

Sterile contour block flange

- Design according to DIN 11864-1
- All wetted materials can be tracked
- Part of the BBS modular system

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type BBS-03 ▶ Fitting with welded connection according to DIN 11864-1 and BBS sterile contour
	Type BBS-05 ▶ Clamp connection with welded connection according to DIN 11864-3 and BBS-Sterile contour
	Type BBS-06 ▶ Sterile contour flange connection according to DIN 11864-2 with welded connection
	Type BBS-11 ▶ Standard ingold socket

Type description

The sterile contour block flanges are for tank installation and compatible with sterile contour flange connection with welded connection BBS-06. The sterile contour block flanges are part of the BBS modular system.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 5.
Materials	
Wetted	Stainless steel 1.4435/316L Special materials like e.g. Hastelloy 2.4602, titanium, stainless steel 1.4539/904L etc. on request
Non-wetted	Stainless steel 1.4305/303 or equivalent
Seal	EPDM, FEP See datasheet Type BBS- 25 ► for suitable gaskets
Surface quality	Wetted surface: RA < Ra 0.76 µm (ASME BPE SF3), other surfaces on request
Performance data	
Operating pressure	Clamp Ø ≤ 64 mm: 25 bar Clamp Ø 77.4 mm...91 mm: 16 bar Clamp Ø ≥ 106 mm: 10 bar
Medium data	
Operating medium	Gases or liquids
Medium temperature	EPDM seal material: - 40 °C...+ 90 °C, short-term up to + 140 °C FEP seal material: - 60 °C...+ 160 °C, short-term up to + 205 °C
Process/Port connection & communication	
Nennweite	DIN DN 10...DN 150 ISO DN 08...DN 100 ASME DN ½"...DN 4"
Approvals and conformities	
Certificate	Material certificate 3.1
Foods and beverages/Hygiene	
FDA	Further information can be found in chapter "2.4. Foods and beverages/Hygiene" on page 4.
USP	Further information can be found in chapter "2.4. Foods and beverages/Hygiene" on page 4.
Environment and installation	
Ambient temperature	- 20...+ 80 °C

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

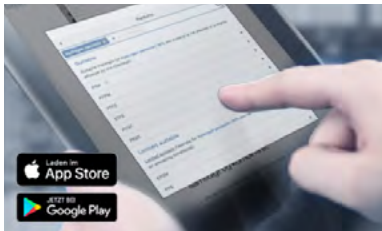
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations The seals made of EPDM and FEP are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA), according to the manufacturer's declaration.
USP	United States Pharmacopeial Convention (USP) The seals made of EPDM and FEP are biocompatible according to the manufacturer's declaration.

3. Materials

3.1. Bürkert resistApp



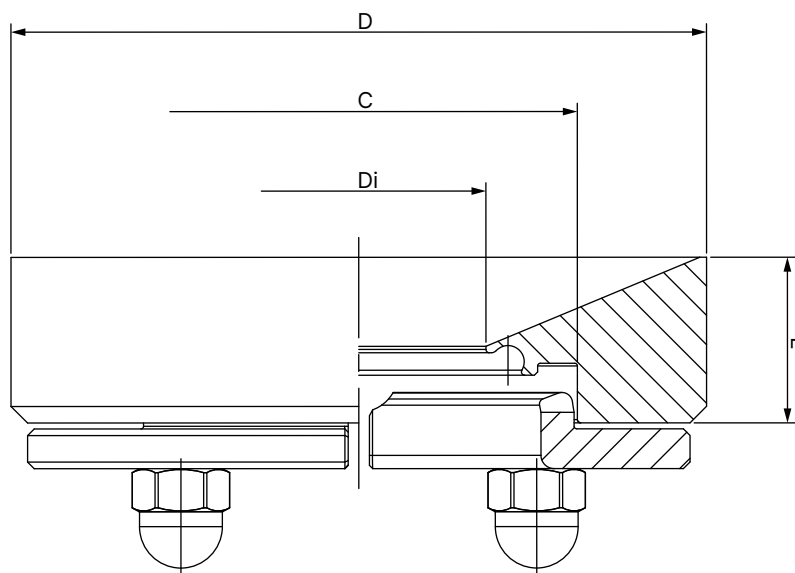
Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

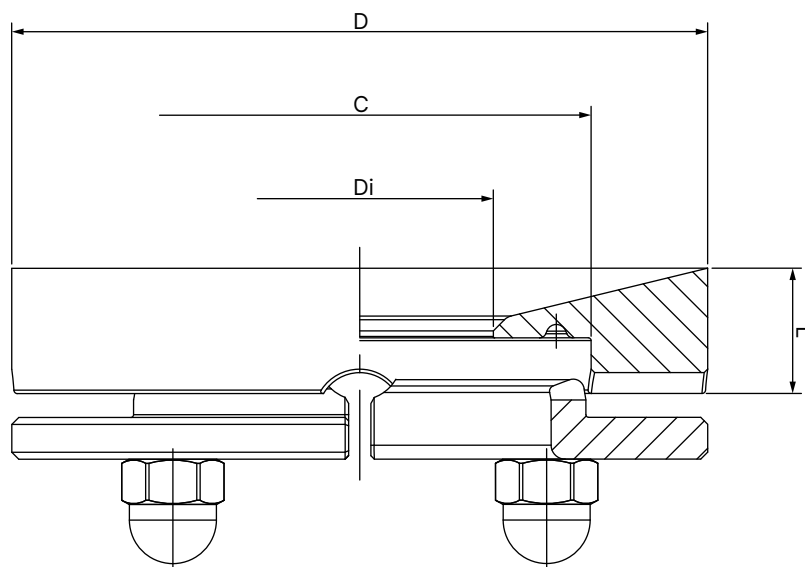
4. Dimensions

4.1. Clamp tank flange suitable for DIN 11864 - 3



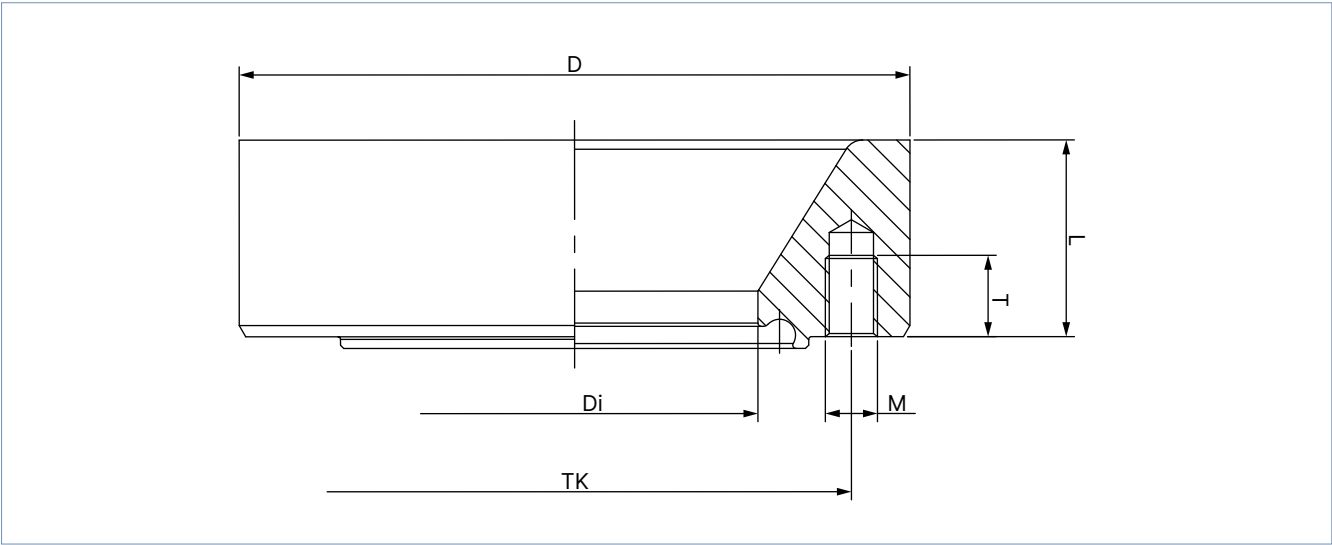
Nominal diameter	D [mm]	Di [mm]	C [mm]	Clamp-Ø [mm]	Article no. L = 25 mm	Article no. L = 38 mm	Article no. L = 51 mm
DIN							
DN 10	75	10	37.4	34	on request	on request	on request
DN 15	75	16	37.4	34	on request	on request	on request
DN 20	90	20	53.9	50.5	on request	on request	on request
DN 25	90	26	53.9	50.5	on request	on request	on request
DN 32	90	32	53.9	50.5	on request	on request	on request
DN 40	105	38	66.5	64	on request	on request	on request
DN 50	117	50	80.5	77.5	on request	on request	on request
DN 65	136	66	93	91	on request	on request	on request
DN 80	151	81	108	106	on request	on request	on request
DN 100	175	100	121.5	119	on request	on request	on request
ISO							
DN 08	75	10.3	37.4	34	on request	on request	on request
DN 10	75	14	37.4	34	on request	on request	on request
DN 15	75	18.1	37.4	34	on request	on request	on request
DN 20	90	23.7	53.9	50.5	733891 ☞	on request	on request
DN 25	90	29.7	53.9	50.5	733896 ☞	733899 ☞	on request
DN 32	105	38.4	66.5	64	733911 ☞	733914 ☞	on request
DN 40	105	44.3	66.5	64	733920 ☞	on request	733923 ☞
DN 50	136	56.3	93	91	733932 ☞	on request	733935 ☞
DN 65	151	72.1	108	106	733942 ☞	on request	733945 ☞
DN 80	175	84.3	121.5	119	733954 ☞	on request	733957 ☞
ASME							
DN ½"	75	9.4	37.4	34	733765 ☞	on request	on request
DN ¾"	75	15.75	37.4	34	733768 ☞	on request	on request
DN 1"	85	22.1	53.9	50.5	733777 ☞	on request	on request
DN 1½"	105	34.8	66.5	64	733805 ☞	on request	on request
DN 2"	117	47.5	80.5	77.5	733829 ☞	on request	on request
DN 2½"	136	60.2	93	91	733837 ☞	on request	on request
DN 3"	151	72.9	108	106	733852 ☞	on request	on request
DN 4"	175	97.38	132.5	130	733858 ☞	on request	on request

4.2. Clamp tank flange suitable for DIN 32676



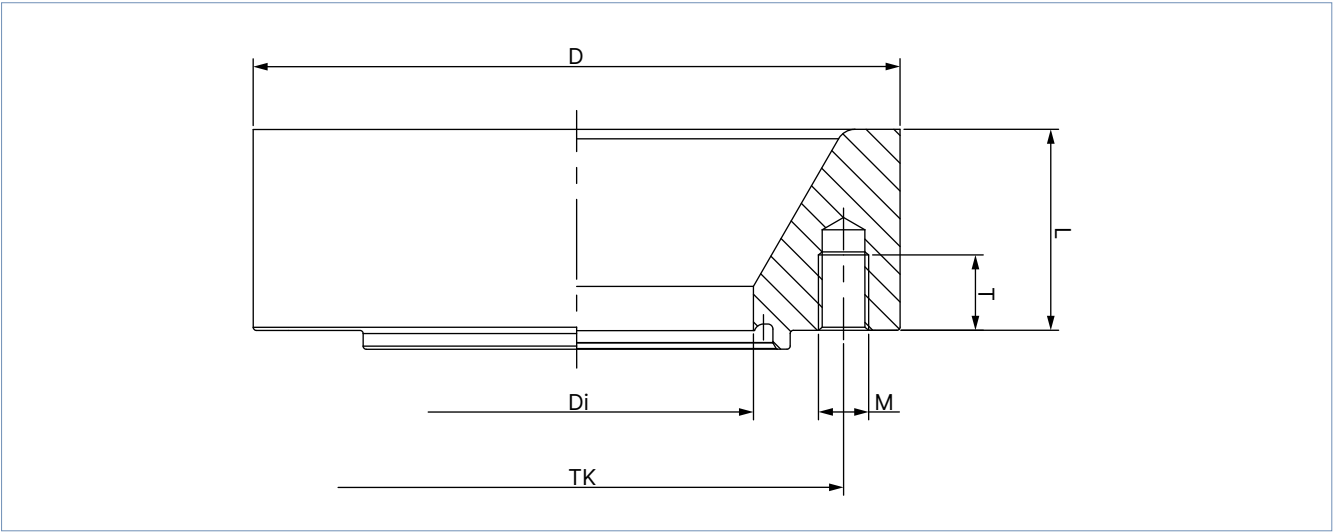
Nominal diameter	D [mm]	Di [mm]	C [mm]	Clamp-Ø [mm]	Article no. L = 15 mm	Article no. L = 25 mm	Article no. L = 38 mm	Article no. L = 51 mm
DIN								
DN 10	70	10	37.4	34	on request	on request	on request	on request
DN 15	70	16	37.4	34	on request	on request	on request	on request
DN 20	70	20	37.4	34	on request	on request	on request	on request
DN 25	85	26	53.9	50.5	on request	on request	on request	on request
DN 32	85	32	53.9	50.5	on request	on request	on request	on request
DN 40	85	38	53.9	50.5	on request	733751 ☹	on request	on request
DN 50	100	50	66.5	64	on request	733760 ☹	on request	on request
DN 65	131	66	93	91	on request	743416 ☹	on request	on request
DN 80	146	81	108	106	on request	on request	on request	on request
DN 100	170	100	121.5	119	on request	on request	on request	on request
ISO								
DN 08	59	10.3	25.4	25	on request	on request	on request	on request
DN 10	59	14	25.4	25	on request	on request	on request	on request
DN 15	70	18.1	37.4	34	on request	on request	733885 ☹	on request
DN 20	85	23.7	53.9	50.5	on request	on request	on request	on request
DN 25	85	29.7	53.9	50.5	on request	733893 ☹	on request	on request
DN 32	100	38.4	66.5	64	733905 ☹	733908 ☹	on request	on request
DN 40	100	44.3	66.5	64	733917 ☹	on request	on request	on request
DN 50	112	56.3	80.5	77.5	733926 ☹	on request	on request	733929 ☹
DN 65	131	72.1	93	91	733939 ☹	on request	on request	on request
DN 80	146	84.3	108	106	733948 ☹	on request	on request	733951 ☹
DN 100	170	109.7	132.5	130	733871 ☹	733873 ☹	on request	733876 ☹
ASME								
DN 1/2"	59	9.4	25.4	25	745799 ☹	on request	on request	on request
DN 3/4"	59	15.75	25.4	25	on request	on request	on request	on request
DN 1"	85	22.1	53.9	50.5	on request	733771 ☹	on request	on request
DN 1 1/2"	85	38.1	53.9	50.5	on request	733783 ☹	on request	on request
DN 2"	100	50.8	66.5	64	733808 ☹	733811 ☹	on request	on request
DN 2 1/2"	112	60.2	80.5	77.5	on request	on request	on request	on request
DN 3"	131	72.9	93	91	733840 ☹	733842 ☹	on request	on request
DN 4"	170	97.38	121.5	119	733855 ☹	on request	on request	on request

4.3. Tank flange suitable for DIN 11864 - 2



Nominal diameter	D [mm]	Di [mm]	TK [mm]	L [mm]	T [mm]	M [mm]	Article no.
DIN							
DN 10	54,	10	37	20	12	4xM08	747270 🛒
DN 15	59	16	42	20	12	4xM08	747271 🛒
DN 20	59	20	47	20	12	4xM08	747272 🛒
DN 25	70	26	53	25	15	4xM08	745028 🛒
DN 32	82	32	59	32	15	4xM08	745030 🛒
DN 40	82	38	65	32	18	4xM08	733621 🛒
DN 50	94	50	77	32	18	4xM08	733624 🛒
DN 65	113	66	95	38	18	8xM08	745034 🛒
DN 80	133	81	112	38	18	8xM10	733627 🛒
DN 100	159	100	137	38	18	8xM10	745021 🛒
DN 125	183	125	161	38	18	8xM10	745023 🛒
DN 150	213	150	188	51	18	8xM12	733617 🛒
ISO							
DN 08	54	10.3	37	20	12	4xM08	on request
DN 10	59	14	42	20	12	4xM08	on request
DN 15	62	18.1	45	20	12	4xM08	733664 🛒
DN 20	69	23.7	52	20	12	4xM08	733673 🛒
DN 25	74	29.7	57	25	15	4xM08	733682 🛒
DN 32	82	38.4	65	32	15	4xM08	733690 🛒
DN 40	88	44.3	71	32	18	4xM08	733695 🛒
DN 50	103	56.3	85	32	18	4xM08	733707 🛒
DN 65	125	72.1	104	38	18	8xM10	733721 🛒
DN 80	137	84.3	116	38	18	8xM10	733736 🛒
DN 100	168	109.7	146	38	18	8xM10	733654 🛒
ASME							
DN 1/2"	54	9.40	37	20	12	4xM08	on request
DN 3/4"	59	15.75	42	20	12	4xM08	on request
DN 1"	66	22.1	49	25	12	4xM08	733630 🛒
DN 1 1/2"	79	34.8	62	25	15	4xM08	733633 🛒
DN 2"	92	47.5	75	32	18	4xM08	733636 🛒
DN 2 1/2"	107	60.2	65	32	18	8xM10	733639 🛒
DN 3"	125	72.9	104	32	18	8xM10	733642 🛒
DN 4"	157	97.38	135	38	18	8xM10	733645 🛒

4.4. Tank flange suitable for BBS sterile contour



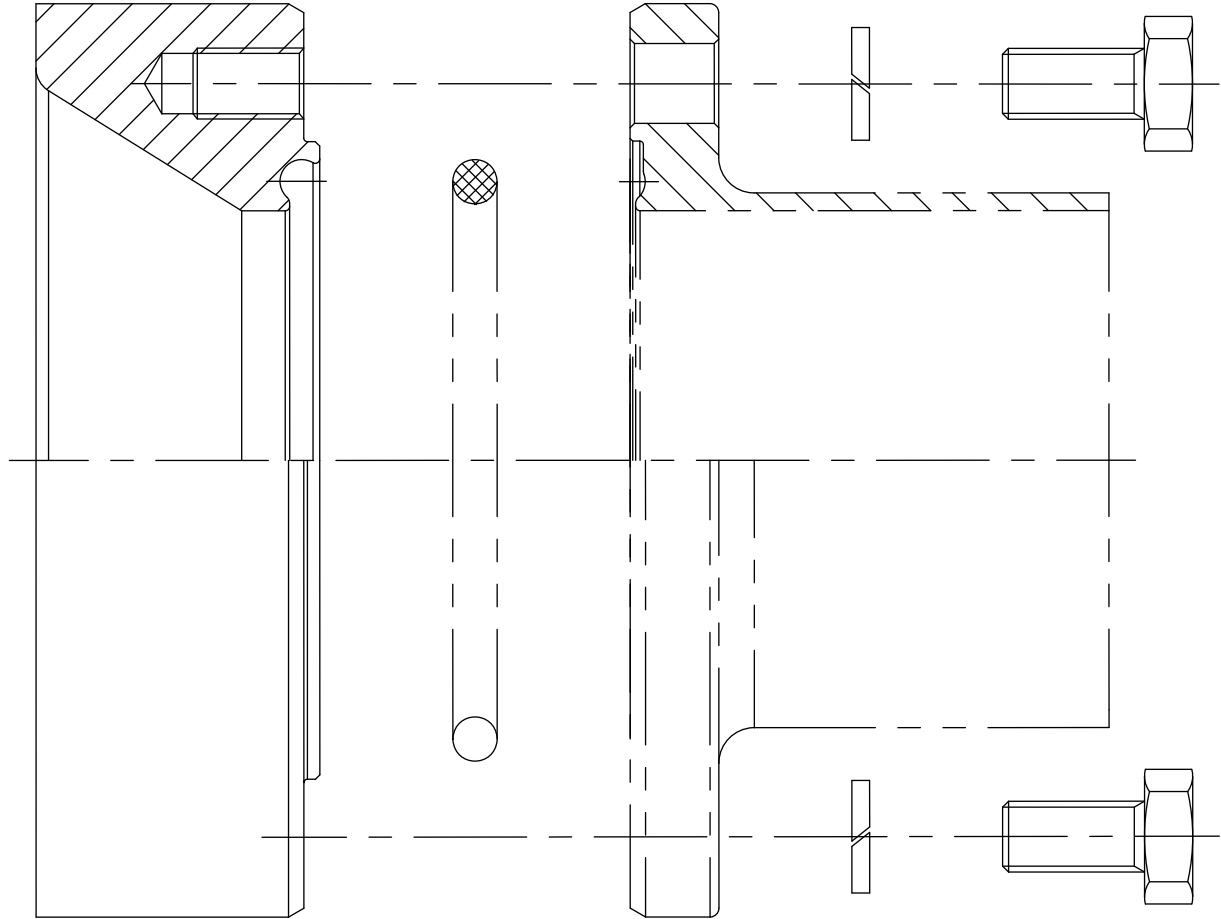
Nominal diameter	D [mm]	Di [mm]	TK [mm]	L [mm]	T [mm]	M [mm]	Article no.
DIN							
DN 10	54	10	37	20	12	4 × M08	on request
DN 15	59	16	45	20	12	4 × M08	on request
DN 20	59	20	45	20	12	4 × M08	on request
DN 25	70	26	53	25	15	4 × M08	on request
DN 32	82	32	65	32	15	4 × M08	on request
DN 40	82	38	65	32	18	4 × M08	on request
DN 50	94	50	77	32	18	4 × M08	on request
DN 65	113	66	95	38	18	8 × M10	on request
DN 80	133	81	112	38	18	8 × M10	on request
DN 100	159	100	137	38	18	8 × M10	on request
ISO							
DN 08	54	10.3	37	20	12	4 × M08	733648 🔗
DN 10	59	14	42	20	12	4 × M08	733651 🔗
DN 15	62	18.1	45	20	12	4 × M08	733667 🔗
DN 20	69	23.7	52	20	12	4 × M08	733676 🔗
DN 25	74	29.7	57	25	15	4 × M08	733683 🔗
DN 32	82	38.4	65	32	15	4 × M08	733692 🔗
DN 40	88	44.3	71	32	18	4 × M08	733701 🔗
DN 50	103	56.3	85	32	18	4 × M08	733716 🔗
DN 65	125	72.1	104	38	18	8 × M10	733730 🔗
DN 80	137	84.3	116	38	18	8 × M10	733742 🔗
DN 100	168	109.7	146	38	18	8 × M10	733661 🔗
ASME							
DN 1/2"	54	9.4	37	20	12	4 × M08	on request
DN 3/4"	59	15.75	42	20	12	4 × M08	on request
DN 1"	66	22.1	49	25	12	4 × M08	on request
DN 1 1/2"	79	38.1	62	25	15	4 × M08	on request
DN 2"	92	50.8	75	32	18	4 × M08	on request
DN 2 1/2"	107	60.2	65	32	18	8 × M10	on request
DN 3"	125	72.9	104	32	18	8 × M10	on request
DN 4"	157	97.38	135	38	18	8 × M10	on request

5. Product design and assembly

5.1. Clamp tank flange suitable for DIN 11864 - 3

Note:

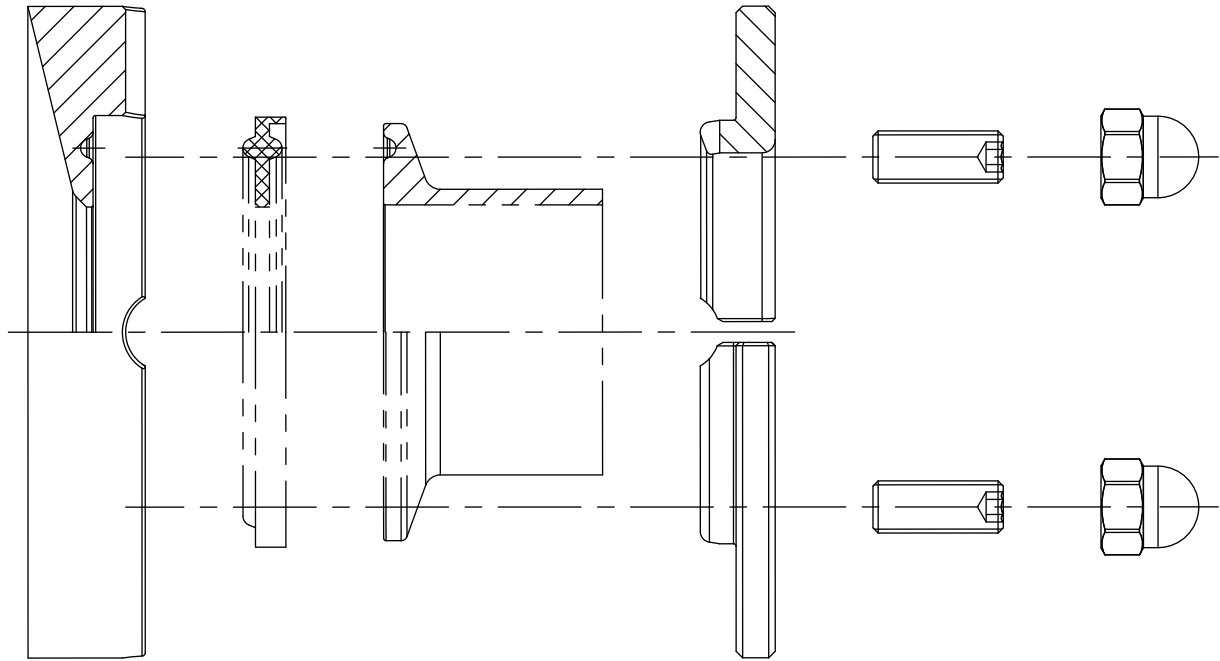
The clamp ferrule and the O-ring are not included in the scope of delivery. For suitable parts see **datasheet Type BBS-05** ▶.



5.2. Clamp tank flange suitable for DIN 32676

Note:

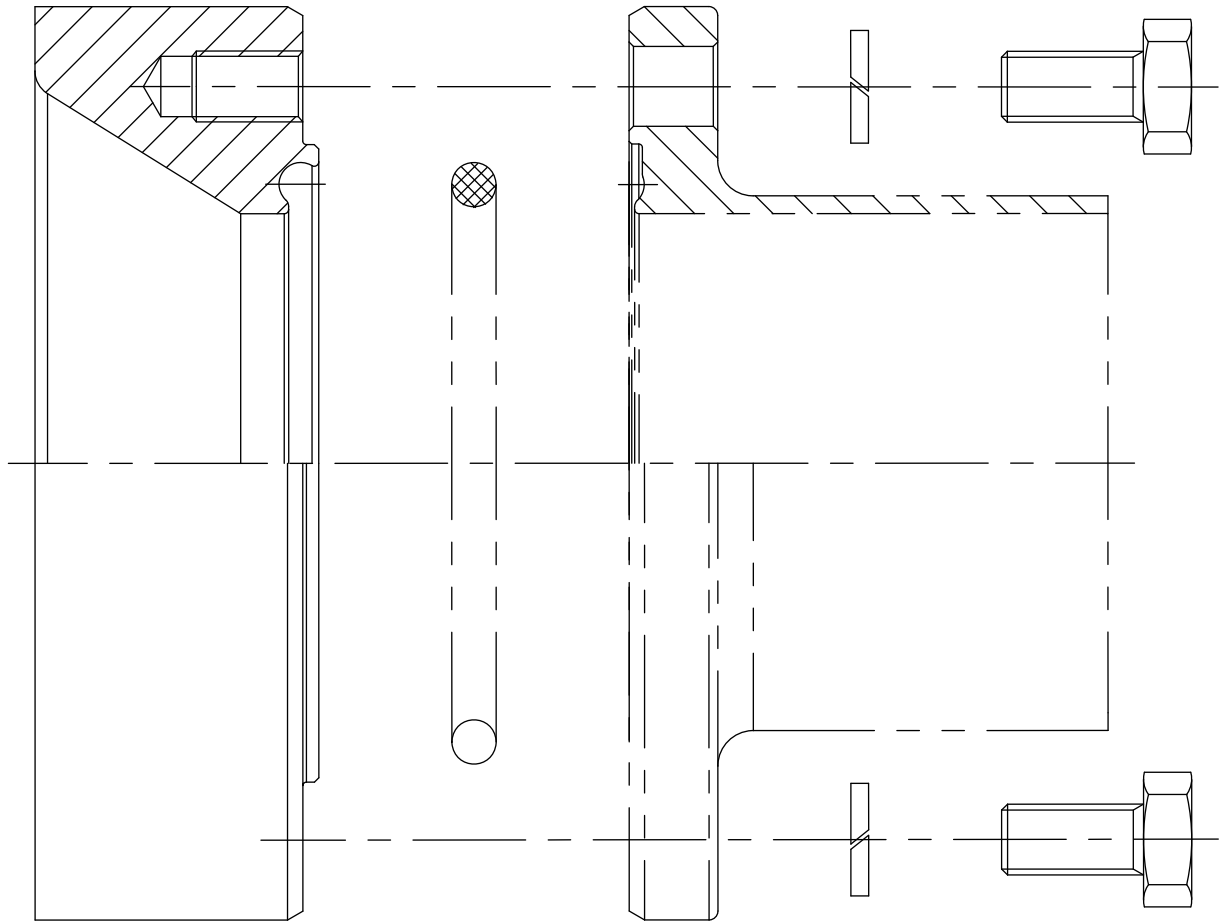
The clamp ferrule and the gasket are not included in the scope of delivery. For suitable parts see **datasheet Type BBS- 25** ►.



5.3. Tank flange suitable for DIN 11864 - 2

Note:

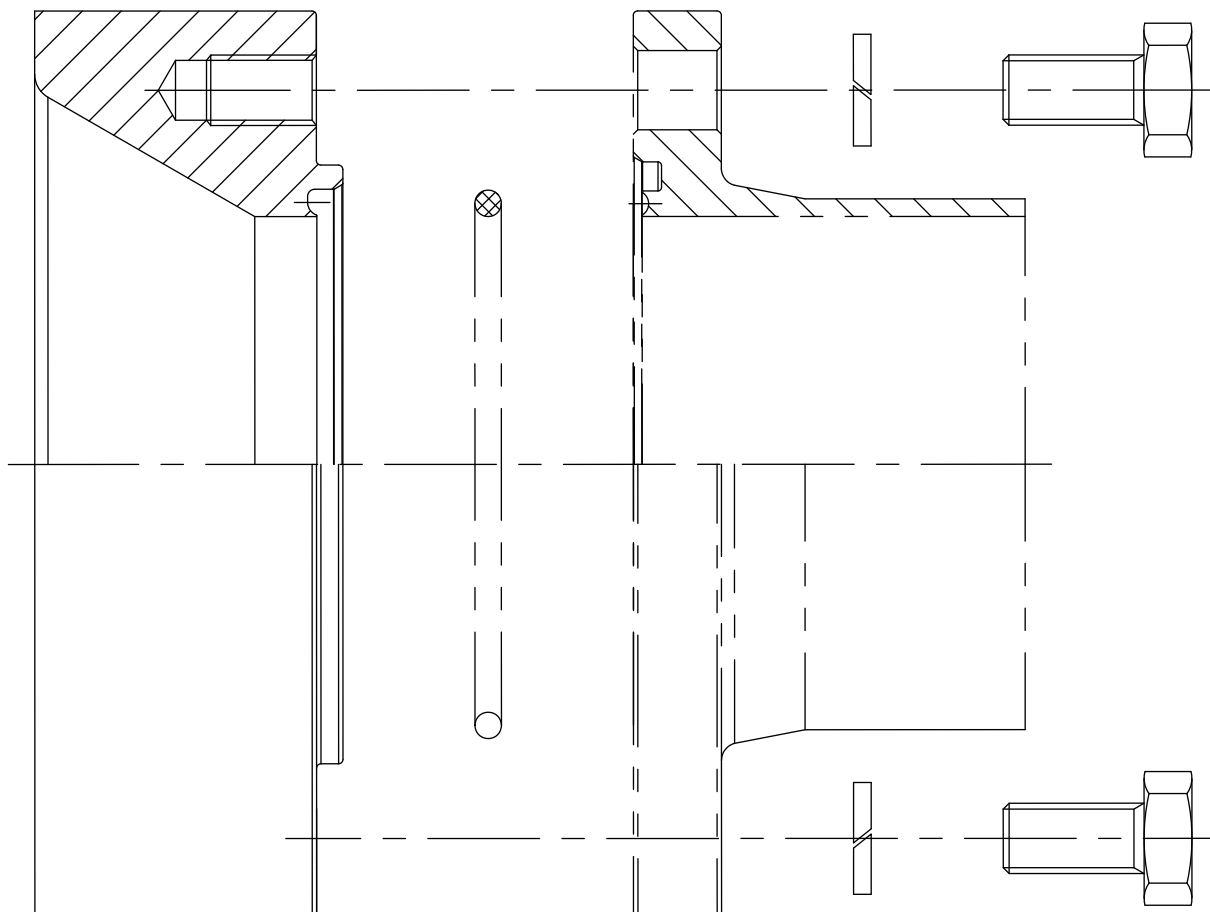
Only the tank flange is included in the scope of delivery. For suitable male flanges, flange screws, spring washers and O-rings see **datasheet Type BBS-05** ►.



5.4. Tank flange suitable for BBS sterile contour

Note:

Only the tank flange is included in the scope of delivery. For suitable male flanges, flange screws, spring washers and O-rings see **datasheet Type BBS-06** ▶.



6. Ordering information

6.1. Bürkert eShop

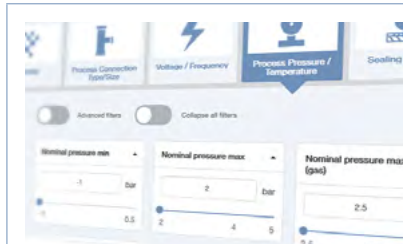


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6.2. Bürkert product filter



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6.3. Ordering chart

Note:

Further information can be found in chapter **"4. Dimensions"** on page 5.