



### Check valves with welded connections

- Flow direction freely selectable
- 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

	<b>Type BBS-03</b> ▶ Fitting with welded connection according to DIN 11864-1 and BBS sterile contour
	<b>Type BBS-04</b> ▶ Platinum-cured peroxide-free silicone hose
	<b>Type BBS-05</b> ▶ Clamp connection with welded connection according to DIN 11864-3 and BBS-Sterile contour
	<b>Type BBS-06</b> ▶ Sterile contour flange connection according to DIN 11864-2 with welded connection

#### Type description

These sterile check valves with welded connection are suitable for liquids. The eccentric design and the specially designed internal geometry enable nearly complete draining in a horizontal installation position. In addition, due to the two-part design, the flow direction can be freely selected through a simple conversion.

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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, except for: Ball cap: PTFE Spring: stainless steel 1.4401/316 Special materials on request
Non-wetted	Stainless steel 1.4305/303 or equivalent
Seal	EPDM, FEP, PTFE
Ball	Stainless steel 1.4435/316L with PTFE ball
Surface quality	Wetted surface: RA < Ra 0.76 µm (ASME BPE SF3), other surfaces on request
Performance data	
Operating pressure	Max. 8 bar Standard opening pressure: 0.2 bar Other pressures on request
Medium data	
Operating medium	Liquids
Medium temperature	20...+ 160 °C
Process/Port connection & communication	
Nominal diameter	DIN DN 08...DN 100 ISO DN 08...DN 100 ASME DN ¼"...DN 4" Customised on request
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

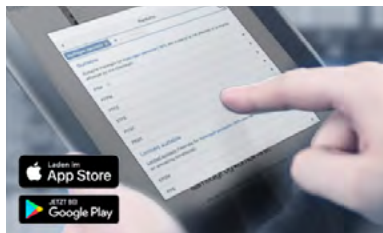
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

## 2.4. Foods and beverages/Hygiene

Conformity	Description
<b>FDA</b>	<b>FDA – Code of Federal Regulations</b> The seals made of EPDM, PTFE 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.
<b>USP</b>	<b>United States Pharmacopeial Convention (USP)</b> The seals made of EPDM, PTFE 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.

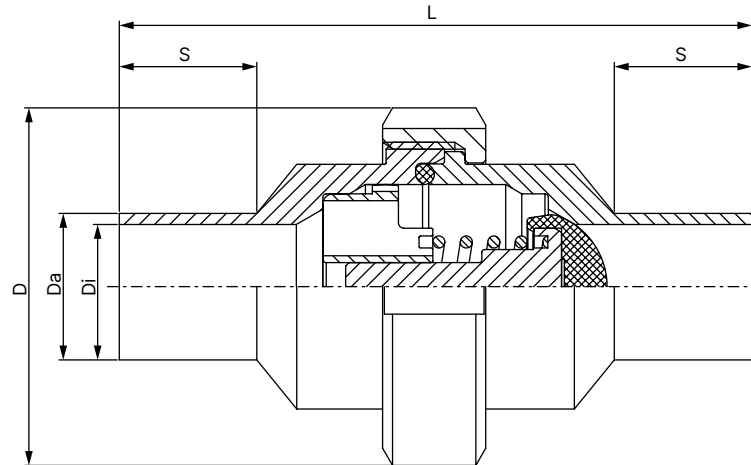
[Start chemical resistance check](#)

## 4. Dimensions

### 4.1. Ball check valve, screwed, with weld end

**Hinweis:**

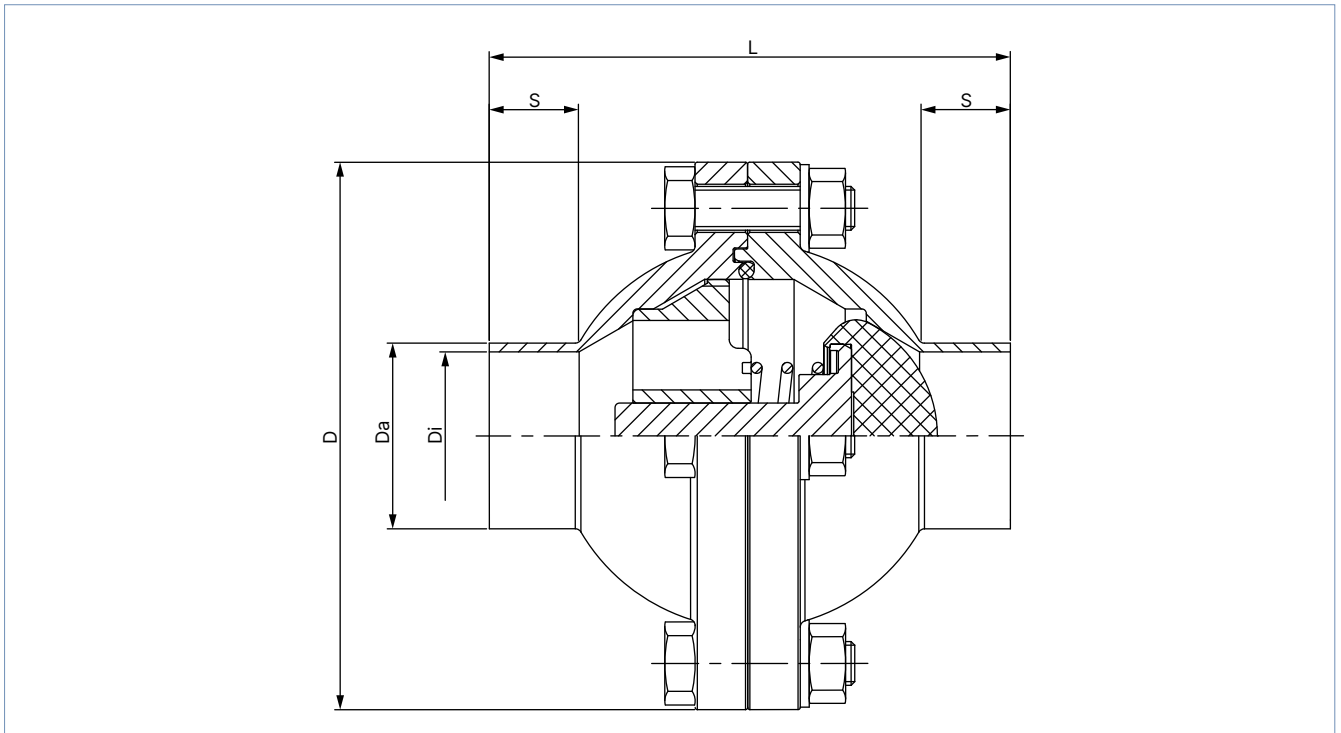
Nominal diameters over DN 25 bzw. DN 1" as flange variant, see chapter "4.2. Ball check valve, flanged, with weld end" on page 6.



Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	Article no. EPDM	Article no. FEP
<b>DIN</b>							
DN 08	52	10	8	92	18	736189	736193
DN 10	52	12	10	92	18	747682	736205
DN 10	52	13	10	92	18	745665	743424
DN 15	52	19	16	92	20	736234	736242
DN 20	67	23	20	105	18	736254	736258
DN 25	67	29	26	105	18	736262	736271
<b>ISO</b>							
DN 08	52	13.5	10.3	92	18	736347	736351
DN 10	52	17.2	14	92	20	736359	736363
DN 15	52	21.3	18.1	92	20	736393	736401
DN 20	67	26.9	23.7	105	18	736409	736414
DN 25	67	33.7	29.7	105	22	736433	736438
<b>ASME</b>							
DN 1/4"	52	6.35	4.57	92	18	736505	743727
DN 3/8"	52	9.53	7.75	92	18	on request	743728
DN 1/2"	52	12.7	9.4	92	18	736526	736534
DN 3/4"	52	19.05	15.75	92	20	745890	736543
DN 1"	67	25.4	22.10	105	18	736555	736568

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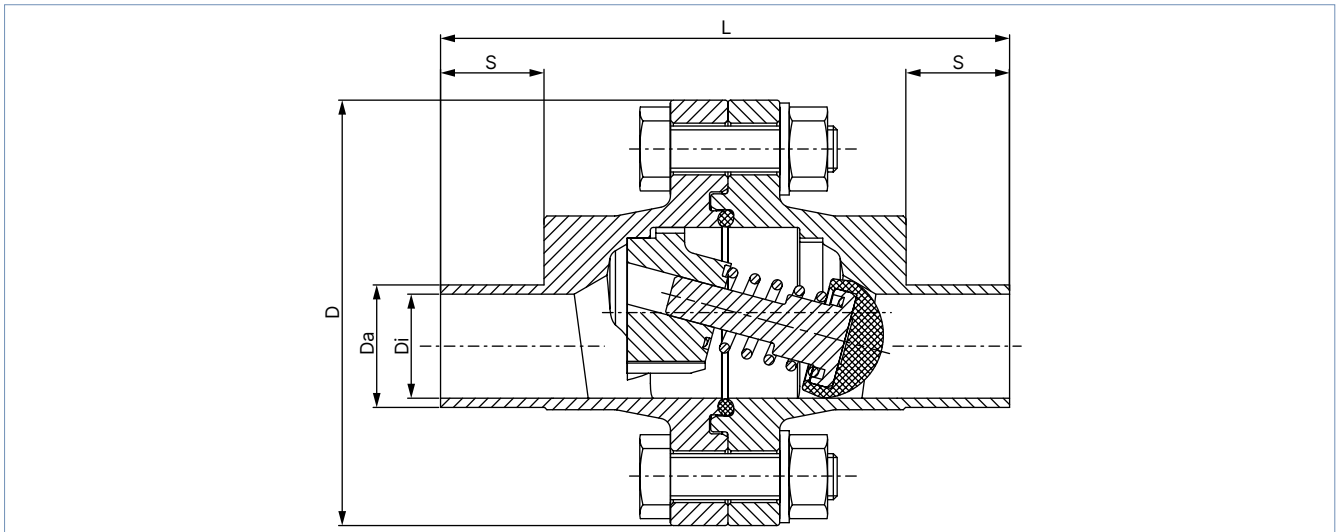
4.2. Ball check valve, flanged, with weld end






























Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	Article no.	Article no.
						EPDM	FEP
<b>DIN</b>							
DN 32	88	35	32	105	22	745682	736283
DN 40	125	41	38	140	25	745683	736292
DN 50	137	53	50	144	30	745686	736304
DN 65	168	70	66	154	38	736313	736322
DN 80	190	85	81	180	38	745691	736334
DN 100	240	104	100	179	30	743425	on request
<b>ISO</b>							
DN 25	88	33.7	29.7	105	20	745700	736426
DN 32	125	42.4	38.4	119	20	745702	736446
DN 40	137	48.3	44.3	137	20	743921	736467
DN 50	137	60.3	56.3	147	32	745704	736480
DN 65	168	76.1	72.1	154	40	745706	736493
DN 80	190	88.9	84.3	180	40	745708	736497
DN 100	240	114.3	109.7	176	30	748015	736368
<b>ASME</b>							
DN 1½"	125	38.1	34.8	159.3	38	736572	736580
DN 2"	137	50.8	47.5	180.4	45	736596	736600
DN 2½"	168	63.5	60.2	163	38	736608	736612
DN 3"	168	76.2	72.9	163	45	736616	736620
DN 4"	240	101.6	97.38	185	38	736625	736629

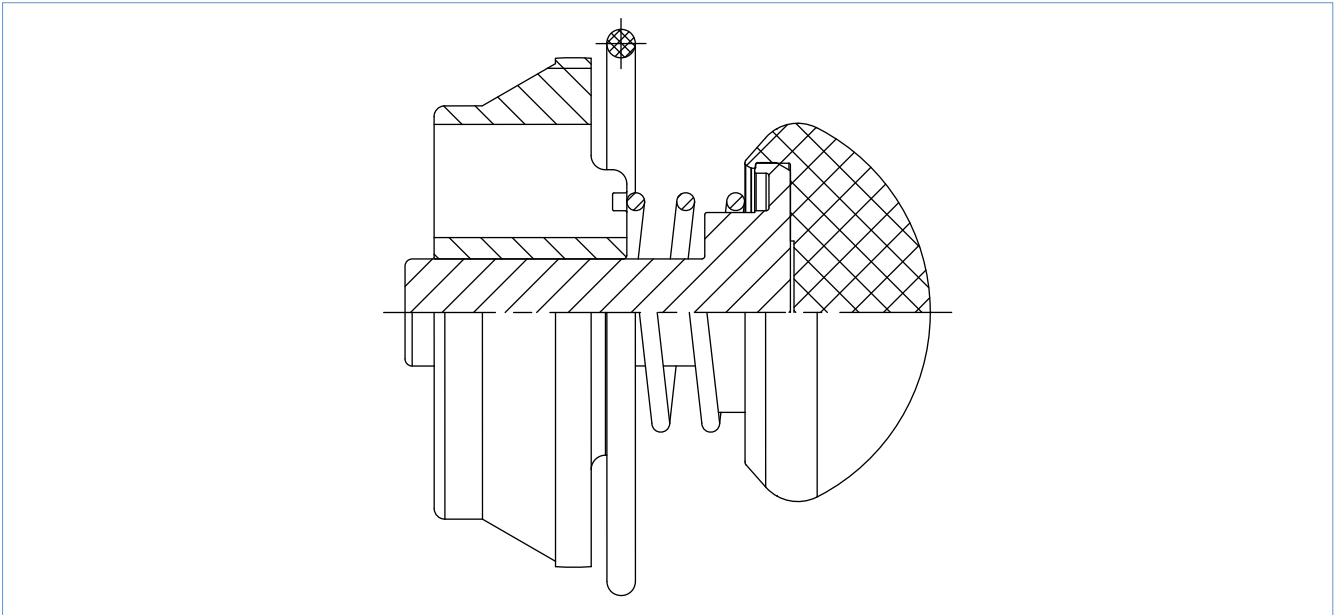
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### 4.3. Ball check valve, eccentric, with weld end



Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	Article no. EPDM	Article no. FEP
<b>DIN</b>							
DN 08	74	10	8	124	18	on request	on request
DN 10	74	12	10	117	18	on request	on request
DN 10	74	13	10	117	18	on request	on request
DN 15	74	19	16	99	18	on request	on request
DN 20	88	23	20	155	25	on request	on request
DN 25	88	29	26	142	25	745679 	744088 
DN 32	135	35	32	203	25	on request	on request
DN 40	125	41	38	187	25	on request	on request
DN 50	137	53	50	180	25	745687 	on request
DN 65	168	70	66	199	25	on request	on request
DN 80	194	85	81	216	25	on request	on request
DN 100	260	104	100	246	30	on request	on request
<b>ISO</b>							
DN 08	74	13.5	10.3	117	18	744339 	745694 
DN 10	74	17.2	14	105	18	744351 	745695 
DN 15	74	21.3	18.1	99	18	744352 	743491 
DN 20	88	26.9	23.7	146	25	744353 	742970 
DN 25	88	33.7	29.7	127	25	744354 	736422 
DN 32	125	42.4	38.4	187	25	744355 	745701 
DN 40	137	48.3	44.3	210	25	744356 	736458 
DN 50	137	60.3	56.3	180	25	on request	on request
DN 65	194	76.1	72.1	226	20	744358 	745705 
DN 80	194	88.9	84.3	216	25	744359 	745707 
DN 100	260	114.3	109.7	216	30	on request	on request
<b>ASME</b>							
DN 1/4"	74	6.35	4.57	137	18	on request	on request
DN 3/8"	74	9.53	7.75	127	18	on request	on request
DN 1/2"	74	12.7	9.4	117	18	744140 	on request
DN 3/4"	74	19.05	15.75	117	18	744131 	745715 
DN 1"	88	25.4	22.1	155	25	745717 	745718 
DN 1 1/2"	125	38.1	34.8	197	25	on request	on request
DN 2"	137	50.8	47.5	186	25	on request	on request
DN 2 1/2"	168	63.5	60.2	209	25	on request	745724 
DN 3"	168	76.2	72.9	185	25	on request	on request
DN 4"	260	101.6	97.38	256	30	on request	on request

#### 4.4. Spare parts kit for ball check valve



**Note:**  
The spare parts kit consists of a support flange, a spring, a ball cap and an o-ring

Nominal diameter	Article no. EPDM	Article no. FEP
<b>DIN</b>		
DN 08	735561	735565
DN 10	735561	735565
DN 15	735561	735565
DN 20	735577	735581
DN 25	735577	735581
DN 32	735577	735581
DN 40	on request	735589
DN 50	on request	735593
DN 65	on request	735597
DN 80	on request	735601
DN 100	on request	743828
<b>ISO</b>		
DN 08	735561	735565
DN 10	735561	735565
DN 15	735561	735565
DN 20	on request	735573
DN 25	735577	735581
DN 32	on request	735585
DN 40	on request	735593
DN 50	on request	735593
DN 65	on request	735597
DN 80	on request	735601
DN 100	on request	743828
<b>ASME</b>		
DN 1/4"	735561	735565
DN 3/8"	735561	735565
DN 1/2"	735561	735565
DN 3/4"	735561	735565
DN 1"	on request	735573
DN 1 1/2"	on request	735585

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Nominal diameter	Article no. EPDM	Article no. FEP
DN 2"	on request	735589
DN 2½"	on request	735593
DN 3"	on request	735597
DN 4"	on request	743828

## 5. Ordering information

### 5.1. 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](#)

### 5.2. 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](#)

### 5.3. Ordering chart

**Note:**

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

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