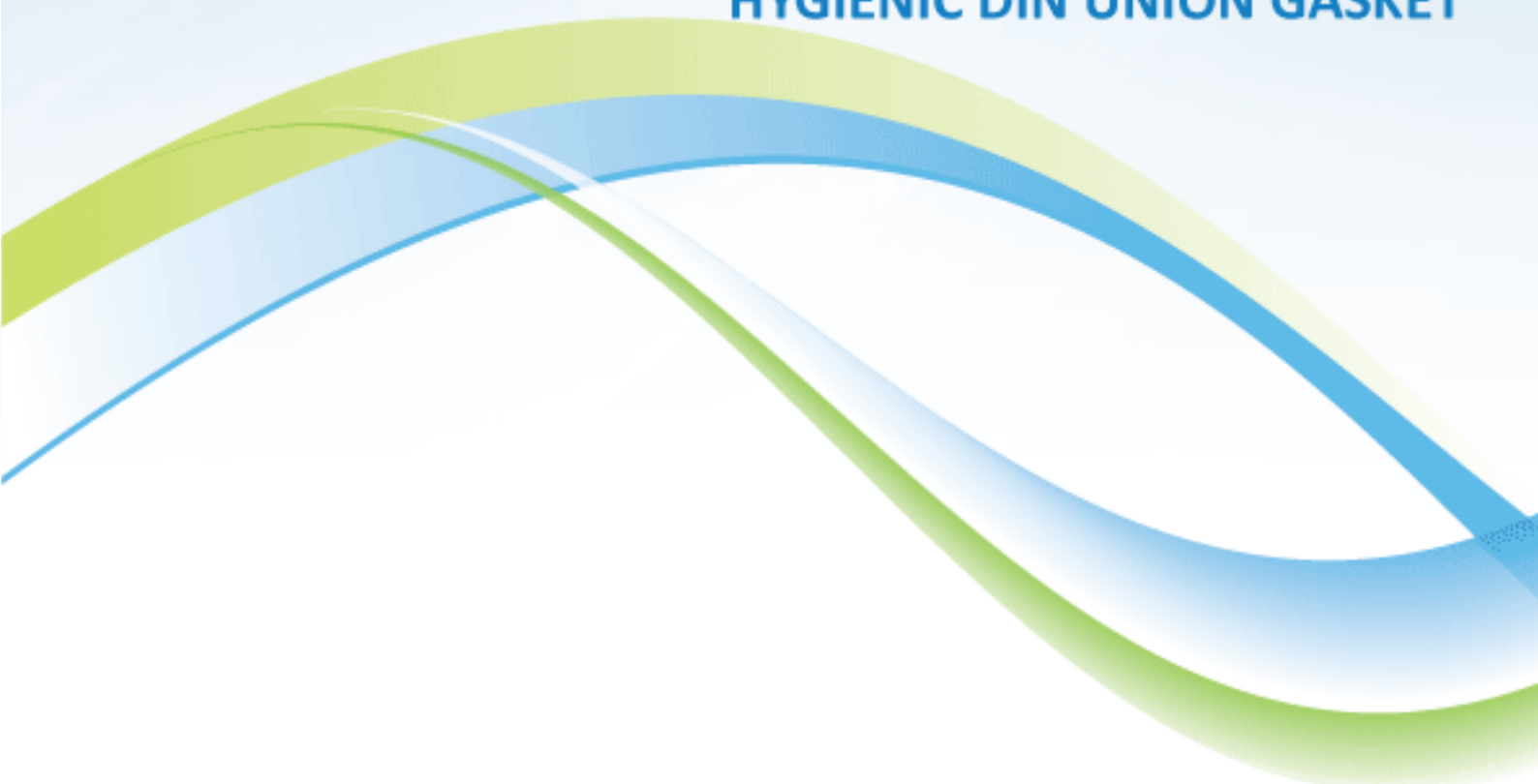


SEALING SYSTEMS

Engineering Equipment for Sanitary Applications

HYGIENIC DIN UNION GASKET



www.sealingsystems.gr

EDITION 2022

Nominal Size DN	A	B	C	D	Ordering Code
10	10	13	34	18	010000-110-D* **
15	16	19	34	18	015000-110-D* **
20	20	23	34	18	020000-110-D* **
25	26	29	50.5	21.5	025000-110-D* **
32	32	35	50.5	21.5	032000-110-D* **
40	38	41	50.5	21.5	040000-110-D* **
50	50	53	64	21.5	050000-110-D* **
65	66	70	91	28	065000-110-D* **
80	81	85	106	28	080000-110-D* **
100	100	104	119	28	100000-110-D* **
125	125	129	155	28	125000-110-D* **
150	150	154	183	28	150000-110-D* **
200	200	204	233.5	28	200000-110-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

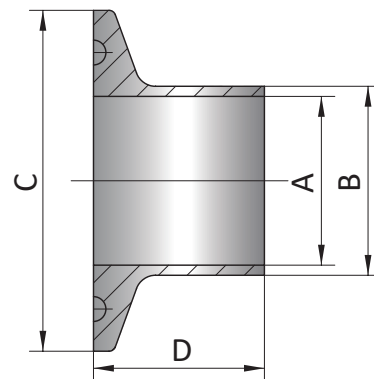


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 110	10	010000-110-D63*

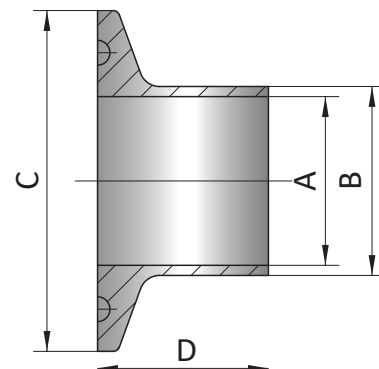
*Material and Surface are including to the ordering code

DIN 32676For tubes to DIN 11850
Series 1**Ferrule****SEALING
SYSTEMS**

Nominal Size DN	A	B	C	D	Ordering Code
10	9	12	34	18	010000-111-D* **
15	15	18	34	18	015000-111-D* **
20	19	22	34	18	020000-111-D* **
25	25	28	50.5	21.5	025000-111-D* **
32	31	34	50.5	21.5	032000-111-D* **
40	37	40	50.5	21.5	040000-111-D* **
50	49	52	64	21.5	050000-111-D* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

**Table 1**

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

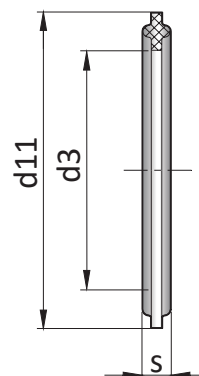
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 111	10	010000-111-D63*

*Material and Surface are including to the ordering code

Nominal Size DN	d3	d11	S	Ordering Code
10	10.2	34	5.5	10-TCD/*
15	16.2	34	5.5	15-TCD/*
20	20.2	34	5.5	20-TCD/*
25	26.2	50.5	5.5	25-TCD/*
32	32.2	50.5	5.5	32-TCD/*
40	38.2	50.5	5.5	40-TCD/*
50	50.2	65	5.5	50-TCD/*
65	66.2	91	5.5	65-TCD/*
80	81.2	106	5.5	80-TCD/*
100	100.2	119	5.5	100-TCD/*



Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

Ordering Example

Description	Nominal Size DN	Ordering Code
Type TCD	10	10-TCD/EP

Nominal Size DN	A	B	Ordering Code
10-20	34.0	6.4	010020-000-D* **
25-40	50.5	6.4	025040-000-D* **
50	64.0	6.4	050000-000-D* **
65	91.0	6.4	065000-000-D* **
80	106.0	7.9	080000-000-D* **
100	119.0	7.9	100000-000-D* **
125	155.0	11.1	125000-000-D* **
150	183.0	11.1	150000-000-D* **
200	233.5	11.1	200000-000-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

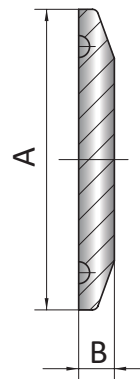


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 000	10-20	010020-000-D63*

*Material and Surface are including to the ordering code

Nominal Size DN	A	B	C	D	Ordering Code
10.2	7.0	10.2	34	28.6	006000-112-G* **
13.5	10.3	13.5	34	28.6	008000-112-G* **
17.2	14	17.2	34	28.6	010000-112-G* **
21.3	18.1	21.3	34	28.6	015000-112-G* **
26.9	23.7	26.9	50.5	28.6	020000-112-G* **
33.7	29.7	33.7	50.5	28.6	025000-112-G* **
42.4	38.4	42.4	64	28.6	032000-112-G* **
48.3	44.3	48.3	91	28.6	040000-112-G* **
60.3	56.3	60.3	106	28.6	050000-112-G* **
76.1	71.5	76.1	119	28.6	065000-112-G* **
88.9	84.3	88.9	155	28.6	080000-112-G* **
114.3	109.1	114.3	183	28.6	100000-112-G* **
139.7	134.5	139.7	233.5	28.6	139000-112-G* **
168.3	163.1	168.3	233.5	28.6	168000-112-G* **
219.1	213.9	219.1	233.5	28.6	219000-112-G* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

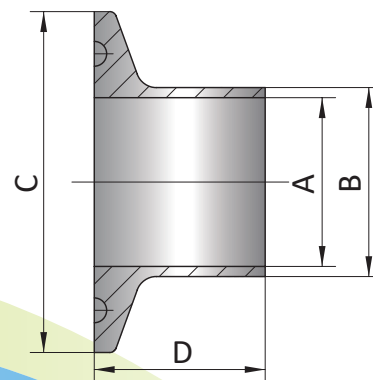


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

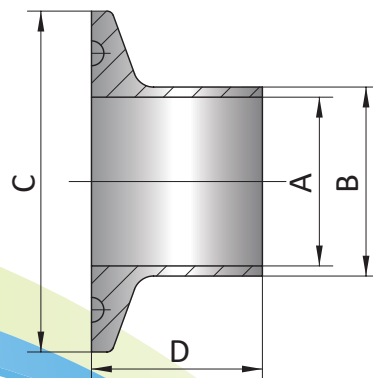
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 110	10	010000-110-D63*

*Material and Surface are including to the ordering code

Nominal Size DN	A	B	C	D	Ordering Code
10.2	7.0	10.2	34	21.5	006000-111-G* **
13.5	10.3	13.5	34	21.5	008000-111-G* **
17.2	14	17.2	34	21.5	010000-111-G* **
21.3	18.1	21.3	34	21.5	015000-111-G* **
26.9	23.7	26.9	50.5	21.5	020000-111-G* **
33.7	29.7	33.7	50.5	21.5	025000-111-G* **
42.4	38.4	42.4	64	21.5	032000-111-G* **
48.3	44.3	48.3	91	21.5	040000-111-G* **
60.3	56.3	60.3	106	21.5	050000-111-G* **
76.1	71.5	76.1	119	21.5	065000-111-G* **
88.9	84.3	88.9	155	21.5	080000-111-G* **
114.3	109.1	114.3	183	21.5	100000-111-G* **
139.7	134.5	139.7	233.5	21.5	125000-111-G* **
168.3	163.1	168.3	233.5	21.5	150000-111-G* **
219.1	213.9	219.1	233.5	21.5	200000-111-G* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	3
1.4307 (304L)	4
1.4401 (316)	5
1.4404 (316L)	6

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 110	10	010000-111-G63

*Material and Surface are including to the ordering code

Nominal Size DN	A	B	C	D	Ordering Code
10.2	7.0	10.2	34	12.7	006000-110-G* **
13.5	10.3	13.5	34	12.7	008000-110-G* **
17.2	14	17.2	34	12.7	010000-110-G* **
21.3	18.1	21.3	34	12.7	015000-110-G* **
26.9	23.7	26.9	50.5	12.7	020000-110-G* **
33.7	29.7	33.7	50.5	12.7	025000-110-G* **
42.4	38.4	42.4	64	12.7	032000-110-G* **
48.3	44.3	48.3	91	12.7	040000-110-G* **
60.3	56.3	60.3	106	12.7	050000-110-G* **
76.1	71.5	76.1	119	12.7	065000-110-G* **
88.9	84.3	88.9	155	12.7	080000-110-G* **
114.3	109.1	114.3	183	15.8	100000-110-G* **
139.7	134.5	139.7	233.5	15.8	125000-110-G* **
168.3	163.1	168.3	233.5		150000-110-G* **
219.1	213.9	219.1	233.5		200000-110-G* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

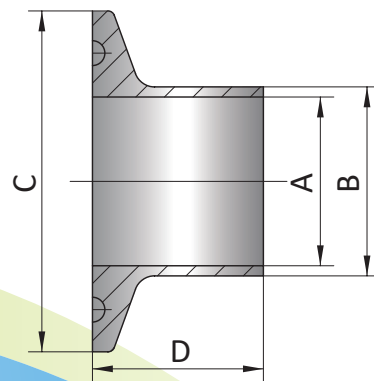


Table 1

Material Guide	
1.4301 (304)	3
1.4307 (304L)	4
1.4401 (316)	5
1.4404 (316L)	6

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

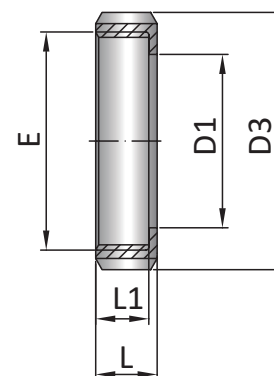
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 110	10	010000-110-G63

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

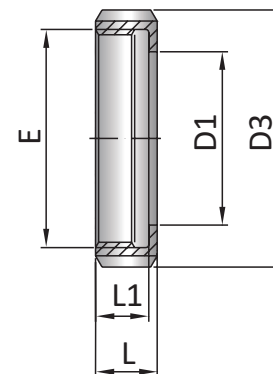
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-121-D* **
15	25	44	Rd 34x1/8"	18	15	015000-121-D* **
20	31	54	Rd 44x1/6"	20	17	020000-121-D* **
25	36	63	Rd 52x1/6"	21	18	025000-121-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-121-D* **
40	49	78	Rd 65x1/6"	21	18	040000-121-D* **
50	62	92	Rd 78x1/6"	22	19	050000-121-D* **
65	80	112	Rd 95x1/6"	25	21	065000-121-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-121-D* **
80	94	127	Rd 110x1/4"	29	25	080000-121-D* **
100	115	148	Rd 130x1/4"	31	26	100000-121-D* **
125	138	178	Rd 160x1/4"	35	30	125000-121-D* **
150	164	210	Rd 190x1/4"	40	34	150000-121-D* **
200	215	260	Rd 240x1/4"	44	38	200000-121-D* **



* The first digit refers to material guide, according to Table 1
 ** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 121	10	010000-121-D63*

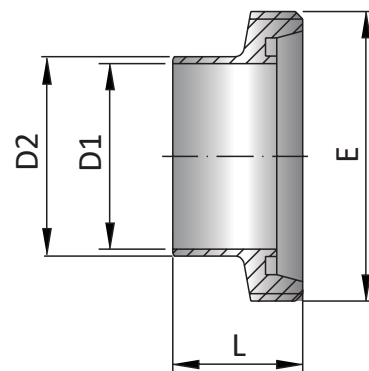
*Material and Surface are including to the ordering code

DIN 11851For tubes to DIN 11850
Series 2**Male DIN Long****SEALING
SYSTEMS**

Nominal Size	D1	D2	E	L	Ordering Code
10	10	13	Rd 28x1/8"	21	010000-131-D* **
15	16	19	Rd 34x1/8"	21	015000-131-D* **
20	20	23	Rd 44x1/6"	24	020000-131-D* **
25	26	29	Rd 52x1/6"	29	025000-131-D* **
32	32	35	Rd 58x1/6"	32	032000-131-D* **
40	38	41	Rd 65x1/6"	33	040000-131-D* **
50	50	53	Rd 78x1/6"	35	050000-131-D* **
65	66	70	Rd 95x1/6"	40	065000-131-D* **
80	81	85	Rd 110x1/4"	45	080000-131-D* **
100	100	104	Rd 130x1/4"	54	100000-131-D* **
125	125	129	Rd 160x1/4"	46	125000-131-D* **
150	150	154	Rd 190x1/4"	50	150000-131-D* **
200	200	212	Rd 240x1/4"	50	200000-131-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

**Table 1**

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 131	10	010000-131-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
10	10	13	22.5	17	010000-141-D* **
15	16	19	28.5	17	015000-141-D* **
20	20	23	36.5	18	020000-141-D* **
25	26	29	44	22	025000-141-D* **
32	32	35	50	25	032000-141-D* **
40	38	41	56	26	040000-141-D* **
50	50	53	68.5	28	050000-141-D* **
65	66	70	86	32	065000-141-D* **
80	81	85	100	37	080000-141-D* **
100	100	104	121	44	100000-141-D* **
125	125	129	150	34	125000-141-D* **
150	150	154	176	37	150000-141-D* **
200	200	212	226	39	200000-141-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

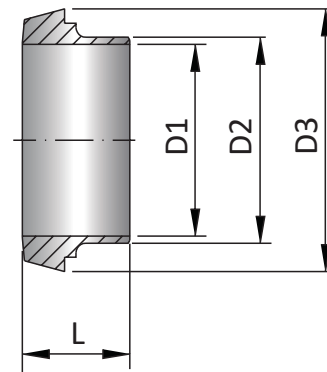


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

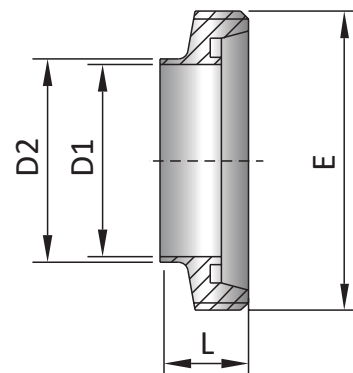
Ordering Example

Description	Nominal Size DN	Ordering Code
Type 141	10	010000-141-D63*

*Material and Surface are including to the ordering code

DIN 11851For tubes to DIN 11850
Series 2**Male DIN Short****SEALING
SYSTEMS**

Nominal Size	D1	D2	E	L	Ordering Code
10	10	13	Rd 28x1/8"	17	010000-130-D* **
15	16	19	Rd 34x1/8"	17	015000-130-D* **
20	20	23	Rd 44x1/6"	19	020000-130-D* **
25	26	29	Rd 52x1/6"	22	025000-130-D* **
32	32	35	Rd 58x1/6"	22	032000-130-D* **
40	38	41	Rd 65x1/6"	22	040000-130-D* **
50	50	53	Rd 78x1/6"	23	050000-130-D* **
65	66	70	Rd 95x1/6"	25	065000-130-D* **
80	81	85	Rd 110x1/4"	25	080000-130-D* **
100	100	104	Rd 130x1/4"	30	100000-130-D* **
125	125	129	Rd 160x1/4"	35	125000-130-D* **
150	150	154	Rd 190x1/4"	40	150000-130-D* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 130	10	010000-130-D63*

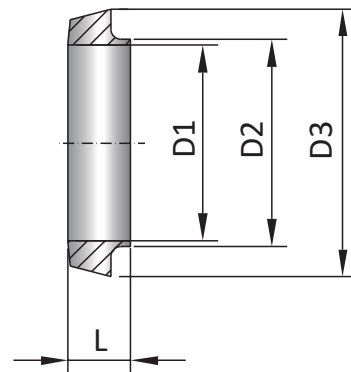
*Material and Surface are included in the ordering code

DIN 11851For tubes to DIN 11850
Series 2**Liner DIN Short****SEALING
SYSTEMS**

Nominal Size	D1	D2	D3	L	Ordering Code
10	10	13	22.5	13	010000-140-D* **
15	16	19	28.5	13	015000-140-D* **
20	20	23	36.5	13	020000-140-D* **
25	26	29	44.0	15	025000-140-D* **
32	32	35	50.0	15	032000-140-D* **
40	38	41	56.0	15	040000-140-D* **
50	50	53	68.5	16	050000-140-D* **
65	66	70	86.0	17	065000-140-D* **
80	81	85	100	17	080000-140-D* **
100	100	104	121	20	100000-140-D* **
125	125	129	150	23	125000-140-D* **
150	150	154	176	27	150000-140-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

**Table 1**

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

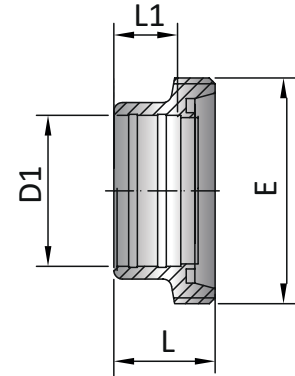
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 140	10	010000-140-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	E	L	L1	Ordering Code
10	12.2	Rd 28x1/8"	21	12	010000-134-D* **
15	18.2	Rd 34x1/8"	21	12	015000-134-D* **
20	22.2	Rd 44x1/6"	24	12	020000-134-D* **
25	28.2	Rd 52x1/6"	29	15	025000-134-D* **
32	34.2	Rd 58x1/6"	32	18	032000-134-D* **
40	40.2	Rd 65x1/6"	33	20	040000-134-D* **
50	52.2	Rd 78x1/6"	35	22	050000-134-D* **
65	70.3	Rd 95x1/6"	40	25	065000-134-D* **
80	85.3	Rd 110x1/4"	45	28	080000-134-D* **
100	104.3	Rd 130x1/4"	54	35	100000-134-D* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

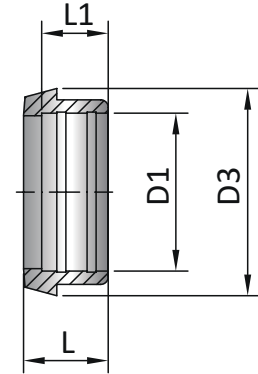
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 134	10	010000-134-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	L	L1	Ordering Code
10	12.2	22.5	17	12	010000-144-D* **
15	18.2	28.5	17	12	015000-144-D* **
20	22.2	36.5	18	12	020000-144-D* **
25	28.2	44.0	22	15	025000-144-D* **
32	34.2	50.0	25	18	032000-144-D* **
40	40.2	56.0	26	20	040000-144-D* **
50	52.2	68.5	28	22	050000-144-D* **
65	70.3	86.0	32	25	065000-144-D* **
80	85.3	100	37	28	080000-144-D* **
100	104.3	121	44	35	100000-144-D* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 144	10	010000-144-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	E	L	Ordering Code
10	10	18	Rd 28x1/8"	21	010000-139-D* **
15	16	24	Rd 34x1/8"	21	015000-139-D* **
20	20	30	Rd 44x1/6"	24	020000-139-D* **
25	26	35	Rd 52x1/6"	29	025000-139-D* **
32	32	41	Rd 58x1/6"	32	032000-139-D* **
40	38	48	Rd 65x1/6"	33	040000-139-D* **
50	50	61	Rd 78x1/6"	35	050000-139-D* **
65	66	79	Rd 95x1/6"	40	065000-139-D* **
80	81	93	Rd 110x1/4"	45	080000-139-D* **
100	100	114	Rd 130x1/4"	54	100000-139-D* **
125	125	132	Rd 160x1/4"	46	125000-139-D* **
150	150	157	Rd 190x1/4"	50	150000-139-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

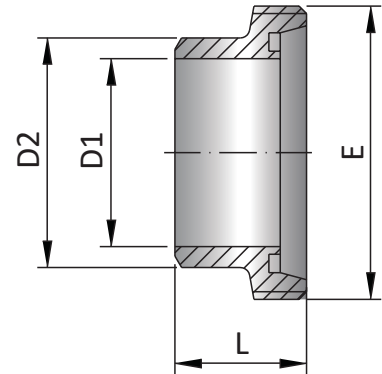


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

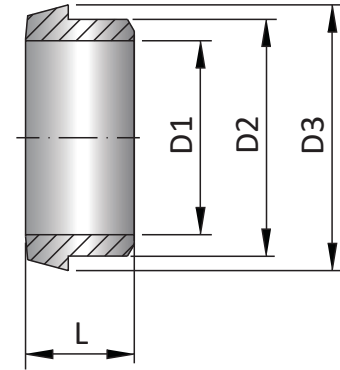
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 139	10	010000-139-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
10	10	18	22.5	17	010000-145-D* **
15	16	24	28.5	17	015000-145-D* **
20	20	30	36.5	18	020000-145-D* **
25	26	35	44.0	22	025000-145-D* **
32	32	41	50.0	25	032000-145-D* **
40	38	48	56.0	26	040000-145-D* **
50	50	61	68.5	28	050000-145-D* **
65	66	79	86.0	32	065000-145-D* **
80	81	93	100	37	080000-145-D* **
100	100	114	121	44	100000-145-D* **
125	125	132	150	34	125000-145-D* **
150	150	157	176	37	150000-145-D* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 145	10	010000-145-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	E	L	Ordering Code
10	14	17.2	Rd 28x1/8"	21	010000-131-D* **
15	18.1	21.3	Rd 34x1/8"	21	015000-131-D* **
20	23.7	26.9	Rd 44x1/6"	24	020000-131-D* **
25	29.7	33.7	Rd 52x1/6"	29	025000-131-D* **
32	38.4	42.4	Rd 58x1/6"	32	032000-131-D* **
40	44.3	48.3	Rd 65x1/6"	33	040000-131-D* **
50	56.3	60.3	Rd 78x1/6"	35	050000-131-D* **
65	72.1	76.1	Rd 95x1/6"	40	065000-131-D* **
80	84.3	88.9	Rd 110x1/4"	45	080000-131-D* **
100	109.7	114.3	Rd 130x1/4"	54	100000-131-D* **
125	134.5	139.7	Rd 160x1/4"	46	125000-131-D* **
150	163.1	168.3	Rd 190x1/4"	50	150000-131-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

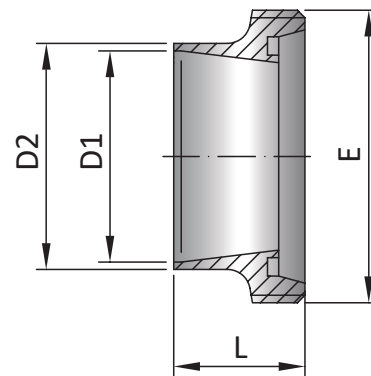


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

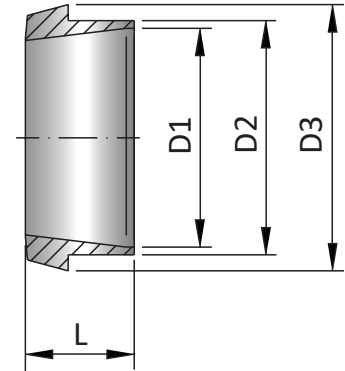
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 131	10	010000-131-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
10	14	17.2	22.5	17	010000-141-D* **
15	18.1	21.3	28.5	17	015000-141-D* **
20	23.7	26.9	36.5	18	020000-141-D* **
25	29.7	33.7	44.0	22	025000-141-D* **
32	38.4	42.4	50.0	25	032000-141-D* **
40	44.3	48.3	56.0	26	040000-141-D* **
50	56.3	60.3	68.5	28	050000-141-D* **
65	72.1	76.1	86.0	32	065000-141-D* **
80	84.3	88.9	100	37	080000-141-D* **
100	109.7	114.3	121	44	100000-141-D* **
125	134.5	139.7	150	34	125000-141-D* **
150	163.1	168.3	176	37	150000-141-D* **



* The first digit refers to material guide, according to Table 1
 ** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 141	10	010000-141-D63*

*Material and Surface are including to the ordering code

Nominal Size INCH	D1	D2	E	L	Ordering Code
1"	22.1	25.4	Rd 52x1/6"	29	025025-131-D * **
1½"	34.9	38.1	Rd 65x1/6"	33	040038-131-D * **
2"	47.5	50.8	Rd 78x1/6"	35	050051-131-D * **
2½"	60.2	63.5	Rd 95x1/6"	40	065063-131-D * **
3"	72.9	76.2	Rd 104x1/6"	40	080076-131-D * **
4"	97.4	101.6	Rd 130x1/6"	54	100100-131-D * **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

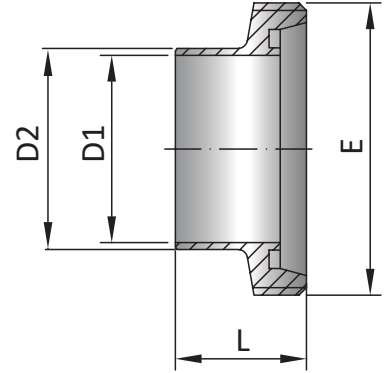


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 131	10	010ISO-131-D63 *

*Material and Surface are including to the ordering code

Nominal Size DN INCH	D1	D2	D3	L	Ordering Code
1"	22.1	25.4	44	22	025025-141-D * **
1½"	34.9	38.1	56	26	040038-141-D * **
2"	47.5	50.8	68.5	28	050051-141-D * **
2½"	60.2	63.5	86	32	065063-141-D * **
3"	72.9	76.2	93	32	080076-141-D * **
4"	97.4	101.6	121	44	100100-141-D * **

* The first digit referse to material guide, according to Table 1

** The last diait referse to surface aualitv. accordina to Table2

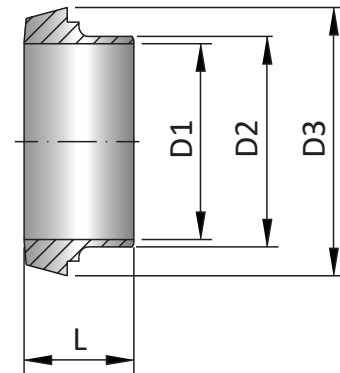


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

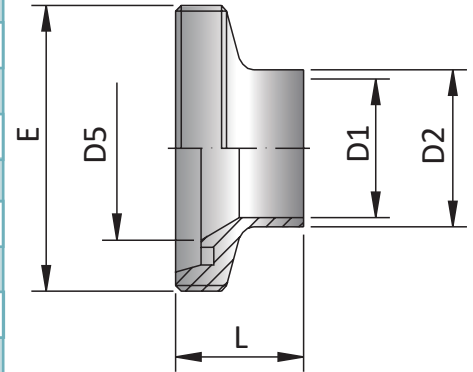
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 141	10	010ISO-141-D63 *

*Material and Surface are including to the ordering code

Nominal Size DN DIN	D1	D2	D5	E	L	Ordering Code
25/15	16	19	26	Rd 52x1/6"	26	025015-133-D* **
32/25	26	29	32	Rd 58x1/6"	27	032025-133-D* **
40/25	26	29	38	Rd 65x1/6"	28	040025-133-D* **
40/32	32	35	38	Rd 65x1/6"	29	040032-133-D* **
50/32	32	35	50	Rd 78x1/6"	29	050032-133-D* **
50/40	38	41	50	Rd 78x1/6"	35	050040-133-D* **
65/40	38	41	66	Rd 95x1/6"	39	065040-133-D* **
65/50	50	53	66	Rd 95x1/6"	40	065050-133-D* **
80/50	50	53	81	Rd 110x1/4"	45	080050-133-D* **
80/65	66	70	81	Rd 110x1/4"	46	080065-133-D* **
100/65	66	70	100	Rd 130x1/4"	49	100065-133-D* **
100/80	81	85	100	Rd 130x1/4"	49	100080-133-D* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 133	25/15	025015-133-D63*

*Material and Surface are including to the ordering code

Nominal Size DN DIN	D1	D2	D5	L	L1	Ordering Code
25/15	16	19	26	22	5	025015-143-D* **
32/25	26	29	32	20	5	032025-143-D* **
40/25	26	29	38	20	5	040025-143-D* **
40/32	32	35	38	23	5	040032-143-D* **
50/32	32	35	50	23	5	050032-143-D* **
50/40	38	41	50	26	5	050040-143-D* **
65/40	38	41	66	26	5	065040-143-D* **
65/50	50	53	66	27	5	065050-143-D* **
80/50	50	53	81	30	5	080050-143-D* **
80/65	66	70	81	31	5	080065-143-D* **
100/65	66	70	100	40	5	100065-143-D* **
100/80	81	85	100	42	10	100080-143-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

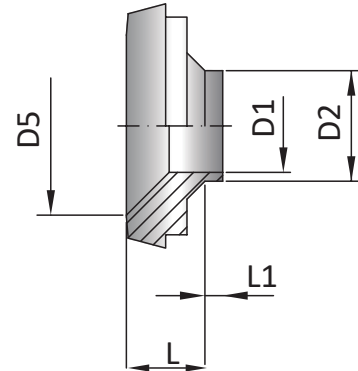


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

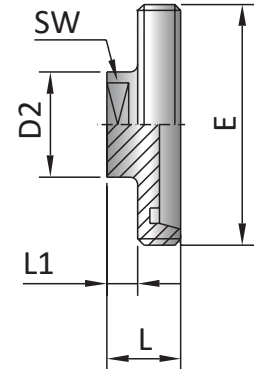
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 143	25/15	025015-143-D63*

*Material and Surface are including to the ordering code

Nominal Size DN DIN	D1	E	L	L1	SW	Ordering Code
10	22	Rd 28x1/8"	22	10	19	010000-132-D* **
15	25	Rd 34x1/8"	22	10	22	015000-132-D* **
20	25	Rd 44x1/6"	24	10	22	020000-132-D* **
25	34	Rd 52x1/6"	24	10	27	025000-132-D* **
32	34	Rd 58x1/6"	24	10	27	032000-132-D* **
40	34	Rd 65x1/6"	24	10	27	040000-132-D* **
50	34	Rd 78x1/6"	24	10	27	050000-132-D* **
65	34	Rd 95x1/6"	26	10	27	065000-132-D* **
80	34	Rd 110x1/4"	30	10	27	080000-132-D* **
100	34	Rd 130x1/4"	30	10	27	100000-132-D* **



* The first digit refers to material guide, according to Table 1
 ** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

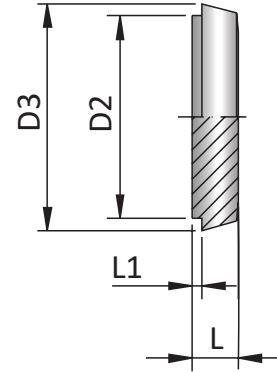
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 132	10	010000-132-D63*

*Material and Surface are included in the ordering code

Nominal Size DN	D2	D3	L	L1	Ordering Code
10	18	22.5	9	3	010000-147-D* **
15	24	28.5	9	3	015000-147-D* **
20	30	36.5	11	3	020000-147-D* **
25	35	44.0	13	3	025000-147-D* **
32	41	50.0	13	3	032000-147-D* **
40	48	56.0	14	3	040000-147-D* **
50	61	68.5	16	3	050000-147-D* **
65	79	86.0	16	4	065000-147-D* **
80	93	100	16	4	080000-147-D* **
100	114	121	20	5	100000-147-D* **
125	132	150	22	5	125000-147-D* **
150	157	176	24	6	150000-147-D* **



* The first digit refers to material guide, according to Table 1
 ** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

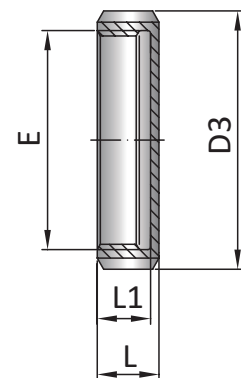
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 147	10	010000-147-D63*

*Material and Surface are included in the ordering code

Nomimal Size DN DIN	D3	L	E	L1	Ordering Code
10	38	18	Rd 28x1/8"	15	010000-122-D* **
15	44	18	Rd 34x1/8"	15	015000-122-D* **
20	54	20	Rd 44x1/6"	17	020000-122-D* **
25	63	21	Rd 52x1/6"	18	025000-122-D* **
32	70	21	Rd 58x1/6"	18	032000-122-D* **
40	78	21	Rd 65x1/6"	18	040000-122-D* **
50	92	22	Rd 78x1/6"	19	050000-122-D* **
65	112	25	Rd 95x1/6"	21	065000-122-D* **
75	120	26	Rd 104x1/4"	21	075000-122-D* **
80	127	29	Rd 110x1/4"	25	080000-122-D* **
100	148	31	Rd 130x1/4"	26	100000-122-D* **
125	178	35	Rd 160x1/4"	30	125000-122-D* **
150	210	40	Rd 190x1/4"	34	150000-122-D* **
200	260	44	Rd 240x1/4"	38	200000-122-D* **



* The first digit referse to material guide, according to Table 1
 ** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 122	10	010000-122-D63*

*Material and Surface are including to the ordering code

Nomimal Size DN DIN	D3	L	E	L1	Ordering Code
10	38	18	Rd 28x1/8"	15	010000-123-D* **
15	44	18	Rd 34x1/8"	15	015000-123-D* **
20	54	20	Rd 44x1/6"	17	020000-123-D* **
25	63	21	Rd 52x1/6"	18	025000-123-D* **
32	70	21	Rd 58x1/6"	18	032000-123-D* **
40	78	21	Rd 65x1/6"	18	040000-123-D* **
50	92	22	Rd 78x1/6"	19	050000-123-D* **
65	112	25	Rd 95x1/6"	21	065000-123-D* **
75	120	26	Rd 104x1/4"	21	075000-123-D* **
80	127	29	Rd 110x1/4"	25	080000-123-D* **
100	148	31	Rd 130x1/4"	26	100000-123-D* **
125	178	35	Rd 160x1/4"	30	125000-123-D* **
150	210	40	Rd 190x1/4"	34	150000-123-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

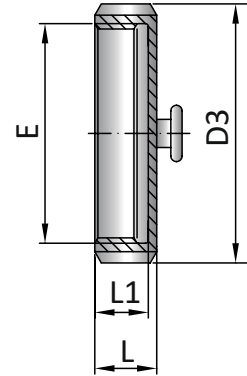


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4401 (316)	3
1.4404 (316L)	4

Table 2

Inside Surface	Outside Surface	Ordering Code
No finish requirement	No finish requirement	u
MP* 30μ-in 0.80μm	No finish requirement	0
MP* 30μ-in 0.80μm	MP* 30μ-in 0.80μm	3
MP* 20μ-in 0.51μm	MP* 30μ-in 0.80μm	4
MP* 12μ-in 0.30μm	MP* 30μ-in 0.80μm	7
MP* 9μ-in 0.23μm	MP* 30μ-in 0.80μm	8
Mirror	MP* 30μ-in 0.80μm	9

*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 123	10	010000-123-D63*

*Material and Surface are including to the ordering code

GASKET

DIN 11851

Nominal Size DN	S	I	D	Ordering Code
10	4.5	12	20	10-851.*
15	4.5	18	26	15-851.*
20	4.5	23	33	20-851.*
25	5.0	30	40	25-851.*
32	5.0	36	46	32-851.*
40	5.0	42	52	40-851.*
50	5.0	54	64	50-851.*
65	5.0	71	81	65-851.*
75	5.0	78	88	75-851.*
80	5.0	85	95	80-851.*
100	6.0	104	114	100-851.*
125	7.0	130	142	125-851.*
150	7.0	155	167	150-851.*
200	7.0	204	216	200-851.*

* The last digit refers to surface quality, according to Table 1

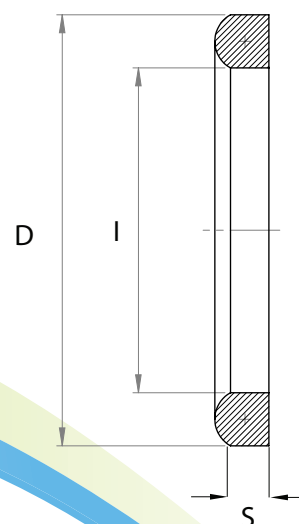


Table 1

Material	FDA Certified	FDA Class VI Certified
Buna-N	BW	
EPDM Black	EP	EP.RX
EPDM White	EPW	EPW.RX
Silicone Platinum		SX.RX
Silicone Peroxide	SP	SP.RX
Viton Black	V	V.RX
Viton White	VW	VW.RX
PTFE	TF	TF.RX
Envelope PTFE/EPDM	GREP	GREP.RX
Envelope PTFE/FKM	GRV	GRV.RX
Envelope PTFE/FKM (White)	GRVW	GRVW.RX

* CLASS VI available on request

DIN

Ordering Example

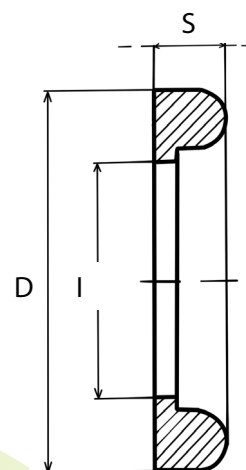
Description	Nominal Size DN	Ordering Code
Type 851	10	10-851.EP

*Material and Surface are including to the ordering code

GASKET

DIN 11851

Nominal Size DN	S	I	D	Ordering Code
10	4.5	10.5	20	10-851.L.*
15	4.5	16.5	26	15-851.L.*
20	4.5	20.5	33	20-851.L.*
25	5.0	26.5	40	25-851.L.*
32	5.0	32.5	46	32-851.L.*
40	5.0	38.5	52	40-851.L.*
50	5.0	50.5	64	50-851.L.*
65	5.0	66.5	81	65-851.L.*
75	5.0	78	88	75-851.L.*
80	5.0	81.5	95	80-851.L.*
100	6.0	100.5	114	100-851.L.*
125	7.0	125	142	125-851.L.*
150	7.0	150.5	167	150-851.L.*



* The last digit refers to surface quality, according to Table 1

Table 1

Material	FDA Certified	FDA Class VI Certified
Buna-N	BW	
EPDM Black	EP	EP.RX
EPDM White	EPW	EPW.RX
Silicone Platinum		SX.RX
Silicone Peroxide	SP	SP.RX
Viton Black	V	V.RX
Viton White	VW	VW.RX
PTFE	TF	TF.RX
Envelope PTFE/EPDM	GREP	GREP.RX
Envelope PTFE/FKM	GRV	GRV.RX
Envelope PTFE/FKM (White)	GRVW	GRVW.RX

* CLASS VI available on request

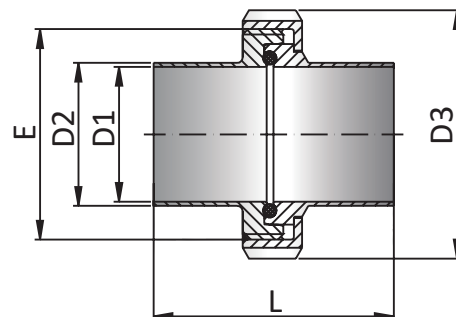
DIN

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 851	10	10-851.L.EP

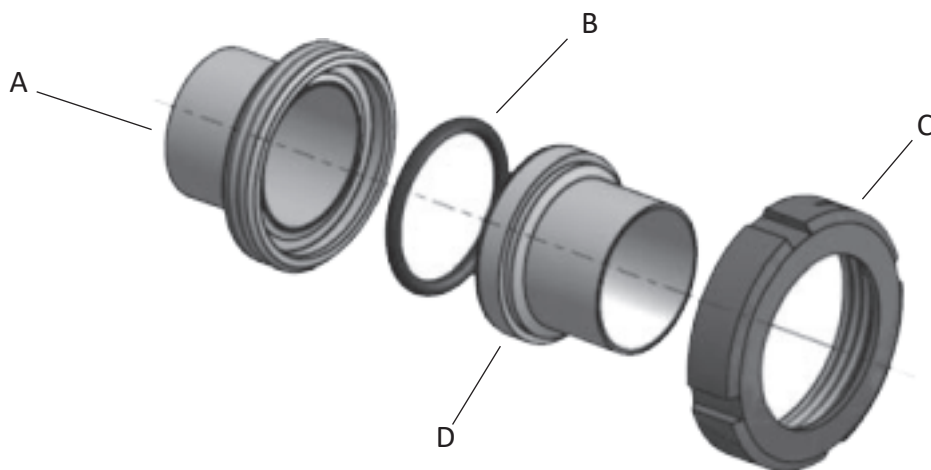
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	E	L	Ordering Code
10	10	13	38	Rd 28x1/8"	76	delivered in parts
15	16	19	44	Rd 34x1/8"	76	delivered in parts
20	20	23	54	Rd 44x1/6"	76	delivered in parts
25	26	29	63	Rd 52x1/6"	77	delivered in parts
32	32	35	70	Rd 58x1/6"	88	delivered in parts
40	38	41	78	Rd 65x1/6"	88	delivered in parts
50	50	53	92	Rd 78x1/6"	89	delivered in parts
65	66	70	112	Rd 95x1/6"	113	delivered in parts
80	81	85	127	Rd 110x1/4"	117	delivered in parts
100	100	104	148	Rd 130x1/4"	120	delivered in parts



For ordering this product use the parts below

Male DIN Code: 13D	Liner DIN Code: 14D	Nut DIN Code: 120	O'ring Code: ODD



- A Male
- B O-ring
- C Nut
- D Liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
10	10	13	Rd 28x1/8"	41	27	010000-13D-D* **
15	16	19	Rd 34x1/8"	41	27	015000-13D-D* **
20	20	23	Rd 44x1/6"	43	26	020000-13D-D* **
25	26	29	Rd 52x1/6"	43	26	025000-13D-D* **
32	32	35	Rd 58x1/6"	48	32	032000-13D-D* **
40	38	41	Rd 65x1/6"	48	31	040000-13D-D* **
50	50	53	Rd 78x1/6"	48	30	050000-13D-D* **
65	66	70	Rd 95x1/6"	60	40	065000-13D-D* **
80	81	85	Rd 110x1/4"	64	40	080000-13D-D* **
100	100	104	Rd 130x1/4"	65	40	100000-13D-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

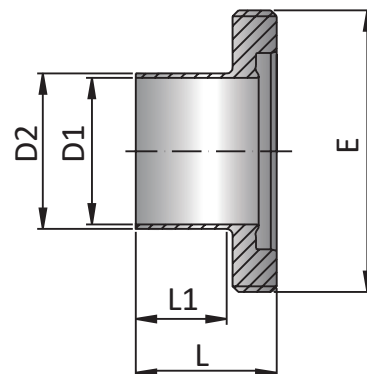


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13D	10	010000-13D-D63

*Material and Surface are included in the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	21.9	39	27	010000-14D-D* **
15	16	19	27.9	39	27	015000-14D-D* **
20	20	23	35.9	38	26	020000-14D-D* **
25	26	29	42.9	40	26	025000-14D-D* **
32	32	35	48.9	47	32	032000-14D-D* **
40	38	41	54.9	47	31	040000-14D-D* **
50	50	53	66.9	48	30	050000-14D-D* **
65	66	70	84.9	61	40	065000-14D-D* **
80	81	85	98.9	61	40	080000-14D-D* **
100	100	104	118.9	66	40	100000-14D-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

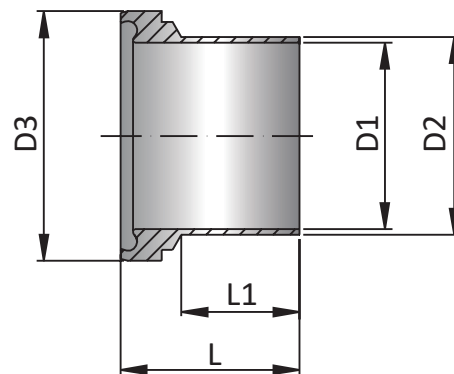


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

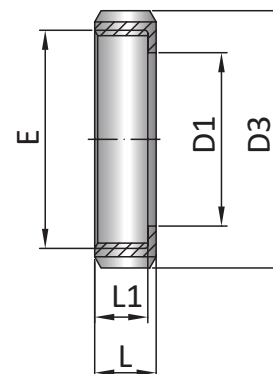
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 14D	10	010000-14D-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

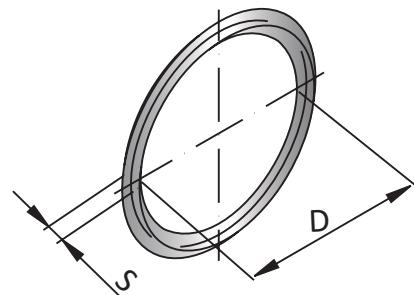
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

*Material and Surface are including to the ordering code

Nomimal Size DN	D	S	Ordering Code
10	12	3.5	010-ODD/*
15	18	3.5	015-ODD/*
20	22	3.5	020-ODD/*
25	28	3.5	025-ODD/*
32	34	5	032-ODD/*
40	40	5	040-ODD/*
50	52	5	050-ODD/*
65	68	5	065-ODD/*
80	83	5	080-ODD/*
100	102	5	100-ODD/*
125	127	5	125-ODD/*
150	152	5	150-ODD/*



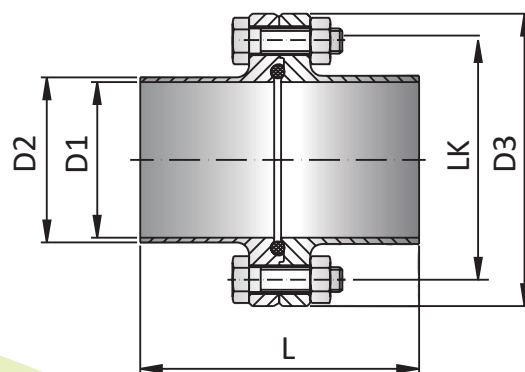
Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

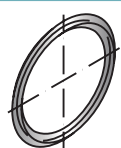
Ordering Example

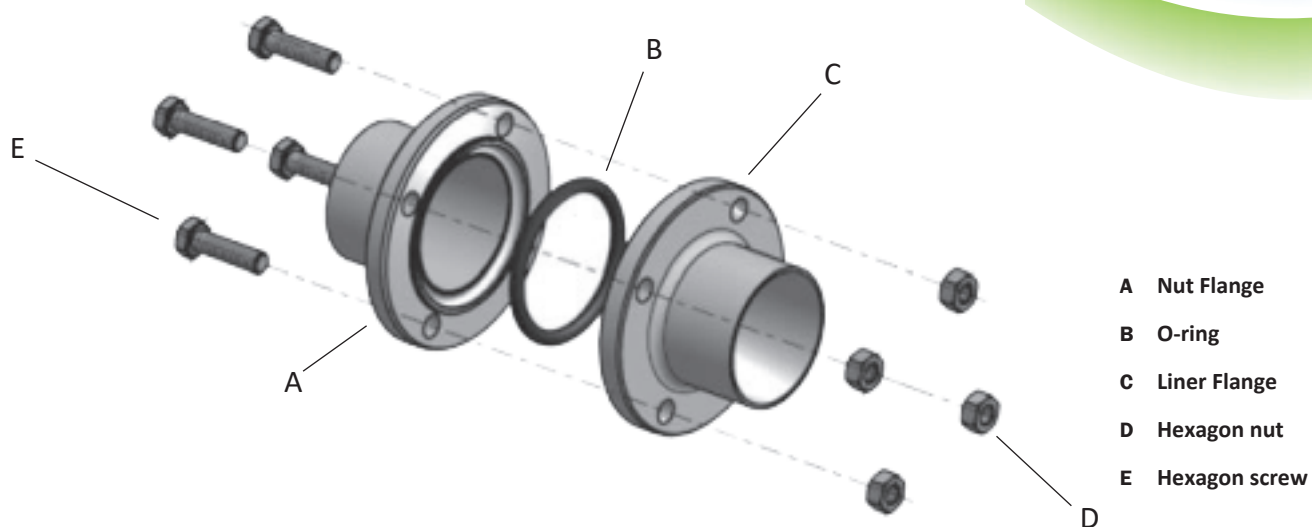
Description	Nomimal Size DN	Ordering Code
Type ODD	10	010000-ODD/EP

Nominal Size	D1	D2	D3	LK	L	Ordering Code
10	10	13	54	37 4/M8 x 30	80	delivered in parts
15	16	19	59	42 4/M8 x 30	80	delivered in parts
20	20	23	64	47 4/M8 x 30	80	delivered in parts
25	26	29	70	53 4/M8 x 30	80	delivered in parts
32	32	35	76	59 4/M8 x 30	90	delivered in parts
40	38	41	82	65 4/M8 x 30	90	delivered in parts
50	50	53	94	77 4/M8 x 30	90	delivered in parts
65	66	70	113	95 4/M8 x 30	108	delivered in parts
80	81	85	133	112 4/M8 x 30	116	delivered in parts
100	100	104	159	137 4/M8 x 30	116	delivered in parts
125	125	129	183	161 4/M8 x 30	120	delivered in parts
150	150	154	213	188 4/M8 x 30	120	delivered in parts



For ordering this product use the parts below

Nut Flange DIN Code: 13F	Liner Flange DIN Code: 14F	O'ring Code: ODD
		



Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
10	10	13	54	37 4 x Ø 9	41.5	26	010000-13F-D* **
15	16	19	59	42 4 x Ø 9	41.5	26	015000-13F-D* **
20	20	23	64	47 4 x Ø 9	41.5	26	020000-13F-D* **
25	26	29	70	53 4 x Ø 9	41.5	26	025000-13F-D* **
32	32	35	76	59 4 x Ø 9	46.5	31	032000-13F-D* **
40	38	41	82	65 4 x Ø 9	46.5	31	040000-13F-D* **
50	50	53	94	77 4 x Ø 9	46.5	31	050000-13F-D* **
65	66	70	113	95 8 x Ø 9	55.5	42	065000-13F-D* **
80	81	85	133	112 8 x Ø 11	59.5	42	080000-13F-D* **
100	100	104	159	137 8 x Ø 11	59.5	42	100000-13F-D* **
125	125	129	183	161 8 x Ø 11	61.5	42	125000-13F-D* **
150	150	154	213	188 8 x Ø 14	61.5	40	150000-13F-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

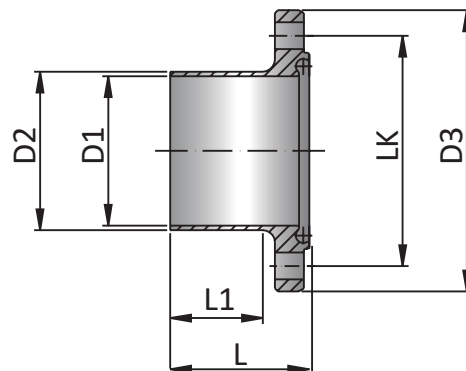


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

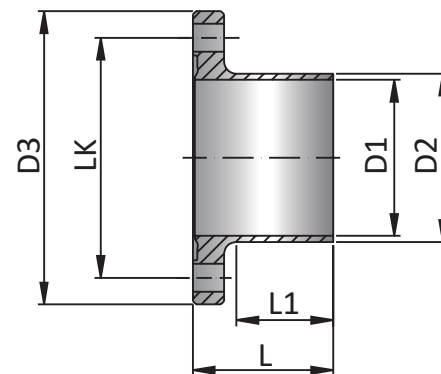
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13F	10	010000-13F-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
10	10	13	54	37 4 x Ø 9	41.5	26	010000-14F-D* **
15	16	19	59	42 4 x Ø 9	41.5	26	015000-14F-D* **
20	20	23	64	47 4 x Ø 9	41.5	26	020000-14F-D* **
25	26	29	70	53 4 x Ø 9	41.5	26	025000-14F-D* **
32	32	35	76	59 4 x Ø 9	46.5	31	032000-14F-D* **
40	38	41	82	65 4 x Ø 9	46.5	31	040000-14F-D* **
50	50	53	94	77 4 x Ø 9	46.5	31	050000-14F-D* **
65	66	70	113	95 8 x Ø 9	55.5	42	065000-14F-D* **
80	81	85	133	112 8 x Ø 11	59.5	42	080000-14F-D* **
100	100	104	159	137 8 x Ø 11	59.5	42	100000-14F-D* **
125	125	129	183	161 8 x Ø 11	61.5	42	125000-14F-D* **
150	150	154	213	188 8 x Ø 14	61.5	40	150000-14F-D* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

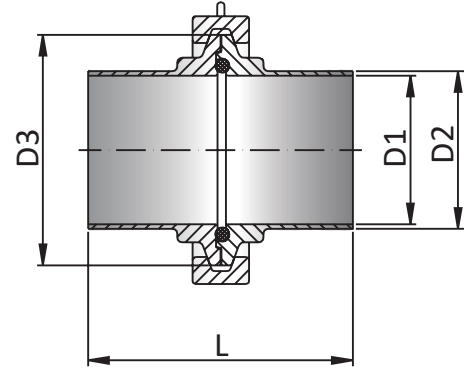
*MP: Mechanically Polished

Ordering Example

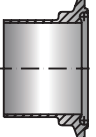
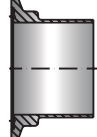
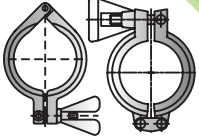
Description	Nominal Size DN	Ordering Code
Type 14F	10	010000-14F-D63*

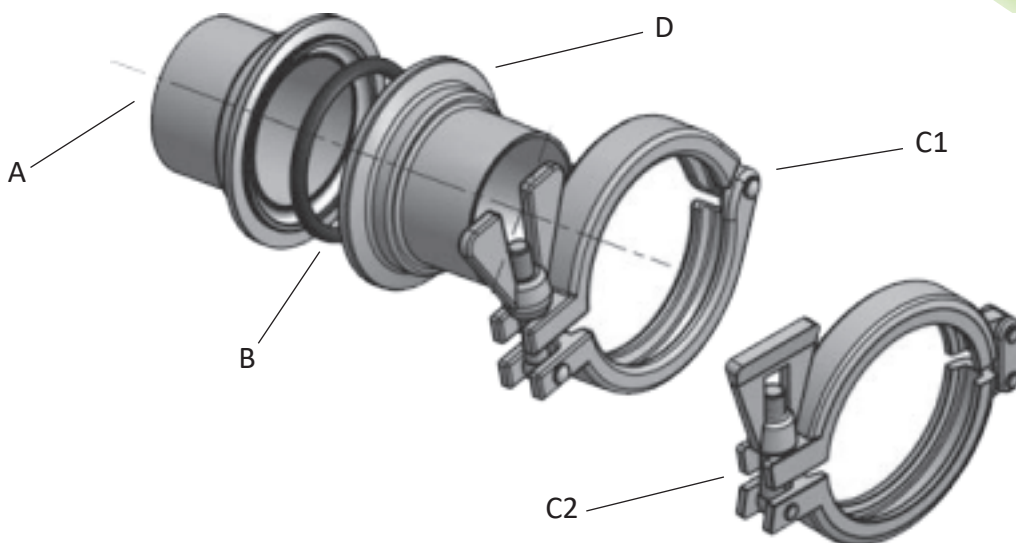
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
10	10	13	34	76	delivered in parts
15	16	19	34	76	delivered in parts
20	20	23	50.5	76	delivered in parts
25	26	29	50.5	77	delivered in parts
32	32	35	50.5	88	delivered in parts
40	38	41	64	88	delivered in parts
50	50	53	77.5	89	delivered in parts
65	66	70	91	113	delivered in parts
80	81	85	106	117	delivered in parts
100	100	104	130	120	delivered in parts



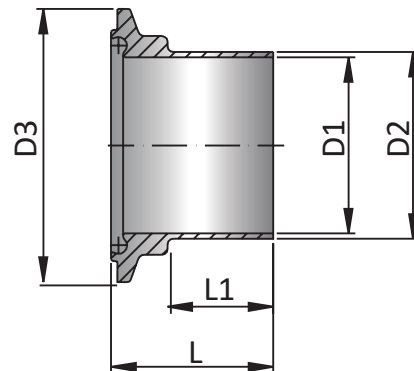
For ordering this product use the parts below

Clamp Nut DIN Code: 13C	Clamp Liner DIN Code: 14C	Heavy Duty Clamp Code: 003	O'ring Code: ODD
			



- A** Clamp nut
- B** O-ring
- Heavy duty clamp**
- C1** Single pin
- C2** Double pin
- D** Clamp liner

Nomimal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	34.0	39.5	26	010000-13C-D* **
15	16	19	34.0	39.5	26	015000-13C-D* **
20	20	23	50.5	39.5	26	020000-13C-D* **
25	26	29	50.5	40.0	28	025000-13C-D* **
32	32	35	50.5	45.5	30	032000-13C-D* **
40	38	41	64.0	45.5	30	040000-13C-D* **
50	50	53	77.5	46.0	30	050000-13C-D* **
65	66	70	91.0	58.0	40	065000-13C-D* **
80	81	85	106	60.0	40	080000-13C-D* **
100	100	104	130	61.5	40	100000-13C-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

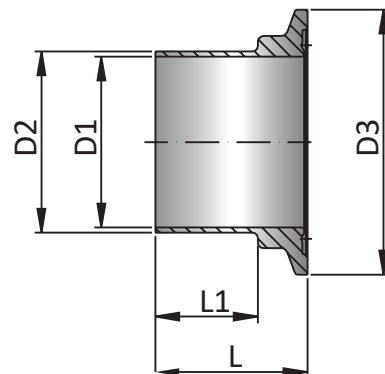
*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 13C	10	010000-13C-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	34	38	26	010000-14C-D* **
15	16	19	34	38	26	015000-14C-D* **
20	20	23	50.5	38	26	020000-14C-D* **
25	26	29	50.5	38.5	28	025000-14C-D* **
32	32	35	50.5	44	30	032000-14C-D* **
40	38	41	64	44	30	040000-14C-D* **
50	50	53	77.5	44.5	30	050000-14C-D* **
65	66	70	91	56.5	40	065000-14C-D* **
80	81	85	106	58.5	40	080000-14C-D* **
100	100	104	130	60	40	100000-14C-D* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

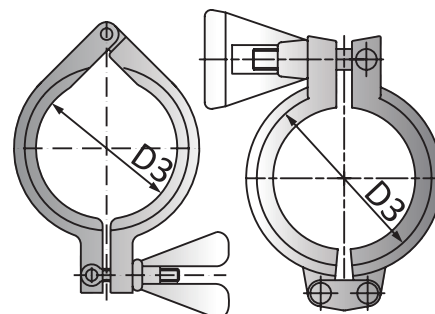
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 14C	10	010000-14C-D63*

*Material and Surface are included in the ordering code

Nominal Size DN	D3	Ordering Code
10	34	010000-003-1U
15	34	015000-003-1U
20	50.5	020000-003-1U
25	50.5	025000-003-1U
32	50.5	032000-003-1U
40	64	040000-003-1U
50	77.5	050000-003-1U
65	91	065000-003-1U
80	106	080000-003-1U
100	130	100000-003-1U



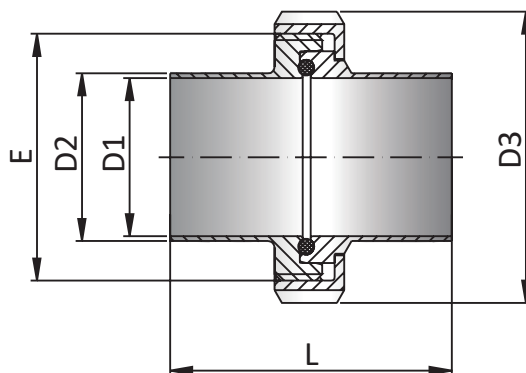
Material

304L/Unpolished

Ordering Example

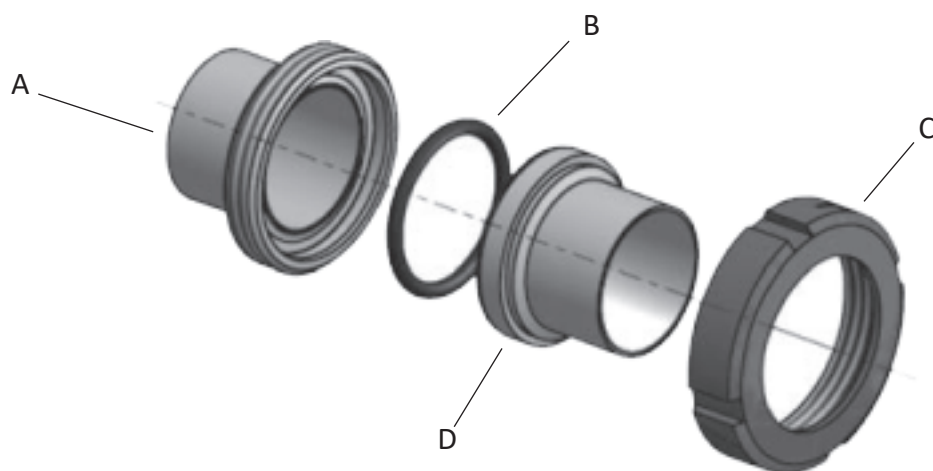
Description	Nominal Size DN	Ordering Code
Type 003	10	010000-003-1U

Nominal Size	D1	D2	D3	E	L	Ordering Code
8	10.3	13.5	38	Rd 28x1/8"	76	delivered in parts
10	14.0	17.2	44	Rd 34x1/8"	76	delivered in parts
15	18.1	21.3	54	Rd 44x1/6"	78	delivered in parts
20	23.7	26.9	63	Rd 52x1/6"	78	delivered in parts
25	29.7	33.7	70	Rd 58x1/6"	88	delivered in parts
32	38.4	42.4	78	Rd 65x1/6"	88	delivered in parts
40	44.3	48.3	92	Rd 78x1/6"	90	delivered in parts
50	56.3	60.3	112	Rd 95x1/6"	114	delivered in parts
65	72.1	76.1	127	Rd 110x1/4"	117	delivered in parts
80	84.3	88.9	148	Rd 130x1/4"	122	delivered in parts



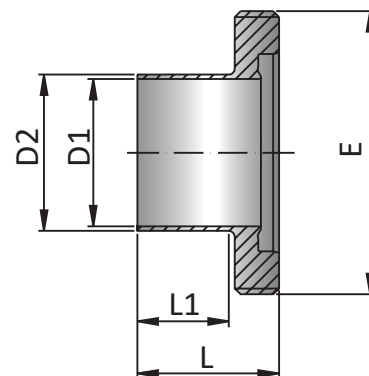
For ordering this product use the parts below

Male ISO Code: 13D	Liner ISO Code: 14D	Nut DIN Code: 120	O'ring Code: ODG



- A** Male
- B** O-ring
- C** Nut
- D** Liner

Nominal Size	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	21.9	39	27	008000-13D-G* **
10	14.0	17.2	29.7	39	27	010000-13D-G* **
15	18.1	21.3	35.9	40	27	015000-13D-G* **
20	23.7	26.9	42.9	41	27	020000-13D-G* **
25	29.7	33.7	48.9	47	32	025000-13D-G* **
32	38.4	42.4	54.9	47	32	032000-13D-G* **
40	44.3	48.3	66.9	48	31	040000-13D-G* **
50	56.3	60.3	84.9	62	40	050000-13D-G* **
65	72.1	76.1	98.9	61	40	065000-13D-G* **
80	84.3	88.9	118.9	68	40	080000-13D-G* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13D	10	010000-13D-G63*

*Material and Surface are included in the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	21.9	39	27	008000-14D-G* **
10	14.0	17.2	29.7	39	27	010000-14D-G* **
15	18.1	21.3	35.9	40	27	015000-14D-G* **
20	23.7	26.9	42.9	41	27	020000-14D-G* **
25	29.7	33.7	48.9	47	32	025000-14D-G* **
32	38.4	42.4	54.9	47	32	032000-14D-G* **
40	44.3	48.3	66.9	48	31	040000-14D-G* **
50	56.3	60.3	84.9	62	40	050000-14D-G* **
65	72.1	76.1	98.9	61	40	065000-14D-G* **
80	84.3	88.9	118.9	68	40	080000-14D-G* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

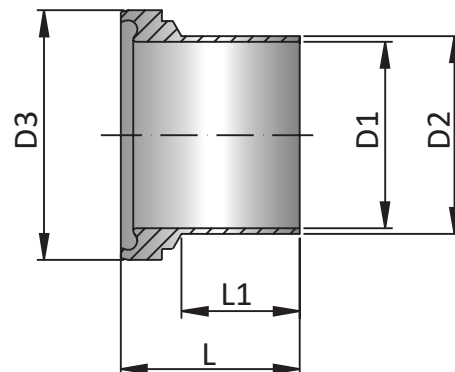


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

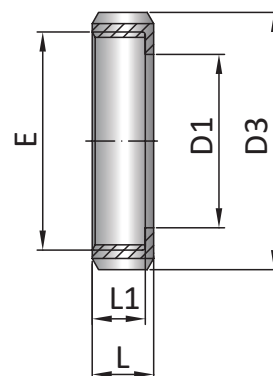
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 14D	10	010000-14D-G63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

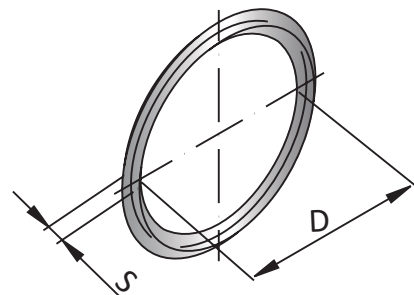
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

*Material and Surface are including to the ordering code

Nomimal Size DN	D	B	Ordering Code
8	12	3.5	008-ODG/*
10	16	3.5	010-ODG/*
15	20	3.5	015-ODG/*
20	26	3.5	020-ODG/*
25	32	5	025-ODG/*
32	40.5	5	032-ODG/*
40	46.5	5	040-ODG/*
50	58.5	5	050-ODG/*
65	73.5	5	065-ODG/*
80	85.5	5	080-ODG/*
100	111	5	100-ODG/*



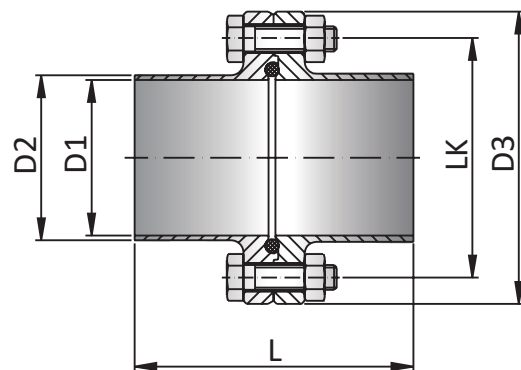
Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

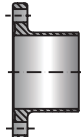
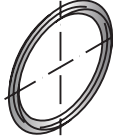
Ordering Example

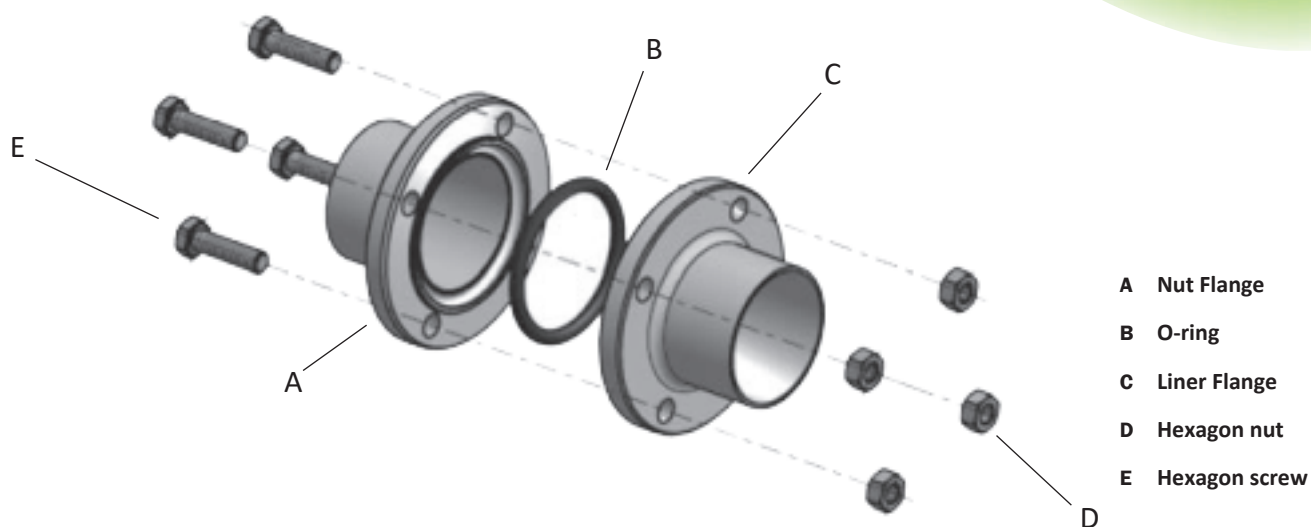
Description	Nomimal Size DN	Ordering Code
Type ODG	10	010000-ODG/EP

Nominal Size	D1	D2	D3	E	L	Ordering Code
8	10.3	13.5	54	37 4/M8x30	80	delivered in parts
10	14.0	17.2	59	42 4/M8x30	80	delivered in parts
15	18.1	21.3	62	45 4/M8x30	80	delivered in parts
20	23.7	26.9	69	52 4/M8x30	80	delivered in parts
25	29.7	33.7	74	57 4/M8x30	90	delivered in parts
32	38.4	42.4	82	65 4/M8x30	90	delivered in parts
40	44.3	48.3	88	71 4/M8x30	90	delivered in parts
50	56.3	60.3	103	85 4/M8x30	108	delivered in parts
65	72.1	76.1	125	104 8/M10x30	112	delivered in parts
80	84.3	88.9	137	116 8/M10x35	116	delivered in parts
100	109.7	114.3	168	146 8/M10x40	116	delivered in parts

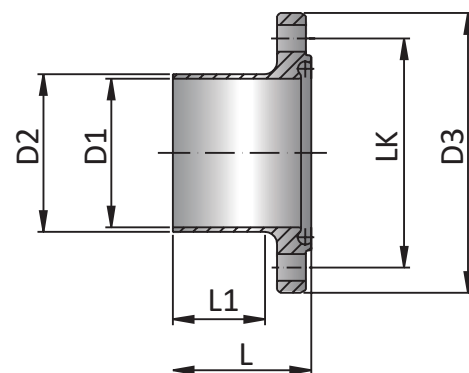


For ordering this product use the parts below

Nut Flange ISO Code: 13F	Liner Flange ISO Code: 14F	O'ring Code: ODG
		



Nominal Size DN	D1	D2	D3	E	L	L1	Ordering Code
8	10.3	13.5	54	37 4/M8x30	41.5	26	008000-13F-G* **
10	14.0	17.2	59	42 4/M8x30	41.5	26	010000-13F-G* **
15	18.1	21.3	62	45 4/M8x30	41.5	26	015000-13F-G* **
20	23.7	26.9	69	52 4/M8x30	41.5	26	020000-13F-G* **
25	29.7	33.7	74	57 4/M8x30	46.5	31	025000-13F-G* **
32	38.4	42.4	82	65 4/M8x30	46.5	31	032000-13F-G* **
40	44.3	48.3	88	71 4/M8x30	46.5	31	040000-13F-G* **
50	56.3	60.3	103	85 4/M8x30	55.5	42	050000-13F-G* **
65	72.1	76.1	125	104 8/M10x30	57.5	42	065000-13F-G* **
80	84.3	88.9	137	116 8/M10x35	59.5	42	080000-13F-G* **
100	109.7	114.3	168	146 8/M10x40	59.5	42	100000-13F-G* **



* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13F	10	010000-13F-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D1	D2	D3	LK	L	L1	Ordering Code
8	10.3	13.5	54	37 4 x Ø 9	40	26	008000-14F-G* **
10	14.0	17.2	59	42 4 x Ø 9	40	26	010000-14F-G* **
15	18.1	21.3	62	45 4 x Ø 9	40	26	015000-14F-G* **
20	23.7	26.9	69	52 4 x Ø 9	40	26	020000-14F-G* **
25	29.7	33.7	74	57 4 x Ø 9	45	31	025000-14F-G* **
32	38.4	42.4	82	65 4 x Ø 9	45	31	032000-14F-G* **
40	44.3	48.3	88	71 4 x Ø 9	45	31	040000-14F-G* **
50	56.3	60.3	103	85 4 x Ø 9	54	42	050000-14F-G* **
65	72.1	76.1	125	104 8 x Ø 11	56	42	065000-14F-G* **
80	84.3	88.9	137	116 8 x Ø 11	58	42	080000-14F-G* **
100	109.7	114.3	168	146 8 x Ø 11	58	42	100000-14F-G* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

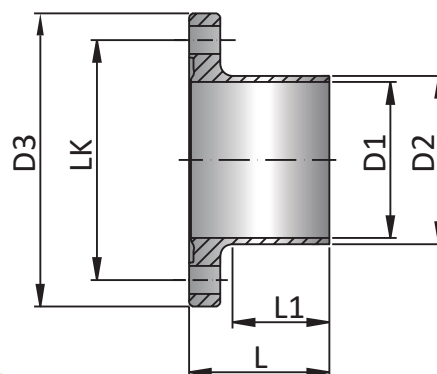


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

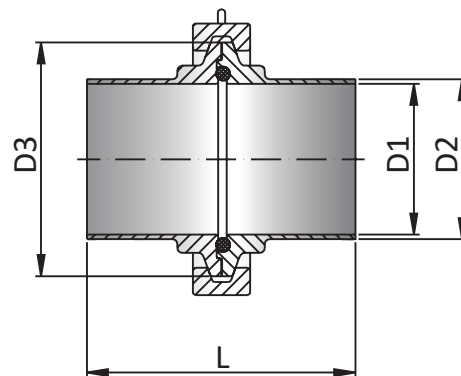
*MP: Mechanically Polished

Ordering Example

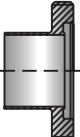
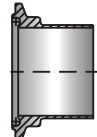
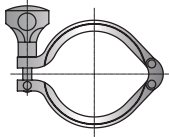
Description	Nominal Size DN	Ordering Code
Type 14F	10	010000-14F-G63*

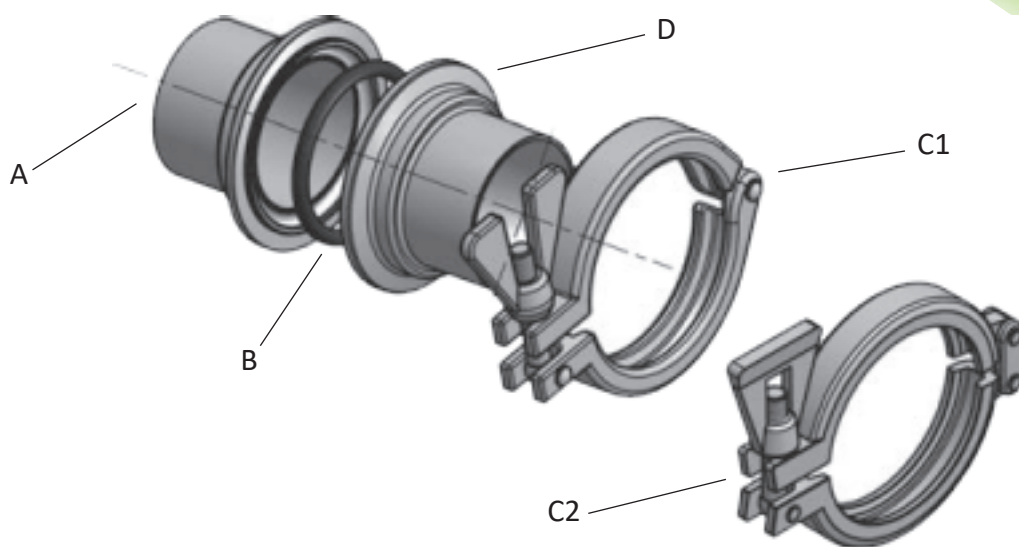
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
8	10.3	13.5	34	76	delivered in parts
10	14.0	17.2	34	76	delivered in parts
15	18.3	21.3	34	78	delivered in parts
20	23.7	26.9	50.5	78	delivered in parts
25	29.7	33.7	50.5	88	delivered in parts
32	38.4	42.4	64	88	delivered in parts
40	44.3	48.3	64	90	delivered in parts
50	56.3	60.3	91	114	delivered in parts
65	72.1	76.1	106	117	delivered in parts
80	84.3	88.9	119	122	delivered in parts



For ordering this product use the parts below

Male INCH Code: 13D	Clamp Nut ISO Code: 14D	Heavy Duty Clamp Code: 003	O'ring Code: ODG
			



- A Clamp nut
- B O-ring
- Heavy duty clamp
- C1 Single pin
- C2 Double pin
- D Clamp liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
1/2"	9.4	12.7	Rd 28x1/8"	76	76	015000-13D-G* **
3/4"	15.75	19.05	Rd 34x1/8"	76	76	020000-13D-G* **
1"	22.1	25.4	Rd 52x1/6"	77	77	025000-13D-G* **
1½"	34.8	38.1	Rd 65x1/6"	88	88	038000-13D-G* **
2"	47.5	50.8	Rd 78x1/6"	89	89	051000-13D-G* **
2½"	60.2	63.5	Rd 95x1/6"	115	115	063000-13D-G* **
3"	72.9	76.2	Rd 110x1/4"	117	117	076000-13D-G* **
4"	97.38	101.6	Rd 130x1/4"	119	119	100000-13D-G* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

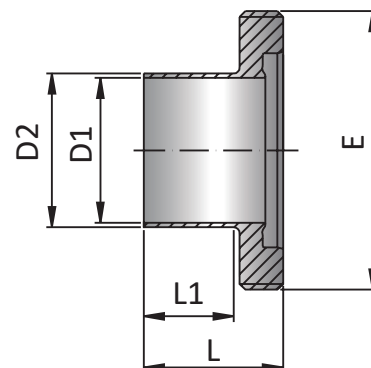


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

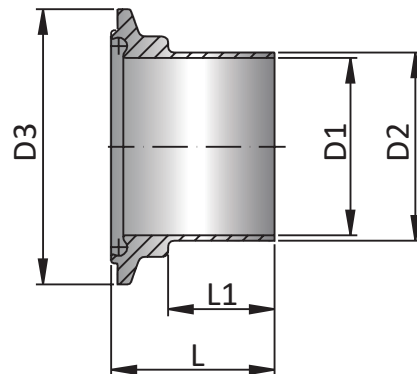
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13D	1/2"	015000-13D-G63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	34	39.5	26	008000-14D-G* **
10	14.0	17.2	34	39.5	26	010000-14D-G* **
15	18.3	21.3	34	40.5	26	015000-14D-G* **
20	23.7	26.9	50.5	40.0	30	020000-14D-G* **
25	29.7	33.7	50.5	45.5	30	025000-14D-G* **
32	38.4	42.4	64	45.5	30	032000-14D-G* **
40	44.3	48.3	64	46.5	30	040000-14D-G* **
50	56.3	60.3	91	58.5	40	050000-14D-G* **
65	72.1	76.1	106	60.0	40	065000-14D-G* **
80	84.3	88.9	119	62.5	40	080000-14D-G* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 14D	10	010000-14D-G63*

*Material and Surface are including to the ordering code

DIN 11864-2 FORM A
For tubes to DIN 11866
Series B

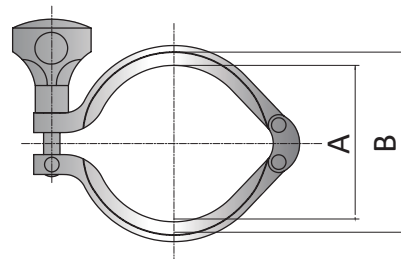
**Double Hinge
Heavy Duty Clamp**

**SEALING
SYSTEMS**

Nominal Size DN	A	B	Ordering Code
25-40	44.4	53.6	025040-003-1U
50	57.8	67.0	050000-003-1U
65	84.0	94.2	065000-003-1U
80	99	109.2	080000-003-1U
100	110	122.2	100000-003-1U
125	144	159	125000-003-1U
150	172	187	150000-003-1U
200	222.5	237.5	200000-003-1U

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2



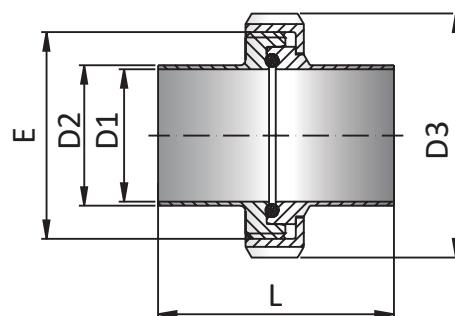
Material

304L/Unpolished

Ordering Example

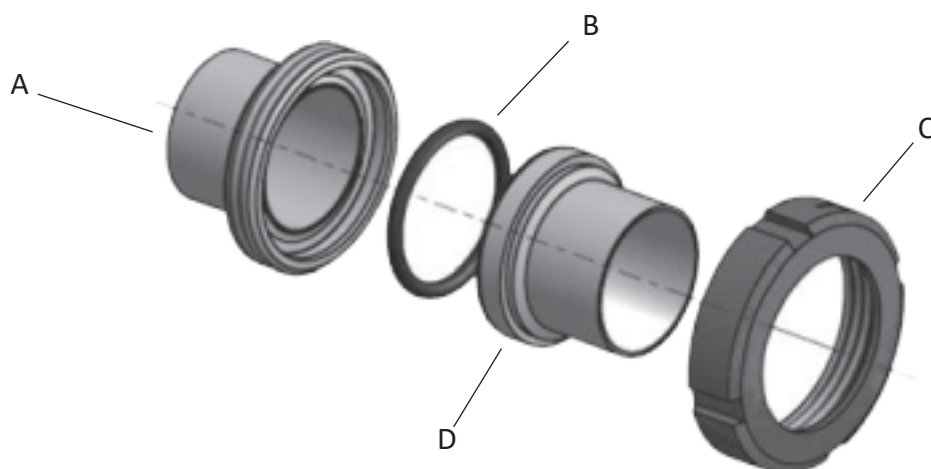
Description	Nominal Size DN	Ordering Code
Type 003	25-40	025040-003-1U

Nominal Size	D1	D2	D3	E	L	Ordering Code
1/2"	9.4	12.7	38	Rd 28x1/8"	76	delivered in parts
3/4"	15.75	19.05	44	Rd 34x1/8"	76	delivered in parts
1"	22.1	25.4	63	Rd 52x1/6"	77	delivered in parts
1½"	34.8	38.1	78	Rd 65x1/6"	88	delivered in parts
2"	47.5	50.8	92	Rd 78x1/6"	89	delivered in parts
2½"	60.2	63.5	112	Rd 95x1/6"	115	delivered in parts
3"	72.9	76.2	127	Rd 110x1/4"	117	delivered in parts
4"	97.38	101.6	148	Rd 130x1/4"	119	delivered in parts



For ordering this product use the parts below

Male INCH Code: 13D	Liner INCH Code: 14D	Nut DIN Code: 120	O'ring Code: ODA



- A** Male
- B** O-ring
- C** Nut
- D** Liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
1/2"	9.4	12.7	Rd 28 x 1/8"	41	27	015000-13D-A* **
3/4"	15.75	19.05	Rd 34 x 1/8"	41	27	020000-13D-A* **
1"	22.1	25.4	Rd 52 x 1/6"	43	26	025000-13D-A* **
1 1/2"	34.8	38.1	Rd 65 x 1/6"	48.5	30	038000-13D-A* **
2"	47.5	50.8	Rd 78 x 1/6"	48.5	30	051000-13D-A* **
2 1/2"	60.2	63.5	Rd 95 x 1/6"	60	40	063000-13D-A* **
3"	72.9	76.2	Rd 110 x 1/4"	64	40	076000-13D-A* **
4"	97.38	101.60	Rd 130 x 1/4"	64	40	100000-13D-A* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

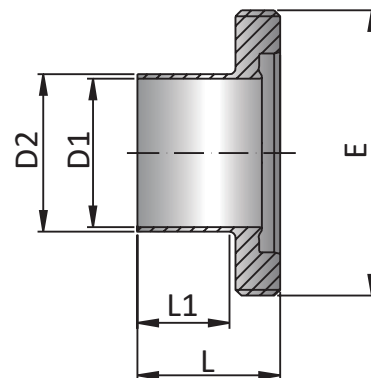


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13D	1/2"	015000-13D-A63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.4	12.7	21.9	39	27	015000-14D-A* **
3/4"	15.75	19.05	27.9	39	27	020000-14D-A* **
1"	22.1	25.4	42.9	40	26	025000-14D-A* **
1 1/2"	34.8	38.1	54.9	46.5	30	038000-14D-A* **
2"	47.5	50.8	66.9	47.5	30	051000-14D-A* **
2 1/2"	60.2	63.5	84.9	63	40	063000-14D-A* **
3"	72.9	76.2	98.9	61	40	076000-14D-A* **
4"	97.38	101.60	118.9	65	40	100000-14D-A* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

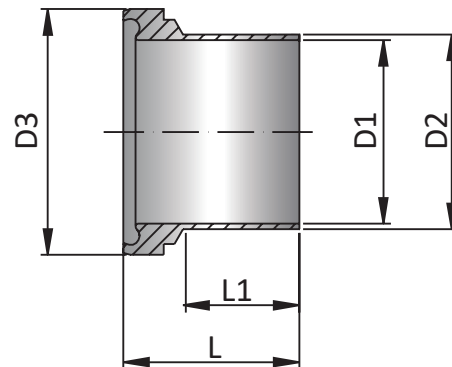


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

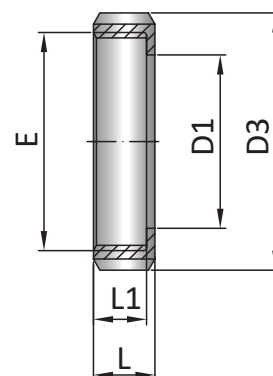
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 14D	1/2"	015000-14D-A63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

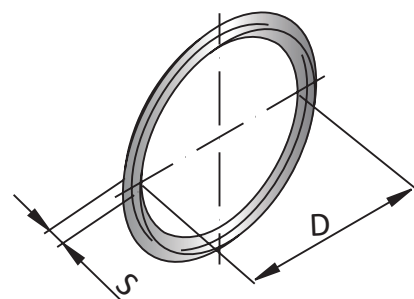
*Material and Surface are including to the ordering code

DIN 11864-1 FORM A
For tubes to DIN 11866
Series C

O'ring

**SEALING
SYSTEMS**

Nominal Size	D	S	Ordering Code
1/2"	12	3.5	015-ODA/*
3/4"	18	3.5	020-ODA/*
1"	24	3.5	025-ODA/*
1½"	37	5	038-ODA/*
2"	50	5	051-ODA/*
2½"	62	5	063-ODA/*
3"	75	5	076-ODA/*
4"	100	5	100-ODA/*



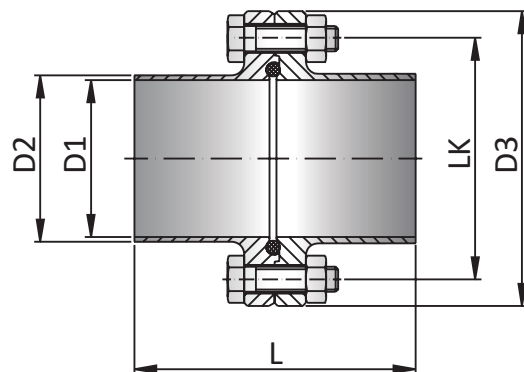
Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

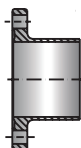
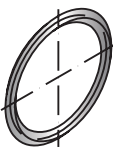
Ordering Example

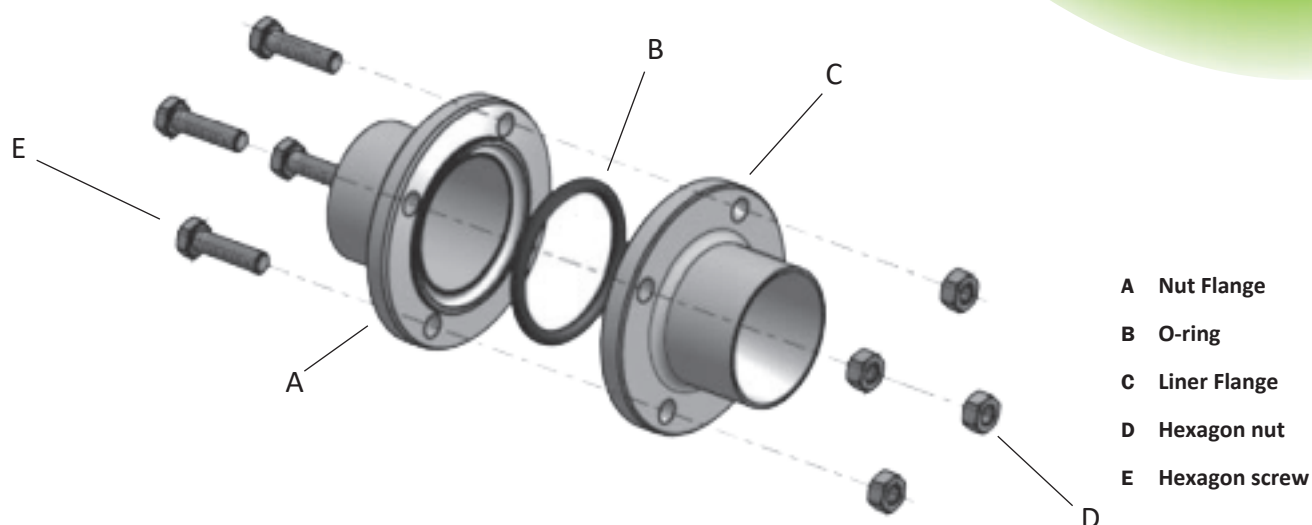
Description	Nominal Size DN	Ordering Code
Type ODA	1/2"	015000-ODA/EP

Nomimal Size	D1	D2	D3	LK	L	Ordering Code
1/2"	9.4	12.7	54	37 4/M8x30	80	delivered in parts
3/4"	15.75	19.05	59	42 4/M8x30	80	delivered in parts
1"	22.1	25.4	66	49 4/M8x30	80	delivered in parts
1½"	34.8	38.1	79	62 4/M8x30	90	delivered in parts
2"	47.5	50.8	92	75 4/M8x30	90	delivered in parts
2½"	60.2	63.5	107	89 8/M8x30	108	delivered in parts
3"	72.9	76.2	125	104 8/M10x30	112	delivered in parts
4"	97.38	101.6	157	135 8/M10x35	116	delivered in parts

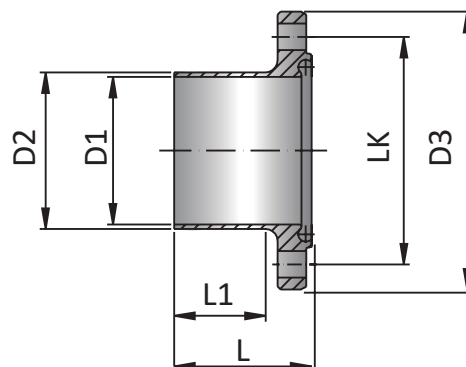


For ordering this product use the parts below

Nut Flange INCH Code: 13F	Liner Flange INCH Code: 14F	O'ring Code: ODA
		



Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
1/2"	9.4	12.7	54	37 4 x Ø 9	41.5	26	015000-13F-A* **
3/4"	15.75	19.05	59	42 4 x Ø 9	41.5	26	020000-13F-A* **
1"	22.1	25.4	66	49 4 x Ø 9	41.5	26	025000-13F-A* **
1½"	34.8	38.1	79	62 4 x Ø 9	46.5	31	038000-13F-A* **
2"	47.5	50.8	92	75 4 x Ø 9	46.5	31	051000-13F-A* **
2½"	60.2	63.5	107	89 8 x Ø 9	55.5	42	063000-13F-A* **
3"	72.9	76.2	125	104 8 x Ø 11	57.5	42	076000-13F-A* **
4"	97.38	101.6	157	135 8 x Ø 11	59.5	42	100000-13F-A* **



* The first digit referse to material guide, according to Table 1
 ** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

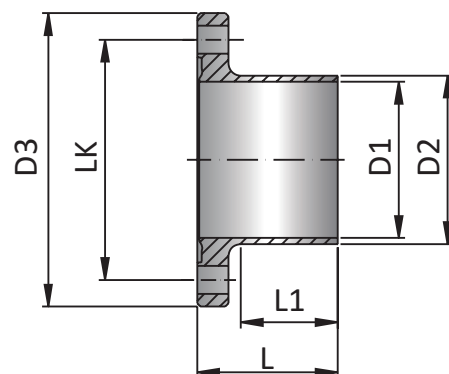
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13F	1/2"	015000-13F-A63*

*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	LK	L	L1	Ordering Code
1/2"	9.4	12.7	54	37 4 x Ø 9	40	26	015000-14F-A* **
3/4"	15.75	19.05	59	42 4 x Ø 9	40	26	020000-14F-A* **
1"	22.1	25.4	66	49 4 x Ø 9	40	26	025000-14F-A* **
1½"	34.8	38.1	79	62 4 x Ø 9	45	31	038000-14F-A* **
2"	47.5	50.8	92	75 4 x Ø 9	45	31	051000-14F-A* **
2½"	60.2	63.5	107	89 8 x Ø 9	54	42	063000-14F-A* **
3"	72.9	76.2	125	104 8 x Ø 11	56	42	076000-14F-A* **
4"	97.38	101.6	157	135 8 x Ø 11	58	42	100000-14F-A* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

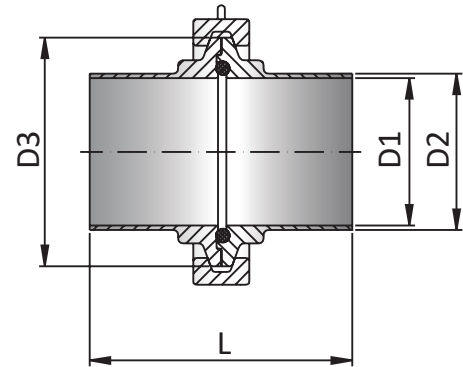
*MP: Mechanically Polished

Ordering Example

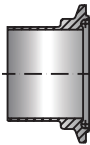
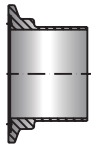
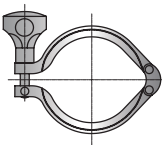
Description	Nomimal Size DN	Ordering Code
Type 14F	1/2"	015000-14F-A63 *

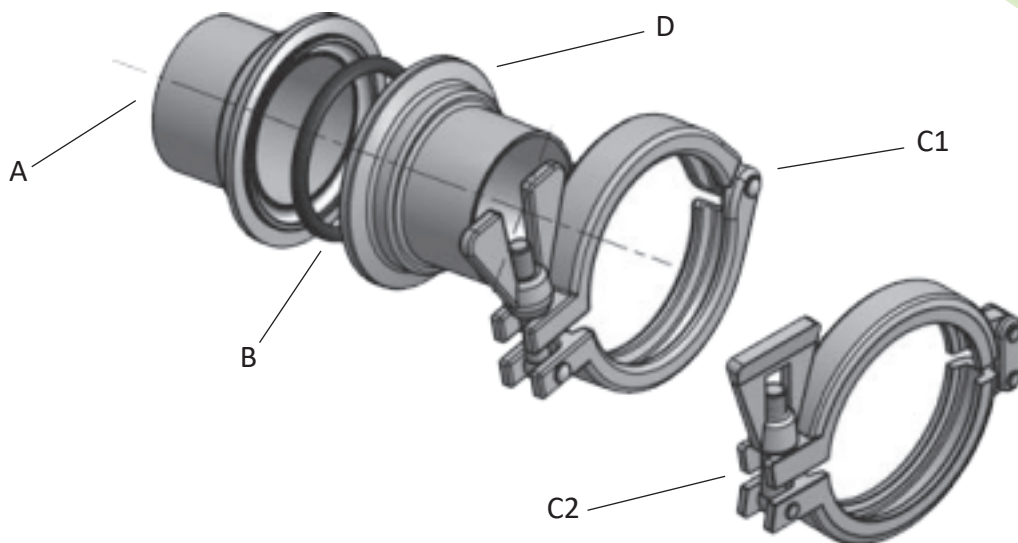
*Material and Surface are inclouging to the ordering code

Nomimal Size	D1	D2	D3	L	Ordering Code
1/2"	9.4	12.7	34	76	delivered in parts
3/4"	15.75	19.05	34	76	delivered in parts
1"	22.1	25.4	50.5	77	delivered in parts
1½"	34.8	38.1	64	88	delivered in parts
2"	47.5	50.8	77.5	89	delivered in parts
2½"	60.2	63.5	91	115	delivered in parts
3"	72.9	76.2	106	117	delivered in parts
4"	97.38	101.6	130	119	delivered in parts



For ordering this product use the parts below

Clamp Nut INCH Code: 13C	Clamp Liner INCH Code: 14C	Heavy Duty Clamp Code: 003	O'ring Code: ODA
			



- A** Clamp nut
- B** O-ring
- Heavy duty clamp**
- C1** Single pin
- C2** Double pin
- D** Clamp liner

Nominal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.4	12.7	34	39.5	26	015000-13C-A* **
3/4"	15.75	19.05	34	39.5	26	020000-13C-A* **
1"	22.1	25.4	50.5	40	28	025000-13C-A* **
1½"	34.8	38.1	64	45.5	30	038000-13C-A* **
2"	47.5	50.8	77.5	46	30	051000-13C-A* **
2½"	60.2	63.5	91	59	40	063000-13C-A* **
3"	72.9	76.2	106	60	40	076000-13C-A* **
4"	97.38	101.6	130	61	40	100000-13C-A* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

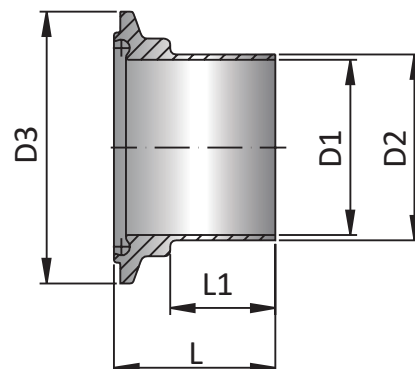


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 13C	1/2"	015000-13C-A63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.4	12.7	34	39.5	26	015000-14C-A* **
3/4"	15.75	19.05	34	39.5	26	020000-14C-A* **
1"	22.1	25.4	50.5	40	28	025000-14C-A* **
1½"	34.8	38.1	64	45.5	30	038000-14C-A* **
2"	47.5	50.8	77.5	46	30	051000-14C-A* **
2½"	60.2	63.5	91	59	40	063000-14C-A* **
3"	72.9	76.2	106	60	40	076000-14C-A* **
4"	97.38	101.6	130	61	40	100000-14C-A* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

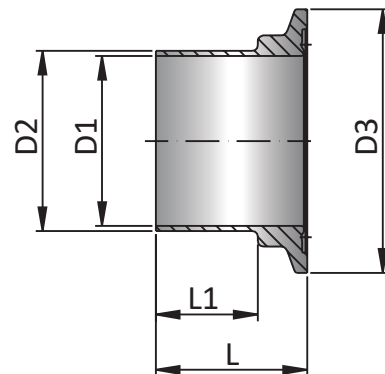


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

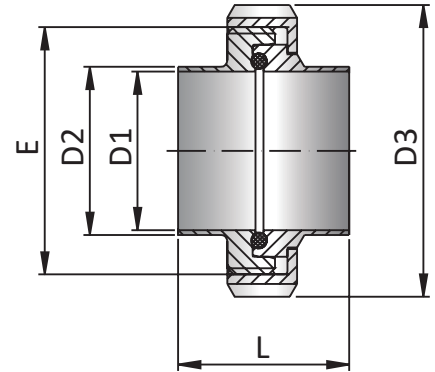
*MP: Mechanically Polished

Ordering Example

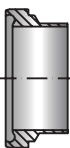
Description	Nominal Size DN	Ordering Code
Type 14C	1/2"	015000-14C-A63*

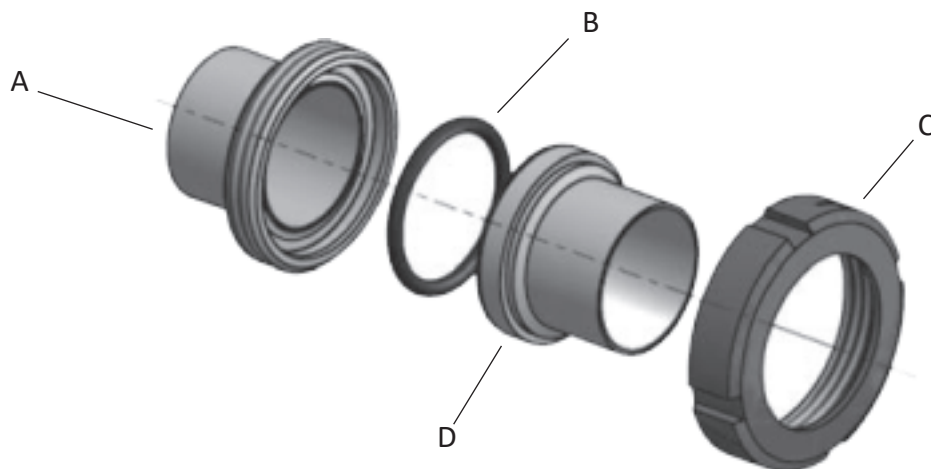
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	E	L	Ordering Code
10	10	13	38	Rd 28x1/8"	32	delivered in parts
15	16	19	44	Rd 34x1/8"	32	delivered in parts
20	20	23	54	Rd 44x1/6"	34	delivered in parts
25	26	29	63	Rd 52x1/6"	42	delivered in parts
32	32	35	70	Rd 58x1/6"	48	delivered in parts
40	38	41	78	Rd 65x1/6"	50	delivered in parts
50	50	53	92	Rd 78x1/4"	54	delivered in parts
65	66	70	112	Rd 95x1/4"	62	delivered in parts
80	81	85	127	Rd 110x1/4"	72	delivered in parts
100	100	104	148	Rd 130x1/4"	86	delivered in parts



For ordering this product use the parts below

Male DIN Short Code: 11D	Liner DIN Short Code: 12D	Nut DIN Code: 120	O'ring Code: ODD
			



- A** Male
- B** O-ring
- C** Nut
- D** Liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
10	10	13	Rd 28x1/8"	19	5	010000-11D-D* **
15	16	19	Rd 34x1/8"	19	5	015000-11D-D* **
20	20	23	Rd 44x1/6"	21	5	020000-11D-D* **
25	26	29	Rd 52x1/6"	26	10	025000-11D-D* **
32	32	35	Rd 58x1/6"	30	14	032000-11D-D* **
40	38	41	Rd 65x1/6"	31	15	040000-11D-D* **
50	50	53	Rd 78x1/4"	31	15	050000-11D-D* **
65	66	70	Rd 95x1/4"	36	16	065000-11D-D* **
80	81	85	Rd 110x1/4"	42	18	080000-11D-D* **
100	100	104	Rd 130x1/4"	50	26	100000-11D-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

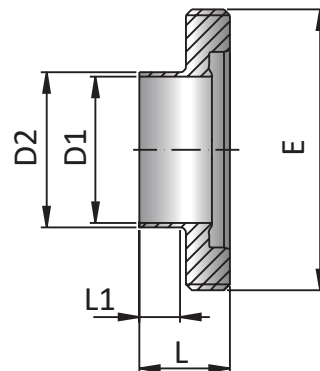


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11D	10	010000-11D-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	21.9	17	26	010000-12D-D* **
15	16	19	27.9	17	26	015000-12D-D* **
20	20	23	35.9	18	28	020000-12D-D* **
25	26	29	42.9	22	30	025000-12D-D* **
32	32	35	48.9	25	30	032000-12D-D* **
40	38	41	54.9	26	40	040000-12D-D* **
50	50	53	66.9	30	40	050000-12D-D* **
65	66	70	84.9	34	40	065000-12D-D* **
80	81	85	98.9	38	40	080000-12D-D* **
100	100	104	118.9	46	40	100000-12D-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

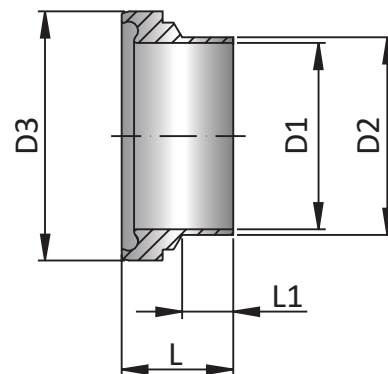


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

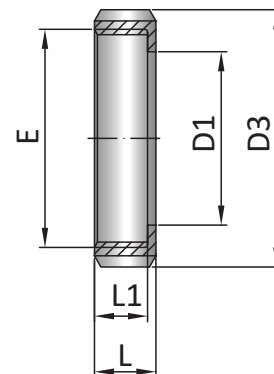
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12D	10	010000-12D-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

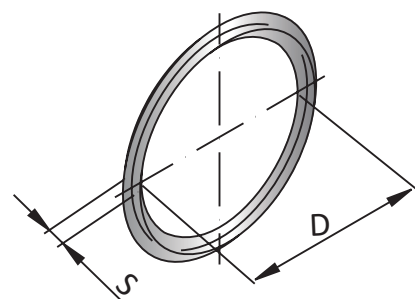
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

*Material and Surface are including to the ordering code

Nominal Size	D	S	Ordering Code
10	12	3.5	010-ODD/*
15	18	3.5	015-ODD/*
20	22	3.5	020-ODD/*
25	28	5	025-ODD/*
32	34	5	032-ODD/*
40	40	5	040-ODD/*
50	52	5	050-ODD/*
65	68	5	065-ODD/*
80	83	5	080-ODD/*
100	102	5	100-ODD/*
125	127	5	125-ODD/*
150	152	5	150-ODD/*



Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

Ordering Example

Description	Nominal Size DN	Ordering Code
Type ODA	10	010000-ODA/EP

Nominal Size	D4	E	SW	L	L1	Ordering Code
10	22	Rd 28x1/8"	17	24	12	010000-03D-D* **
15	22	Rd 34x1/8"	17	24	12	015000-03D-D* **
20	22	Rd 44x1/6"	17	24	10	020000-03D-D* **
25	40	Rd 52x1/6"	27	24	10	025000-03D-D* **
32	40	Rd 58x1/6"	27	24	10	032000-03D-D* **
40	40	Rd 65x1/6"	27	24	10	040000-03D-D* **
50	40	Rd 78x1/4"	27	24	10	050000-03D-D* **
65	48	Rd 95x1/4"	32	28	12	065000-03D-D* **
80	48	Rd 110x1/4"	32	28	8	080000-03D-D* **
100	48	Rd 130x1/4"	32	30	10	100000-03D-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

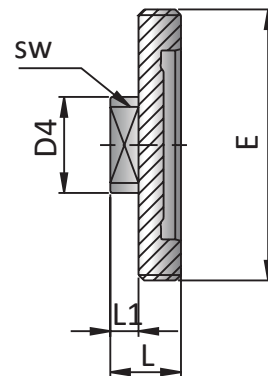


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03D	10	010000-03D-D63*

*Material and Surface are including to the ordering code

Nominal Size	D3	D4	L	L1	Ordering Code
10	21.9	18	9	3	010000-04D-D* **
15	27.9	24	9	3	015000-04D-D* **
20	35.9	30	10	3	020000-04D-D* **
25	42.9	35	12	3	025000-04D-D* **
32	48.9	41	13	3	032000-04D-D* **
40	54.9	48	13	3	040000-04D-D* **
50	66.9	61	14	3	050000-04D-D* **
65	84.9	79	16	4	065000-04D-D* **
80	98.9	93	16	4	080000-04D-D* **
100	118.9	114	20	5	100000-04D-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

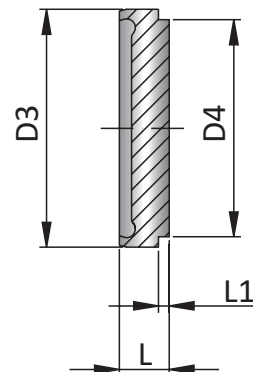


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

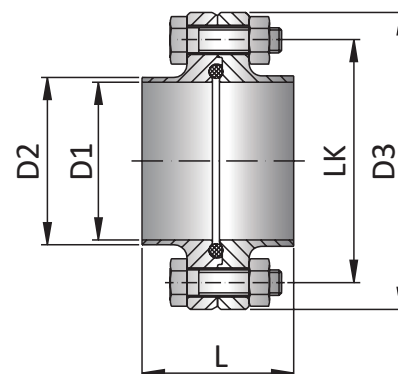
*MP: Mechanically Polished

Ordering Example

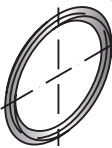
Description	Nominal Size DN	Ordering Code
Type 04D	10	010000-04D-D63*

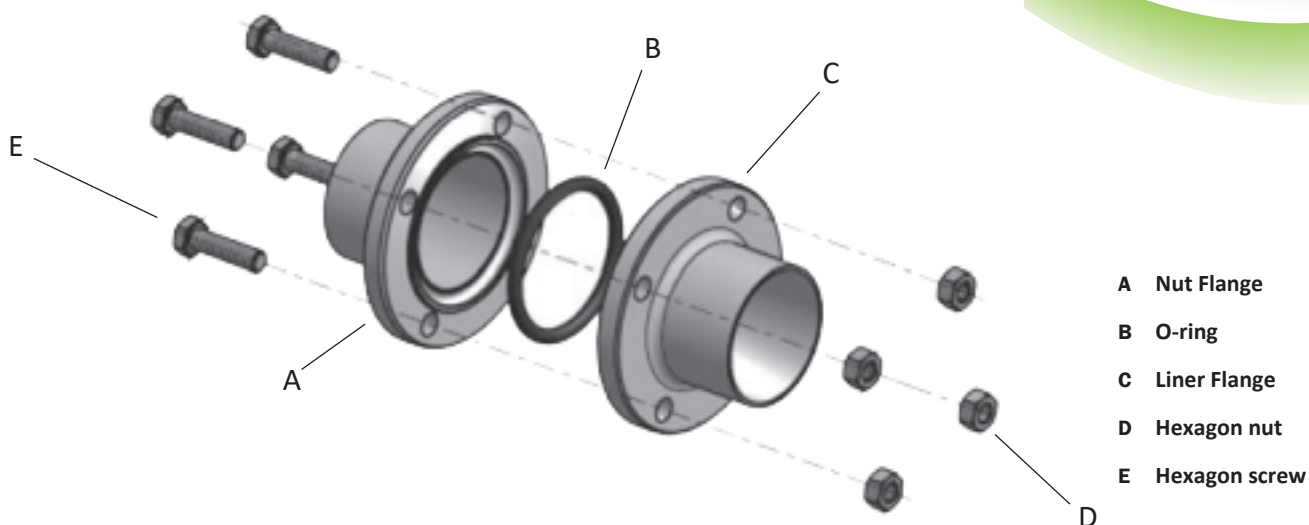
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	LK	L	Ordering Code
10	10	13	54	37 4/M8x30	48	delivered in parts
15	16	19	59	42 4/M8x30	48	delivered in parts
20	20	23	64	47 4/M8x30	48	delivered in parts
25	26	29	70	53 4/M8x30	48	delivered in parts
32	32	35	76	59 4/M8x30	48	delivered in parts
40	38	41	82	65 4/M8x30	48	delivered in parts
50	50	53	94	77 4/M8x30	48	delivered in parts
65	66	70	113	95 8/M8x30	48	delivered in parts
80	81	85	133	112 8/M10x35	52	delivered in parts
100	100	104	159	137 8/M10x40	52	delivered in parts
125	125	129	183	161 8/M10x40	56	delivered in parts
150	150	154	213	188 8/M12x50	56	delivered in parts



For ordering this product use the parts below

Nut Flange DIN Short Code: 11F	Liner Flange DIN Short Code: 12F	O'ring Code: ODD
		



Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
10	10	13	54	37 4 x Ø 9	25.5	10	010000-11F-D* **
15	16	19	59	42 4 x Ø 9	25.5	10	015000-11F-D* **
20	20	23	64	47 4 x Ø 9	25.5	10	020000-11F-D* **
25	26	29	70	53 4 x Ø 9	25.5	10	025000-11F-D* **
32	32	35	76	59 4 x Ø 9	25.5	10	032000-11F-D* **
40	38	41	82	65 4 x Ø 9	25.5	10	040000-11F-D* **
50	50	53	94	77 4 x Ø 9	25.5	10	050000-11F-D* **
65	66	70	113	95 8 x Ø 9	25.5	10	065000-11F-D* **
80	81	85	133	112 8 x Ø 11	27.5	10	080000-11F-D* **
100	100	104	159	137 8 x Ø 11	27.5	10	100000-11F-D* **
125	125	129	183	161 8 x Ø 11	29.5	10	125000-11F-D* **
150	150	154	213	188 8 x Ø 14	29.5	8	150000-11F-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

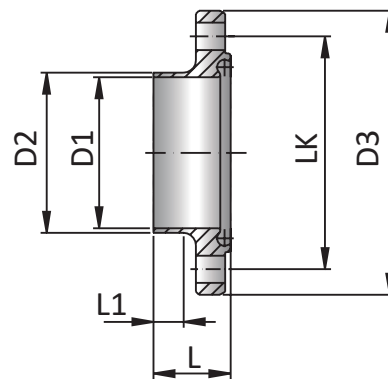


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

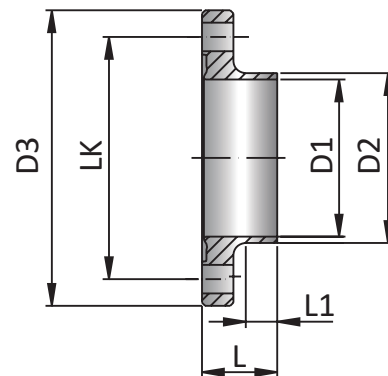
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11F	10	010000-11F-D63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
10	10	13	54	37 4 x Ø 9	24	10	010000-12F-D* **
15	16	19	59	42 4 x Ø 9	24	10	015000-12F-D* **
20	20	23	64	47 4 x Ø 9	24	10	020000-12F-D* **
25	26	29	70	53 4 x Ø 9	24	10	025000-12F-D* **
32	32	35	76	59 4 x Ø 9	24	10	032000-12F-D* **
40	38	41	82	65 4 x Ø 9	24	10	040000-12F-D* **
50	50	53	94	77 4 x Ø 9	24	10	050000-12F-D* **
65	66	70	113	95 8 x Ø 9	24	10	065000-12F-D* **
80	81	85	133	112 8 x Ø 11	26	10	080000-12F-D* **
100	100	104	159	137 8 x Ø 11	26	10	100000-12F-D* **
125	125	129	183	161 8 x Ø 11	28	10	125000-12F-D* **
150	150	154	213	188 8 x Ø 14	28	8	150000-12F-D* **



* The first digit refer to material guide, according to Table 1
** The last digit refer to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03F	10	010000-03F-D63*

*Material and Surface are including to the ordering code

Nominal Size	D3	LK	L	Ordering Code
10	54	37 4 x Ø 9	11.5	010000-03F-D* **
15	59	42 4 x Ø 9	11.5	015000-03F-D* **
20	64	47 4 x Ø 9	11.5	020000-03F-D* **
25	70	53 4 x Ø 9	11.5	025000-03F-D* **
32	76	59 4 x Ø 9	11.5	032000-03F-D* **
40	82	65 4 x Ø 9	11.5	040000-03F-D* **
50	94	77 4 x Ø 9	11.5	050000-03F-D* **
65	113	95 8 x Ø 9	11.5	065000-03F-D* **
80	133	112 8 x Ø 11	13.5	080000-03F-D* **
100	159	137 8 x Ø 11	15.5	100000-03F-D* **
125	183	161 8 x Ø 11	15.5	125000-03F-D* **
150	213	188 8 x Ø 14	17.5	150000-03F-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

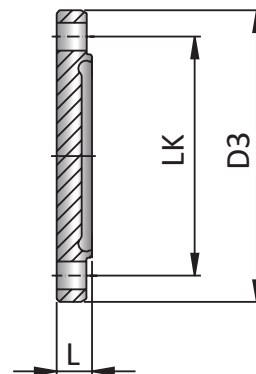


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03F	10	010000-03F-D63*

*Material and Surface are including to the ordering code

Nominal Size	D3	LK	L	Ordering Code
10	54	37 4 x Ø 9	10	010000-04F-D* **
15	59	42 4 x Ø 9	10	015000-04F-D* **
20	64	47 4 x Ø 9	10	020000-04F-D* **
25	70	53 4 x Ø 9	10	025000-04F-D* **
32	76	59 4 x Ø 9	10	032000-04F-D* **
40	82	65 4 x Ø 9	10	040000-04F-D* **
50	94	77 4 x Ø 9	10	050000-04F-D* **
65	113	95 8 x Ø 9	10	065000-04F-D* **
80	133	112 8 x Ø 11	12	080000-04F-D* **
100	159	137 8 x Ø 11	14	100000-04F-D* **
125	183	161 8 x Ø 11	14	125000-04F-D* **
150	213	188 8 x Ø 14	16	150000-04F-D* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

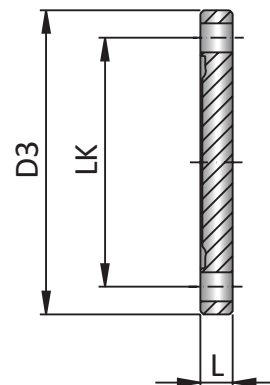


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

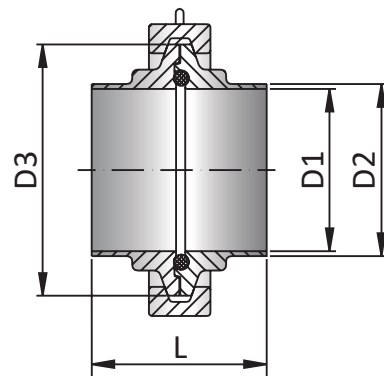
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 04F	10	010000-04F-D63*

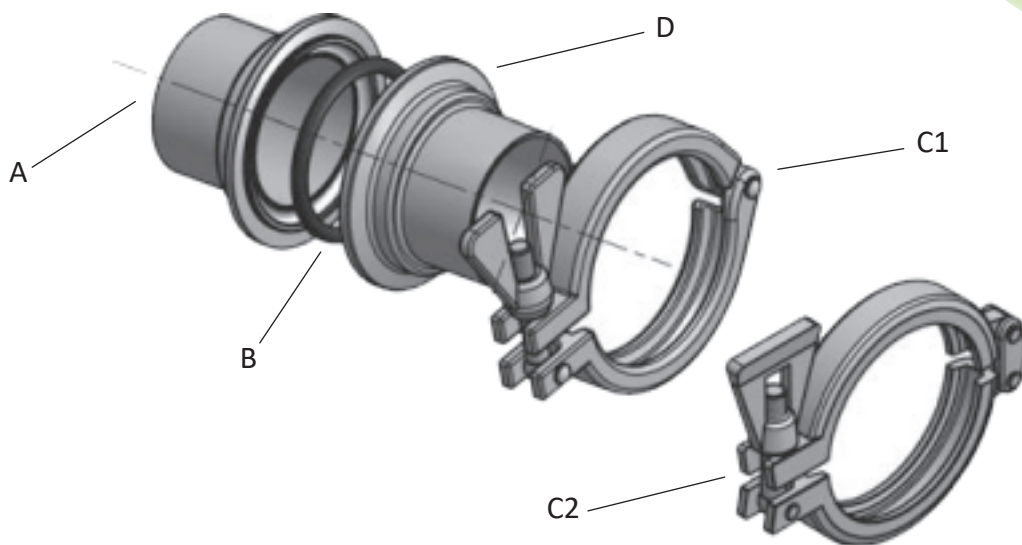
*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	L	Ordering Code
10	10	13	34	44	delivered in parts
15	16	19	34	44	delivered in parts
20	20	23	50.5	44	delivered in parts
25	26	29	50.5	44	delivered in parts
32	32	35	50.5	48	delivered in parts
40	38	41	64	48	delivered in parts
50	50	53	77.5	49	delivered in parts
65	66	70	91	53	delivered in parts
80	81	85	106	57	delivered in parts
100	100	104	130	60	delivered in parts



For ordering this product use the parts below

Male DIN Short Code: 11C	Clamp Nut DIN Short Code: 12C	Heavy Duty Clamp Code: 003	O'ring Code: ODD



A Clamp nut

B O-ring

Heavy duty clamp

C1 Single pin

C2 Double pin

D Clamp liner

Nominal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	34	23.5	10	010000-11C-D* **
15	16	19	34	23.5	10	015000-11C-D* **
20	20	23	50.5	23.5	10	020000-11C-D* **
25	26	29	50.5	23.5	10	025000-11C-D* **
32	32	35	50.5	25.5	10	032000-11C-D* **
40	38	41	64	25.5	10	040000-11C-D* **
50	50	53	77.5	26	10	050000-11C-D* **
65	66	70	91	28	10	065000-11C-D* **
80	81	85	106	30	10	080000-11C-D* **
100	100	104	130	31.5	10	100000-11C-D* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

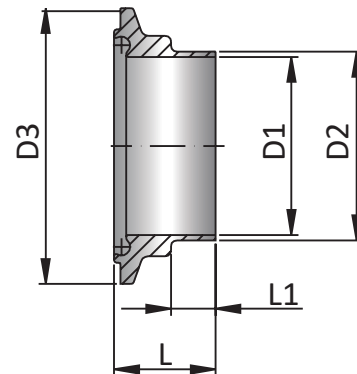


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11C	10	010000-11C-D63*

*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	L	L1	Ordering Code
10	10	13	34	22	10	010000-12C-D* **
15	16	19	34	22	10	015000-12C-D* **
20	20	23	50.5	22	10	020000-12C-D* **
25	26	29	50.5	22	10	025000-12C-D* **
32	32	35	50.5	24	10	032000-12C-D* **
40	38	41	64	24	10	040000-12C-D* **
50	50	53	77.5	24.5	10	050000-12C-D* **
65	66	70	91	26.5	10	065000-12C-D* **
80	81	85	106	28.5	10	080000-12C-D* **
100	100	104	130	30	10	100000-12C-D* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

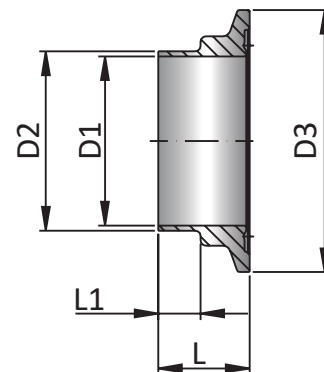


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 12C	10	010000-12C-D63*

*Material and Surface are including to the ordering code

DIN 11853-3 FORM A
For tubes to DIN 11866
Series A

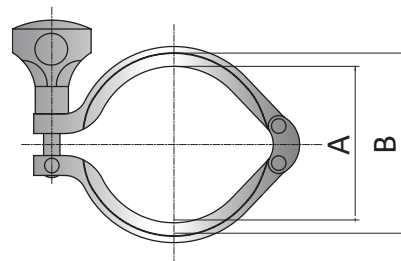
**Double Hinge
Heavy Duty Clamp**

**SEALING
SYSTEMS**

Nominal Size DN	A	B	Ordering Code
25-40	44.4	53.6	025040-003-1U
50	57.8	67.0	050000-003-1U
65	84.0	94.2	065000-003-1U
80	99	109.2	080000-003-1U
100	110	122.2	100000-003-1U
125	144	159	125000-003-1U
150	172	187	150000-003-1U
200	222.5	237.5	200000-003-1U

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2



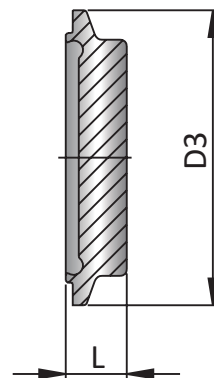
Material

304L/Unpolished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 003	25-40	025040-003-1U

Nomimal Size	D3	L	Ordering Code
10	34	13	010000-03D-C* **
15	34	13	015000-03D-C* **
20	50.5	13	020000-03D-C* **
25	50.5	13	025000-03D-C* **
32	50.5	13	032000-03D-C* **
40	64	13	040000-03D-C* **
50	77.5	15	050000-03D-C* **
65	91	15	065000-03D-C* **
80	106	15	080000-03D-C* **
100	130	15	100000-03D-C* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 03D	10	010000-03D-C63*

*Material and Surface are including to the ordering code

Nomimal Size	D3	L	Ordering Code
10	34	11.5	010000-04D-C* **
15	34	11.5	015000-04D-C* **
20	50.5	11.5	020000-04D-C* **
25	50.5	11.5	025000-04D-C* **
32	50.5	11.5	032000-04D-C* **
40	64	11.5	040000-04D-C* **
50	77.5	13.5	050000-04D-C* **
65	91	13.5	065000-04D-C* **
80	106	13.5	080000-04D-C* **
100	130	13.5	100000-04D-C* **

* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

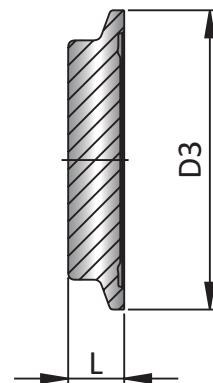


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

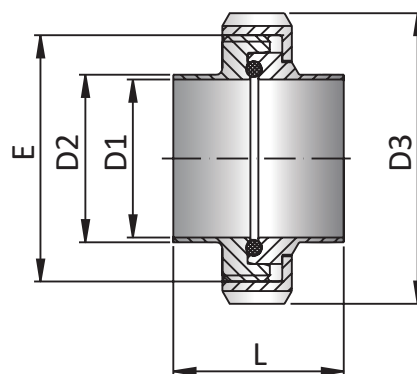
*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 04D	10	010000-04D-C63*

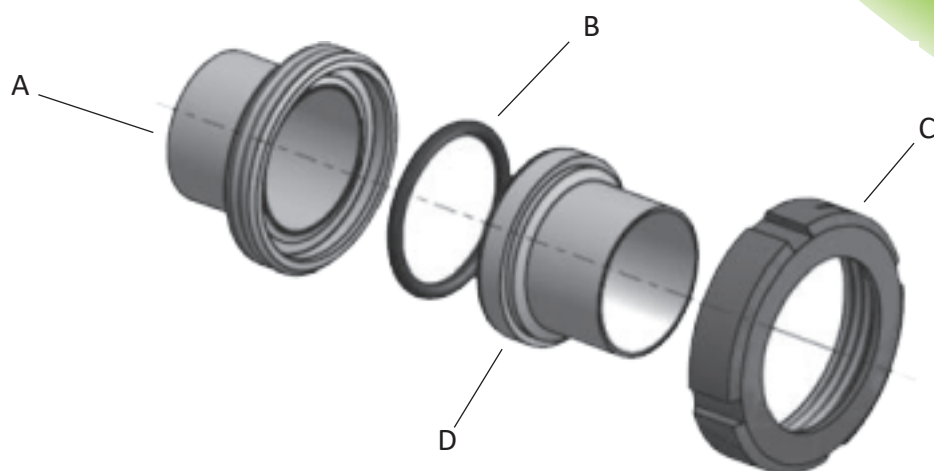
*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	E	L	Ordering Code
13.5	10.3	13.5	38	Rd 28x1/8"	32	delivered in parts
17.2	14.0	17.2	44	Rd 34x1/8"	32	delivered in parts
21.3	18.1	21.3	54	Rd 44x1/6"	34	delivered in parts
26.9	23.7	26.9	63	Rd 52x1/6"	42	delivered in parts
33.7	29.7	33.7	70	Rd 58x1/6"	48	delivered in parts
42.7	38.4	42.4	78	Rd 65x1/6"	50	delivered in parts
48.3	44.3	48.3	92	Rd 78x1/4"	54	delivered in parts
60.3	56.3	60.3	112	Rd 95x1/4"	62	delivered in parts
76.1	72.1	76.1	127	Rd 110x1/4"	72	delivered in parts
88.9	84.3	88.9	148	Rd 130x1/4"	86	delivered in parts



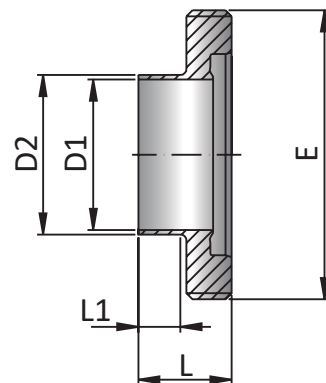
For ordering this product use the parts below

Male ISO Short Code: 11D	Liner ISO Short Code: 12D	Nut DIN Code: 120	O'ring Code: ODD
			



- A Male
- B O-ring
- C Nut
- D Liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
13.5	10.3	13.5	Rd 28x1/8"	19	5	015000-11D-G* **
17.2	14.0	17.2	Rd 34x1/8"	19	5	020000-11D-G* **
21.3	18.1	21.3	Rd 44x1/6"	21	5	025000-11D-G* **
26.9	23.7	26.9	Rd 52x1/6"	26	7	038000-11D-G* **
33.7	29.7	33.7	Rd 58x1/6"	30	9	051000-11D-G* **
42.7	38.7	42.4	Rd 65x1/6"	31	11	063000-11D-G* **
48.3	44.3	48.3	Rd 78x1/6"	31	12	076000-11D-G* **
60.3	56.3	60.3	Rd 95x1/6"	36	12	100000-11D-G* **
76.1	72.1	76.1	Rd 110x1/4"	42	17	076000-11D-G* **
88.9	84.3	88.9	Rd 130x1/4"	50	18	100000-11D-G* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11D	10	010000-11D-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	21.9	17	5	008000-12D-G* **
10	14.0	17.2	27.9	17	5	010000-12D-G* **
15	18.1	21.3	35.9	18	5	015000-12D-G* **
20	23.7	26.9	42.9	22	7	020000-12D-G* **
25	29.7	33.7	48.9	25	9	025000-12D-G* **
32	38.4	42.4	54.9	26	11	032000-12D-G* **
40	44.3	48.3	66.9	30	12	040000-12D-G* **
50	56.3	60.3	84.9	34	12	050000-12D-G* **
65	72.1	76.1	98.9	38	17	065000-12D-G* **
80	84.3	88.9	118.9	46	18	080000-12D-G* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

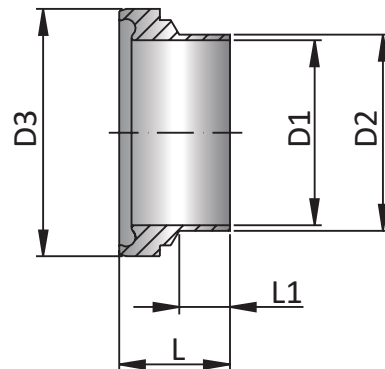


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

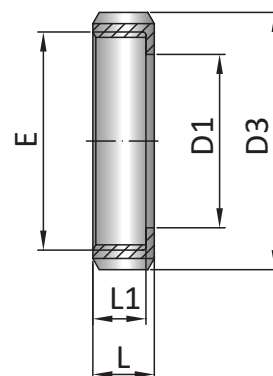
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12D	10	010000-12D-G63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

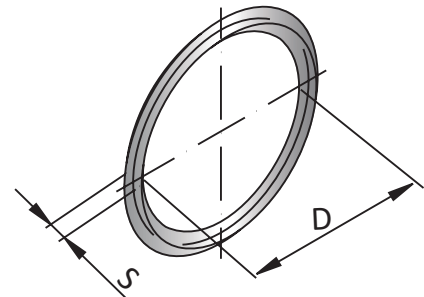
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

*Material and Surface are including to the ordering code

Nominal Size	D	S	Ordering Code
10	12	3.5	010-ODD/*
15	18	3.5	015-ODD/*
20	22	3.5	020-ODD/*
25	28	5	025-ODD/*
32	34	5	032-ODD/*
40	40	5	040-ODD/*
50	52	5	050-ODD/*
65	68	5	065-ODD/*
80	83	5	080-ODD/*
100	102	5	100-ODD/*
125	127	5	125-ODD/*
150	152	5	150-ODD/*



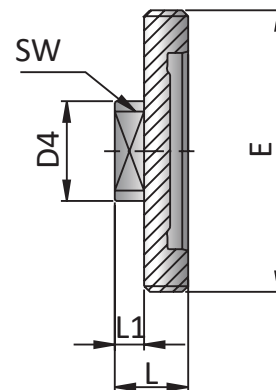
Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

Ordering Example

Description	Nominal Size DN	Ordering Code
Type ODA	10	010000-ODA/EP

Nominal Size DN	D4	E	SW	L	L1	Ordering Code
10	22	Rd 28 x 1/8"	17	24	12	010000-03D-G* **
15	22	Rd 34 x 1/8"	17	24	12	015000-03D-G* **
20	22	Rd 44 x 1/6"	17	24	10	020000-03D-G* **
25	40	Rd 52 x 1/6"	27	24	10	025000-03D-G* **
32	40	Rd 58 x 1/6"	27	24	10	032000-03D-G* **
40	40	Rd 65 x 1/6"	27	24	10	040000-03D-G* **
50	40	Rd 78 x 1/6"	27	24	10	050000-03D-G* **
65	48	Rd 95 x 1/6"	32	28	12	065000-03D-G* **
80	48	Rd 110 x 1/4"	32	28	8	080000-03D-G* **
100	48	Rd 130 x 1/4"	32	30	10	100000-03D-G* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

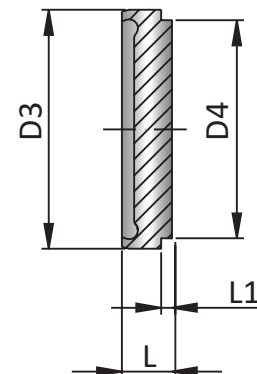
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03D	10	010000-03D-G63 *

*Material and Surface are including to the ordering code

Nominal Size DN	D3	D4	L	L1	Ordering Code
10	21.9	18	9	3	010000-04D-G* **
15	27.9	24	9	3	015000-04D-G* **
20	35.9	30	10	3	020000-04D-G* **
25	42.9	35	12	3	025000-04D-G* **
32	48.9	41	13	3	032000-04D-G* **
40	54.9	48	13	3	040000-04D-G* **
50	66.9	61	14	3	050000-04D-G* **
65	84.9	79	16	4	065000-04D-G* **
80	98.9	93	16	4	080000-04D-G* **
100	118.9	114	20	5	100000-04D-G* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

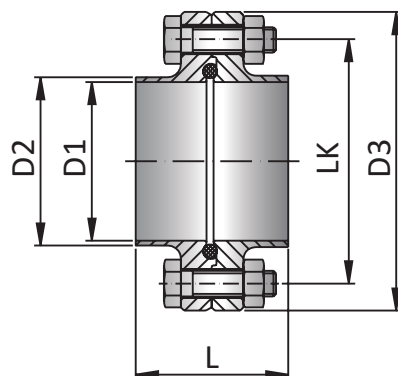
*MP: Mechanically Polished

Ordering Example

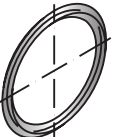
Description	Nominal Size DN	Ordering Code
Type 04D	10	010000-04D-G63 *

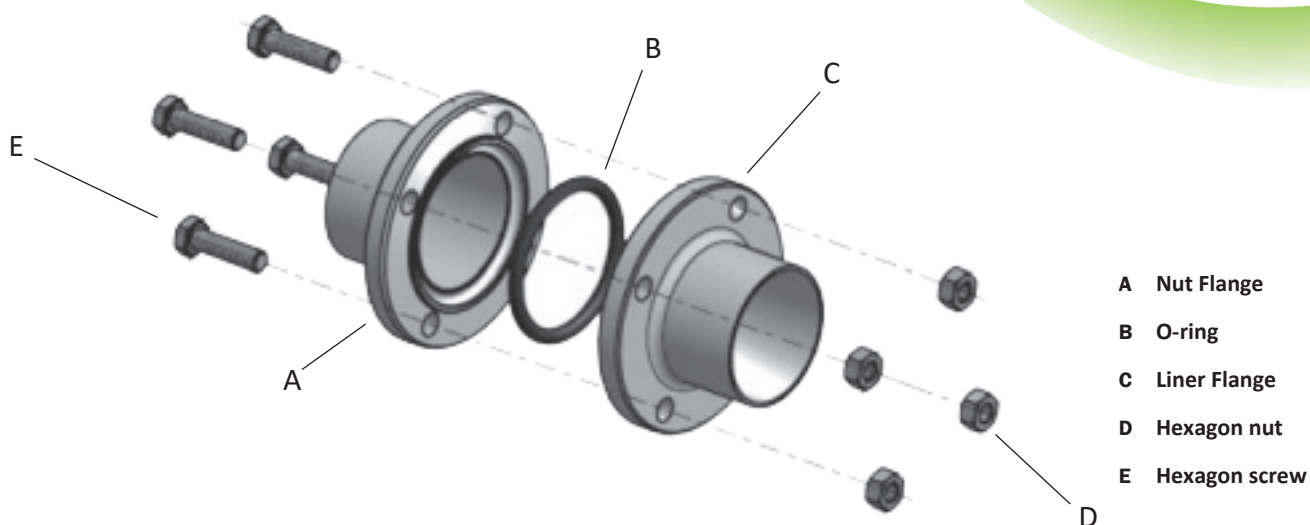
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	LK	L	Ordering Code
8	10.3	13.5	54	37 4/M8x30	48	delivered in parts
10	14.0	17.2	59	42 4/M8x30	48	delivered in parts
15	18.1	21.3	62	45 4/M8x30	48	delivered in parts
20	23.7	26.9	69	52 4/M8x30	48	delivered in parts
25	29.7	33.7	74	57 4/M8x30	48	delivered in parts
32	38.4	42.4	82	65 4/M8x30	48	delivered in parts
40	44.3	48.3	88	71 4/M8x30	48	delivered in parts
50	56.3	60.3	103	85 4/M8x30	48	delivered in parts
65	72.1	76.1	125	104 8/M10x30	48	delivered in parts
80	84.3	88.9	137	116 8/M10x35	52	delivered in parts
100	109.7	114.3	168	146 8/M10x40	52	delivered in parts

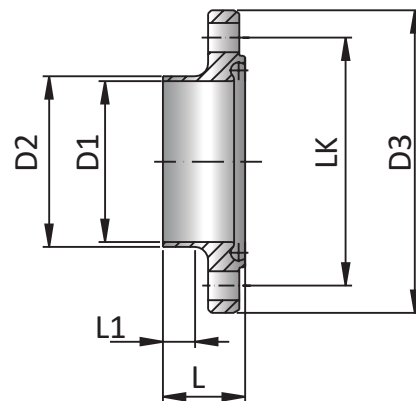


For ordering this product use the parts below

Nut Flange ISO Short Code: 11F	Liner Flange ISO Short Code: 12F	O'ring Code: ODD
		



Nomimal Size DN	D1	D2	D3	LK	L	L1	Ordering Code
8	10.3	13.5	54	37 4 x Ø 9	25.5	10	008000-11F-G* **
10	14.0	17.2	59	42 4 x Ø 9	25.5	10	010000-11F-G* **
15	18.1	21.3	62	45 4 x Ø 9	25.5	10	015000-11F-G* **
20	23.7	26.9	69	52 4 x Ø 9	25.5	10	020000-11F-G* **
25	29.7	33.7	74	57 4 x Ø 9	25.5	10	025000-11F-G* **
32	38.4	42.4	82	65 4 x Ø 9	25.5	10	032000-11F-G* **
40	44.3	48.3	88	71 4 x Ø 9	25.5	10	040000-11F-G* **
50	56.3	60.3	103	85 4 x Ø 9	25.5	10	050000-11F-G* **
65	72.1	76.1	125	104 8 x Ø 11	25.5	8	065000-11F-G* **
80	84.3	88.9	137	116 8 x Ø 11	27.5	10	080000-11F-G* **
100	109.7	114.3	168	146 8 x Ø 11	27.5	8	100000-11F-G* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

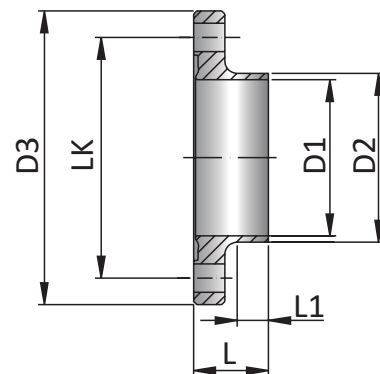
*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 11F	10	010000-11F-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D1	D2	D3	LK	L	L1	Ordering Code
8	10.3	13.5	54	37 4 x Ø 9	24	10	008000-12F-G* **
10	14.0	17.2	59	42 4 x Ø 9	24	10	010000-12F-G* **
15	18.1	21.3	62	45 4 x Ø 9	24	10	015000-12F-G* **
20	23.7	26.9	69	52 4 x Ø 9	24	10	020000-12F-G* **
25	29.7	33.7	74	57 4 x Ø 9	24	10	025000-12F-G* **
32	38.4	42.4	82	65 4 x Ø 9	24	10	032000-12F-G* **
40	44.3	48.3	88	71 4 x Ø 9	24	10	040000-12F-G* **
50	56.3	60.3	103	85 4 x Ø 9	24	10	050000-12F-G* **
65	72.1	76.1	125	104 8 x Ø 11	24	8	065000-12F-G* **
80	84.3	88.9	137	116 8 x Ø 11	26	10	080000-12F-G* **
100	109.7	114.3	168	146 8 x Ø 11	26	8	100000-12F-G* **



* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

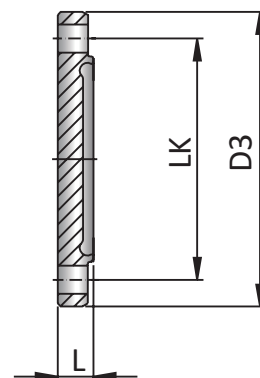
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12F	10	010000-12F-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D3	LK	L	Ordering Code
8	54	37 4 x Ø 9	11.5	008000-03F-G* **
10	59	42 4 x Ø 9	11.5	010000-03F-G* **
15	62	45 4 x Ø 9	11.5	015000-03F-G* **
20	69	52 4 x Ø 9	11.5	020000-03F-G* **
25	74	57 4 x Ø 9	11.5	025000-03F-G* **
32	82	65 4 x Ø 9	11.5	032000-03F-G* **
40	88	71 4 x Ø 9	11.5	040000-03F-G* **
50	103	85 4 x Ø 9	11.5	050000-03F-G* **
65	125	104 8 x Ø 11	13.5	065000-03F-G* **
80	137	116 8 x Ø 11	13.5	080000-03F-G* **
100	168	146 8 x Ø 11	15.5	100000-03F-G* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03F	10	010000-03F-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D3	LK	L	Ordering Code
8	54	37 4 x Ø 9	10	008000-04F-G* **
10	59	42 4 x Ø 9	10	010000-04F-G* **
15	62	45 4 x Ø 9	10	015000-04F-G* **
20	69	52 4 x Ø 9	10	020000-04F-G* **
25	74	57 4 x Ø 9	10	025000-04F-G* **
32	82	65 4 x Ø 9	10	032000-04F-G* **
40	88	71 4 x Ø 9	10	040000-04F-G* **
50	103	85 4 x Ø 9	10	050000-04F-G* **
65	125	104 8 x Ø 11	12	065000-04F-G* **
80	137	116 8 x Ø 11	12	080000-04F-G* **
100	168	146 8 x Ø 11	14	100000-04F-G* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

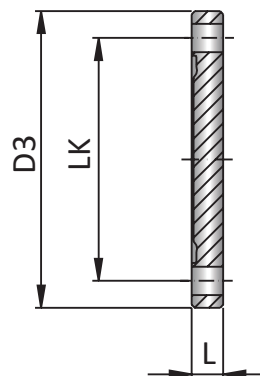


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

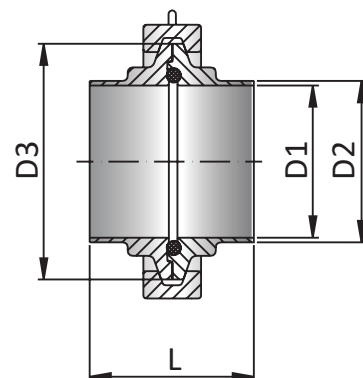
*MP: Mechanically Polished

Ordering Example

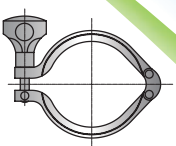
Description	Nominal Size DN	Ordering Code
Type 04F	10	010000-04F-G63*

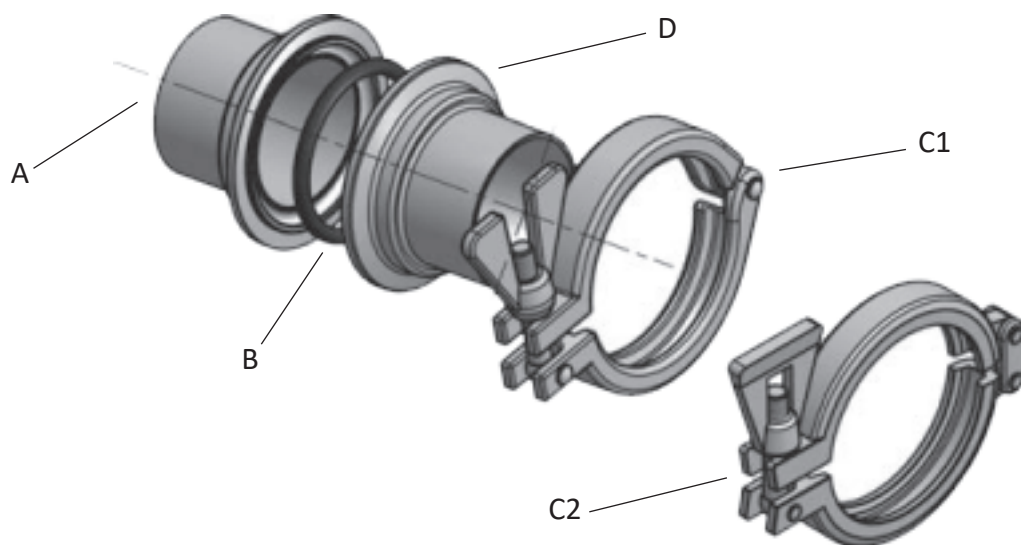
*Material and Surface are including to the ordering code

Nominal Size DN	D1	D2	D3	L	Ordering Code
8	10.3	13.5	34	44	delivered in parts
10	14.0	17.2	34	44	delivered in parts
15	18.1	21.3	34	44	delivered in parts
20	23.7	26.9	50.5	44	delivered in parts
25	29.7	33.7	50.5	48	delivered in parts
32	38.4	42.4	64	48	delivered in parts
40	44.3	48.3	64	50	delivered in parts
50	56.3	60.3	91	54	delivered in parts
65	72.1	76.1	106	57	delivered in parts
80	84.3	88.9	119	62	delivered in parts



For ordering this product use the parts below

Clamp Nut ISO Short Code: 11C	Clamp Liner ISO Short Code: 12C	Heavy Duty Clamp Code: 003	O'ring Code: ODG
			



- A Clamp nut
- B O-ring
- Heavy duty clamp
- C1 Single pin
- C2 Double pin
- D Clamp liner

Nominal Size DN	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	34	23.5	10	008000-11C-G* **
10	14.0	17.2	34	23.5	10	010000-11C-G* **
15	18.1	21.3	34	23.5	10	015000-11C-G* **
20	23.7	26.9	50.5	23.5	10	020000-11C-G* **
25	29.7	33.7	50.5	25.5	10	025000-11C-G* **
32	38.4	42.4	64	25.5	10	032000-11C-G* **
40	44.3	48.3	64	26.5	10	040000-11C-G* **
50	56.3	60.3	91	28.5	10	050000-11C-G* **
65	72.1	76.1	106	30.0	10	065000-11C-G* **
80	84.3	88.9	119	32.5	10	080000-11C-G* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

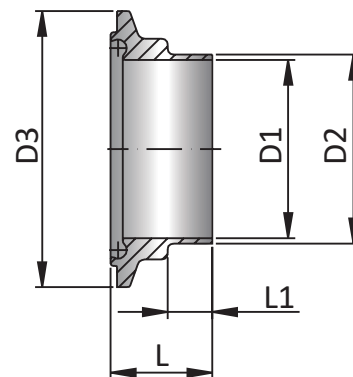


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11C	10	010000-11C-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D1	D2	D3	L	L1	Ordering Code
8	10.3	13.5	34	22	10	008000-12C-G* **
10	14.0	17.2	34	22	10	010000-12C-G* **
15	18.1	21.3	34	22	10	015000-12C-G* **
20	23.7	26.9	50.5	22	10	020000-12C-G* **
25	29.7	33.7	50.5	24	10	025000-12C-G* **
32	38.4	42.4	64	24	10	032000-12C-G* **
40	44.3	48.3	64	25	10	040000-12C-G* **
50	56.3	60.3	91	27	10	050000-12C-G* **
65	72.1	76.1	106	28.5	10	065000-12C-G* **
80	84.3	88.9	119	31	10	080000-12C-G* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

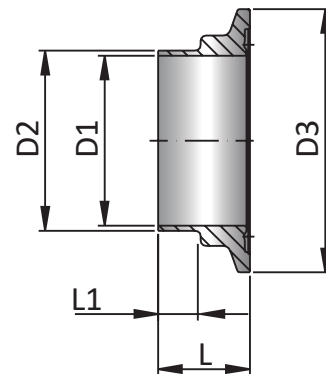


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12C	10	010000-12C-G63*

*Material and Surface are including to the ordering code

DIN 11853-3 FORM A
For tubes to DIN 11866
Series B

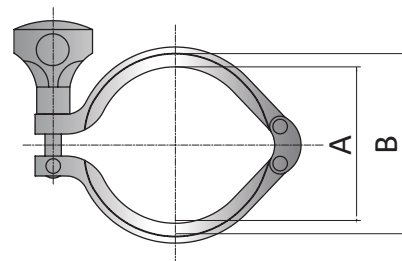
**Double Hinge
Heavy Duty Clamp**

**SEALING
SYSTEMS**

Nominal Size DN	A	B	Ordering Code
25-40	44.4	53.6	025040-003-1U
50	57.8	67.0	050000-003-1U
65	84.0	94.2	065000-003-1U
80	99	109.2	080000-003-1U
100	110	122.2	100000-003-1U
125	144	159	125000-003-1U
150	172	187	150000-003-1U
200	222.5	237.5	200000-003-1U

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2



Material

304L/Unpolished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 003	25-40	025040-003-1U

Nominal Size DN	D3	L	Ordering Code
8	34	13	008000-03C-G* **
10	34	13	010000-03C-G* **
15	34	13	015000-03C-G* **
20	50.5	13	020000-03C-G* **
25	50.5	13	025000-03C-G* **
32	64	13	032000-03C-G* **
40	64	13	040000-03C-G* **
50	91	15	050000-03C-G* **
65	106	15	065000-03C-G* **
80	119	15	080000-03C-G* **

* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

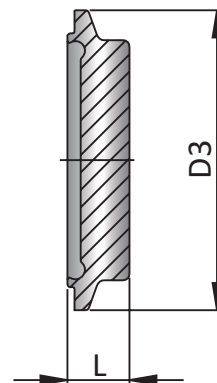


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03C	10	010000-03C-G63*

*Material and Surface are including to the ordering code

Nominal Size DN	D3	L	Ordering Code
8	34	11.5	008000-04C-G* **
10	34	11.5	010000-04C-G* **
15	34	11.5	015000-04C-G* **
20	50.5	11.5	020000-04C-G* **
25	50.5	11.5	025000-04C-G* **
32	64	11.5	032000-04C-G* **
40	64	11.5	040000-04C-G* **
50	91	13.5	050000-04C-G* **
65	106	13.5	065000-04C-G* **
80	119	13.5	080000-04C-G* **

* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality, according to Table 2

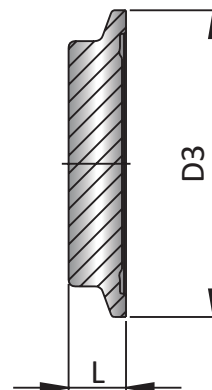


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

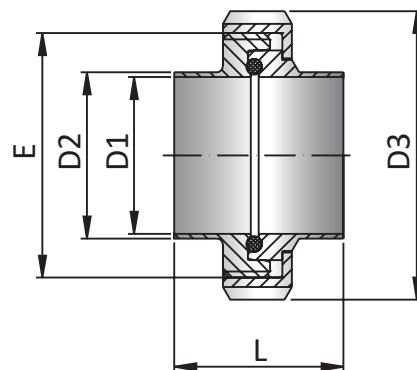
Description	Nominal Size DN	Ordering Code
Type 04C	10	010000-04C-G63*

*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	E	L	Ordering Code
1/2"	9.4	12.7	38	Rd 28x1/8"	19	delivered in parts
3/4"	15.75	19.05	44	Rd 34x1/8"	19	delivered in parts
1"	22.2	25.4	63	Rd 52x1/6"	26	delivered in parts
1½"	34.8	38.1	78	Rd 65x1/6"	31	delivered in parts
2"	47.5	50.8	92	Rd 78x1/6"	31	delivered in parts
2½"	60.2	63.5	112	Rd 95x1/6"	36	delivered in parts
3"	72.9	76.2	127	Rd 110x1/4"	42	delivered in parts
4"	97.38	101.6	148	Rd 130x1/4"	50	delivered in parts

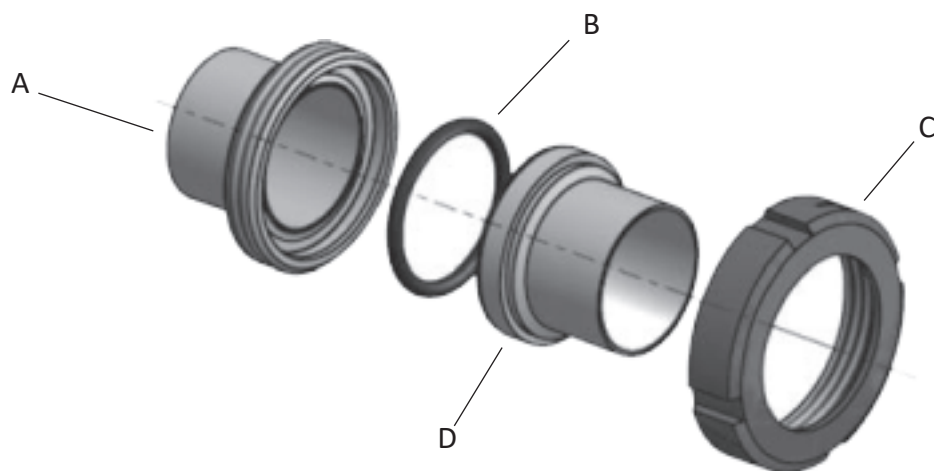
* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2



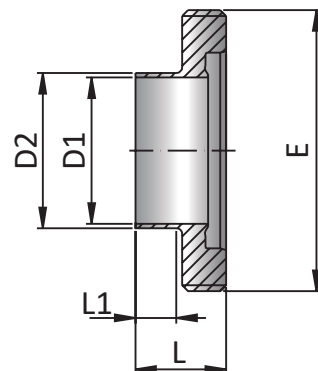
For ordering this product use the parts below

Code: 11D	Code: 12D	Code: 120	Code: ODA



- A Male
- B O-ring
- C Nut
- D Liner

Nominal Size	D1	D2	E	L	L1	Ordering Code
1/2"	9.4	12.7	Rd 28x1/8"	19	5	015000-11D-A* **
3/4"	15.75	19.05	Rd 34x1/8"	19	5	020000-11D-A* **
1"	22.2	25.4	Rd 52x1/6"	26	10	025000-11D-A* **
1 1/2"	34.8	38.1	Rd 65x1/6"	31	15	038000-11D-A* **
2"	47.5	50.8	Rd 78x1/6"	31	15	051000-11D-A* **
2 1/2"	60.2	63.5	Rd 95x1/6"	36	18	063000-11D-A* **
3"	72.9	76.2	Rd 110x1/4"	42	18	076000-11D-A* **
4"	97.38	101.6	Rd 130x1/4"	50	26	100000-11D-A* **



* The first digit refer to material guide, according to Table 1
** The last digit refer to surface quality, according to Table 2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

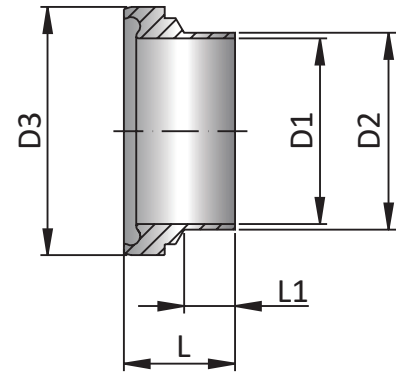
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11D	1/2"	015000-11D-A63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.4	12.7	21.9	19	5	015000-12D-A* **
3/4"	15.75	19.05	27.9	19	5	020000-12D-A* **
1"	22.2	25.4	42.9	26	10	025000-12D-A* **
1½"	34.8	38.1	54.9	31	15	038000-12D-A* **
2"	47.5	50.8	66.9	31	15	051000-12D-A* **
2½"	60.2	63.5	84.9	36	18	063000-12D-A* **
3"	72.9	76.2	98.9	42	18	076000-12D-A* **
4"	97.38	101.6	118.9	50	26	100000-12D-A* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

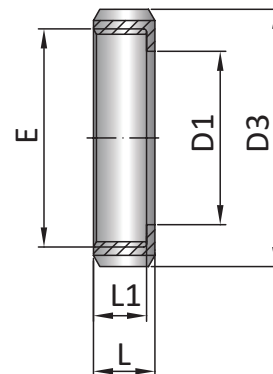
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12D	1/2"	015000-12D-A63*

*Material and Surface are including to the ordering code

Nominal Size	D1	D3	E	L	L1	Ordering Code
10	19	38	Rd 28x1/8"	18	15	010000-120-D* **
15	25	44	Rd 34x1/8"	18	15	015000-120-D* **
20	31	54	Rd 44x1/6"	20	17	020000-120-D* **
25	36	63	Rd 52x1/6"	21	18	025000-120-D* **
32	42.5	70	Rd 58x1/6"	21	18	032000-120-D* **
40	49	78	Rd 65x1/6"	21	18	040000-120-D* **
50	62	92	Rd 78x1/6"	22	19	050000-120-D* **
65	80	112	Rd 95x1/6"	25	21	065000-120-D* **
75	86.5	120	Rd 104x1/6"	26	21	075000-120-D* **
80	94	127	Rd 110x1/4"	29	25	080000-120-D* **
100	115	148	Rd 130x1/4"	31	26	100000-120-D* **



* The first digit referse to material guide, according to Table 1
** The last digit referse to surface quality according to Table2

Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 120	10	010000-120-D63*

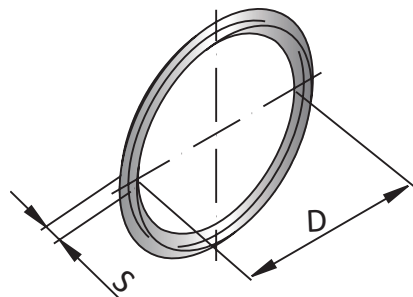
*Material and Surface are including to the ordering code

DIN 11853-1 FORM A
For tubes to DIN 11866
Series C

O'ring

**SEALING
SYSTEMS**

Nominal Size	D	S	Ordering Code
1/2"	12	3.5	015-ODA/*
3/4"	18	3.5	020-ODA/*
1"	24	3.5	025-ODA/*
1½"	37	5	038-ODA/*
2"	50	5	051-ODA/*
2½"	62	5	063-ODA/*
3"	75	5	076-ODA/*
4"	100	5	100-ODA/*



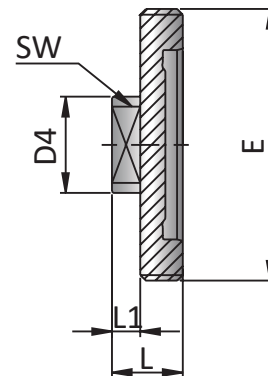
Material	Standard Code
EPDM Black FDA	EP
Viton Black FDA	FPM
Teflon FDA	PTFE
Silicone FDA	SIL
Buna FDA	B

*CLASS VI available on request

Ordering Example

Description	Nominal Size DN	Ordering Code
Type ODA	10	010000-ODA/EP

Nominal Size	D4	E	SW	L	L1	Ordering Code
1/2"	22	Rd 28x1/8"	17	24	12	010000-03D-A* **
3/4"	22	Rd 34x1/8"	17	24	12	015000-03D-A* **
1"	22	Rd 52x1/6"	27	24	10	020000-03D-A* **
1 1/2"	40	Rd 65x1/6"	27	24	10	025000-03D-A* **
2"	40	Rd 78x1/6"	27	24	10	032000-03D-A* **
2 1/2"	40	Rd 95x1/6"	32	28	12	040000-03D-A* **
3"	40	Rd 110x1/4"	32	28	12	050000-03D-A* **
4"	48	Rd 130x1/4"	32	30	10	065000-03D-A* **



* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03D	1/2"	015000-03D-A63*

*Material and Surface are including to the ordering code

Nominal Size	D3	D4	L	L1	Ordering Code
1/2"	21.9	18	9	3	015000-04D-A* **
3/4"	27.9	24	9	3	020000-04D-A* **
1"	42.9	35	12	3	025000-04D-A* **
1½"	54.9	48	13	3	038000-04D-A* **
2"	66.9	61	14	3	051000-04D-A* **
2½"	84.9	79	16	4	063000-04D-A* **
3"	98.9	93	16	4	076000-04D-A* **
4"	118.9	114	20	5	100000-04D-A* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

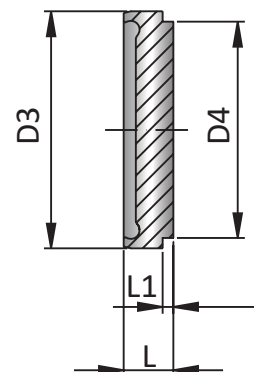


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

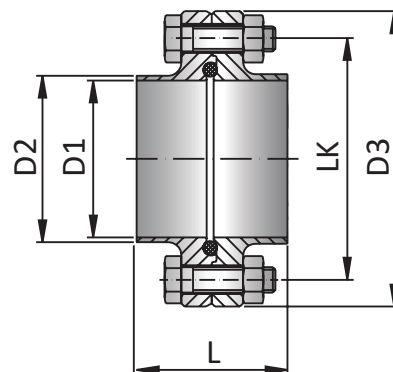
*MP: Mechanically Polished

Ordering Example

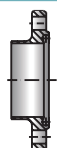
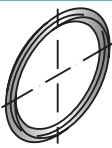
Description	Nominal Size DN	Ordering Code
Type 04D	1/2"	015000-04D-A63*

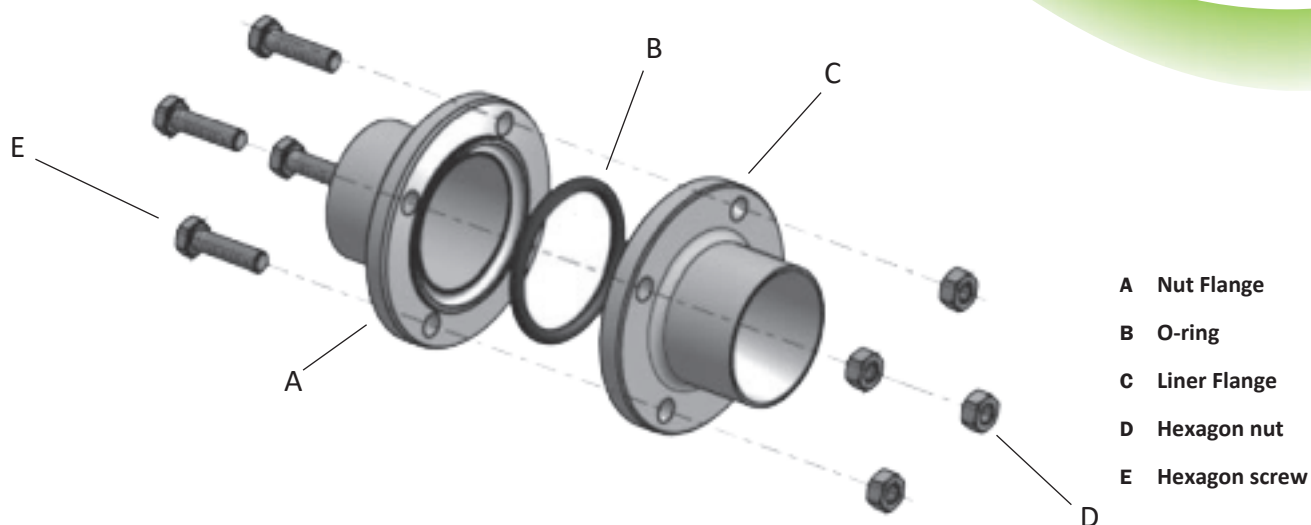
*Material and Surface are including to the ordering code

Nomimal Size	D1	D2	D3	E	L	Ordering Code
1/2"	9.4	12.70	54	37 4/M8 x 30	48	delivered in parts
3/4"	15.75	19.05	59	42 4/M8 x 30	48	delivered in parts
1"	22.2	25.40	66	49 4/M8 x 30	48	delivered in parts
1½"	34.8	38.10	79	62 4/M8 x 30	48	delivered in parts
2"	47.5	50.80	92	75 4/M8 x 30	48	delivered in parts
2½"	60.2	63.50	107	89 8/M8 x 30	48	delivered in parts
3"	72.9	76.20	125	104 8/M10 x 30	48	delivered in parts
4"	97.38	101.6	157	135 8/M10 x 35	52	delivered in parts

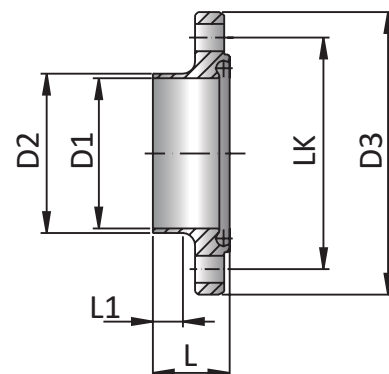


For ordering this product use the parts below

Nut Flange INCH Short Code: 11F	Liner Flange INCH Short Code: 12F	O'ring Code: ODA
		



Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
1/2"	9.4	12.7	54	37 4 x Ø 9	25.5	10	015000-11F-A* **
3/4"	15.75	19.05	59	42 4 x Ø 9	25.5	10	020000-11F-A* **
1"	22.2	25.4	66	49 4 x Ø 9	25.5	10	025000-11F-A* **
1½"	34.8	38.1	79	62 4 x Ø 9	25.5	10	038000-11F-A* **
2"	47.5	50.8	92	75 4 x Ø 9	25.5	10	051000-11F-A* **
2½"	60.2	63.5	107	89 8 x Ø 9	25.5	10	063000-11F-A* **
3"	72.9	76.2	125	104 8 x Ø 11	25.5	8	076000-11F-A* **
4"	97.38	101.6	157	135 8 x Ø 11	27.5	6	100000-11F-A* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

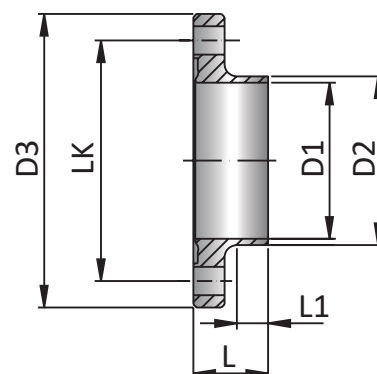
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 11F	1/2"	015000-11F-A63 *

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	LK	L	L1	Ordering Code
1/2"	9.4	12.7	54	37 4 x Ø 9	24	10	015000-12F-A* **
3/4"	15.75	19.05	59	42 4 x Ø 9	24	10	020000-12F-A* **
1"	22.2	25.4	66	49 4 x Ø 9	24	10	025000-12F-A* **
1½"	34.8	38.1	79	62 4 x Ø 9	24	10	038000-12F-A* **
2"	47.5	50.8	92	75 4 x Ø 9	24	10	051000-12F-A* **
2½"	60.2	63.5	107	89 8 x Ø 9	24	10	063000-12F-A* **
3"	72.9	76.2	125	104 8 x Ø 11	24	8	076000-12F-A* **
4"	97.38	101.6	157	135 8 x Ø 11	26	8	100000-12F-A* **



* The first digit refers to material guide, according to Table 1
** The last digit refers to surface quality, according to Table 2

Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12F	1/2"	015000-12F-A63 *

*Material and Surface are including to the ordering code

Nominal Size	D3	LK	L	Ordering Code
1/2"	54	37 4 x Ø 9	11.5	015000-03F-A* **
3/4"	59	42 4 x Ø 9	11.5	020000-03F-A* **
1"	66	49 4 x Ø 9	11.5	025000-03F-A* **
1 1/2"	79	62 4 x Ø 9	11.5	038000-03F-A* **
2"	92	75 4 x Ø 9	11.5	051000-03F-A* **
2 1/2"	107	89 8 x Ø 9	11.5	063000-03F-A* **
3"	125	104 8 x Ø 11	11.5	076000-03F-A* **
4"	157	135 8 x Ø 11	11.5	100000-03F-A* **

* The first digit refer to material guide, according to Table 1
** The last digit refer to surface quality, according to Table 2

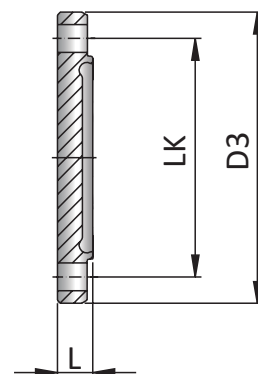


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03F	1/2"	015000-03F-A63 *

*Material and Surface are including to the ordering code

Nominal Size	D3	LK	L	Ordering Code
1/2"	54	37 4 x Ø 9	10	015000-04F-A* **
3/4"	59	42 4 x Ø 9	10	020000-04F-A* **
1"	66	49 4 x Ø 9	10	025000-04F-A* **
1½"	79	62 4 x Ø 9	10	038000-04F-A* **
2"	92	75 4 x Ø 9	10	051000-04F-A* **
2½"	107	89 8 x Ø 9	10	063000-04F-A* **
3"	125	104 8 x Ø 11	12	076000-04F-A* **
4"	157	135 8 x Ø 11	14	100000-04F-A* **

* The first digit refer to material guide, according to Table 1
** The last digit refer to surface quality, according to Table 2

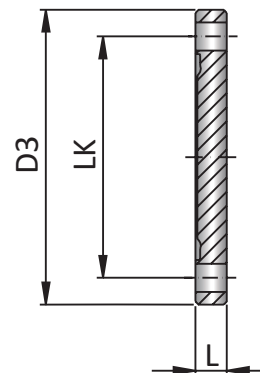


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

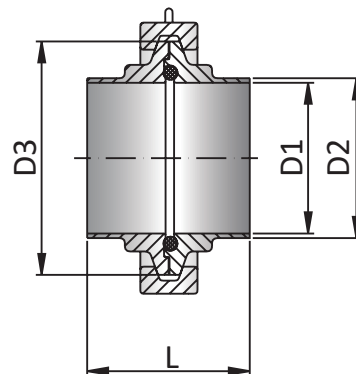
*MP: Mechanically Polished

Ordering Example

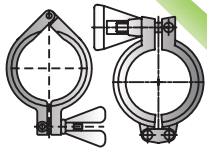
Description	Nominal Size DN	Ordering Code
Type 04F	1/2"	015000-04F-A63 *

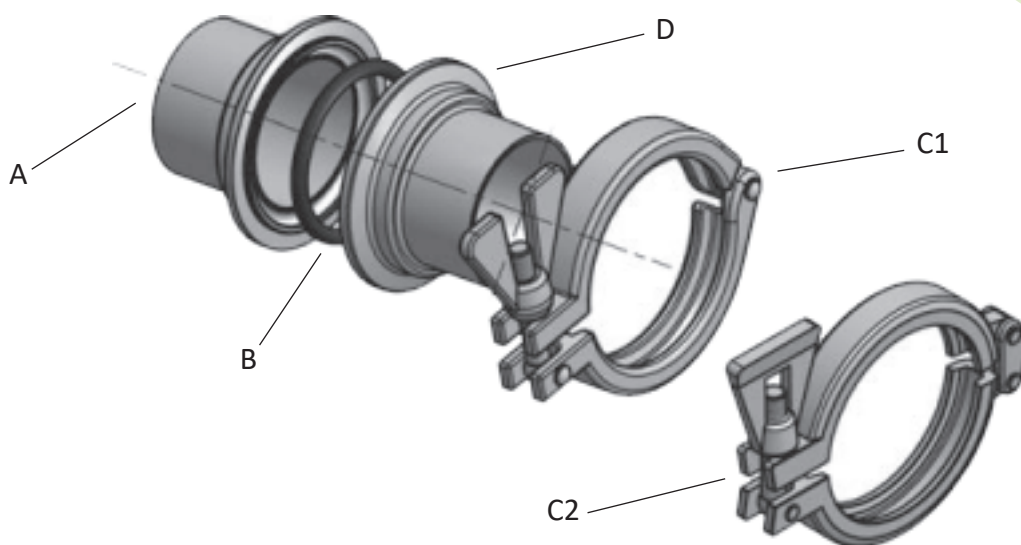
*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	Ordering Code
1/2"	9.40	12.7	34	44	delivered in parts
3/4"	15.75	19.05	34	44	delivered in parts
1"	22.1	25.4	50.5	44	delivered in parts
1½"	34.8	38.1	64	48	delivered in parts
2"	47.5	50.8	77.5	49	delivered in parts
2½"	60.2	63.5	91	55	delivered in parts
3"	72.9	76.2	106	57	delivered in parts
4"	97.38	101.6	130	59	delivered in parts



For ordering this product use the parts below

Clamp Nut INCH Short Code: 11C	Clamp Nut INCH Short Code: 12C	Heavy Duty Clamp Code: 003	O'ring Code: ODA
			



A Clamp nut

B O-ring

Heavy duty clamp

C1 Single pin

C2 Double pin

D Clamp liner

Nomimal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.40	12.7	34	23.5	10	015000-11C-A* **
3/4"	15.75	19.05	34	23.5	10	020000-11C-A* **
1"	22.1	25.4	50.5	23.5	10	025000-11C-A* **
1½"	34.8	38.1	64	25.5	10	038000-11C-A* **
2"	47.5	50.8	77.5	26	10	051000-11C-A* **
2½"	60.2	63.5	91	29	10	063000-11C-A* **
3"	72.9	76.2	106	30	10	076000-11C-A* **
4"	97.38	101.6	130	31	10	100000-11C-A* **

* The first digit referse to material guide, according to Table 1

** The last digit referse to surface quality, according to Table 2

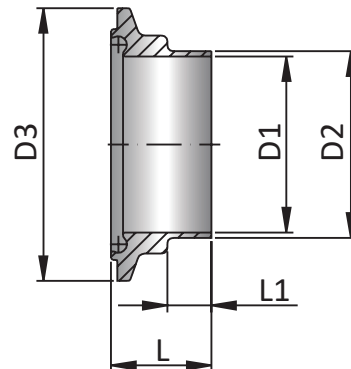


Table1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nomimal Size DN	Ordering Code
Type 11C	1/2"	015000-11C-A63 *

*Material and Surface are including to the ordering code

Nominal Size	D1	D2	D3	L	L1	Ordering Code
1/2"	9.40	12.7	34	22	10	015000-12C-A* **
3/4"	15.75	19.05	34	22	10	020000-12C-A* **
1"	22.1	25.4	50.5	22	10	025000-12C-A* **
1½"	34.8	38.1	64	24	10	038000-12C-A* **
2"	47.5	50.8	77.5	24.5	10	051000-12C-A* **
2½"	60.2	63.5	91	27.5	10	063000-12C-A* **
3"	72.9	76.2	106	28.5	10	076000-12C-A* **
4"	97.38	101.6	130	29.5	10	100000-12C-A* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

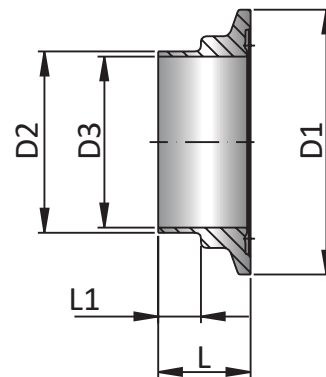


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30µ-in 0,8µm	No finish requirement	1
MP 20µ-in 0,51µm	No finish requirement	2
MP 30µ-in 0,8µm	MP 30µ-in 0,8µm	3
MP 20µ-in 0,51µm	MP 30µ-in 0,8µm	4
EP 20µ-in 0,51µm	EP 20µ-in 0,51µm	M
Mirror	Mirror	9

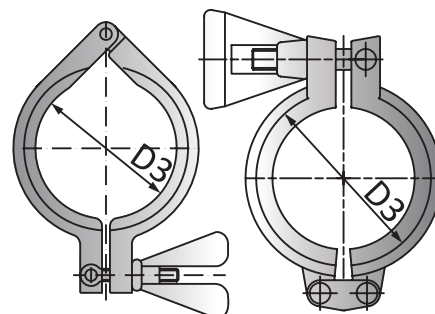
*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 12C	1/2"	015000-12C-A63 *

*Material and Surface are including to the ordering code

Nominal Size DN	D3	Ordering Code
10	34	010000-003-1U
15	34	015000-003-1U
20	50.5	020000-003-1U
25	50.5	025000-003-1U
32	50.5	032000-003-1U
40	64	040000-003-1U
50	77.5	050000-003-1U
65	91	065000-003-1U
80	106	080000-003-1U
100	130	100000-003-1U



Material

304L/Unpolished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 003	10	010000-003-1U

Nominal Size	D3	L	Ordering Code
1/2"	34	13	015000-03C-A* **
3/4"	34	13	020000-03C-A* **
1"	50.5	13	025000-03C-A* **
1½"	64	13	038000-03C-A* **
2"	77.5	15	051000-03C-A* **
2½"	91	15	063000-03C-A* **
3"	106	15	076000-03C-A* **
4"	130	15	100000-03C-A* **

* The first digit refer to material guide, according to Table 1

** The last digit refer to surface quality, according to Table 2

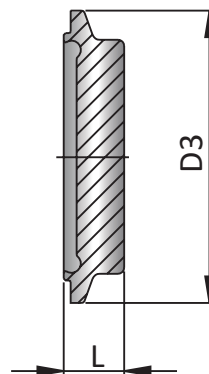


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435(316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

Ordering Example

Description	Nominal Size DN	Ordering Code
Type 03C	1/2"	015000-03C-A63 *

*Material and Surface are including to the ordering code

Nominal Size	D3	L	Ordering Code
1/2"	34	11.5	015000-04C-A* **
3/4"	34	11.5	020000-04C-A* **
1"	50.5	11.5	025000-04C-A* **
1 1/2"	64	11.5	038000-04C-A* **
2"	77.5	13.5	051000-04C-A* **
2 1/2"	91	13.5	063000-04C-A* **
3"	106	13.5	076000-04C-A* **
4"	130	13.5	100000-04C-A* **

* The first digit refers to material guide, according to Table 1

** The last digit refers to surface quality, according to Table 2

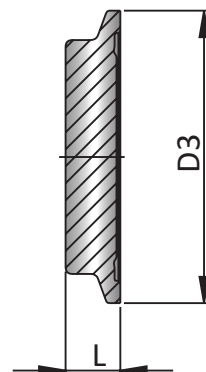


Table 1

Material Guide	
1.4301 (304)	1
1.4307 (304L)	2
1.4404 (316L)	4
1.4435 (316L BPE)	7

Table 2

Inside Surface	Outside Surface	Ordering Code
Inside Surface	Outside Surface	
No finish requirement	No finish requirement	0
MP 30μ-in 0,8μm	No finish requirement	1
MP 20μ-in 0,51μm	No finish requirement	2
MP 30μ-in 0,8μm	MP 30μ-in 0,8μm	3
MP 20μ-in 0,51μm	MP 30μ-in 0,8μm	4
EP 20μ-in 0,51μm	EP 20μ-in 0,51μm	M
Mirror	Mirror	9

*MP: Mechanically Polished

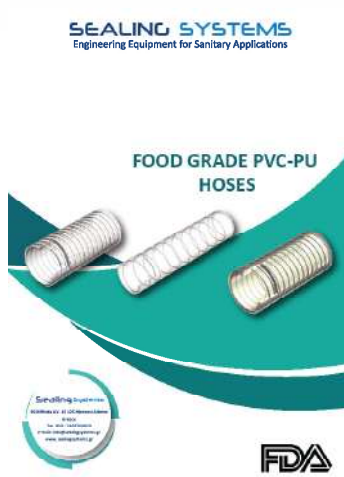
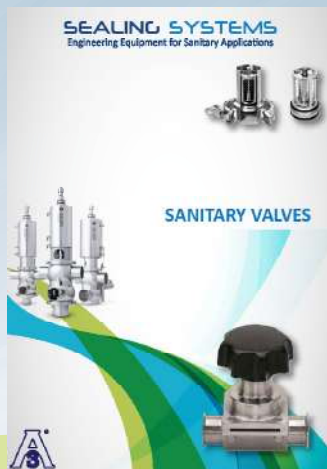
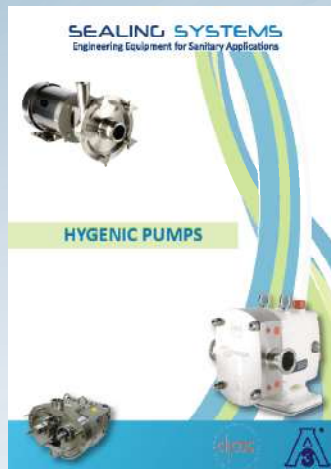
Ordering Example

Description	Nominal Size DN	Ordering Code
Type 04C	1/2"	015000-04C-A63 *

*Material and Surface are including to the ordering code

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