Inline sight glass full view and partial view variant

- Borosilicate sight glass 3.3
- All materials in contact with media can be traced
- Suitable for CIP and SIP
- Sight glass is mounted tension-free

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 ▸
Flange connection with welded connection according to DIN 11864-2 and BBS-Sterile contour

Type BBS-07 ▸
Sterile contour block flange

Type description

The inline sight glass enables quick visual control of ongoing processes. Partial sight glasses enable process monitoring in a 180° position. Full view sight glasses have a 360° viewing window, thus the liquid flow is visible from every position. Horizontal or vertical installation position is possible.

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

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Visit product website ▸

Table of contents

1. General technical data 3

2. Approvals and conformities 4

2.1. General notes 4
2.2. Conformity 4
2.3. Standards 4
2.4. Foods and beverages/Hygiene 4

3. Materials 4

3.1. Bürkert resistApp 4

4. Dimensions 5

4.1. Inline flow indicator with clamp connection 5
Full view variant 5
Partial view variant 7
4.2. Inline flow indicator with welded connection 8
Full view variant 8
Partial view variant 10
4.3. Spare parts kit 12

5. Ordering information 13

5.1. Bürkert eShop 13
5.2. Bürkert product filter 13
5.3. Ordering chart 13

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 5.
Material	
Wetted	Stainless steel 1.4435/316L Special materials on request
Non-wetted	Stainless steel 1.4305/303 or equivalent
Seal	EPDM, FEP
Glass	Borosilicate glass
Surface quality	Wetted surface: RA < Ra 0.76 µm (ASME BPE SF3), other surfaces on request
Performance data	
Operating pressure	0.2 bar abs...8 bar
Medium data	
Operating medium	Gases or liquids
Medium temperature	Depending on the chosen seal material EPDM: - 20 °C...+ 90 °C, short-term...+ 140 °C FEP: - 20 °C...+ 130 °C, short-term...+ 150 °C
Process/Port connection and communication	
Nominal diameter	
Full view variant	DIN DN 08...DN 100 ISO DN 08...DN 100 ASME DN ¼"...DN 4"
Standard variant	DIN DN 08...DN 50 ISO DN 08...DN 50 ASME DN ¼"...DN 2" 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

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

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

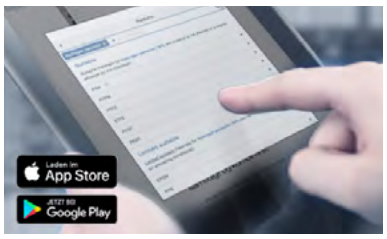
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

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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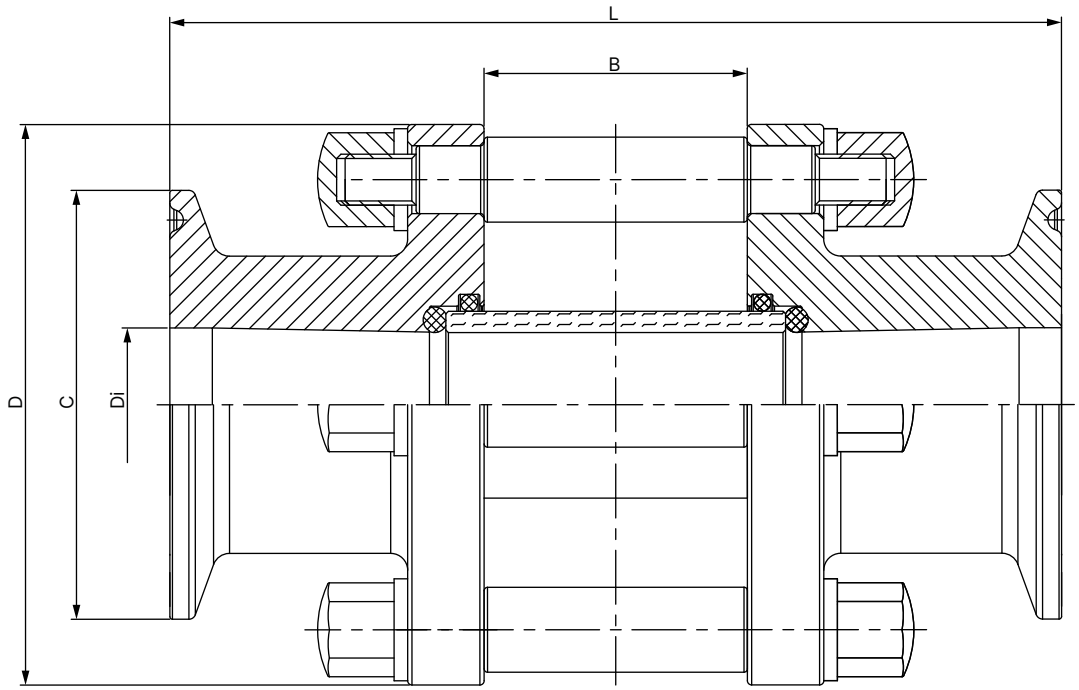
4. Dimensions

4.1. Inline flow indicator with clamp connection

Full view variant



Nominal diameter	D [mm]	C [mm]	Di [mm]	B [mm]	L [mm]	Article no. EPDM	Article no. FEP
DIN							
DN 08	59	25	8	19.5	91	on request	on request
DN 10	59	34	10	19.5	91	on request	748693
DN 15	65	34	16	31	105	748263	741617
DN 20	70	34	20	32	105	on request	on request
DN 25	80	50.5	26	32	105	on request	748759
DN 40	90	50.5	38	41.2	121	748780	on request
DN 50	110	64	50	60	140	on request	748622
DN 65	124	91	66	67	148	748889	on request
DN 80	145	106	81	110	196	741638	748621
DN 100	160	119	100	97	184	on request	on request
ISO							
DN 08	59	25	10.3	19.5	91	741399	741401
DN 10	59	25	14	26.4	91	741409	741411
DN 15	66	50.5	18.1	31	111	741429	741431
DN 20	73	50.5	23.7	32	111	741436	741438
DN 25	73	50.5	29.7	32	111	741448	741450
DN 32	90	64	38.4	41.2	121	741458	741460
DN 40	88	64	44.3	67	146	741466	741468
DN 50	124.1	77.5	56.3	80	171	741474	741476
DN 65	135	91	71.5	94	185	741481	741483
DN 80	145	106	84.3	97	196	741488	741490
DN 100	178	130	109.1	118	209	741417	741419
ASME							
DN ¼"	50	25	4.57	19.5	91.5	743027	743028
DN ⅜"	50	25	7.75	19.5	91.5	741502	741503

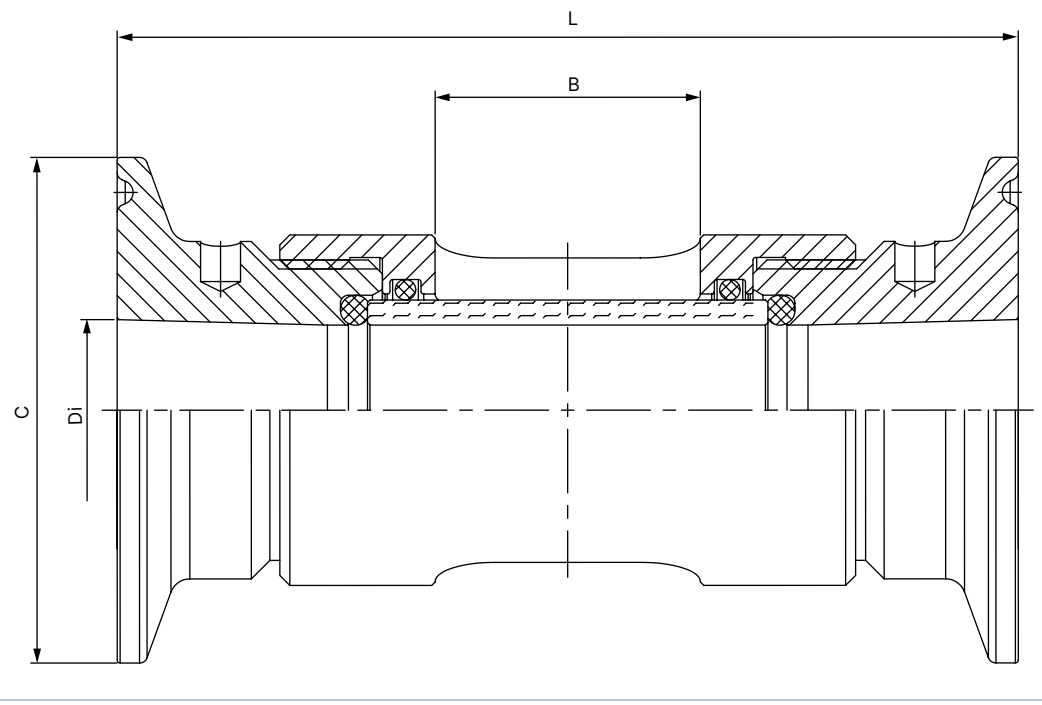
DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

Nominal diameter	D [mm]	C [mm]	Di [mm]	B [mm]	L [mm]	Article no. EPDM	Article no. FEP
DN ½"	59	25	9.4	19.5	91.5	741511	741513
DN ¾"	65	25	15.75	33	105	741520	741522
DN 1"	73	50.5	22.1	36	105	741537	741541
DN 1½"	82	50.5	34.8	37	105	741552	741554
DN 2"	100	64	47.5	54	140	741565	741567
DN 2½"	124	77.5	60.2	67	151	741574	741576
DN 3"	135	91	72.9	97	181	741586	741588
DN 4"	159	119	97.38	119	206	741596	741598

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

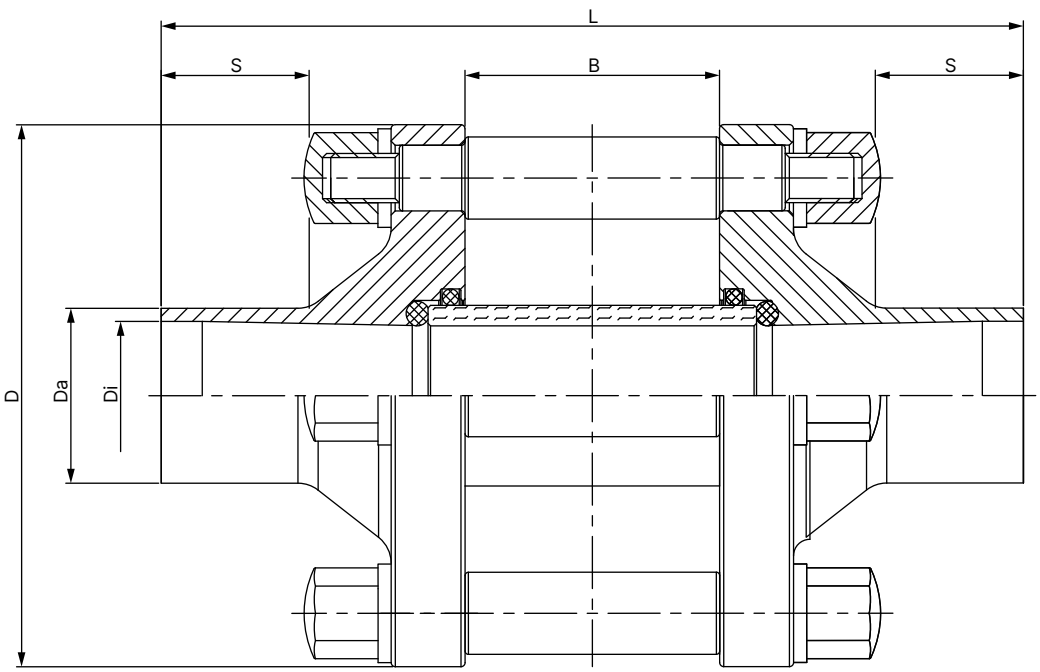
Partial view variant



Nominal diameter	C [mm]	Di [mm]	B [mm]	L [mm]	Article no. EPDM	Article no. FEP
DIN						
DN 08	25	8	20	76	747993	on request
DN 10	34	10	20	76	743903	on request
DN 15	50.5	16	30	92	741612	741615
DN 20	50.5	20	30	92	741619	on request
DN 25	50.5	26	32	92	741623	734168
DN 40	64	38	32	120	741629	on request
DN 50	64	50	48	120	741631	on request
ISO						
DN 08	25	9.4	20	76	741395	741397
DN 10	25	14	20	76	741403	741405
DN 15	50.5	18.1	24	92	741425	741427
DN 20	50.5	23.7	24	92	741433	741434
DN 25	50.5	29.7	24	92	741444	741446
DN 32	64	38.4	32	115	741454	741456
DN 40	64	44.3	48	120	741462	741464
DN 50	77.5	56.3	80	187	741470	741472
ASME						
DN ¼"	25	4.60	20	76	741492	741496
DN ⅜"	25	7.75	20	76	741498	741500
DN ½"	25	9.4	20	76	741505	741509
DN ¾"	25	15.75	30	92	741516	741518
DN 1"	50.5	22.1	30	92	741530	741533
DN 1½"	50.5	34.8	32	115	741546	741550
DN 2"	64	47.5	48	120	741560	741563

4.2. Inline flow indicator with welded connection

Full view variant



Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	B [mm]	Article no. EPDM	Article no. FEP
DIN								
DN 08	59	10	8	91.5	18	19.5	744847	on request
DN 10	59	12	10	98	18	19.5	on request	on request
DN 10	59	13	10	98	18	19.5	744849	744050
DN 15	65	19	16	105	18	33	743981	743980
DN 20	70	23	20	105	18	33	744856	on request
DN 25	73	29	26	115	18	36	743676	on request
DN 40	82	41	38	125	20	41.2	743688	on request
DN 50	110	53	50	156	20	65	on request	on request
DN 65	124	70	66	158	20	67	740828	on request
DN 80	145	85	81	207	20	97	744865	on request
DN 100	160	104	100	214	25	118.4	744852	on request
ISO								
DN 08	59	13.5	10.3	91.5	18	19.5	740880	740883
DN 10	59	17.2	14	98	18	26.4	740886	740889
DN 15	66	21.3	18.1	105	18	31	740904	740907
DN 20	73	26.9	23.7	111	18	32	740910	740913
DN 25	73	33.7	29.7	111	18	32	740920	740923
DN 32	82	42.4	38.4	125	20	41.2	740926	740929
DN 40	88	48.3	44.3	156	20	67	740935	740938
DN 50	110	60.3	56.3	171	20	80	740944	740947
DN 65	135	76.1	72.1	193	25	97	740950	740953
DN 80	138	88.9	84.3	187	25	97	740959	740962
DN 100	170	114.3	109.7	214	25	118.4	740892	740895
ASME								
DN ¼"	50	6.35	4.55	127	38.1	19.5	on request	on request
DN ⅜"	50	9.53	7.75	129	38.1	19.5	on request	on request
DN ½"	59	12.7	9.4	133	38.1	19.5	740831	740834

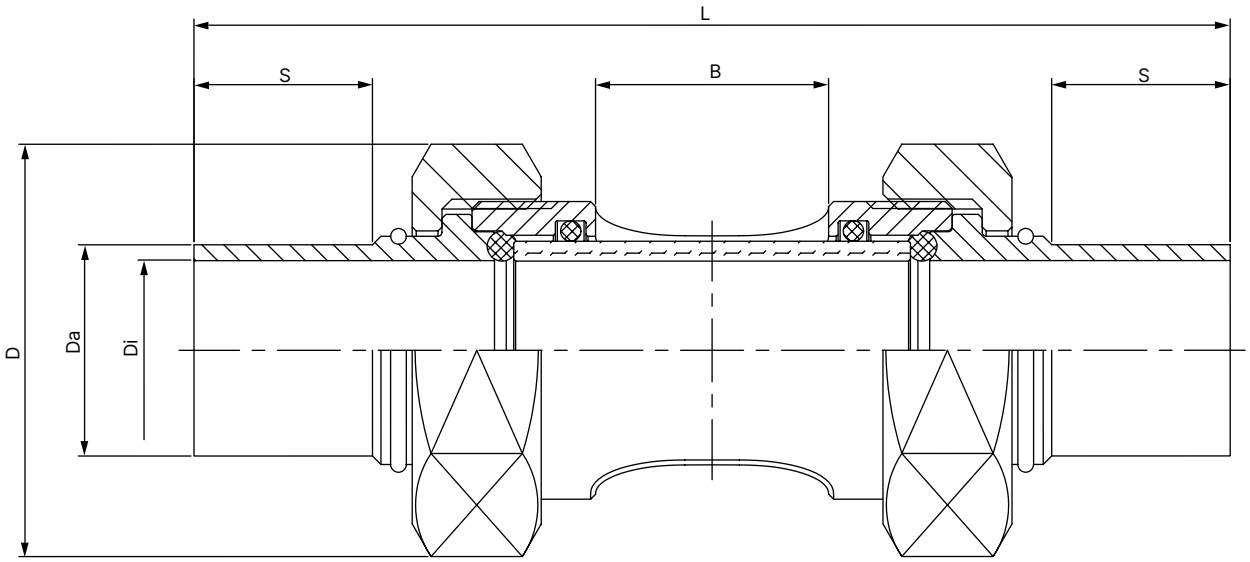
DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

Nominal diameter	D	Da	Di	L	S	B	Article no. EPDM	Article no. FEP
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
DN ¾"	65	19.05	15.75	146	38.1	33	740837	740839
DN 1"	73	25.4	22.1	149	38.1	36	740843	740845
DN 1½"	82	38.1	34.8	152	38.1	36	740848	740851
DN 2"	100	50.8	47.5	190	38.1	54	740854	740857
DN 2½"	124	63.5	60.2	222	38.1	67	740860	740863
DN 3"	135	76.2	72.9	241	38.1	97	740866	740869
DN 4"	159	101.6	97.4	263	38.1	119	740872	740877

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

Partial view variant



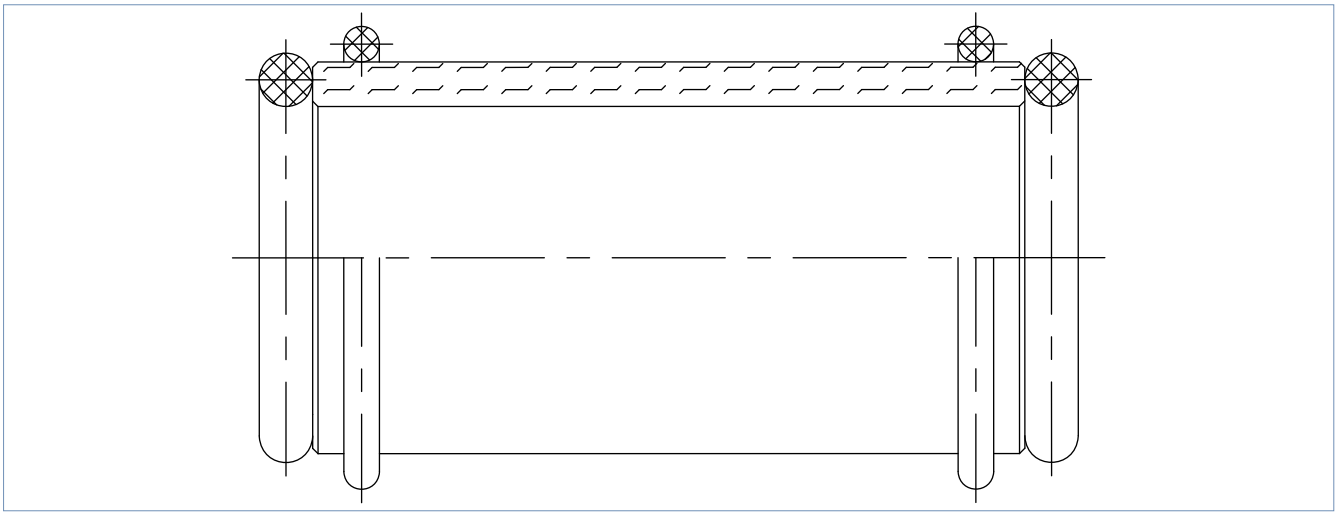
Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	B [mm]	Article no. EPDM	Article no. FEP
DIN								
DN 08	25.4	10	8	92.5	18	17	741219	734152
DN 10	31.18	12	10	92	18	18	744914	on request
DN 10	31.18	13	10	92.5	18	18	741221	744916
DN 15	36.95	19	16	110	18	20	741224	741226
DN 20	48.3	23	20	110	18	28	741228	744917
DN 25	48	29	26	110	18	24	741232	741234
DN 40	62	41	38	122.5	18	31	744920	741240
DN 50	80	53	50	154.5	18	31	743593	741244
ISO								
DN 08	31.8	13.5	10.3	92	18	18	741249	741251
DN 10	36.5	17.2	14	98.5	18	21	741257	741259
DN 15	41.57	21.3	18.1	104.5	18	24.5	741266	741268
DN 20	48.3	26.9	23.7	104.5	18	24	741275	741279
DN 25	52	33.7	29.7	106	18	18	741285	741287
DN 32	62	42.4	38.4	122.5	18	31	741294	741296
DN 40	76	48.3	44.3	143	18	59.4	741302	741303
DN 50	88	60.3	56.3	165	18	79.4	741309	741311

Nominal diameter	D [mm]	Da [mm]	Di [mm]	L [mm]	S [mm]	B [mm]	Article no. EPDM	Article no. FEP
ASME								
DN ¼"	50	6.35	4.55	127	38.1	19.5	on request	on request
DN ⅜"	50	9.53	7.75	129	38.1	19.5	on request	on request
DN ½ "	59	12.7	9.4	133	38.1	19.5	740831	740834
DN ¾"	65	19.05	15.75	146	38.1	33	740837	740839
DN 1"	73	25.4	22.1	149	38.1	36	740843	740845
DN 1½ "	82	38.1	34.8	152	38.1	36	740848	740851
DN 2"	100	50.8	47.5	190	38.1	54	740854	740857
DN 2½ "	124	63.5	60.2	222	38.1	67	740860	740863
DN 3"	135	76.2	72.9	241	38.1	97	740866	740869
DN 4"	159	101.6	97.4	263	38.1	119	740872	740877

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

4.3. Spare parts kit

Hinweis:
The spare parts kit consists of a flow indicator, an o-ring and a support ring.



Nominal diameter	Article no. EPDM	Article no. FEP
DIN		
DN 08	740316	744678
DN 10	744679	744680
DN 15	744683	744684
DN 20	744687	744688
DN 25	744689	744690
DN 40	744693	744694
DN 50	740334	744695
DN 65	744696	744697
DN 80	744698	744699
DN 100	744681	744682
ISO		
DN 08	740492	740495
DN 10	740500	744722
DN 15	740515	740518
DN 20	740527	740530
DN 25	740539	740542
DN 32	740552	740555
DN 40	740561	740564
DN 50	740573	740575
DN 65	744727	744728
DN 80	744729	740581
DN 100	744723	744724
ASME		
DN ¼"	744718	744719
DN ⅜"	740316	744721
DN ½"	740347	740350
DN ¾ "	740365	740368
DN 1"	740381	740384
DN 1½"	740393	740396
DN 2"	740417	740420
DN 2½"	740433	740436
DN 3"	740446	740449
DN 4"	740458	740461

DTS 1000148923 EN Version: S Status: RL (released | freigegeben | valide) printed: 20.05.2026

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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