16,90	1193 00 44 2	19,45	1193 00 44 2 HE4	
40	19,80	1193 00 45 2	22,80	1193 00 45 2 HE4	
50	22,80	1193 00 46 2	26,30	1193 00 46 2 HE4	
65	34,00	1193 00 09 2	39,10	1193 00 09 2 HE4	
80	45,90	1193 00 10 2	52,80	1193 00 10 2 HE4	
100	60,00	1193 00 12 2	69,10	1193 00 12 2 HE4	

Clamp Liner DIN

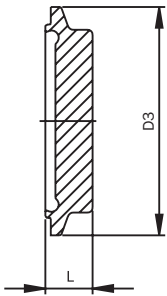
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	10,00	1191 00 40 2	11,50	1191 00 40 2 HE4	
15	10,00	1191 00 41 2	11,50	1191 00 41 2 HE4	
20	13,50	1191 00 42 2	15,55	1191 00 42 2 HE4	
25	15,00	1191 00 43 2	17,25	1191 00 43 2 HE4	
32	15,60	1191 00 44 2	17,95	1191 00 44 2 HE4	
40	17,90	1191 00 45 2	20,60	1191 00 45 2 HE4	
50	19,70	1191 00 46 2	22,70	1191 00 46 2 HE4	
65	32,90	1191 00 09 2	37,85	1191 00 09 2 HE4	
80	45,50	1191 00 10 2	52,35	1191 00 10 2 HE4	
100	59,90	1191 00 12 2	68,90	1191 00 12 2 HE4	

Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	23,47	1111 00 04 2	25,82	1111 00 04 3	
15	23,47	1111 00 04 2	25,82	1111 00 04 3	
20	23,05	1111 00 07 2	25,36	1111 00 07 3	
25	23,05	1111 00 07 2	25,36	1111 00 07 3	
32	23,05	1111 00 07 2	25,36	1111 00 07 3	
40	24,18	1111 00 08 2	26,60	1111 00 08 3	
50	29,17	1111 00 59 2	32,09	1111 00 59 3	
65	26,84	1111 00 09 2	29,52	1111 00 09 3	
80	28,79	1111 00 10 2	31,67	1111 00 10 3	
100	37,40	1111 00 85 2	41,14	1111 00 85 3	

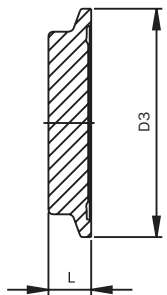
The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series A)



Blind Nut Clamp DIN

DN DIN	D3	L	Weight [kg]
10	34	13	0.04
15	34	13	0.04
20	50.5	13	0.10
25	50.5	13	0.10
32	50.5	13	0.10
40	64	13	0.15
50	77.5	15	0.22
65	91	15	0.29
80	106	15	0.41
100	130	15	0.53



Blind Liner Clamp DIN

DN DIN	D3	L	Weight [kg]
10	34	11.5	0.04
15	34	11.5	0.04
20	50.5	11.5	0.10
25	50.5	11.5	0.10
32	50.5	11.5	0.10
40	64	11.5	0.15
50	77.5	13.5	0.22
65	91	13.5	0.29
80	106	13.5	0.41
100	130	13.5	0.53

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series A)

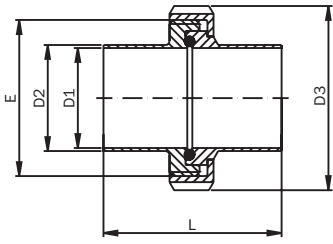
Blind Nut Clamp DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	9,00	1196 00 40 2	10,35	1196 00 40 2 HE4	
15	9,00	1196 00 41 2	10,35	1196 00 41 2 HE4	
20	12,10	1196 00 42 2	13,95	1196 00 42 2 HE4	
25	12,70	1196 00 43 2	14,65	1196 00 43 2 HE4	
32	14,10	1196 00 44 2	16,25	1196 00 44 2 HE4	
40	17,30	1196 00 45 2	19,90	1196 00 45 2 HE4	
50	25,30	1196 00 46 2	29,10	1196 00 46 2 HE4	
65	32,40	1196 00 09 2	37,30	1196 00 09 2 HE4	
80	37,20	1196 00 10 2	42,80	1196 00 10 2 HE4	
100	50,15	1196 00 12 2	57,70	1196 00 12 2 HE4	

Blind Liner Clamp DIN

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	8,80	1195 00 40 2	10,15	1195 00 40 2 HE4	
15	8,80	1195 00 41 2	10,15	1195 00 41 2 HE4	
20	11,00	1195 00 42 2	12,70	1195 00 42 2 HE4	
25	11,70	1195 00 43 2	13,50	1195 00 43 2 HE4	
32	12,25	1195 00 44 2	14,10	1195 00 44 2 HE4	
40	13,20	1195 00 45 2	15,20	1195 00 45 2 HE4	
50	22,25	1195 00 46 2	25,60	1195 00 46 2 HE4	
65	27,30	1195 00 09 2	31,40	1195 00 09 2 HE4	
80	37,40	1195 00 10 2	43,10	1195 00 10 2 HE4	
100	48,05	1195 00 12 2	55,30	1195 00 12 2 HE4	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series B)



Is delivered in parts!

Union ISO

DN ISO	D1	D2	D3	E	L	Weight [kg]
13.5	10.3	13.5	38	Rd 28 x 1/8"	76	0.15
17.2	14.0	17.2	44	Rd 34 x 1/8"	76	0.19
21.3	18.1	21.3	54	Rd 44 x 1/6"	78	0.27
26.9	23.7	26.9	63	Rd 52 x 1/6"	78	0.39
33.7	29.7	33.7	70	Rd 58 x 1/6"	88	0.52
42.4	38.4	42.4	78	Rd 65 x 1/6"	88	0.61
48.3	44.3	48.3	92	Rd 78 x 1/6"	90	0.81
60.3	56.3	60.3	112	Rd 95 x 1/6"	114	1.23
76.1	72.1	76.1	127	Rd 110 x 1/4"	117	1.86
88.9	84.3	88.9	148	Rd 130 x 1/4"	122	2.62

Male ISO

DN ISO	D1	D2	E	L	L1	Weight [kg]
13.5	10.3	13.5	Rd 28 x 1/8"	41	27	0.05
17.2	14.0	17.2	Rd 34 x 1/8"	41	27	0.07
21.3	18.1	21.3	Rd 44 x 1/6"	43	27	0.13
26.9	23.7	26.9	Rd 52 x 1/6"	43	27	0.16
33.7	29.7	33.7	Rd 58 x 1/6"	48	32	0.20
42.4	38.4	42.4	Rd 65 x 1/6"	48	32	0.23
48.3	44.3	48.3	Rd 78 x 1/6"	49	31	0.32
60.3	56.3	60.3	Rd 95 x 1/6"	60	40	0.49
76.1	72.1	76.1	Rd 110 x 1/4"	64	40	0.80
88.9	84.3	88.9	Rd 130 x 1/4"	64	40	0.97

Liner ISO

DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	21.9	39	27	0.03
17.2	14.0	17.2	27.9	39	27	0.04
21.3	18.1	21.3	35.9	40	27	0.06
26.9	23.7	26.9	42.9	41	27	0.10
33.7	29.7	33.7	48.9	47	32	0.14
42.4	38.4	42.4	54.9	47	32	0.16
48.3	44.3	48.3	66.9	48	31	0.24
60.3	56.3	60.3	84.9	62	40	0.41
76.1	72.1	76.1	98.9	61	40	0.51
88.9	84.3	88.9	118.9	68	40	0.85

Nut DIN 11851 with Undercut

DN ISO	D1	D3	E	L	L1	Weight [kg]
13.5	19	38	Rd 28 x 1/8"	18	15	0.07
17.2	25	44	Rd 34 x 1/8"	18	15	0.08
21.3	31	54	Rd 44 x 1/6"	20	17	0.13
26.9	36	63	Rd 52 x 1/6"	21	18	0.18
33.7	42	70	Rd 58 x 1/6"	21	18	0.22
42.4	49	78	Rd 65 x 1/6"	21	18	0.25
48.3	62	92	Rd 78 x 1/6"	22	19	0.33
60.3	80	112	Rd 95 x 1/6"	25	21	0.55
76.1	94	127	Rd 110 x 1/4"	29	25	0.80
88.9	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series B)

Union ISO

1.4404 (316L) / H3			
DN ISO	Price/EUR	Article No.	
13.5	35,04	112L 00 75 2/1	
17.2	37,83	112L 00 76 2/1	
21.3	40,74	112L 00 77 2/1	
26.9	43,39	112L 00 78 2/1	
33.7	49,13	112L 00 79 2/1	
42.4	51,71	112L 00 80 2/1	
48.3	61,20	112L 00 81 2/1	
60.3	86,14	112L 00 82 2/1	
76.1	112,25	112L 00 83 2/1	
88.9	142,40	112L 00 84 2/1	

Male ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	13,40	1121 00 75 2	16,75	1121 00 75 2 HE4	
17.2	13,60	1121 00 76 2	17,00	1121 00 76 2 HE4	
21.3	15,30	1121 00 77 2	19,15	1121 00 77 2 HE4	
26.9	17,55	1121 00 78 2	21,10	1121 00 78 2 HE4	
33.7	20,10	1121 00 79 2	24,15	1121 00 79 2 HE4	
42.4	21,40	1121 00 80 2	24,65	1121 00 80 2 HE4	
48.3	25,60	1121 00 81 2	30,75	1121 00 81 2 HE4	
60.3	35,60	1121 00 82 2	42,75	1121 00 82 2 HE4	
76.1	46,80	1121 00 83 2	56,20	1121 00 83 2 HE4	
88.9	58,00	1121 00 84 2	69,60	1121 00 84 2 HE4	

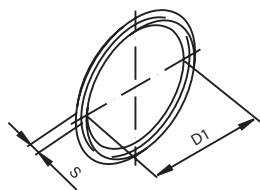
Liner ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	10,60	1123 00 75 2	13,25	1123 00 75 2 HE4	
17.2	11,40	1123 00 76 2	14,25	1123 00 76 2 HE4	
21.3	13,10	1123 00 77 2	16,40	1123 00 77 2 HE4	
26.9	13,60	1123 00 78 2	16,85	1123 00 78 2 HE4	
33.7	16,25	1123 00 79 2	19,50	1123 00 79 2 HE4	
42.4	17,20	1123 00 80 2	20,65	1123 00 80 2 HE4	
48.3	20,60	1123 00 81 2	24,75	1123 00 81 2 HE4	
60.3	30,25	1123 00 82 2	36,20	1123 00 82 2 HE4	
76.1	36,60	1123 00 83 2	43,95	1123 00 83 2 HE4	
88.9	47,70	1123 00 84 2	57,30	1123 00 84 2 HE4	

Nut DIN 11851 with Undercut

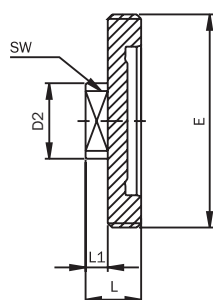
1.4307 (304) pol.			
DN ISO	Price/EUR	Article No.	
13.5	6,18	11003 000 010 10	
17.2	7,97	11003 000 015 10	
21.3	7,48	11003 000 020 10	
26.9	7,38	11003 000 025 10	
33.7	7,92	11003 000 032 10	
42.4	8,25	11003 000 040 10	
48.3	9,68	11003 000 050 10	
60.3	14,82	11003 000 065 10	
76.1	23,28	11003 000 080 10	
88.9	30,92	11003 000 100 10	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series B)



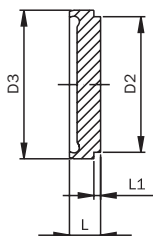
O-ring

DN ISO	D1	S
13.5	12	3.5
17.2	16	3.5
21.3	20	3.5
26.9	26	3.5
33.7	32	5
42.4	40.5	5
48.3	46.5	5
60.3	58.5	5
76.1	73.5	5
88.9	86.5	5
114.3	111	5



Blind Male ISO

DN ISO	D2	E	SW	L	L1	Weight [kg]
13.5	22	Rd 28 x 1/8"	17	24	12	0.07
17.2	22	Rd 34 x 1/8"	17	24	12	0.10
21.3	22	Rd 44 x 1/6"	17	24	10	0.16
26.9	40	Rd 52 x 1/6"	27	24	10	0.23
33.7	40	Rd 58 x 1/6"	27	24	10	0.25
42.4	40	Rd 65 x 1/6"	27	24	10	0.30
48.3	40	Rd 78 x 1/6"	27	24	10	0.39
60.3	48	Rd 95 x 1/6"	32	28	12	0.60
76.1	48	Rd 110 x 1/4"	32	28	8	1.07
88.9	48	Rd 130 x 1/4"	32	30	10	1.27



Blind Liner ISO

DN ISO	D3	D2	L	L1	Weight [kg]
13.5	21.9	18	9	3	0.02
17.2	27.9	24	9	3	0.03
21.3	35.9	30	10	3	0.06
26.9	42.9	35	12	3	0.10
33.7	48.9	41	13	3	0.13
42.4	54.9	48	13	3	0.16
48.3	66.9	61	14	3	0.27
60.3	84.9	79	16	4	0.52
76.1	98.9	93	16	4	0.70
88.9	118.9	114	20	5	1.37

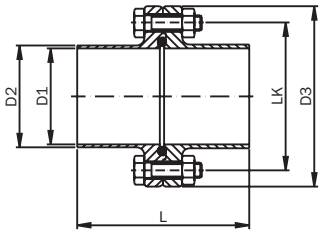
Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series B)

O-ring								
EPDM			FKM			PTFE		
DN ISO	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
13.5	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
17.2	4,86	1129 00 76 1	9,71	1129 00 76 2	4,86	11,18	1129 00 76 4	6,32
21.3	4,86	1129 00 77 1	9,71	1129 00 77 2	4,86	11,18	1129 00 77 4	6,32
26.9	4,86	1129 00 78 1	9,71	1129 00 78 2	4,86	11,18	1129 00 78 4	6,32
33.7	4,86	1129 00 79 1	9,71	1129 00 79 2	4,86	11,18	1129 00 79 4	6,32
42.4	4,86	1129 00 80 1	9,71	1129 00 80 2	4,86	11,18	1129 00 80 4	6,32
48.3	5,32	1129 00 81 1	10,63	1129 00 81 2	5,32	12,24	1129 00 81 4	6,92
60.3	5,47	1129 00 82 1	10,94	1129 00 82 2	5,47	12,58	1129 00 82 4	7,11
76.1	5,57	1129 00 83 1	11,15	1129 00 83 2	5,57	12,81	1129 00 83 4	7,24
88.9	5,78	1129 00 84 1	11,56	1129 00 84 2	5,78	13,29	1129 00 84 4	7,51
114.3	6,85	1129 00 85 1	13,70	1129 00 85 2	6,85	15,76	1129 00 85 4	8,91

Blind Male ISO					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	18,25	1127 00 75 2	22,85	1127 00 75 2 HE4	
17.2	19,00	1127 00 76 2	23,75	1127 00 76 2 HE4	
21.3	20,70	1127 00 77 2	25,90	1127 00 77 2 HE4	
26.9	22,60	1127 00 78 2	27,15	1127 00 78 2 HE4	
33.7	24,10	1127 00 79 2	28,95	1127 00 79 2 HE4	
42.4	26,30	1127 00 80 2	31,60	1127 00 80 2 HE4	
48.3	37,10	1127 00 81 2	44,55	1127 00 81 2 HE4	
60.3	47,00	1127 00 82 2	56,40	1127 00 82 2 HE4	
76.1	56,00	1127 00 83 2	67,20	1127 00 83 2 HE4	
88.9	73,60	1127 00 84 2	88,35	1127 00 84 2 HE4	

Blind Liner ISO					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	9,30	1125 00 75 2	11,65	1125 00 75 2 HE4	
17.2	9,30	1125 00 76 2	11,65	1125 00 76 2 HE4	
21.3	9,20	1125 00 77 2	11,05	1125 00 77 2 HE4	
26.9	10,70	1125 00 78 2	12,85	1125 00 78 2 HE4	
33.7	11,50	1125 00 79 2	13,80	1125 00 79 2 HE4	
42.4	13,00	1125 00 80 2	15,60	1125 00 80 2 HE4	
48.3	20,90	1125 00 81 2	25,10	1125 00 81 2 HE4	
60.3	26,90	1125 00 82 2	32,30	1125 00 82 2 HE4	
76.1	29,60	1125 00 83 2	35,55	1125 00 83 2 HE4	
88.9	45,80	1125 00 84 2	55,10	1125 00 84 2 HE4	

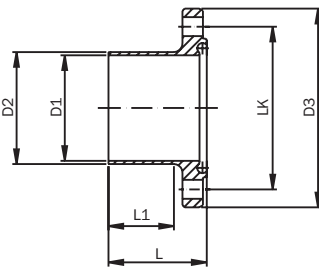
Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series B)



Is delivered in parts!

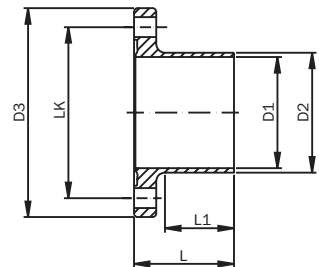
Flange Connection ISO

DN ISO	D1	D2	D3	LK	L	Weight [kg]
13.5	10.3	13.5	54	37 4/M8 x 30	80	0.33
17.2	14.0	17.2	59	42 4/M8 x 30	80	0.39
21.3	18.1	21.3	62	45 4/M8 x 30	80	0.43
26.9	23.7	26.9	69	52 4/M8 x 30	80	0.53
33.7	29.7	33.7	74	57 4/M8 x 30	90	0.63
42.4	38.4	42.4	82	65 4/M8 x 30	90	0.74
48.3	44.3	48.3	88	71 4/M8 x 30	90	0.82
60.3	56.3	60.3	103	85 4/M8 x 30	108	1.12
76.1	72.1	76.1	125	104 8/M10 x 35	112	1.66
88.9	84.3	88.9	137	116 8/M10 x 35	116	2.01
114.3	109.7	114.3	168	146 8/M10 x 40	116	3.25



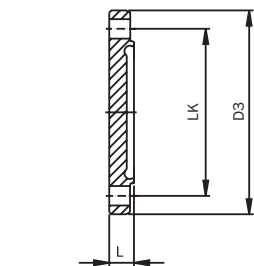
Nut Flange ISO

DN ISO	D1	D2	D3	LK	L	L1	Weight [kg]
13.5	10.3	13.5	54	37 4 x Ø 9	41,5	26	0.17
17.2	14.0	17.2	59	42 4 x Ø 9	41,5	26	0.21
21.3	18.1	21.3	62	45 4 x Ø 9	41,5	26	0.22
26.9	23.7	26.9	69	52 4 x Ø 9	41,5	26	0.27
33.7	29.7	33.7	74	57 4 x Ø 9	46,5	31	0.32
42.4	38.4	42.4	82	65 4 x Ø 9	46,5	31	0.38
48.3	44.3	48.3	88	71 4 x Ø 9	46,5	31	0.42
60.3	56.3	60.3	103	85 4 x Ø 9	55,5	42	0.57
76.1	72.1	76.1	125	104 8 x Ø 11	57,5	42	0.89
88.9	84.3	88.9	137	116 8 x Ø 11	59,5	42	1.02
114.3	109.7	114.3	168	146 8 x Ø 11	59,5	42	1.64



Liner Flange ISO

DN ISO	D1	D2	D3	LK	L	L1	Weight [kg]
13.5	10.3	13.5	54	37 4 x Ø 9	40	26	0.15
17.2	14.0	17.2	59	42 4 x Ø 9	40	26	0.18
21.3	18.1	21.3	62	45 4 x Ø 9	40	26	0.21
26.9	23.7	26.9	69	52 4 x Ø 9	40	26	0.26
33.7	29.7	33.7	74	57 4 x Ø 9	45	31	0.31
42.4	38.4	42.4	82	65 4 x Ø 9	45	31	0.36
48.3	44.3	48.3	88	71 4 x Ø 9	45	31	0.40
60.3	56.3	60.3	103	85 4 x Ø 9	54	42	0.55
76.1	72.1	76.1	125	104 8 x Ø 11	56	42	0.77
88.9	84.3	88.9	137	116 8 x Ø 11	58	42	0.99
114.3	109.7	114.3	168	146 8 x Ø 11	58	42	1.60



Blind Nut Flange ISO

DN ISO	D3	LK	L	Weight [kg]
13.5	54	37 4 x Ø 9	11.5	0.16
17.2	59	42 4 x Ø 9	11.5	0.19
21.3	62	45 4 x Ø 9	11.5	0.21
26.9	69	52 4 x Ø 9	11.5	0.27
33.7	74	57 4 x Ø 9	11.5	0.30
42.4	82	65 4 x Ø 9	11.5	0.36
48.3	88	71 4 x Ø 9	11.5	0.42
60.3	103	85 4 x Ø 9	11.5	0.58
76.1	125	104 8 x Ø 11	13.5	1.00
88.9	137	116 8 x Ø 11	13.5	1.20
114.3	168	146 8 x Ø 11	15.5	2.17

Flange Connections DIN 11864-2 Form A for Tubes acc. to DIN 11866 (series B)

Flange Connection ISO

1.4404 (316L) / H3			
DN ISO	Price/EUR	Article No.	
13.5	45,81	113L 00 75 2/1	
17.2	47,01	113L 00 76 2/1	
21.3	50,51	113L 00 77 2/1	
26.9	50,71	113L 00 78 2/1	
33.7	52,91	113L 00 79 2/1	
42.4	60,86	113L 00 80 2/1	
48.3	64,22	113L 00 81 2/1	
60.3	80,42	113L 00 82 2/1	
76.1	110,42	113L 00 83 2/1	
88.9	132,97	113L 00 84 2/1	
114.3	174,55	113L 00 85 2/1	

Nut Flange ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	20,10	1131 00 75 2	24,15	1131 00 75 2 HE4	
17.2	20,50	1131 00 76 2	24,60	1131 00 76 2 HE4	
21.3	22,10	1131 00 77 2	26,55	1131 00 77 2 HE4	
26.9	22,30	1131 00 78 2	26,80	1131 00 78 2 HE4	
33.7	23,50	1131 00 79 2	27,05	1131 00 79 2 HE4	
42.4	27,45	1131 00 80 2	31,60	1131 00 80 2 HE4	
48.3	28,40	1131 00 81 2	32,70	1131 00 81 2 HE4	
60.3	37,10	1131 00 82 2	42,70	1131 00 82 2 HE4	
76.1	49,85	1131 00 83 2	57,35	1131 00 83 2 HE4	
88.9	60,50	1131 00 84 2	69,60	1131 00 84 2 HE4	
114.3	81,20	1131 00 85 2	97,45	1131 00 85 2 HE4	

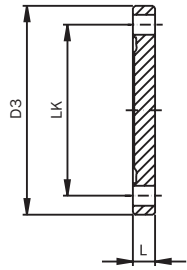
Liner Flange ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	19,30	1133 00 75 2	23,20	1133 00 75 2 HE4	
17.2	20,10	1133 00 76 2	24,15	1133 00 76 2 HE4	
21.3	22,00	1133 00 77 2	26,40	1133 00 77 2 HE4	
26.9	22,00	1133 00 78 2	26,40	1133 00 78 2 HE4	
33.7	23,00	1133 00 79 2	26,95	1133 00 79 2 HE4	
42.4	27,00	1133 00 80 2	31,05	1133 00 80 2 HE4	
48.3	28,95	1133 00 81 2	33,30	1133 00 81 2 HE4	
60.3	36,30	1133 00 82 2	41,75	1133 00 82 2 HE4	
76.1	49,10	1133 00 83 2	56,50	1133 00 83 2 HE4	
88.9	60,50	1133 00 84 2	69,60	1133 00 84 2 HE4	
114.3	80,10	1133 00 85 2	96,15	1133 00 85 2 HE4	

Blind Nut Flange ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	17,70	1135 00 75 2	21,25	1135 00 75 2 HE4	
17.2	17,70	1135 00 76 2	21,25	1135 00 76 2 HE4	
21.3	17,70	1135 00 77 2	21,25	1135 00 77 2 HE4	
26.9	19,90	1135 00 78 2	22,90	1135 00 78 2 HE4	
33.7	20,80	1135 00 79 2	25,95	1135 00 79 2 HE4	
42.4	24,50	1135 00 80 2	28,20	1135 00 80 2 HE4	
48.3	26,70	1135 00 81 2	30,75	1135 00 81 2 HE4	
60.3	32,30	1135 00 82 2	37,15	1135 00 82 2 HE4	
76.1	45,20	1135 00 83 2	52,10	1135 00 83 2 HE4	
88.9	50,70	1135 00 84 2	58,35	1135 00 84 2 HE4	
114.3	67,20	1135 00 85 2	80,65	1135 00 85 2 HE4	

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series B)

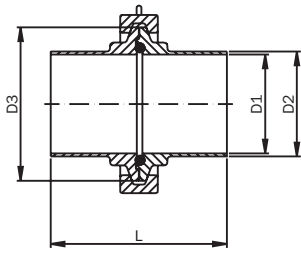


Blind Liner Flange ISO					
DN ISO	D3	LK		L	Weight [kg]
13.5	54	37	4 x Ø 9	10	0.16
17.2	59	42	4 x Ø 9	10	0.19
21.3	62	45	4 x Ø 9	10	0.21
26.9	69	52	4 x Ø 9	10	0.26
33.7	74	57	4 x Ø 9	10	0.30
42.4	82	65	4 x Ø 9	10	0.37
48.3	88	71	4 x Ø 9	10	0.42
60.3	103	85	4 x Ø 9	10	0.59
76.1	125	104	8 x Ø 11	12	1.01
88.9	137	116	8 x Ø 11	12	1.22
114.3	168	146	8 x Ø 11	14	2.21

Flange Connections DIN 11864-2 Form A for Tubes acc. to DIN 11866 (series B)

Blind Liner Flange ISO					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	15,40	1137 00 75 2	18,50	1137 00 75 2 HE4	
17.2	15,40	1137 00 76 2	18,50	1137 00 76 2 HE4	
21.3	15,40	1137 00 77 2	18,50	1137 00 77 2 HE4	
26.9	19,45	1137 00 78 2	22,40	1137 00 78 2 HE4	
33.7	20,70	1137 00 79 2	24,85	1137 00 79 2 HE4	
42.4	23,40	1137 00 80 2	26,95	1137 00 80 2 HE4	
48.3	25,70	1137 00 81 2	29,60	1137 00 81 2 HE4	
60.3	31,10	1137 00 82 2	35,80	1137 00 82 2 HE4	
76.1	43,70	1137 00 83 2	50,30	1137 00 83 2 HE4	
88.9	48,40	1137 00 84 2	55,70	1137 00 84 2 HE4	
114.3	48,90	1137 00 85 2	58,70	1137 00 85 2 HE4	

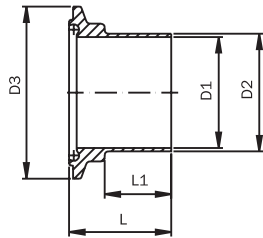
Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series B)



Is delivered in parts!

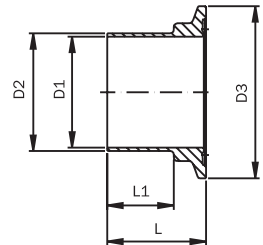
Clamp Connection ISO

DN ISO	D1	D2	D3	L	Weight [kg]
13.5	10.3	13.5	34	76	0.18
17.2	14.0	17.2	34	76	0.18
21.3	18.1	21.3	34	78	0.22
26.9	23.7	26.9	50.5	78	0.47
33.7	29.7	33.7	50.5	88	0.46
42.4	38.4	42.4	64	88	0.50
48.3	44.3	48.3	64	90	0.60
60.3	56.3	60.3	91	114	1.04
76.1	72.1	76.1	106	117	1.25
88.9	84.3	88.9	119	122	1.33



Clamp Nut ISO

DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	34	39.5	26	0.05
17.2	14.0	17.2	34	39.5	26	0.05
21.3	18.1	21.3	34	40.5	26	0.09
26.9	23.7	26.9	50.5	40.0	30	0.09
33.7	29.7	33.7	50.5	45.5	30	0.09
42.4	38.4	42.4	64	45.5	30	0.14
48.3	44.3	48.3	64	46.5	30	0.18
60.3	56.3	60.3	91	58.5	40	0.28
76.1	72.1	76.1	106	60.0	40	0.34
88.9	84.3	88.9	119	62.5	40	0.37

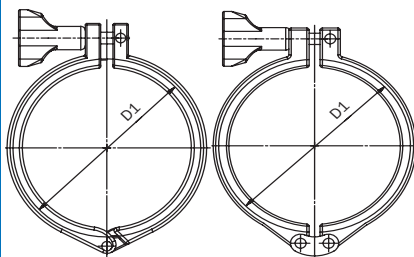


Clamp Liner ISO

DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	34	38	26	0.04
17.2	14.0	17.2	34	38	26	0.04
21.3	18.1	21.3	34	39	26	0.04
26.9	23.7	26.9	50.5	39	30	0.08
33.7	29.7	33.7	50.5	44	30	0.08
42.4	38.4	42.4	64	44	30	0.12
48.3	44.3	48.3	64	45	30	0.11
60.3	56.3	60.3	91	57	40	0.22
76.1	72.1	76.1	106	58.5	40	0.32
88.9	84.3	88.9	119	61	40	0.36

Heavy Duty Clamp

DN ISO	D1	SP Weight [kg]	DP Weight [kg]
13.5	34	0.213	0.192
17.2	34	0.213	0.192
21.3	34	0.213	0.192
26.9	50.5	0.234	0.334
33.7	50.5	0.234	0.334
42.4	64	0.312	0.404
48.3	64	0.312	0.404
60.3	91	0.343	0.506
76.1	106	0.451	0.562
88.9	119	0.469	0.580



Applicable professional rules, regulations and norms are to be observed

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series B)

Clamp Connection ISO

1.4404 (316L) / H3			
DN ISO	Price/EUR	Article No.	
13.5	52,43	119L 00 75 2/1	
17.2	52,78	119L 00 76 2/1	
21.3	52,78	119L 00 77 2/1	
26.9	60,21	119L 00 78 2/1	
33.7	62,26	119L 00 79 2/1	
42.4	66,44	119L 00 80 2/1	
48.3	71,00	119L 00 81 2/1	
60.3	80,46	119L 00 82 2/1	
76.1	108,96	119L 00 83 2/1	
88.9	136,24	119L 00 84 2/1	

Clamp Nut ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	12,30	1193 00 75 2	14,15	1193 00 75 2 HE4	
17.2	12,65	1193 00 76 2	14,55	1193 00 76 2 HE4	
21.3	12,65	1193 00 77 2	14,55	1193 00 77 2 HE4	
26.9	16,70	1193 00 78 2	19,25	1193 00 78 2 HE4	
33.7	17,85	1193 00 79 2	20,53	1193 00 79 2 HE4	
42.4	19,45	1193 00 80 2	22,40	1193 00 80 2 HE4	
48.3	21,80	1193 00 81 2	25,10	1193 00 81 2 HE4	
60.3	25,10	1193 00 82 2	28,90	1193 00 82 2 HE4	
76.1	37,40	1193 00 83 2	43,10	1193 00 83 2 HE4	
88.9	50,50	1193 00 84 2	58,10	1193 00 84 2 HE4	

Clamp Liner ISO

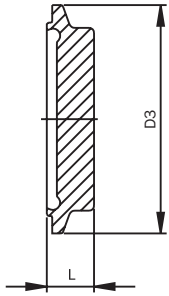
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	11,80	1191 00 75 2	13,60	1191 00 75 2 HE4	
17.2	11,80	1191 00 76 2	13,60	1191 00 76 2 HE4	
21.3	11,80	1191 00 77 2	13,60	1191 00 77 2 HE4	
26.9	15,60	1191 00 78 2	17,95	1191 00 78 2 HE4	
33.7	16,50	1191 00 79 2	19,10	1191 00 79 2 HE4	
42.4	17,95	1191 00 80 2	20,65	1191 00 80 2 HE4	
48.3	19,70	1191 00 81 2	22,70	1191 00 81 2 HE4	
60.3	23,05	1191 00 82 2	26,55	1191 00 82 2 HE4	
76.1	37,20	1191 00 83 2	44,65	1191 00 83 2 HE4	
88.9	50,05	1191 00 84 2	57,60	1191 00 84 2 HE4	

Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	23,47	1111 00 04 2	25,82	1111 00 04 3	
17.2	23,47	1111 00 04 2	25,82	1111 00 04 3	
21.3	23,47	1111 00 04 2	25,36	1111 00 04 3	
26.9	23,05	1111 00 07 2	25,36	1111 00 07 3	
33.7	23,05	1111 00 07 2	25,36	1111 00 07 3	
42.4	24,18	1111 00 08 2	26,60	1111 00 08 3	
48.3	24,18	1111 00 08 2	32,09	1111 00 08 3	
60.3	26,84	1111 00 09 2	29,52	1111 00 09 3	
76.1	28,79	1111 00 10 2	31,67	1111 00 10 3	
88.9	29,91	1111 00 12 2	41,14	1111 00 12 3	

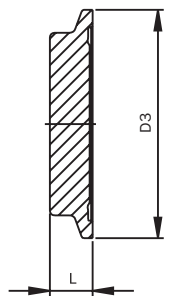
The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series B)



Blind Nut Clamp ISO

DN ISO	D3	L	Weight [kg]
13.5	34	13	0.04
17.2	34	13	0.04
21.3	34	13	0.10
26.9	50.5	13	0.10
33.7	50.5	13	0.10
42.4	64	13	0.15
48.3	64	13	0.22
60.3	91	15	0.29
76.1	106	15	0.41
88.9	119	15	0.53



Blind Liner Clamp ISO

DN ISO	D3	L	Weight [kg]
13.5	34	11.5	0.04
17.2	34	11.5	0.04
21.3	34	11.5	0.10
26.9	50.5	11.5	0.10
33.7	50.5	11.5	0.10
42.4	64	11.5	0.15
48.3	64	11.5	0.22
60.3	91	13.5	0.29
76.1	106	13.5	0.41
88.9	119	13.5	0.53

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series B)

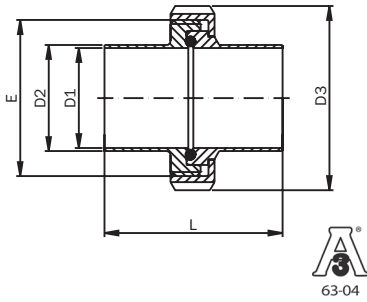
Blind Nut Clamp ISO

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	9,10	1196 00 75 2	10,50	1196 00 75 2 HE4	
17.2	9,10	1196 00 76 2	10,50	1196 00 76 2 HE4	
21.3	11,00	1196 00 77 2	12,65	1196 00 77 2 HE4	
26.9	12,10	1196 00 78 2	13,95	1196 00 78 2 HE4	
33.7	12,70	1196 00 79 2	14,65	1196 00 79 2 HE4	
42.4	14,70	1196 00 80 2	16,95	1196 00 80 2 HE4	
48.3	17,30	1196 00 81 2	20,05	1196 00 81 2 HE4	
60.3	28,00	1196 00 82 2	32,20	1196 00 82 2 HE4	
76.1	36,80	1196 00 83 2	42,35	1196 00 83 2 HE4	
88.9	41,80	1196 00 84 2	48,10	1196 00 84 2 HE4	

Blind Liner Clamp ISO

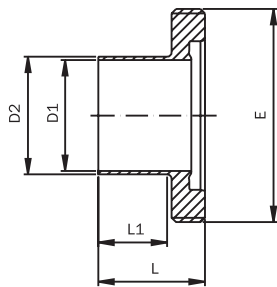
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	10,00	1195 00 75 2	11,50	1195 00 75 2 HE4	
17.2	10,00	1195 00 76 2	11,50	1195 00 76 2 HE4	
21.3	10,60	1195 00 77 2	12,20	1195 00 77 2 HE4	
26.9	11,00	1195 00 78 2	12,70	1195 00 78 2 HE4	
33.7	11,70	1195 00 79 2	13,50	1195 00 79 2 HE4	
42.4	14,20	1195 00 80 2	16,35	1195 00 80 2 HE4	
48.3	14,20	1195 00 81 2	16,35	1195 00 81 2 HE4	
60.3	28,30	1195 00 82 2	32,55	1195 00 82 2 HE4	
76.1	34,40	1195 00 83 2	39,60	1195 00 83 2 HE4	
88.9	40,20	1195 00 84 2	46,25	1195 00 84 2 HE4	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)

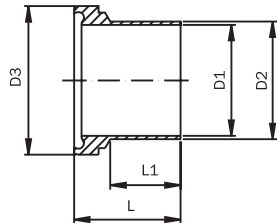


Is delivered in parts!

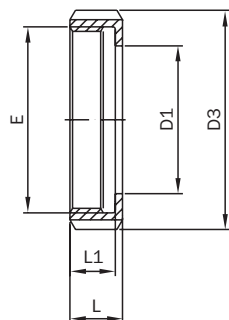
Union Inch						
DN Inch	D1	D2	D3	E	L	Weight [kg]
1/2"	9.4	12.7	38	Rd 28 x 1/8"	76	0.28
3/4"	15.75	19.05	44	Rd 34 x 1/8"	76	0.36
1"	22.1	25.4	63	Rd 52 x 1/6"	77	0.49
1 1/2"	34.8	38.1	78	Rd 65 x 1/6"	88	0.63
2"	47.5	50.8	92	Rd 78 x 1/6"	89	0.82
2 1/2"	60.2	63.5	112	Rd 95 x 1/6"	115	1.37
3"	72.9	76.2	127	Rd 110 x 1/4"	117	1.98
4"	97.38	101.6	148	Rd 130 x 1/4"	119	2.52



Male Inch						
DN Inch	D1	D2	E	L	L1	Weight [kg]
1/2"	9.4	12.7	Rd 28 x 1/8"	41	27	0.05
3/4"	15.75	19.05	Rd 34 x 1/8"	41	27	0.07
1"	22.1	25.4	Rd 52 x 1/6"	43	26	0.17
1 1/2"	34.8	38.1	Rd 65 x 1/6"	48.5	30	0.23
2"	47.5	50.8	Rd 78 x 1/6"	48.5	30	0.29
2 1/2"	60.2	63.5	Rd 95 x 1/6"	60	40	0.46
3"	72.9	76.2	Rd 110 x 1/4"	64	40	0.73
4"	97.38	101.6	Rd 130 x 1/4"	64	40	0.82



Liner Inch						
DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	21.9	39	27	0.10
3/4"	15.75	19.05	27.9	39	27	0.11
1"	22.1	25.4	42.9	40	26	0.10
1 1/2"	34.8	38.1	54.9	46.5	30	0.15
2"	47.5	50.8	66.9	47.5	30	0.21
2 1/2"	60.2	63.5	84.9	63	40	0.36
3"	72.9	76.2	98.9	61	40	0.45
4"	97.38	101.6	118.9	65	40	0.62



Nut DIN 11851 with Undercut						
DN Inch	D1	D3	E	L	L1	Weight [kg]
1/2"	19	38	Rd 28 x 1/8"	18	15	0.07
3/4"	25	44	Rd 34 x 1/8"	18	15	0.08
1"	36	63	Rd 52 x 1/6"	21	18	0.18
1 1/2"	49	78	Rd 65 x 1/6"	21	18	0.25
2"	62	92	Rd 78 x 1/6"	22	19	0.33
2 1/2"	80	112	Rd 95 x 1/6"	25	21	0.55
3"	94	127	Rd 110 x 1/4"	29	25	0.80
4"	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)

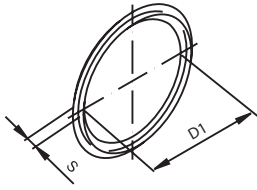
Union Inch			
1.4404 (316L) / H3			
DN Inch	Price/EUR	Article No.	
1/2"	35,54	112L 00 89 2/1	
3/4"	39,13	112L 00 90 2/1	
1"	41,64	112L 00 91 2/1	
1 1/2"	48,31	112L 00 92 2/1	
2"	57,40	112L 00 93 2/1	
2 1/2"	85,79	112L 00 94 2/1	
3"	120,30	112L 00 95 2/1	
4"	153,50	112L 00 96 2/1	

Male Inch					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	14,10	1121 00 89 2	17,65	1121 00 89 2 HE4	
3/4"	15,00	1121 00 90 2	18,75	1121 00 90 2 HE4	
1"	15,40	1121 00 91 2	19,25	1121 00 91 2 HE4	
1 1/2"	18,30	1121 00 92 2	21,95	1121 00 92 2 HE4	
2"	23,05	1121 00 93 2	27,65	1121 00 93 2 HE4	
2 1/2"	37,00	1121 00 94 2	44,40	1121 00 94 2 HE4	
3"	46,80	1121 00 95 2	56,10	1121 00 95 2 HE4	
4"	65,70	1121 00 96 2	78,85	1121 00 96 2 HE4	

Liner Inch					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	10,40	1123 00 89 2	13,00	1123 00 89 2 HE4	
3/4"	11,30	1123 00 90 2	14,15	1123 00 90 2 HE4	
1"	14,00	1123 00 91 2	16,80	1123 00 91 2 HE4	
1 1/2"	16,90	1123 00 92 2	20,30	1123 00 92 2 HE4	
2"	19,35	1123 00 93 2	23,25	1123 00 93 2 HE4	
2 1/2"	28,45	1123 00 94 2	34,15	1123 00 94 2 HE4	
3"	44,70	1123 00 95 2	53,65	1123 00 95 2 HE4	
4"	51,00	1123 00 96 2	61,20	1123 00 96 2 HE4	

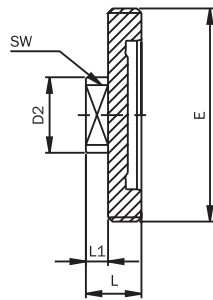
Nut DIN 11851 with Undercut			
1.4307 (304L) pol.			
DN Inch	Price/EUR	Article No.	
1/2"	6,18	11003 000 010 10	
3/4"	7,97	11003 000 015 10	
1"	7,38	11003 000 025 10	
1 1/2"	8,25	11003 000 040 10	
2"	9,68	11003 000 050 10	
2 1/2"	14,82	11003 000 065 10	
3"	23,28	11003 000 080 10	
4"	30,92	11003 000 100 10	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)



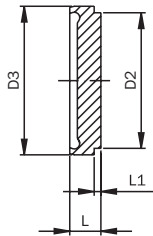
O-ring

DN Inch	D1	S
1/2"	12	3.5
3/4"	18	3.5
1"	24	3.5
1 1/2"	37	5
2"	50	5
2 1/2"	62	5
3"	75	5
4"	100	5



Blind Male Inch

DN Inch	D2	E	SW	L	L1	Weight [kg]
1/2"	22	Rd 28 x 1/8"	17	24	12	0.07
3/4"	22	Rd 34 x 1/8"	17	24	12	0.10
1"	40	Rd 52 x 1/6"	27	24	10	0.23
1 1/2"	40	Rd 65 x 1/6"	27	24	10	0.30
2"	40	Rd 78 x 1/6"	27	24	10	0.39
2 1/2"	48	Rd 95 x 1/6"	32	28	12	0.60
3"	48	Rd 110 x 1/4"	32	28	12	1.07
4"	48	Rd 130 x 1/4"	32	30	10	1.27



Blind Liner Inch

DN Inch	D3	D2	L	L1	Weight [kg]
1/2"	21.9	18	9	3	0.02
3/4"	27.9	24	9	3	0.03
1"	42.9	35	12	3	0.10
1 1/2"	54.9	48	13	3	0.16
2"	66.9	61	14	3	0.27
2 1/2"	84.9	79	16	4	0.52
3"	98.9	93	16	4	0.70
4"	118.9	114	20	5	1.37



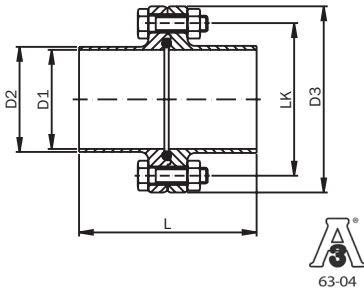
Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)

O-ring								
EPDM			FKM			PTFE		
DN Inch	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
1/2"	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
3/4"	4,86	1129 00 41 1	9,71	1129 00 41 2	4,86	11,18	1129 00 41 4	6,32
1"	4,86	1129 00 91 1	9,71	1129 00 91 2	4,86	11,18	1129 00 91 4	6,32
1 1/2"	4,86	1129 00 92 1	9,71	1129 00 92 2	4,86	11,18	1129 00 92 4	6,32
2"	5,32	1129 00 93 1	10,63	1129 00 93 2	5,32	12,24	1129 00 93 4	6,92
2 1/2"	5,52	1129 00 94 1	11,04	1129 00 94 2	5,52	12,70	1129 00 94 4	7,18
3"	5,52	1129 00 95 1	11,04	1129 00 95 2	5,52	12,70	1129 00 95 4	7,18
4"	5,88	1129 00 96 1	11,76	1129 00 96 2	5,88	13,52	1129 00 96 4	7,64

Blind Male Inch					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	18,80	1127 00 89 2	23,50	1127 00 89 2 HE4	
3/4"	18,90	1127 00 90 2	23,65	1127 00 90 2 HE4	
1"	22,80	1127 00 91 2	27,40	1127 00 91 2 HE4	
1 1/2"	26,10	1127 00 92 2	31,35	1127 00 92 2 HE4	
2"	36,80	1127 00 93 2	44,20	1127 00 93 2 HE4	
2 1/2"	46,60	1127 00 94 2	55,95	1127 00 94 2 HE4	
3"	55,50	1127 00 95 2	66,60	1127 00 95 2 HE4	
4"	72,80	1127 00 96 2	87,40	1127 00 96 2 HE4	

Blind Liner Inch					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	9,30	1125 00 89 2	11,65	1125 00 89 2 HE4	
3/4"	9,30	1125 00 90 2	11,65	1125 00 90 2 HE4	
1"	10,70	1125 00 91 2	12,85	1125 00 91 2 HE4	
1 1/2"	13,30	1125 00 92 2	16,05	1125 00 92 2 HE4	
2"	20,80	1125 00 93 2	25,10	1125 00 93 2 HE4	
2 1/2"	27,00	1125 00 94 2	32,40	1125 00 94 2 HE4	
3"	32,40	1125 00 95 2	38,90	1125 00 95 2 HE4	
4"	46,10	1125 00 96 2	55,35	1125 00 96 2 HE4	

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series C)



Is delivered in parts!

Flange Connection Inch

DN Inch	D1	D2	D3	LK	L	Weight [kg]
1/2"	9.4	12.7	54	37 4/M8 x 30	80	0.33
3/4"	15.75	19.05	59	42 4/M8 x 30	80	0.39
1"	22.1	25.4	66	49 4/M8 x 30	80	0.48
1 1/2"	34.8	38.1	79	62 4/M8 x 30	90	0.67
2"	47.5	50.8	92	75 4/M8 x 30	90	0.85
2 1/2"	60.2	63.5	107	89 8/M8 x 30	108	1.08
3"	72.9	76.2	125	104 8/M10 x 35	112	1.62
4"	97.38	101.6	157	135 8/M10 x 40	116	2.85

Nut Flange Inch

DN Inch	D1	D2	D3	LK	L	L1	Weight [kg]
1/2"	9.4	12.7	54	37 4 x Ø 9	41.5	26	0.15
3/4"	15.75	19.05	59	42 4 x Ø 9	41.5	26	0.21
1"	22.1	25.4	66	49 4 x Ø 9	41.5	26	0.24
1 1/2"	34.8	38.1	79	62 4 x Ø 9	46.5	31	0.34
2"	47.5	50.8	92	75 4 x Ø 9	46.5	31	0.44
2 1/2"	60.2	63.5	107	89 8 x Ø 9	55.5	42	0.56
3"	72.9	76.2	125	104 8 x Ø 11	57.5	42	0.83
4"	97.38	101.6	157	135 8 x Ø 11	59.5	42	1.45

Liner Flange Inch

DN Inch	D1	D2	D3	LK	L	L1	Weight [kg]
1/2"	9.4	12.7	54	37 4 x Ø 9	40	26	0.16
3/4"	15.75	19.05	59	42 4 x Ø 9	40	26	0.20
1"	22.1	25.4	66	49 4 x Ø 9	40	26	0.24
1 1/2"	34.8	38.1	79	62 4 x Ø 9	45	31	0.33
2"	47.5	50.8	92	75 4 x Ø 9	45	31	0.41
2 1/2"	60.2	63.5	107	89 8 x Ø 9	54	42	0.53
3"	72.9	76.2	125	104 8 x Ø 11	56	42	0.80
4"	97.38	101.6	157	135 8 x Ø 11	58	42	1.41

Blind Nut Flange Inch

DN Inch	D3	LK	L	Weight [kg]
1/2"	54	37 4 x Ø 9	11.5	0.18
3/4"	59	42 4 x Ø 9	11.5	0.22
1"	66	49 4 x Ø 9	11.5	0.24
1 1/2"	79	62 4 x Ø 9	11.5	0.34
2"	92	75 4 x Ø 9	11.5	0.46
2 1/2"	107	89 8 x Ø 9	11.5	0.60
3"	125	104 8 x Ø 11	13.5	1.00
4"	157	135 8 x Ø 11	15.5	1.90

Flange Connections DIN 11864-2 for Tubes acc. to DIN 11866 (series C)

Flange Connection Inch

1.4404 (316L) / H3			
DN Inch	Price/EUR	Article No.	
1/2"	50,51	113L 00 89 2/1	
3/4"	52,11	113L 00 90 2/1	
1"	52,11	113L 00 91 2/1	
1 1/2"	59,01	113L 00 92 2/1	
2"	62,27	113L 00 93 2/1	
2 1/2"	92,87	113L 00 94 2/1	
3"	137,92	113L 00 95 2/1	
4"	151,78	113L 00 96 2/1	

Nut Flange Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	22,20	1131 00 89 2	26,65	1131 00 89 2 HE4	
3/4"	22,20	1131 00 90 2	26,65	1131 00 90 2 HE4	
1"	22,20	1131 00 91 2	26,65	1131 00 91 2 HE4	
1 1/2"	26,50	1131 00 92 2	30,50	1131 00 92 2 HE4	
2"	27,90	1131 00 93 2	32,10	1131 00 93 2 HE4	
2 1/2"	42,30	1131 00 94 2	48,65	1131 00 94 2 HE4	
3"	61,40	1131 00 95 2	70,65	1131 00 95 2 HE4	
4"	68,50	1131 00 96 2	78,80	1131 00 96 2 HE4	

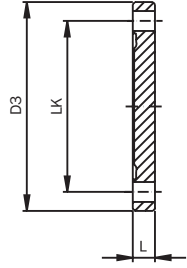
Liner Flange Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	21,90	1133 00 89 2	26,30	1133 00 89 2 HE4	
3/4"	23,50	1133 00 90 2	28,20	1133 00 90 2 HE4	
1"	23,50	1133 00 91 2	28,20	1133 00 91 2 HE4	
1 1/2"	26,10	1133 00 92 2	30,05	1133 00 92 2 HE4	
2"	27,50	1133 00 93 2	31,65	1133 00 93 2 HE4	
2 1/2"	42,00	1133 00 94 2	48,30	1133 00 94 2 HE4	
3"	65,10	1133 00 95 2	74,90	1133 00 95 2 HE4	
4"	71,00	1133 00 96 2	81,65	1133 00 96 2 HE4	

Blind Nut Flange Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	17,70	1135 00 89 2	21,25	1135 00 89 2 HE4	
3/4"	17,70	1135 00 90 2	21,25	1135 00 90 2 HE4	
1"	19,50	1135 00 91 2	22,45	1135 00 91 2 HE4	
1 1/2"	22,20	1135 00 92 2	25,55	1135 00 92 2 HE4	
2"	27,00	1135 00 93 2	31,05	1135 00 93 2 HE4	
2 1/2"	32,70	1135 00 94 2	37,65	1135 00 94 2 HE4	
3"	43,30	1135 00 95 2	49,80	1135 00 95 2 HE4	
4"	61,10	1135 00 96 2	70,30	1135 00 96 2 HE4	

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)



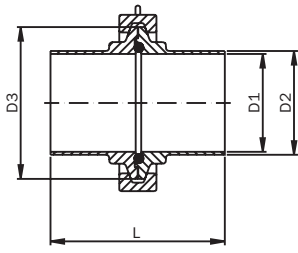
Blind Liner Flange Inch

DN Inch	D3	LK	L	Weight [kg]
1/2"	54	37	4 x Ø 9	0.16
3/4"	59	42	4 x Ø 9	0.19
1"	66	49	4 x Ø 9	0.24
1 1/2"	79	62	4 x Ø 9	0.34
2"	92	75	4 x Ø 9	0.46
2 1/2"	107	89	8 x Ø 9	0.61
3"	125	104	8 x Ø 11	1.01
4"	157	135	8 x Ø 11	1.92

Unions DIN 11864-1 for Tubes acc. to DIN 11866 (series C)

Blind Liner Flange Inch					
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	15,40	1137 00 89 2	18,50	1137 00 89 2 HE4	
3/4"	15,40	1137 00 90 2	18,50	1137 00 90 2 HE4	
1"	20,00	1137 00 91 2	23,00	1137 00 91 2 HE4	
1 1/2"	24,00	1137 00 92 2	27,60	1137 00 92 2 HE4	
2"	28,00	1137 00 93 2	32,20	1137 00 93 2 HE4	
2 1/2"	34,80	1137 00 94 2	40,05	1137 00 94 2 HE4	
3"	45,50	1137 00 95 2	52,35	1137 00 95 2 HE4	
4"	63,90	1137 00 96 2	73,50	1137 00 96 2 HE4	

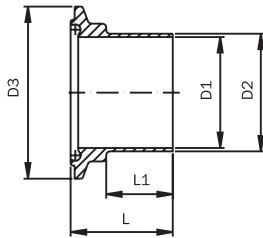
Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series C)



Is delivered in parts!

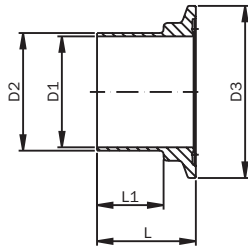
Clamp Connection Inch

DN Inch	D1	D2	D3	L	Weight [kg]
1/2"	9.4	12.7	34	76	0.18
3/4"	15.75	19.05	34	76	0.18
1"	22.1	25.4	50.5	77	0.48
1 1/2"	34.8	38.1	64	88	0.47
2"	47.5	50.8	77.5	89	0.46
2 1/2"	60.2	63.5	91	115	0.57
3"	72.9	76.2	106	117	0.74
4"	97.38	101.6	130	119	0.90



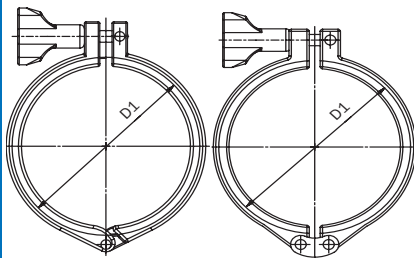
Clamp Nut Inch

DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	34	39.5	26	0.05
3/4"	15.75	19.05	34	39.5	26	0.05
1"	22.1	25.4	50.5	40	28	0.09
1 1/2"	34.8	38.1	64	45.5	30	0.14
2"	47.5	50.8	77.5	46	30	0.17
2 1/2"	60.2	63.5	91	59	40	0.24
3"	72.9	76.2	106	60	40	0.30
4"	97.38	101.6	130	61	40	0.42



Clamp Liner Inch

DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	34	38	26	0.04
3/4"	15.75	19.05	34	38	26	0.04
1"	22.1	25.4	50.5	38.5	28	0.08
1 1/2"	34.8	38.1	64	44	30	0.12
2"	47.5	50.8	77.5	44.5	30	0.17
2 1/2"	60.2	63.5	91	57.5	40	0.24
3"	72.9	76.2	106	58.5	40	0.30
4"	97.38	101.6	130	59.5	40	0.44



Applicable professional rules, regulations and norms are to be observed

Heavy Duty Clamp

DN Inch	D1	SP Weight [kg]	DP Weight [kg]
1/2"	34	0.213	0.192
3/4"	34	0.213	0.192
1"	50.5	0.234	0.334
1 1/2"	64	0.312	0.404
2"	77.5	0.299	0.454
2 1/2"	91	0.343	0.506
3"	106	0.451	0.562
4"	130	0.546	0.655

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series C)

Clamp Connection Inch

1.4404 (316L) / H3			
DN Inch	Price/EUR	Article No.	
1/2"	50,53	119L 00 89 2/1	
3/4"	50,53	119L 00 90 2/1	
1"	59,11	119L 00 91 2/1	
1 1/2"	66,74	119L 00 92 2/1	
2"	78,24	119L 00 93 2/1	
2 1/2"	100,16	119L 00 94 2/1	
3"	124,21	119L 00 95 2/1	
4"	162,82	119L 00 96 2/1	

Clamp Nut Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	11,50	1193 00 89 2	13,25	1193 00 89 2 HE4	
3/4"	11,50	1193 00 90 2	13,25	1193 00 90 2 HE4	
1"	16,20	1193 00 91 2	18,65	1193 00 91 2 HE4	
1 1/2"	19,80	1193 00 92 2	22,80	1193 00 92 2 HE4	
2"	22,80	1193 00 93 2	26,25	1193 00 93 2 HE4	
2 1/2"	34,00	1193 00 94 2	39,10	1193 00 94 2 HE4	
3"	45,90	1193 00 95 2	52,80	1193 00 95 2 HE4	
4"	60,00	1193 00 96 2	69,00	1193 00 96 2 HE4	

Clamp Liner Inch

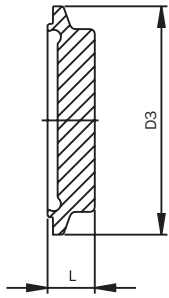
1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	10,70	1191 00 89 2	12,35	1191 00 89 2 HE4	
3/4"	10,70	1191 00 90 2	12,35	1191 00 90 2 HE4	
1"	15,00	1191 00 91 2	17,25	1191 00 91 2 HE4	
1 1/2"	17,90	1191 00 92 2	20,60	1191 00 92 2 HE4	
2"	20,95	1191 00 93 2	24,10	1191 00 93 2 HE4	
2 1/2"	33,80	1191 00 94 2	38,90	1191 00 94 2 HE4	
3"	44,00	1191 00 95 2	50,60	1191 00 95 2 HE4	
4"	59,55	1191 00 96 2	68,50	1191 00 96 2 HE4	

Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	23,47	1111 00 04 2	25,82	1111 00 04 3	
3/4"	23,47	1111 00 04 2	25,82	1111 00 04 3	
1"	23,05	1111 00 07 2	25,36	1111 00 07 3	
1 1/2"	24,18	1111 00 08 2	26,60	1111 00 08 3	
2"	29,17	1111 00 59 2	32,09	1111 00 59 3	
2 1/2"	26,84	1111 00 09 2	29,52	1111 00 09 3	
3"	28,79	1111 00 10 2	31,67	1111 00 10 3	
4"	37,40	1111 00 85 2	41,14	1111 00 85 3	

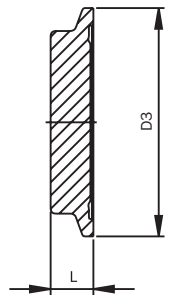
The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series C)



Blind Nut Clamp Inch

DN Inch	D3	L	Weight [kg]
1/2"	34	13	0.04
3/4"	34	13	0.04
1"	50.5	13	0.10
1 1/2"	64	13	0.10
2"	77.5	15	0.10
2 1/2"	91	15	0.15
3"	106	15	0.22
4"	130	15	0.29



Blind Liner Clamp Inch

DN Inch	D3	L	Weight [kg]
1/2"	34	11.5	0.04
3/4"	34	11.5	0.04
1"	50.5	11.5	0.10
1 1/2"	64	11.5	0.10
2"	77.5	13.5	0.10
2 1/2"	91	13.5	0.15
3"	106	13.5	0.22
4"	130	13.5	0.29

Clamp Connections DIN 11864-3 for Tubes acc. to DIN 11866 (series C)

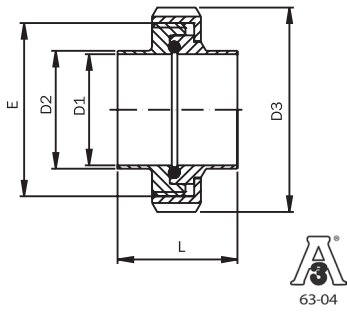
Blind Nut Clamp Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	10,20	1196 00 89 2	11,75	1196 00 89 2 HE4	
3/4"	10,20	1196 00 90 2	11,75	1196 00 90 2 HE4	
1"	12,70	1196 00 91 2	14,65	1196 00 91 2 HE4	
1 1/2"	17,30	1196 00 92 2	20,05	1196 00 92 2 HE4	
2"	25,30	1196 00 93 2	29,10	1196 00 93 2 HE4	
2 1/2"	32,40	1196 00 94 2	37,30	1196 00 94 2 HE4	
3"	37,20	1196 00 95 2	42,80	1196 00 95 2 HE4	
4"	50,15	1196 00 96 2	57,70	1196 00 96 2 HE4	

Blind Liner Clamp Inch

1.4404 (316L) / H3			1.4404 (316L) / HE4		
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.	
1/2"	10,00	1195 00 89 2	11,50	1195 00 89 2 HE4	
3/4"	10,00	1195 00 90 2	11,50	1195 00 90 2 HE4	
1"	11,70	1195 00 91 2	13,50	1195 00 91 2 HE4	
1 1/2"	14,50	1195 00 92 2	16,70	1195 00 92 2 HE4	
2"	23,60	1195 00 93 2	27,15	1195 00 93 2 HE4	
2 1/2"	28,50	1195 00 94 2	32,80	1195 00 94 2 HE4	
3"	34,50	1195 00 95 2	39,70	1195 00 95 2 HE4	
4"	44,90	1195 00 96 2	51,65	1195 00 96 2 HE4	

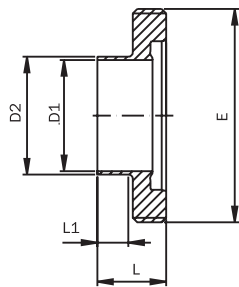
Unions DIN 11853-1 for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)



Is delivered in parts!

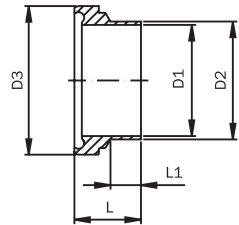
Union DIN (short)

DN DIN	D1	D2	D3	E	L	Weight [kg]
10	10	13	38	Rd 28 x 1/8"	32	0.13
15	16	19	44	Rd 34 x 1/8"	32	0.16
20	20	23	54	Rd 44 x 1/6"	34	0.28
25	26	29	63	Rd 52 x 1/6"	42	0.39
32	32	35	70	Rd 58 x 1/6"	48	0.47
40	38	41	78	Rd 65 x 1/6"	50	0.55
50	50	53	92	Rd 78 x 1/6"	54	0.73
65	66	70	112	Rd 95 x 1/6"	62	1.18
80	81	85	127	Rd 110 x 1/4"	72	1.68
100	100	104	148	Rd 130 x 1/4"	86	2.29



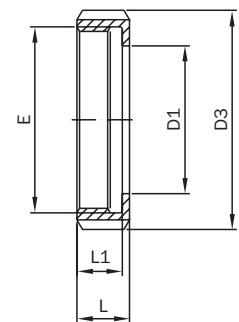
Male DIN (short)

DN DIN	D1	D2	E	L	L1	Weight [kg]
10	10	13	Rd 28 x 1/8"	19	5	0.04
15	16	19	Rd 34 x 1/8"	19	5	0.06
20	20	23	Rd 44 x 1/6"	21	5	0.11
25	26	29	Rd 52 x 1/6"	26	10	0.14
32	32	35	Rd 58 x 1/6"	30	14	0.15
40	38	41	Rd 65 x 1/6"	31	15	0.19
50	50	53	Rd 78 x 1/6"	31	15	0.25
65	66	70	Rd 95 x 1/6"	36	16	0.37
80	81	85	Rd 110 x 1/4"	42	18	0.58
100	100	104	Rd 130 x 1/4"	50	26	0.71



Liner DIN (short)

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	21.9	17	5	0.02
15	16	19	27.9	17	5	0.02
20	20	23	35.9	18	5	0.04
25	26	29	42.9	22	8	0.07
32	32	35	48.9	25	10	0.10
40	38	41	54.9	26	10	0.11
50	50	53	66.9	30	13	0.16
65	66	70	84.9	34	15	0.26
80	81	85	98.9	38	15	0.30
100	100	104	118.9	46	23	0.50



Nut DIN 11851 with Undercut

DN DIN	D1	D3	E	L	L1	Weight [kg]
10	19	38	Rd 28 x 1/8"	18	15	0.07
15	25	44	Rd 34 x 1/8"	18	15	0.08
20	31	54	Rd 44 x 1/6"	20	17	0.13
25	36	63	Rd 52 x 1/6"	21	18	0.18
32	42	70	Rd 58 x 1/6"	21	18	0.22
40	49	78	Rd 65 x 1/6"	21	18	0.25
50	62	92	Rd 78 x 1/6"	22	19	0.33
65	80	112	Rd 95 x 1/6"	25	21	0.55
80	94	127	Rd 110 x 1/4"	29	25	0.80
100	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11853-1 for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)

Union DIN (short)

1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	26,79	112K 00 40 1/1	28,94	112K 00 40 2/1	
15	28,58	112K 00 41 1/1	31,23	112K 00 41 2/1	
20	28,19	112K 00 42 1/1	31,09	112K 00 42 2/1	
25	29,54	112K 00 43 1/1	33,54	112K 00 43 2/1	
32	32,33	112K 00 44 1/1	35,58	112K 00 44 2/1	
40	33,61	112K 00 45 1/1	37,96	112K 00 45 2/1	
50	38,30	112K 00 46 1/1	42,50	112K 00 46 2/1	
65	54,59	112K 00 09 1/1	59,74	112K 00 09 2/1	
80	77,40	112K 00 10 1/1	88,70	112K 00 10 2/1	
100	109,30	112K 00 12 1/1	125,20	112K 00 12 2/1	

Male DIN (short)

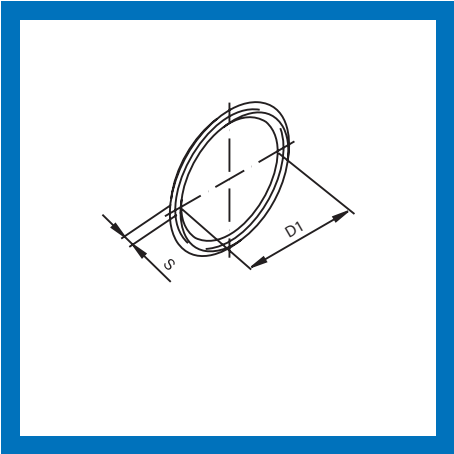
1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	10,00	1122 00 40 1	11,15	1122 00 40 2	
15	10,00	1122 00 41 1	11,65	1122 00 41 2	
20	10,10	1122 00 42 1	12,00	1122 00 42 2	
25	10,20	1122 00 43 1	13,70	1122 00 43 2	
32	11,15	1122 00 44 1	14,00	1122 00 44 2	
40	11,80	1122 00 45 1	14,95	1122 00 45 2	
50	13,20	1122 00 46 1	15,60	1122 00 46 2	
65	19,55	1122 00 09 1	22,40	1122 00 09 2	
80	28,80	1122 00 10 1	36,40	1122 00 10 2	
100	43,10	1122 00 12 1	55,30	1122 00 12 2	

Liner DIN (short)

1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	5,75	1124 00 40 1	6,75	1124 00 40 2	
15	5,75	1124 00 41 1	6,75	1124 00 41 2	
20	5,75	1124 00 42 1	6,75	1124 00 42 2	
25	7,10	1124 00 43 1	7,60	1124 00 43 2	
32	8,40	1124 00 44 1	8,80	1124 00 44 2	
40	8,70	1124 00 45 1	9,90	1124 00 45 2	
50	10,10	1124 00 46 1	11,90	1124 00 46 2	
65	14,80	1124 00 09 1	17,10	1124 00 09 2	
80	19,80	1124 00 10 1	23,50	1124 00 10 2	
100	29,40	1124 00 12 1	33,10	1124 00 12 2	

Nut DIN 11851 with Undercut

1.4307 (304L) pol.			
DN DIN	Price/EUR	Article No.	
10	6,18	11003 000 010 10	
15	7,97	11003 000 015 10	
20	7,48	11003 000 020 10	
25	7,38	11003 000 025 10	
32	7,92	11003 000 032 10	
40	8,25	11003 000 040 10	
50	9,68	11003 000 050 10	
65	14,82	11003 000 065 10	
80	23,28	11003 000 080 10	
100	30,92	11003 000 100 10	



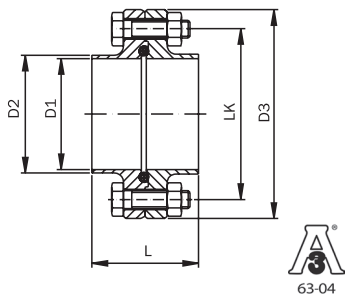
O-ring		
DN DIN	D1	S
10	12	3.5
15	18	3.5
20	22	3.5
25	28	3.5
32	34	5
40	40	5
50	52	5
65	68	5
80	83	5
100	102	5
125	127	5
150	152	5

Unions DIN 11853-1 for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)

O-ring								
EPDM			FKM			PTFE		
DN DIN	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
10	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
15	4,86	1129 00 41 1	9,71	1129 00 41 2	4,86	11,18	1129 00 41 4	6,32
20	4,86	1129 00 42 1	9,71	1129 00 42 2	4,86	11,18	1129 00 42 4	6,32
25	4,86	1129 00 43 1	9,71	1129 00 43 2	4,86	11,18	1129 00 43 4	6,32
32	4,86	1129 00 44 1	9,71	1129 00 44 2	4,86	11,18	1129 00 44 4	6,32
40	4,86	1129 00 45 1	9,71	1129 00 45 2	4,86	11,18	1129 00 45 4	6,32
50	5,32	1129 00 46 1	10,63	1129 00 46 2	5,32	12,24	1129 00 46 4	6,92
65	5,42	1129 00 09 1	10,84	1129 00 09 2	5,42	12,47	1129 00 09 4	7,05
80	5,52	1129 00 10 1	11,04	1129 00 10 2	5,52	12,70	1129 00 10 4	7,18
100	5,88	1129 00 12 1	11,76	1129 00 12 2	5,88	13,52	1129 00 12 4	7,64
125	8,18	1129 00 13 1	16,36	1129 00 13 2	8,18	18,81	1129 00 13 4	10,63
150	9,20	1129 00 15 1	18,41	1129 00 15 2	9,20	21,16	1129 00 15 4	11,96

Flange Connections DIN 11853-2

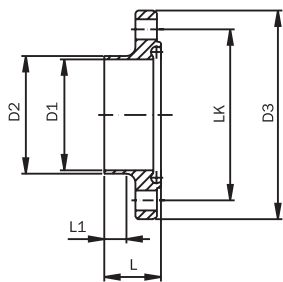
for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)



Is delivered in parts!

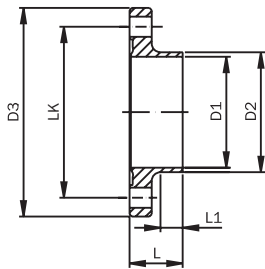
Flange Connection DIN (short)

DN DIN	D1	D2	D3	LK	L	Weight [kg]
10	10	13	54	37 4/M8 x 30	48	0.31
15	16	19	59	42 4/M8 x 30	48	0.37
20	20	23	64	47 4/M8 x 30	48	0.43
25	26	29	70	53 4/M8 x 30	48	0.50
32	32	35	76	59 4/M8 x 30	48	0.57
40	38	41	82	65 4/M8 x 30	48	0.64
50	50	53	94	77 4/M8 x 30	48	0.78
65	66	70	113	95 8/M8 x 30	48	1.03
80	81	85	133	112 8/M10 x 35	52	1.59
100	100	104	159	137 8/M10 x 40	52	2.56
125	125	129	183	161 8/M10 x 40	56	3.06
150	150	154	213	188 8/M12 x 50	56	4.34



Nut Flange DIN (short)

DN DIN	D1	D2	D3	LK	L	L1	Weight [kg]
10	10	13	54	37 4 x Ø 9	25.5	10	0.16
15	16	19	59	42 4 x Ø 9	25.5	10	0.19
20	20	23	64	47 4 x Ø 9	25.5	10	0.22
25	26	29	70	53 4 x Ø 9	25.5	10	0.25
32	32	35	76	59 4 x Ø 9	25.5	10	0.29
40	38	41	82	65 4 x Ø 9	25.5	10	0.33
50	50	53	94	77 4 x Ø 9	25.5	10	0.40
65	66	70	113	95 8 x Ø 9	25.5	10	0.53
80	81	85	133	112 8 x Ø 11	27.5	10	0.81
100	100	104	159	137 8 x Ø 11	27.5	10	1.30
125	125	129	183	161 8 x Ø 11	29.5	10	1.55
150	150	154	213	188 8 x Ø 14	29.5	8	2.20



Liner Flange DIN (short)

DN DIN	D1	D2	D3	LK	L	L1	Weight [kg]
10	10	13	54	37 4 x Ø 9	24	10	0.16
15	16	19	59	42 4 x Ø 9	24	10	0.18
20	20	23	64	47 4 x Ø 9	24	10	0.21
25	26	29	70	53 4 x Ø 9	24	10	0.25
32	32	35	76	59 4 x Ø 9	24	10	0.28
40	38	41	82	65 4 x Ø 9	24	10	0.31
50	50	53	94	77 4 x Ø 9	24	10	0.38
65	66	70	113	95 8 x Ø 9	24	10	0.50
80	81	85	133	112 8 x Ø 11	26	10	0.78
100	100	104	159	137 8 x Ø 11	26	10	1.26
125	125	129	183	161 8 x Ø 11	28	10	1.50
150	150	154	213	188 8 x Ø 14	28	8	2.14

Flange Connections DIN 11853-2 for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)

Flange Connection DIN (short)

1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	41,21	113K 00 40 1/1	43,06	113K 00 40 2/1	
15	41,21	113K 00 41 1/1	43,21	113K 00 41 2/1	
20	42,21	113K 00 42 1/1	43,71	113K 00 42 2/1	
25	42,31	113K 00 43 1/1	43,91	113K 00 43 2/1	
32	43,01	113K 00 44 1/1	44,41	113K 00 44 2/1	
40	43,81	113K 00 45 1/1	45,91	113K 00 45 2/1	
50	45,37	113K 00 46 1/1	48,37	113K 00 46 2/1	
65	50,67	113K 00 09 1/1	57,27	113K 00 09 2/1	
80	72,72	113K 00 10 1/1	82,82	113K 00 10 2/1	
100	95,18	113K 00 12 1/1	110,68	113K 00 12 2/1	
125	141,68	113K 00 13 1/1	153,58	113K 00 13 2/1	
150	177,85	113K 00 15 1/1	195,00	113K 00 15 2/1	

Nut Flange DIN (short)

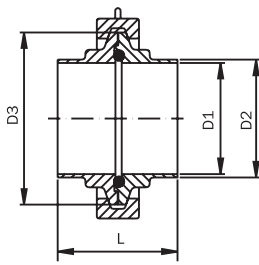
1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	16,90	1132 00 40 1	18,00	1132 00 40 2	
15	16,90	1132 00 41 1	18,00	1132 00 41 2	
20	17,90	1132 00 42 1	18,50	1132 00 42 2	
25	18,00	1132 00 43 1	18,70	1132 00 43 2	
32	18,20	1132 00 44 1	19,00	1132 00 44 2	
40	18,30	1132 00 45 1	19,50	1132 00 45 2	
50	18,70	1132 00 46 1	20,00	1132 00 46 2	
65	21,00	1132 00 09 1	24,00	1132 00 09 2	
80	30,40	1132 00 10 1	35,20	1132 00 10 2	
100	40,80	1132 00 12 1	48,60	1132 00 12 2	
125	65,80	1132 00 13 1	69,80	1132 00 13 2	
150	80,00	1132 00 15 1	88,90	1132 00 15 2	

Liner Flange DIN (short)

1.4307 (304L) / H2			1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	17,90	1134 00 40 1	18,65	1134 00 40 2	
15	17,90	1134 00 41 1	18,80	1134 00 41 2	
20	17,90	1134 00 42 1	18,80	1134 00 42 2	
25	17,90	1134 00 43 1	18,80	1134 00 43 2	
32	18,40	1134 00 44 1	19,00	1134 00 44 2	
40	19,10	1134 00 45 1	20,00	1134 00 45 2	
50	19,80	1134 00 46 1	21,50	1134 00 46 2	
65	21,20	1134 00 09 1	24,80	1134 00 09 2	
80	30,40	1134 00 10 1	35,70	1134 00 10 2	
100	40,80	1134 00 12 1	48,50	1134 00 12 2	
125	60,00	1134 00 13 1	67,90	1134 00 13 2	
150	78,00	1134 00 15 1	86,25	1134 00 15 2	

Clamp Connections DIN 11853-3

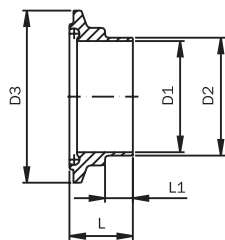
for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)



Is delivered in parts!

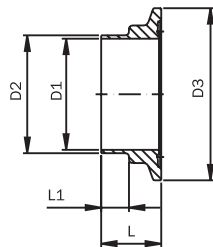
Clamp Connection DIN (short)

DN DIN	D1	D2	D3	L	Weight [kg]
10	10	13	34	44	0.17
15	16	19	34	44	0.16
20	20	23	50.5	44	0.45
25	26	29	50.5	44	0.45
32	32	35	50.5	48	0.43
40	38	41	64	48	0.54
50	50	53	77.5	49	0.71
65	66	70	91	53	0.88
80	81	85	106	57	1.04
100	100	104	130	60	1.11



Clamp Nut DIN (short)

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	34	23.5	10	0.04
15	16	19	34	23.5	10	0.03
20	20	23	50.5	23.5	10	0.07
25	26	29	50.5	23.5	10	0.07
32	32	35	50.5	25.5	10	0.06
40	38	41	64	25.5	10	0.10
50	50	53	77.5	26	10	0.14
65	66	70	91	28	10	0.17
80	81	85	106	30	10	0.21
100	100	104	130	31.5	10	0.23

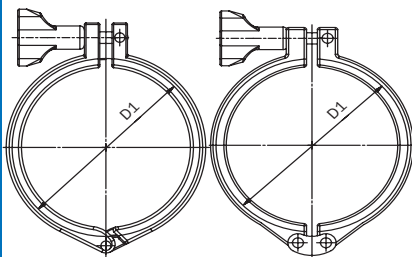


Clamp Liner DIN (short)

DN DIN	D1	D2	D3	L	L1	Weight [kg]
10	10	13	34	22	10	0.03
15	16	19	34	22	10	0.03
20	20	23	50.5	22	10	0.07
25	26	29	50.5	22	10	0.06
32	32	35	50.5	24	10	0.05
40	38	41	64	24	10	0.09
50	50	53	77.5	24.5	10	0.13
65	66	70	91	26.5	10	0.18
80	81	85	106	28.5	10	0.23
100	100	104	130	30	10	0.28

Heavy Duty Clamp

DN DIN	D1	SP Weight [kg]	DP Weight [kg]
10	34	0.213	0.192
15	34	0.213	0.192
20	50.5	0.234	0.334
25	50.5	0.234	0.334
32	50.5	0.234	0.334
40	64	0.312	0.404
50	77.5	0.299	0.454
65	91	0.343	0.506
80	106	0.451	0.562
100	130	0.546	0.655



Applicable professional rules, regulations and norms are to be observed

Clamp Connections DIN 11853-3 for Tubes acc. to DIN 11866 (series A) and DIN EN 10357 (series A)

Clamp Connection DIN (short)

1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.
10	48,18	119K 00 40 2/1
15	48,68	119K 00 41 2/1
20	53,76	119K 00 42 2/1
25	57,61	119K 00 43 2/1
32	58,56	119K 00 44 2/1
40	64,34	119K 00 45 2/1
50	74,39	119K 00 46 2/1
65	90,76	119K 00 09 2/1
80	110,01	119K 00 10 2/1
100	152,46	119K 00 12 2/1

Clamp Nut DIN (short)

1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.
10	10,45	1194 00 40 2
15	10,45	1194 00 41 2
20	13,25	1194 00 42 2
25	15,20	1194 00 43 2
32	15,80	1194 00 44 2
40	18,00	1194 00 45 2
50	20,30	1194 00 46 2
65	29,60	1194 00 09 2
80	38,20	1194 00 10 2
100	54,90	1194 00 12 2

Clamp Liner DIN (short)

1.4404 (316L) / H2		
DN DIN	Price/EUR	Article No.
10	9,40	1192 00 40 2
15	9,90	1192 00 41 2
20	12,60	1192 00 42 2
25	14,50	1192 00 43 2
32	14,85	1192 00 44 2
40	17,30	1192 00 45 2
50	19,60	1192 00 46 2
65	28,90	1192 00 09 2
80	37,50	1192 00 10 2
100	54,28	1192 00 12 2

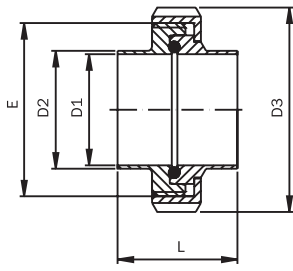
Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin		
DN DIN	Price/EUR	Article No.	Price/EUR	Article No.	
10	23,47	1111 00 04 2	25,82	1111 00 04 3	
15	23,47	1111 00 04 2	25,82	1111 00 04 3	
20	23,05	1111 00 07 2	25,36	1111 00 07 3	
25	23,05	1111 00 07 2	25,36	1111 00 07 3	
32	23,05	1111 00 07 2	25,36	1111 00 07 3	
40	24,18	1111 00 08 2	26,60	1111 00 08 3	
50	29,17	1111 00 59 2	32,09	1111 00 59 3	
65	26,84	1111 00 09 2	29,52	1111 00 09 3	
80	28,79	1111 00 10 2	31,67	1111 00 10 3	
100	37,40	1111 00 85 2	41,14	1111 00 85 3	

The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Unions DIN 11853-1

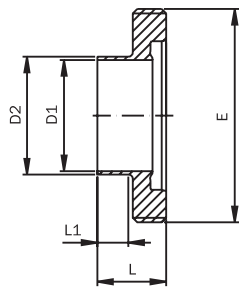
for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)



Is delivered in parts!

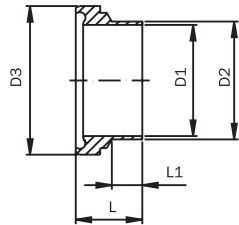
Union ISO (short)

DN ISO	D1	D2	D3	E	L	Weight [kg]
13.5	10.3	13.5	38	Rd 28 x 1/8"	32	0.13
17.2	14.0	17.2	44	Rd 34 x 1/8"	32	0.16
21.3	18.1	21.3	54	Rd 44 x 1/6"	34	0.24
26.9	23.7	26.9	63	Rd 52 x 1/6"	42	0.35
33.7	29.7	33.7	70	Rd 58 x 1/6"	48	0.45
42.4	38.4	42.4	78	Rd 65 x 1/6"	50	0.53
48.3	44.3	48.3	92	Rd 78 x 1/6"	54	0.72
60.3	56.3	60.3	112	Rd 95 x 1/6"	62	1.07
76.1	72.1	76.1	127	Rd 110 x 1/4"	72	1.67
88.9	84.3	88.9	148	Rd 130 x 1/4"	86	2.40



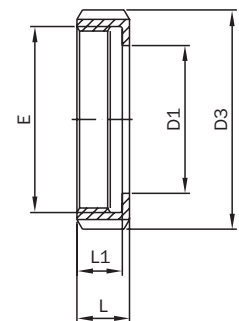
Male ISO (short)

DN ISO	D1	D2	E	L	L1	Weight [kg]
13.5	10.3	13.5	Rd 28 x 1/8"	19	5	0.04
17.2	14.0	17.2	Rd 34 x 1/8"	19	5	0.06
21.3	18.1	21.3	Rd 44 x 1/6"	21	5	0.11
26.9	23.7	26.9	Rd 52 x 1/6"	26	7	0.14
33.7	29.7	33.7	Rd 58 x 1/6"	30	9	0.16
42.4	38.7	42.4	Rd 65 x 1/6"	31	11	0.19
48.3	44.3	48.3	Rd 78 x 1/6"	31	12	0.27
60.3	56.3	60.3	Rd 95 x 1/6"	36	12	0.41
76.1	72.1	76.1	Rd 110 x 1/4"	42	17	0.70
88.9	84.3	88.9	Rd 130 x 1/4"	50	18	0.86



Liner ISO (short)

DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	21.9	17	5	0.02
17.2	14.0	17.2	27.9	17	5	0.02
21.3	18.1	21.3	35.9	18	5	0.05
26.9	23.7	26.9	42.9	22	7	0.08
33.7	29.7	33.7	48.9	25	9	0.11
42.4	38.4	42.4	54.9	26	11	0.12
48.3	44.3	48.3	66.9	30	12	0.20
60.3	56.3	60.3	84.9	34	12	0.33
76.1	72.1	76.1	98.9	38	17	0.42
88.9	84.3	88.9	118.9	46	18	0.74



Nut DIN 11851 with Undercut

DN ISO	D1	D3	E	L	L1	Weight [kg]
13.5	19	38	Rd 28 x 1/8"	18	15	0.07
17.2	25	44	Rd 34 x 1/8"	18	15	0.08
21.3	31	54	Rd 44 x 1/6"	20	17	0.13
26.9	36	63	Rd 52 x 1/6"	21	18	0.18
33.7	42	70	Rd 58 x 1/6"	21	18	0.22
42.4	49	78	Rd 65 x 1/6"	21	18	0.25
48.3	62	92	Rd 78 x 1/6"	22	19	0.33
60.3	80	112	Rd 95 x 1/6"	25	21	0.55
76.1	94	127	Rd 110 x 1/4"	29	25	0.80
88.9	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)

Union ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	32,54	112K 00 75 2/1
17.2	35,43	112K 00 76 2/1
21.3	37,14	112K 00 77 2/1
26.9	42,14	112K 00 78 2/1
33.7	43,08	112K 00 79 2/1
42.4	50,31	112K 00 80 2/1
48.3	60,30	112K 00 81 2/1
60.3	83,59	112K 00 82 2/1
76.1	111,15	112K 00 83 2/1
88.9	144,70	112K 00 84 2/1

Male ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	11,50	1122 00 75 2
17.2	12,00	1122 00 76 2
21.3	13,30	1122 00 77 2
26.9	16,20	1122 00 78 2
33.7	16,40	1122 00 79 2
42.4	20,70	1122 00 80 2
48.3	24,00	1122 00 81 2
60.3	35,00	1122 00 82 2
76.1	46,00	1122 00 83 2
88.9	59,00	1122 00 84 2

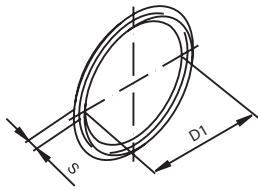
Liner ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	10,00	1124 00 75 2
17.2	10,60	1124 00 76 2
21.3	11,50	1124 00 77 2
26.9	13,70	1124 00 78 2
33.7	13,90	1124 00 79 2
42.4	16,50	1124 00 80 2
48.3	21,30	1124 00 81 2
60.3	28,30	1124 00 82 2
76.1	36,30	1124 00 83 2
88.9	49,00	1124 00 84 2

Nut DIN 11851 with Undercut

1.4307 (304L) pol.		
DN ISO	Price/EUR	Article No.
13.5	6,18	11003 000 010 10
17.2	7,97	11003 000 015 10
21.3	7,48	11003 000 020 10
26.9	7,38	11003 000 025 10
33.7	7,92	11003 000 032 10
42.4	8,25	11003 000 040 10
48.3	9,68	11003 000 050 10
60.3	14,82	11003 000 065 10
76.1	23,28	11003 000 080 10
88.9	30,92	11003 000 100 10

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)

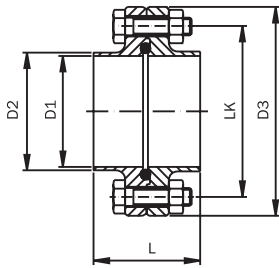


O-ring		
DN ISO	D1	S
13.5	12	3.5
17.2	16	3.5
21.3	20	3.5
26.9	26	3.5
33.7	32	5
42.4	40.5	5
48.3	46.5	5
60.3	58.5	5
76.1	73.5	5
88.9	86.5	5
114.3	111	5

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)

O-ring								
EPDM			FKM			PTFE		
DN ISO	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
13.5	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
17.2	4,86	1129 00 76 1	9,71	1129 00 76 2	4,86	11,18	1129 00 76 4	6,32
21.3	4,86	1129 00 77 1	9,71	1129 00 77 2	4,86	11,18	1129 00 77 4	6,32
26.9	4,86	1129 00 78 1	9,71	1129 00 78 2	4,86	11,18	1129 00 78 4	6,32
33.7	4,86	1129 00 79 1	9,71	1129 00 79 2	4,86	11,18	1129 00 79 4	6,32
42.4	4,86	1129 00 80 1	9,71	1129 00 80 2	4,86	11,18	1129 00 80 4	6,32
48.3	5,32	1129 00 81 1	10,63	1129 00 81 2	5,32	12,24	1129 00 81 4	6,92
60.3	5,47	1129 00 82 1	10,94	1129 00 82 2	5,47	12,58	1129 00 82 4	7,11
76.1	5,57	1129 00 83 1	11,15	1129 00 83 2	5,57	12,81	1129 00 83 4	7,24
88.9	5,78	1129 00 84 1	11,56	1129 00 84 2	5,78	13,29	1129 00 84 4	7,51
114.3	6,85	1129 00 85 1	13,70	1129 00 85 2	6,85	15,76	1129 00 85 4	8,91

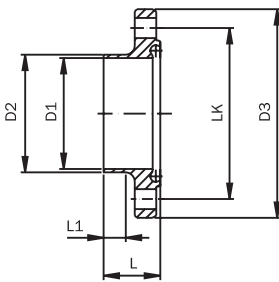
Flange Connections DIN 11853-2 for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)



Is delivered in parts!

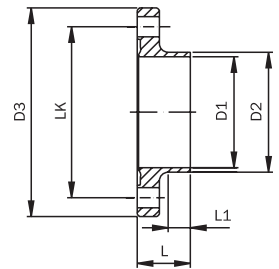
Flange Connection ISO (short)

DN ISO	D1	D2	D3	LK	L	Weight [kg]
13.5	10.3	13.5	54	37 4/M8 x 30	48	0.31
17.2	14.0	17.2	59	42 4/M8 x 30	48	0.37
21.3	18.1	21.3	62	45 4/M8 x 30	48	0.41
26.9	23.7	26.9	69	52 4/M8 x 30	48	0.50
33.7	29.7	33.7	74	57 4/M8 x 30	48	0.56
42.4	38.4	42.4	82	65 4/M8 x 30	48	0.65
48.3	44.3	48.3	88	71 4/M8 x 30	48	0.73
60.3	56.3	60.3	103	85 4/M8 x 30	48	0.94
76.1	72.1	76.1	125	104 8/M10 x 35	48	1.40
88.9	84.3	88.9	137	116 8/M10 x 35	52	1.69
114.3	109.7	114.3	168	146 8/M10 x 40	52	2.79



Nut Flange ISO (short)

DN ISO	D1	D2	D3	LK	L	L1	Weight [kg]
13.5	10.3	13.5	54	37 4 x Ø 9	25.5	10	0.16
17.2	14.0	17.2	59	42 4 x Ø 9	25.5	10	0.19
21.3	18.1	21.3	62	45 4 x Ø 9	25.5	10	0.20
26.9	23.7	26.9	69	52 4 x Ø 9	25.5	10	0.25
33.7	29.7	33.7	74	57 4 x Ø 9	25.5	10	0.29
42.4	38.4	42.4	82	65 4 x Ø 9	25.5	10	0.33
48.3	44.3	48.3	88	71 4 x Ø 9	25.5	10	0.37
60.3	56.3	60.3	103	85 4 x Ø 9	25.5	10	0.48
76.1	72.1	76.1	125	104 8 x Ø 11	25.5	8	0.76
88.9	84.3	88.9	137	116 8 x Ø 11	27.5	10	0.86
114.3	109.7	114.3	168	146 8 x Ø 11	27.5	8	1.39



Liner Flange ISO (short)

DN ISO	D1	D2	D3	LK	L	L1	Weight [kg]
13.5	10.3	13.5	54	37 4 x Ø 9	24	10	0.15
17.2	14.0	17.2	59	42 4 x Ø 9	24	10	0.18
21.3	18.1	21.3	62	45 4 x Ø 9	24	10	0.20
26.9	23.7	26.9	69	52 4 x Ø 9	24	10	0.25
33.7	29.7	33.7	74	57 4 x Ø 9	24	10	0.27
42.4	38.4	42.4	82	65 4 x Ø 9	24	10	0.32
48.3	44.3	48.3	88	71 4 x Ø 9	24	10	0.35
60.3	56.3	60.3	103	85 4 x Ø 9	24	10	0.46
76.1	72.1	76.1	125	104 8 x Ø 11	24	8	0.64
88.9	84.3	88.9	137	116 8 x Ø 11	26	10	0.83
114.3	109.7	114.3	168	146 8 x Ø 11	26	8	1.36

Flange Connections DIN 11853-2
for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)

Flange Connection ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	41,96	113K 00 75 2/1
17.2	43,26	113K 00 76 2/1
21.3	44,81	113K 00 77 2/1
26.9	44,81	113K 00 78 2/1
33.7	48,51	113K 00 79 2/1
42.4	54,71	113K 00 80 2/1
48.3	58,87	113K 00 81 2/1
60.3	73,52	113K 00 82 2/1
76.1	96,57	113K 00 83 2/1
88.9	121,18	113K 00 84 2/1
114.3	157,75	113K 00 85 2/1

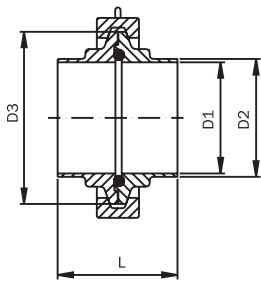
Nut Flange ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	16,90	1132 00 75 2
17.2	18,20	1132 00 76 2
21.3	19,60	1132 00 77 2
26.9	19,60	1132 00 78 2
33.7	22,30	1132 00 79 2
42.4	25,00	1132 00 80 2
48.3	26,00	1132 00 81 2
60.3	34,10	1132 00 82 2
76.1	45,50	1132 00 83 2
88.9	55,00	1132 00 84 2
114.3	72,50	1132 00 85 2

Liner Flange ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	18,65	1134 00 75 2
17.2	18,65	1134 00 76 2
21.3	18,80	1134 00 77 2
26.9	18,80	1134 00 78 2
33.7	19,80	1134 00 79 2
42.4	23,30	1134 00 80 2
48.3	26,00	1134 00 81 2
60.3	32,40	1134 00 82 2
76.1	39,60	1134 00 83 2
88.9	54,00	1134 00 84 2
114.3	72,00	1134 00 85 2

Clamp Connections DIN 11853-3 for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)



Is delivered in parts!

Clamp Connection ISO (short)

DN ISO	D1	D2	D3	L	Weight [kg]
13.5	10.3	13.5	34	44	0.04
17.2	14.0	17.2	34	44	0.18
21.3	18.1	21.3	34	44	0.22
26.9	23.7	26.9	50.5	44	0.47
33.7	29.7	33.7	50.5	48	0.46
42.4	38.4	42.4	64	48	0.50
48.3	44.3	48.3	64	50	0.60
60.3	56.3	60.3	91	54	0.81
76.1	72.1	76.1	106	57	1.04
88.9	84.3	88.9	119	62	1.25

Clamp Nut ISO (short)

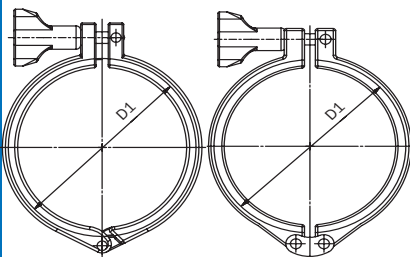
DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	34	23.5	10	0.04
17.2	14.0	17.2	34	23.5	10	0.04
21.3	18.1	21.3	34	23.5	10	0.08
26.9	23.7	26.9	50.5	23.5	10	0.08
33.7	29.7	33.7	50.5	25.5	10	0.07
42.4	38.4	42.4	64	25.5	10	0.11
48.3	44.3	48.3	64	26.5	10	0.14
60.3	56.3	60.3	91	28.5	10	0.19
76.1	72.1	76.1	106	30	10	0.24
88.9	84.3	88.9	119	32.5	10	0.29

Clamp Liner ISO (short)

DN ISO	D1	D2	D3	L	L1	Weight [kg]
13.5	10.3	13.5	34	22	10	0.03
17.2	14.0	17.2	34	22	10	0.03
21.3	18.1	21.3	34	22	10	0.02
26.9	23.7	26.9	50.5	22	10	0.06
33.7	29.7	33.7	50.5	24	10	0.05
42.4	38.4	42.4	64	24	10	0.08
48.3	44.3	48.3	64	25	10	0.07
60.3	56.3	60.3	91	27	10	0.17
76.1	72.1	76.1	106	28.5	10	0.22
88.9	84.3	88.9	119	31	10	0.28

Heavy Duty Clamp

DN ISO	D1	SP Weight [kg]	DP Weight [kg]
13.5	34	0.213	0.192
17.2	34	0.213	0.192
21.3	34	0.213	0.192
26.9	50.5	0.234	0.334
33.7	50.5	0.234	0.334
42.4	64	0.312	0.404
48.3	64	0.312	0.404
60.3	91	0.343	0.506
76.1	106	0.451	0.562
88.9	119	0.469	0.580



Applicable professional rules, regulations and norms are to be observed

Clamp Connections DIN 11853-3 for Tubes acc. to DIN 11866 (series B) and DIN EN 10357 (series C)

Clamp Connection ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	48,78	119K 00 75 2/1
17.2	48,78	119K 00 76 2/1
21.3	48,78	119K 00 77 2/1
26.9	55,06	119K 00 78 2/1
33.7	59,06	119K 00 79 2/1
42.4	61,64	119K 00 80 2/1
48.3	68,35	119K 00 81 2/1
60.3	77,46	119K 00 82 2/1
76.1	98,76	119K 00 83 2/1
88.9	119,04	119K 00 84 2/1

Clamp Nut ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	10,45	1194 00 75 2
17.2	10,45	1194 00 76 2
21.3	10,45	1194 00 77 2
26.9	13,25	1194 00 78 2
33.7	15,20	1194 00 79 2
42.4	16,25	1194 00 80 2
48.3	19,80	1194 00 81 2
60.3	23,55	1194 00 82 2
76.1	32,60	1194 00 83 2
88.9	42,05	1194 00 84 2

Clamp Liner ISO (short)

1.4404 (316L) / H2		
DN ISO	Price/EUR	Article No.
13.5	10,00	1192 00 75 2
17.2	10,00	1192 00 76 2
21.3	10,00	1192 00 77 2
26.9	13,90	1192 00 78 2
33.7	15,95	1192 00 79 2
42.4	16,35	1192 00 80 2
48.3	19,05	1192 00 81 2
60.3	21,60	1192 00 82 2
76.1	31,80	1192 00 83 2
88.9	41,30	1192 00 84 2

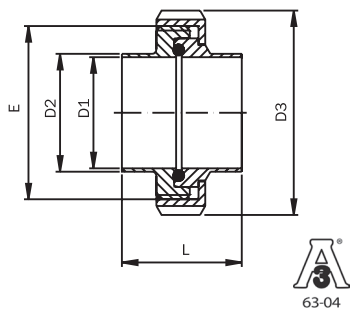
Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin		
DN ISO	Price/EUR	Article No.	Price/EUR	Article No.	
13.5	23,47	1111 00 04 2	25,82	1111 00 04 3	
17.2	23,47	1111 00 04 2	25,82	1111 00 04 3	
21.3	23,47	1111 00 04 2	25,36	1111 00 04 3	
26.9	23,05	1111 00 07 2	25,36	1111 00 07 3	
33.7	23,05	1111 00 07 2	25,36	1111 00 07 3	
42.4	24,18	1111 00 08 2	26,60	1111 00 08 3	
48.3	24,18	1111 00 08 2	32,09	1111 00 08 3	
60.3	26,84	1111 00 09 2	29,52	1111 00 09 3	
76.1	28,79	1111 00 10 2	31,67	1111 00 10 3	
88.9	29,91	1111 00 12 2	41,14	1111 00 12 3	

The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Unions DIN 11853-1

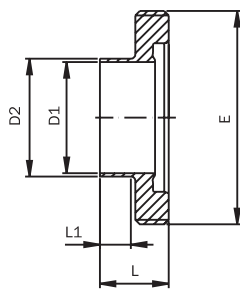
for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)



Is delivered in parts!

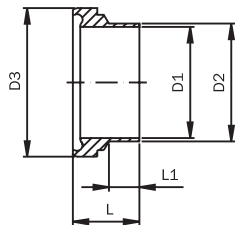
Union Inch (short)

DN Inch	D1	D2	D3	E	L	Weight [kg]
1/2"	9.4	12.7	38	Rd 28 x 1/8"	32	0.19
3/4"	15.75	19.05	44	Rd 34 x 1/8"	32	0.26
1"	22.2	25.4	63	Rd 52 x 1/6"	42	0.41
1 1/2"	34.8	38.1	78	Rd 65 x 1/6"	50	0.57
2"	47.5	50.8	92	Rd 78 x 1/6"	54	0.76
2 1/2"	60.2	63.5	112	Rd 95 x 1/6"	62	1.26
3"	72.9	76.2	127	Rd 110 x 1/4"	72	1.85
4"	97.38	101.6	148	Rd 130 x 1/4"	86	2.36



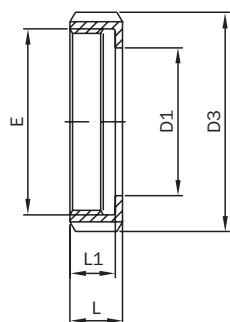
Male Inch (short)

DN Inch	D1	D2	E	L	L1	Weight [kg]
1/2"	9.4	12.7	Rd 28 x 1/8"	19	5	0.04
3/4"	15.75	19.05	Rd 34 x 1/8"	19	5	0.06
1"	22.2	25.4	Rd 52 x 1/6"	26	10	0.15
1 1/2"	34.8	38.1	Rd 65 x 1/6"	31	15	0.20
2"	47.5	50.8	Rd 78 x 1/6"	31	15	0.26
2 1/2"	60.2	63.5	Rd 95 x 1/6"	36	18	0.39
3"	72.9	76.2	Rd 110 x 1/4"	42	18	0.67
4"	97.38	101.6	Rd 130 x 1/4"	50	26	0.75



Liner Inch (short)

DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	21.9	17	6.5	0.02
3/4"	15.75	19.05	27.9	17	6.5	0.02
1"	22.2	25.4	42.9	22	8	0.08
1 1/2"	34.8	38.1	54.9	26	9.5	0.12
2"	47.5	50.8	66.9	30	12.5	0.17
2 1/2"	60.2	63.5	84.9	34	21	0.32
3"	72.9	76.2	98.9	38	17	0.38
4"	97.38	101.6	118.9	46	21	0.53



Nut DIN 11851 with Undercut

DN Inch	D1	D3	E	L	L1	Weight [kg]
1/2"	19	38	Rd 28 x 1/8"	18	15	0.07
3/4"	25	44	Rd 34 x 1/8"	18	15	0.08
1"	36	63	Rd 52 x 1/6"	21	18	0.18
1 1/2"	49	78	Rd 65 x 1/6"	21	18	0.25
2"	62	92	Rd 78 x 1/6"	22	19	0.33
2 1/2"	80	112	Rd 95 x 1/6"	25	21	0.55
3"	94	127	Rd 110 x 1/4"	29	25	0.80
4"	115	148	Rd 130 x 1/4"	31	26	1.08

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)

Union Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	30,94	112K 00 89 2/1
3/4"	33,53	112K 00 90 2/1
1"	33,74	112K 00 91 2/1
1 1/2"	42,51	112K 00 92 2/1
2"	47,40	112K 00 93 2/1
2 1/2"	70,64	112K 00 94 2/1
3"	99,70	112K 00 95 2/1
4"	140,80	112K 00 96 2/1

Male Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	11,50	1122 00 89 2
3/4"	12,00	1122 00 90 2
1"	12,70	1122 00 91 2
1 1/2"	15,80	1122 00 92 2
2"	17,00	1122 00 93 2
2 1/2"	25,90	1122 00 94 2
3"	36,30	1122 00 95 2
4"	54,70	1122 00 96 2

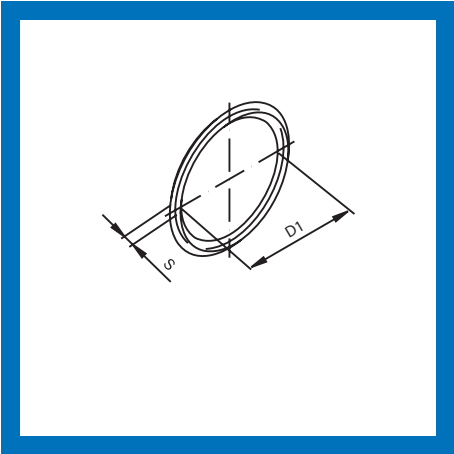
Liner Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	8,40	1124 00 89 2
3/4"	8,70	1124 00 90 2
1"	8,80	1124 00 91 2
1 1/2"	13,60	1124 00 92 2
2"	15,40	1124 00 93 2
2 1/2"	24,60	1124 00 94 2
3"	34,60	1124 00 95 2
4"	49,30	1124 00 96 2

Nut DIN 11851 with Undercut

1.4307 (304L) pol.		
DN Inch	Price/EUR	Article No.
1/2"	6,18	11003 000 010 10
3/4"	7,97	11003 000 015 10
1"	7,38	11003 000 025 10
1 1/2"	8,25	11003 000 040 10
2"	9,68	11003 000 050 10
2 1/2"	14,82	11003 000 065 10
3"	23,28	11003 000 080 10
4"	30,92	11003 000 100 10

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)

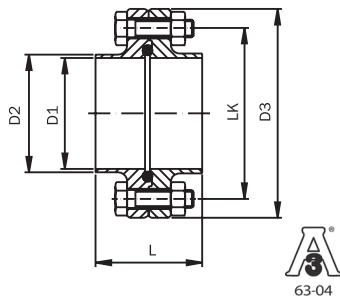


O-ring		
DN Inch	D1	S
1/2"	12	3.5
3/4"	18	3.5
1"	24	3.5
1 1/2"	37	5
2"	50	5
2 1/2"	62	5
3"	75	5
4"	100	5

Unions DIN 11853-1
for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)

O-ring								
EPDM			FKM			PTFE		
DN Inch	Price for spare part/EUR	Article No.	Price for spare part/EUR	Article No.	Surcharge/EUR	Price for spare part/EUR	Article No.	Surcharge/EUR
1/2"	4,86	1129 00 40 1	9,71	1129 00 40 2	4,86	11,18	1129 00 40 4	6,32
3/4"	4,86	1129 00 41 1	9,71	1129 00 41 2	4,86	11,18	1129 00 41 4	6,32
1"	4,86	1129 00 91 1	9,71	1129 00 91 2	4,86	11,18	1129 00 91 4	6,32
1 1/2"	4,86	1129 00 92 1	9,71	1129 00 92 2	4,86	11,18	1129 00 92 4	6,32
2"	5,32	1129 00 93 1	10,63	1129 00 93 2	5,32	12,24	1129 00 93 4	6,92
2 1/2"	5,52	1129 00 94 1	11,04	1129 00 94 2	5,52	12,70	1129 00 94 4	7,18
3"	5,52	1129 00 95 1	11,04	1129 00 95 2	5,52	12,70	1129 00 95 4	7,18
4"	5,88	1129 00 96 1	11,76	1129 00 96 2	5,88	13,52	1129 00 96 4	7,64

Flange Connections DIN 11853-2 for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)



Is delivered in parts!

Flange Connection Inch (short)

DN Inch	D1	D2	D3	LK	L	Weight [kg]
1/2"	9.4	12.7	54	37 4/M8 x 30	48	0.31
3/4"	15.75	19.05	59	42 4/M8 x 30	48	0.37
1"	22.2	25.4	66	49 4/M8 x 30	48	0.45
1 1/2"	34.8	38.1	79	62 4/M8 x 30	48	0.61
2"	47.5	50.8	92	75 4/M8 x 30	48	0.77
2 1/2"	60.2	63.5	107	89 8/M8 x 30	48	0.94
3"	72.9	76.2	125	104 8/M10 x 35	48	1.43
4"	97.38	101.6	157	135 8/M10 x 35	52	2.53

Nut Flange Inch (short)

DN Inch	D1	D2	D3	LK	L	L1	Weight [kg]
1/2"	9.4	12.7	54	37 4 x Ø 9	25.5	10	0.16
3/4"	15.75	19.05	59	42 4 x Ø 9	25.5	10	0.19
1"	22.2	25.4	66	49 4 x Ø 9	25.5	10	0.23
1 1/2"	34.8	38.1	79	62 4 x Ø 9	25.5	10	0.31
2"	47.5	50.8	92	75 4 x Ø 9	25.5	10	0.39
2 1/2"	60.2	63.5	107	89 8 x Ø 9	25.5	10	0.48
3"	72.9	76.2	125	104 8 x Ø 11	25.5	8	0.73
4"	97.38	101.6	157	135 8 x Ø 11	27.5	8	1.28

Liner Flange Inch (short)

DN Inch	D1	D2	D3	LK	L	L1	Weight [kg]
1/2"	9.4	12.7	54	37 4 x Ø 9	24	10	0.15
3/4"	15.75	19.05	59	42 4 x Ø 9	24	10	0.18
1"	22.2	25.4	66	49 4 x Ø 9	24	10	0.22
1 1/2"	34.8	38.1	79	62 4 x Ø 9	24	10	0.30
2"	47.5	50.8	92	75 4 x Ø 9	24	10	0.37
2 1/2"	60.2	63.5	107	89 8 x Ø 9	24	10	0.46
3"	72.9	76.2	125	104 8 x Ø 11	24	8	0.70
4"	97.38	101.6	157	135 8 x Ø 11	26	8	1.25

Flange Connections DIN 11853-2
for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)

Flange Connection Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	43,06	113K 00 89 2/1
3/4"	43,21	113K 00 90 2/1
1"	46,81	113K 00 91 2/1
1 1/2"	56,96	113K 00 92 2/1
2"	61,17	113K 00 93 2/1
2 1/2"	79,97	113K 00 94 2/1
3"	107,22	113K 00 95 2/1
4"	129,48	113K 00 96 2/1

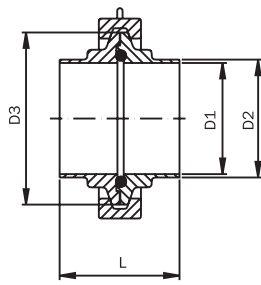
Nut Flange Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	18,00	1132 00 89 2
3/4"	18,00	1132 00 90 2
1"	20,40	1132 00 91 2
1 1/2"	27,95	1132 00 92 2
2"	28,50	1132 00 93 2
2 1/2"	35,90	1132 00 94 2
3"	48,10	1132 00 95 2
4"	58,80	1132 00 96 2

Liner Flange Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	18,65	1134 00 89 2
3/4"	18,80	1134 00 90 2
1"	20,00	1134 00 91 2
1 1/2"	22,60	1134 00 92 2
2"	25,80	1134 00 93 2
2 1/2"	35,50	1134 00 94 2
3"	47,70	1134 00 95 2
4"	58,40	1134 00 96 2

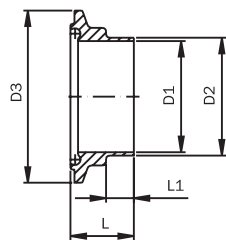
Clamp Connections DIN 11853-3 for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)



Is delivered in parts!

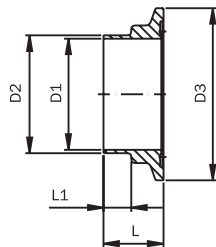
Clamp Connection Inch (short)

DN Inch	D1	D2	D3	L	Weight [kg]
1/2"	9.4	12.7	34	44	0.18
3/4"	15.75	19.05	34	44	0.18
1"	22.1	25.4	50.5	44	0.48
1 1/2"	34.8	38.1	64	48	0.47
2"	47.5	50.8	77.5	49	0.46
2 1/2"	60.2	63.5	91	55	0.57
3"	72.9	76.2	106	57	0.74
4"	97.38	101.6	130	59	0.99



Clamp Nut Inch (short)

DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	34	23.5	10	0.04
3/4"	15.75	19.05	34	23.5	10	0.03
1"	22.1	25.4	50.5	23.5	10	0.08
1 1/2"	34.8	38.1	64	25.5	10	0.11
2"	47.5	50.8	77.5	26	10	0.14
2 1/2"	60.2	63.5	91	29	10	0.19
3"	72.9	76.2	106	30	10	0.27
4"	97.38	101.6	130	31	10	0.34

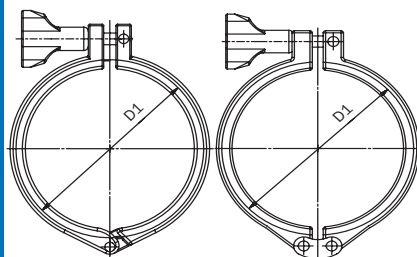


Clamp Liner Inch (short)

DN Inch	D1	D2	D3	L	L1	Weight [kg]
1/2"	9.4	12.7	34	22	10	0.03
3/4"	15.75	19.05	34	22	10	0.02
1"	22.1	25.4	50.5	22	10	0.06
1 1/2"	34.8	38.1	64	24	10	0.09
2"	47.5	50.8	77.5	24.5	10	0.13
2 1/2"	60.2	63.5	91	27.5	10	0.18
3"	72.9	76.2	106	28.5	10	0.24
4"	97.38	101.6	130	29.5	10	0.35

Heavy Duty Clamp

DN Inch	D1	SP Weight [kg]	DP Weight [kg]
1/2"	34	0.213	0.192
3/4"	34	0.213	0.192
1"	50.5	0.234	0.334
1 1/2"	64	0.312	0.404
2"	77.5	0.299	0.454
2 1/2"	91	0.343	0.506
3"	106	0.451	0.562
4"	130	0.546	0.655



Applicable professional rules, regulations and norms are to be observed

Clamp Connections DIN 11853-3 for Tubes acc. to DIN 11866 (series C) and DIN EN 10357 (series D)

Clamp Connection Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	48,83	119K 00 89 2/1
3/4"	48,83	119K 00 90 2/1
1"	57,61	119K 00 91 2/1
1 1/2"	64,34	119K 00 92 2/1
2"	74,39	119K 00 93 2/1
2 1/2"	90,86	119K 00 94 2/1
3"	110,01	119K 00 95 2/1
4"	152,46	119K 00 96 2/1

Clamp Nut Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	10,60	1194 00 89 2
3/4"	10,60	1194 00 90 2
1"	15,20	1194 00 91 2
1 1/2"	18,00	1194 00 92 2
2"	20,30	1194 00 93 2
2 1/2"	29,60	1194 00 94 2
3"	38,20	1194 00 95 2
4"	54,90	1194 00 96 2

Clamp Liner Inch (short)

1.4404 (316L) / H2		
DN Inch	Price/EUR	Article No.
1/2"	9,90	1192 00 89 2
3/4"	9,90	1192 00 90 2
1"	14,50	1192 00 91 2
1 1/2"	17,30	1192 00 92 2
2"	19,60	1192 00 93 2
2 1/2"	28,90	1192 00 94 2
3"	37,50	1192 00 95 2
4"	54,28	1192 00 96 2

Heavy Duty Clamp

1.4308 Single Pin			1.4308 Double Pin	
DN Inch	Price/EUR	Article No.	Price/EUR	Article No.
1/2"	23,47	1111 00 04 2	25,82	1111 00 04 3
3/4"	23,47	1111 00 04 2	25,82	1111 00 04 3
1"	23,05	1111 00 07 2	25,36	1111 00 07 3
1 1/2"	24,18	1111 00 08 2	26,60	1111 00 08 3
2"	29,17	1111 00 59 2	32,09	1111 00 59 3
2 1/2"	26,84	1111 00 09 2	29,52	1111 00 09 3
3"	28,79	1111 00 10 2	31,67	1111 00 10 3
4"	37,40	1111 00 85 2	41,14	1111 00 85 3

The size of the clamp is defined on the basis of the diameter of the flange D1 of the appropriate nominal width.

Technical Information

Pressure Ranges

Unions acc. to DIN 11864-1/DIN 11853-1 are designed for the following pressure values:

for tubes acc. to DIN 11866, series A to C	
Outer pipe diameter	Pressure
12.7 mm - 41 mm	4.0 MPa (40 bar)
42.4 mm - 104 mm	2.5 MPa (25 bar)

Flange connections acc. to DIN 11864-2/DIN 11853-2 are designed for the following pressure values:

for tubes acc. to DIN 11866, series A to C	
Outer pipe diameter	Pressure
12.7 mm - 41 mm	2.5 MPa (25 bar)
42.4 mm - 104 mm	1.6 MPa (16 bar)
114.3 mm - 154 mm	1.0 MPa (10 bar)

Clamp connections acc. to DIN 11864-3/DIN 11853-3 are designed for the following pressure values:

for tubes acc. to DIN 11866, series A to C	
Outer pipe diameter	Pressure
12.7 mm - 41 mm	4.0 MPa (40 bar)
42.4 mm - 70 mm	2.5 MPa (25 bar)
76.1 mm - 104 mm	1.6 MPa (16 bar)

These pressure values in Mpa (bar) serve as limit values for suitable sealing materials up to 140 °C.

Design Lengths acc. to DIN 11864 and DIN 11853

AWH offers two lengths:

- the long version acc. to DIN 11864: with pipe connection for orbital welding
- the short version acc. to DIN 11853: for compact system concepts, orbital weldable, but only with special equipment

Material from DIN 11864 and DIN 11853 acc. to DIN EN 10088-1 and -3

AWH manufactures components of DIN 11864 as a standard in grade 1.4404 acc. to DIN EN 10088-1 and -3. Components of DIN 11853 are manufactured in grades 1.4307 and 1.4404 acc. to DIN EN 10088-1 and -3. Further grades, as indicated in DIN 11864 and DIN 11853, are available upon request.

Surfaces

Surfaces are manufactured according to DIN 11864 standard hygienic class H3 (media-affected inner surfaces average surface finish $RA \leq 0.8\mu m$, external surfaces average surface finish $RA \leq 1.0\mu m$) hygienic class HE4 (media-affected inner surfaces average surface finish $RA \leq 0.4\mu m$ e-polished, external surfaces average surface finish $RA \leq 1.0\mu m$). Surfaces according to DIN 11853 are manufactured in standard hygienic class H2 (media-affected inner surfaces average surface finish $RA \leq 0.8\mu m$, external surfaces average surface finish $RA \leq 1.6\mu m$). The welding areas of the edges of a workpiece are manufactured according to DIN ISO 13715. Further hygienic classes can be arranged separately according to DIN 11864 table 11 and DIN 11853 table 11. Other surfaces upon request.

Pipe Connections according to:

- | | |
|-----------------------|---|
| 1. DIN EN 10357:2013: | Austenitic, austenitic-ferritic and ferritic longitudinally welded stainless steel tubes for the food and chemical industry |
| 2. DIN EN ISO 1127: | Stainless steel pipes |
| 3. ISO 2037: | Metal pipes and fittings - Stainless steel tubes for the food industry |
| 4. ASME BPE 2009: | Bioprocessing equipment |
| 5. DIN 11866: | Pipes made of stainless steel for the aseptic, chemical and pharmaceutical industry |



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