Block flange

- Design according to DIN 11864 - 2 and 3 as well as BBS sterile contour
- Clamp Version according to DIN 32676
- All wetted materials can be traced
- 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-05
Hygienic clamp connection with welded connection

Type BBS-06
Hygienic flange connection with welded connection

Type BBS-25
Clamp socket, clamps and seals according to DIN 32676

Type BBS-04
Platinum-cured peroxide-free silicone hose

Type BBS-4S
Hose fittings

Type description

Type BBS-07 block flanges are designed for direct tank installation and are available in various designs, see chapter “product connections”. The block flanges are part of the BBS modular system.

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Visit product website

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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 on request
Non-wetted	Stainless steel 1.4305/303 or equivalent
Seal	EPDM, FEP See **datasheet Type BBS-05** ▶, **Type BBS-06** ▶, **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 77.5 mm and 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...+ 140 °C FEP seal material: - 60 °C...+ 160 °C, short-term...+ 205 °C
Product connections	
Connections	Sterile contour clamp connections according to DIN 11864 - 3 Clamp connections according to DIN 32676 Sterile contour flange connections according to DIN 11864 - 2 Flange connections according to BBS sterile contour
Nominal diameter	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

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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

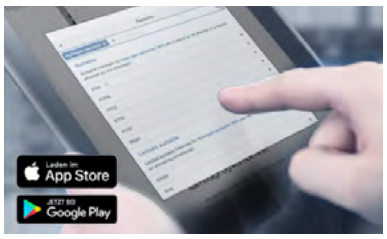
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

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

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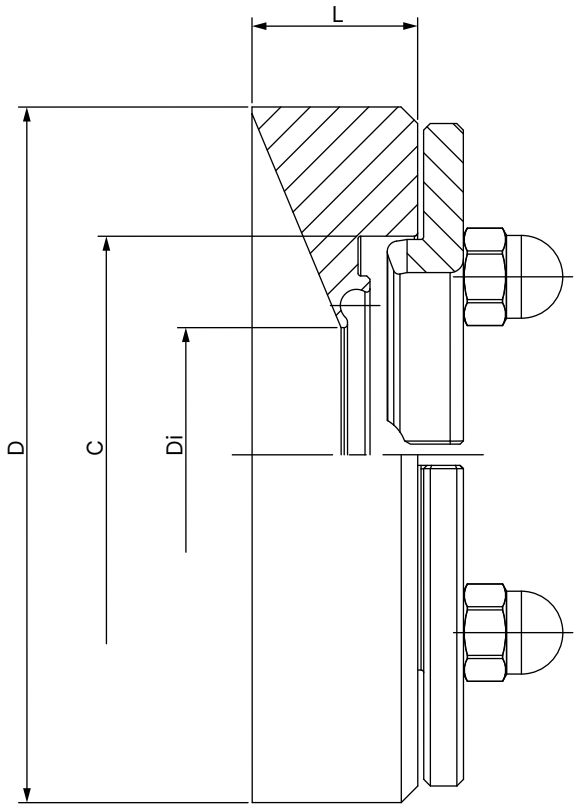
4. Dimensions

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	o. r.	o. r.	o. r.
DN 15	75	16	37.4	34	o. r.	o. r.	o. r.
DN 20	90	20	53.9	50.5	o. r.	o. r.	o. r.
DN 25	90	26	53.9	50.5	o. r.	o. r.	o. r.
DN 32	90	32	53.9	50.5	o. r.	o. r.	o. r.
DN 40	105	38	66.5	64	o. r.	o. r.	o. r.
DN 50	117	50	80.5	77.5	o. r.	o. r.	o. r.
DN 65	136	66	93	91	o. r.	o. r.	o. r.
DN 80	151	81	108	106	o. r.	o. r.	o. r.
DN 100	175	100	121.5	119	o. r.	o. r.	o. r.
ISO							
DN 08	75	10.3	37.4	34	o. r.	o. r.	o. r.
DN 10	75	14	37.4	34	o. r.	o. r.	o. r.
DN 15	75	18.1	37.4	34	o. r.	o. r.	o. r.
DN 20	90	23.7	53.9	50.5	733891	o. r.	o. r.
DN 25	90	29.7	53.9	50.5	733896	733899	o. r.
DN 32	105	38.4	66.5	64	733911	733914	o. r.
DN 40	105	44.3	66.5	64	733920	o. r.	733923
DN 50	136	56.3	93	91	733932	o. r.	733935
DN 65	151	72.1	108	106	733942	o. r.	733945
DN 80	175	84.3	121.5	119	733954	o. r.	733957

ASME							
DN ½"	75	9.4	37.4	34	733765	o. r.	o. r.
DN ¾"	75	15.75	37.4	34	733768	o. r.	o. r.
DN 1"	85	22.1	53.9	50.5	733777	o. r.	o. r.
DN 1½"	105	34.8	66.5	64	733805	o. r.	o. r.
DN 2"	117	47.5	80.5	77.5	733829	o. r.	o. r.
DN 2½"	136	60.2	93	91	733837	o. r.	o. r.
DN 3"	151	72.9	108	106	733852	o. r.	o. r.
DN 4"	175	97.38	132.5	130	733858	o. r.	o. r.

o. r. = on request

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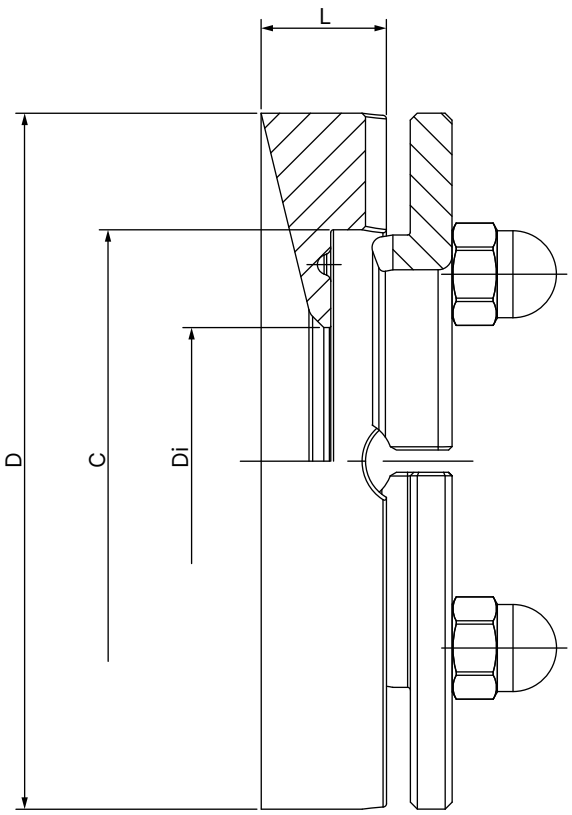
4.2. Clamp tank flange suitable for DIN 32676



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	o. r.	o. r.	o. r.	o. r.
DN 15	70	16	37.4	34	o. r.	o. r.	o. r.	o. r.
DN 20	70	20	37.4	34	o. r.	o. r.	o. r.	o. r.
DN 25	85	26	53.9	50.5	o. r.	o. r.	o. r.	o. r.
DN 32	85	32	53.9	50.5	o. r.	o. r.	o. r.	o. r.
DN 40	85	38	53.9	50.5	o. r.	733751	o. r.	o. r.
DN 50	100	50	66.5	64	o. r.	733760	o. r.	o. r.
DN 65	131	66	93	91	o. r.	743416	o. r.	o. r.
DN 80	146	81	108	106	o. r.	o. r.	o. r.	o. r.
DN 100	170	100	121.5	119	o. r.	o. r.	o. r.	o. r.
ISO								
DN 08	59	10.3	25.4	25	o. r.	o. r.	o. r.	o. r.
DN 10	59	14	25.4	25	o. r.	o. r.	o. r.	o. r.
DN 15	70	18.1	37.4	34	o. r.	o. r.	733885	o. r.
DN 20	85	23.7	53.9	50.5	o. r.	o. r.	o. r.	o. r.
DN 25	85	29.7	53.9	50.5	o. r.	733893	o. r.	o. r.
DN 32	100	38.4	66.5	64	733905	733908	o. r.	o. r.
DN 40	100	44.3	66.5	64	733917	o. r.	o. r.	o. r.
DN 50	112	56.3	80.5	77.5	733926	o. r.	o. r.	733929
DN 65	131	72.1	93	91	733939	o. r.	o. r.	o. r.
DN 80	146	84.3	108	106	733948	o. r.	o. r.	733951
DN 100	170	109.7	132.5	130	733871	733873	o. r.	733876

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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
ASME								
DN ½"	59	9.4	25.4	25	o. r.	745799	o. r.	o. r.
DN ¾"	59	15.75	25.4	25	o. r.	o. r.	o. r.	o. r.
DN 1"	85	22.1	53.9	50.5	o. r.	733771	o. r.	o. r.
DN 1½"	85	38.1	53.9	50.5	o. r.	733783	o. r.	o. r.
DN 2"	100	50.8	66.5	64	733808	733811	o. r.	o. r.
DN 2½"	112	60.2	80.5	77.5	o. r.	o. r.	o. r.	o. r.
DN 3"	131	72.9	93	91	733840	733842	o. r.	o. r.
DN 4"	170	97.38	121.5	119	733855	745834	o. r.	o. r.

o. r. = on request

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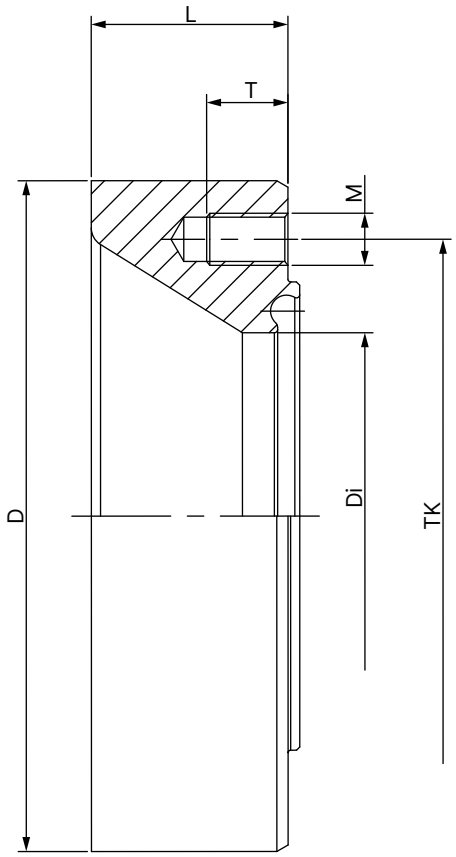
4.3. Tank flange suitable for DIN 11864 - 2



Nominal diameter	D [mm]	Di [mm]	TK [mm]	L [mm]	T [mm]	M [mm]	Article no.
DIN							
DN 10	54	10	37	20	12	4 × M08	747270
DN 15	59	16	42	20	12	4 × M08	747271
DN 20	59	20	47	20	12	4 × M08	747272
DN 25	70	26	53	25	15	4 × M08	745028
DN 32	82	32	59	32	15	4 × M08	745030
DN 40	82	38	65	32	18	4 × M08	733621
DN 50	94	50	77	32	18	4 × M08	733624
DN 65	113	66	95	38	18	8 × M08	745034
DN 80	133	81	112	38	18	8 × M10	733627
DN 100	159	100	137	38	18	8 × M10	745021
DN 125	183	125	161	38	18	8 × M10	745023
DN 150	213	150	188	51	18	8 × M12	733617
ISO							
DN 08	54	10.3	37	20	12	4 × M08	745045
DN 10	59	14	42	20	12	4 × M08	745046
DN 15	62	18.1	45	20	12	4 × M08	733664
DN 20	69	23.7	52	20	12	4 × M08	733673
DN 25	74	29.7	57	25	15	4 × M08	733682
DN 32	82	38.4	65	32	15	4 × M08	733690
DN 40	88	44.3	71	32	18	4 × M08	733695
DN 50	103	56.3	85	32	18	4 × M08	733707
DN 65	125	72.1	104	38	18	8 × M10	733721
DN 80	137	84.3	116	38	18	8 × M10	733736
DN 100	168	109.7	146	38	18	8 × M10	733654

Nominal diameter	D [mm]	Di [mm]	TK [mm]	L [mm]	T [mm]	M [mm]	Article no.
ASME							
DN ½"	54	9.40	37	20	12	4 × M08	745037
DN ¾"	59	15.75	42	20	12	4 × M08	745039
DN 1"	66	22.1	49	25	12	4 × M08	733630
DN 1½"	79	34.8	62	25	15	4 × M08	733633
DN 2"	92	47.5	75	32	18	4 × M08	733636
DN 2½"	107	60.2	65	32	18	8 × M10	733639
DN 3"	125	72.9	104	32	18	8 × M10	733642
DN 4"	157	97.38	135	38	18	8 × M10	733645

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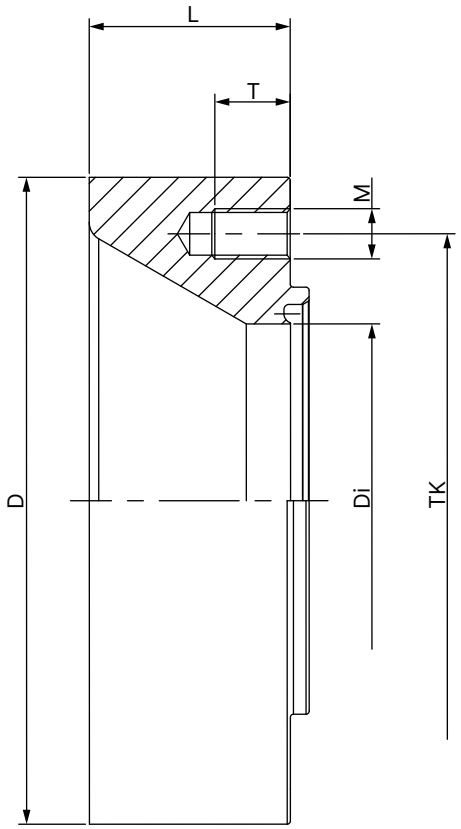
4.4. Tank flange suitable for BBS sterile contour



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	o. r.
DN 15	59	16	45	20	12	4 × M08	o. r.
DN 20	59	20	45	20	12	4 × M08	o. r.
DN 25	70	26	53	25	15	4 × M08	o. r.
DN 32	82	32	65	32	15	4 × M08	o. r.
DN 40	82	38	65	32	18	4 × M08	o. r.
DN 50	94	50	77	32	18	4 × M08	o. r.
DN 65	113	66	95	38	18	8 × M10	o. r.
DN 80	133	81	112	38	18	8 × M10	o. r.
DN 100	159	100	137	38	18	8 × M10	o. r.
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

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Nominal diameter	D [mm]	Di [mm]	TK [mm]	L [mm]	T [mm]	M [mm]	Article no.
ASME							
DN ½"	54	9.4	37	20	12	4 × M08	o. r.
DN ¾"	59	15.75	42	20	12	4 × M08	o. r.
DN 1"	66	22.1	49	25	12	4 × M08	o. r.
DN 1½"	79	38.1	62	25	15	4 × M08	o. r.
DN 2"	92	50.8	75	32	18	4 × M08	o. r.
DN 2½"	107	60.2	65	32	18	8 × M10	o. r.
DN 3"	125	72.9	104	32	18	8 × M10	o. r.
DN 4"	157	97.38	135	38	18	8 × M10	o. r.

o. r. = on request

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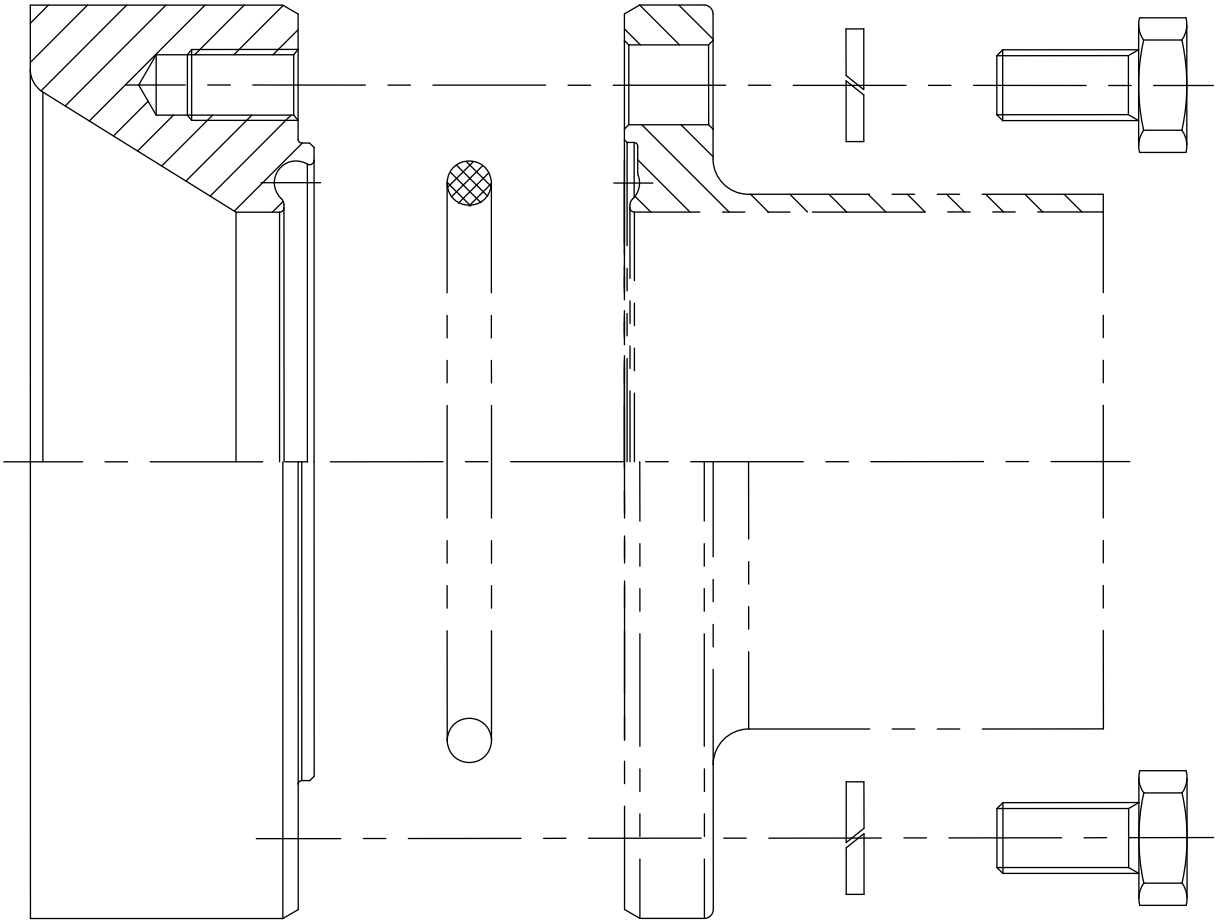
5. Product design and assembly

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** ▶.



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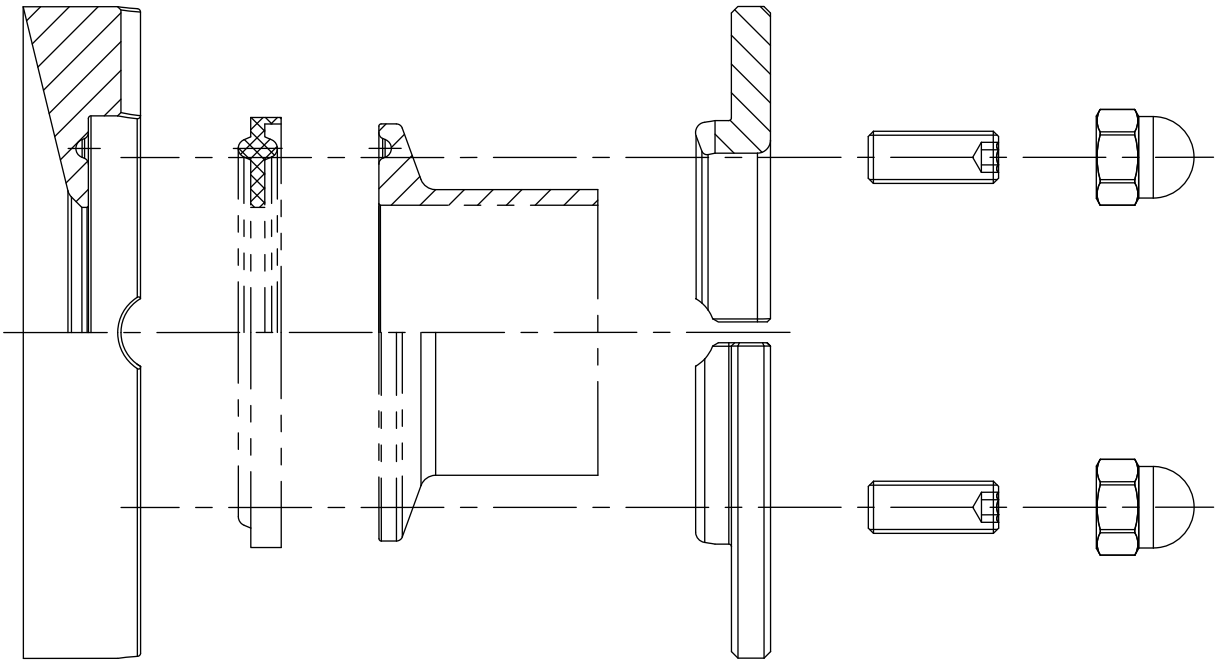
5.2. Clamp tank flange suitable for DIN 32676

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



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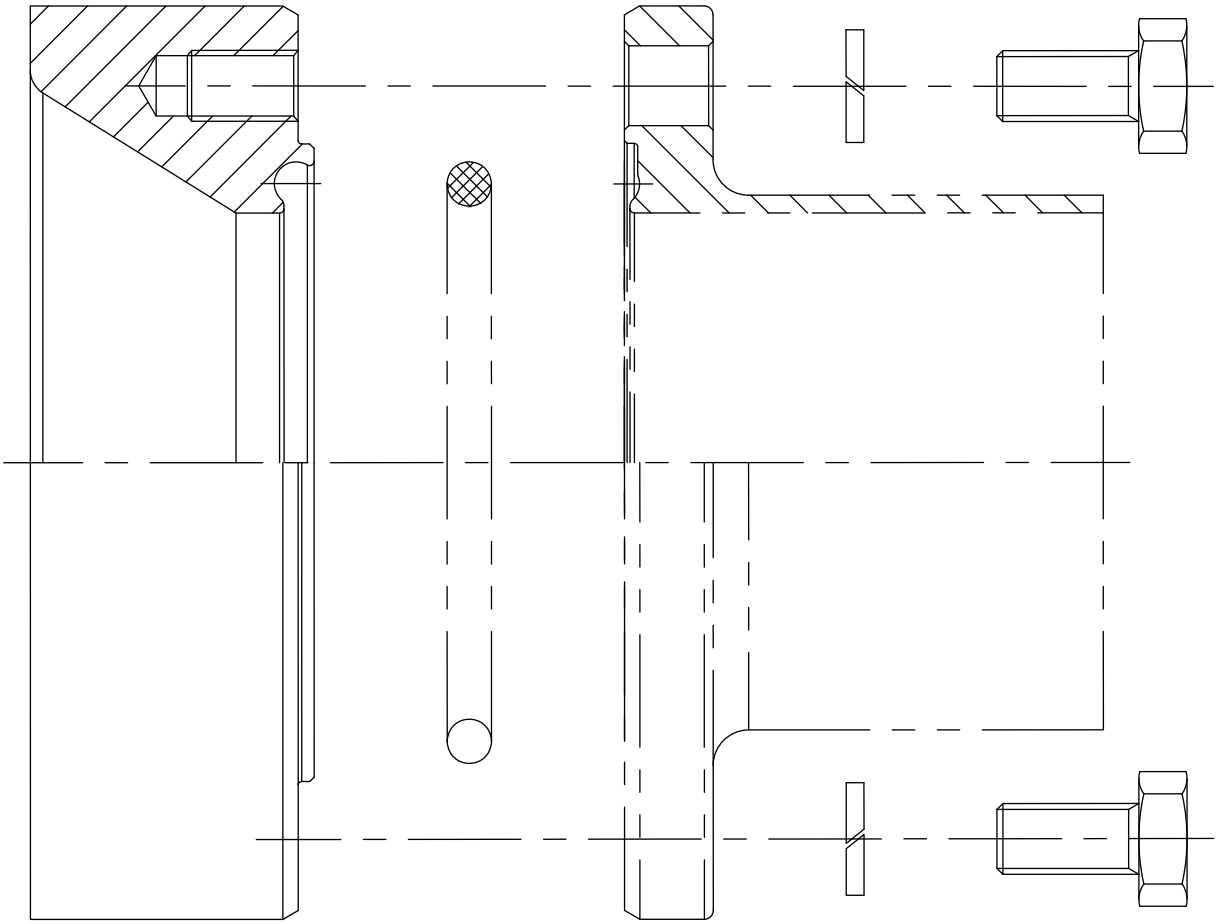
5.3. Tank flange suitable for DIN 11864 - 2

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 ▶**.



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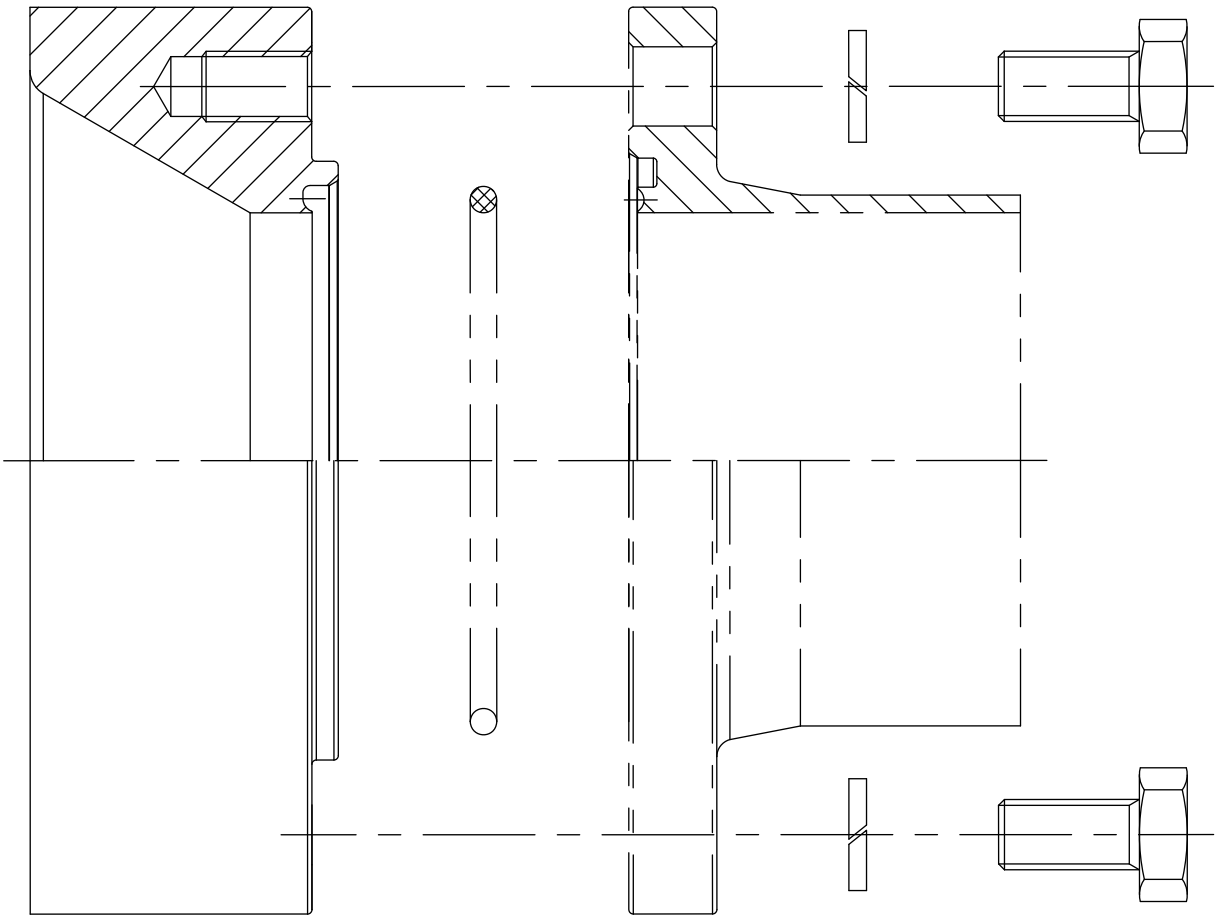
5.4. Tank flange suitable for BBS sterile contour

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 ▶**.



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6. Ordering information

6.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

6.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

6.3. Ordering chart

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

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