



2/2-way stainless steel ball valve three pieces for hygienic applications

- Investment cast stainless steel
- Blow-out proof stem with adjustable packing
- Long service life
- Manual and ISO 5211 mounting flange versions
- Suitable for CIP and SIP (cleaning in process)

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

Can be combined with

	Type 2051 Pneumatic rotary actuator	▶
	Type 2053 Pneumatic rotary actuator for the automation of ball and butterfly valves	▶
	Type 3003 Electrical Rotary Actuator – On/Off and control	▶
	Type 3005 Electric Rotary Actuator – On/Off and Control	▶
	Type 3004 Explosion-Proof Rotary Actuator – On/Off or Control	▶
	Type 1061 Position feedback unit for pneumatic rotary actuators	▶
	Type 8692 Digital electro-pneumatic positioner for integrated mounting on process control valves	▶

Type description

The ball valves are manufactured using high quality materials and fulfil the requirements of many international standards. They offer maximum flow performance for hygienic duties and are available in different variations.

Thanks to their simple construction, the ball valves are very low-maintenance.

Furthermore, they can be connected via the mechanical interface (according to ISO 5211) with pneumatic (e.g. Type 2051, Type 2052, Type 2053) and electrical rotary actuators (e.g. Type 3003, Type 3004, Type 3005).

Applications

- Biotechnology
- Pharmaceutical industry
- Chemical industry
- Dairy plants
- Food industry
- Cosmetics industry

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter “4. Dimensions” on page 7.
Material	Further information can be found in chapter “3. Materials” on page 5.
Body	Body versions according to: <ul style="list-style-type: none"> Stainless steel ASTM A351 Gr.CF8M Stainless steel ASTM A351 Gr.CF3M
Ball	Ball versions according to: <ul style="list-style-type: none"> Stainless steel 316 Stainless steel 316L
Stem	Stem versions according to: <ul style="list-style-type: none"> Stainless steel 316 Stainless steel 316L
Seal	Seat versions: <ul style="list-style-type: none"> PTFE, cavity-filled and non-filled (FDA-conforming) TFM, cavity-filled and non-filled (FDA-conforming) <p>Body gasket, thrust washer and stem packing:</p> <ul style="list-style-type: none"> TFM (FDA-conforming)
Medium data	
Medium	Stainless steel body: aggressive media which do not attack the body and seal material
Medium temperature	- 20 °C...220 °C (see “5.1. Pressure temperature diagram ASME BPE and DIN 32676 series A” on page 12.)
Medium pressure	See “5.1. Pressure temperature diagram ASME BPE and DIN 32676 series A” on page 12.
Process/Port connections	
Port connection	Tube weld end versions according to: <ul style="list-style-type: none"> ASME BPE ASME BPE extended SMS 3008 DIN 11850 series 2 ISO 1127 / ISO 4200 <p>Clamp ferrule versions according to:</p> <ul style="list-style-type: none"> ASME BPE DIN 32676 series A
Approvals and conformities	
ISO head flange	EN ISO 5211
Anti-static	Spring loaded ball in stem and conductive spring
Certificates	
Safety instrument systems	SIL 2
Food and beverages/Hygiene	
FDA	Further information can be found “2.4. Foods and beverages/Hygiene” on page 5.
USP	Further information can be found “2.4. Foods and beverages/Hygiene” on page 5.
EC Regulation 1935/2004	Further information can be found “2.4. Foods and beverages/Hygiene” on page 5.
ADI	Further information can be found “2.4. Foods and beverages/Hygiene” on page 5.

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 versions 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.

- Pressure Equipment Directive 2014/68/EU

2.3. Standards

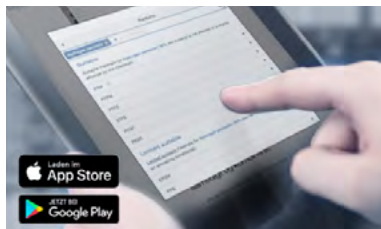
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations The seals made of PTFE and TFM1600 comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA). The O-rings made of FKM comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).
USP	United States Pharmacopeial Convention (USP) The seals made of PTFE and TFM1600 are tested according to USP Class VI.
	EC Regulation 1935/2004 of the European Parliament and of the Council The seals made of PTFE and TFM1600 are suitable for use with food and beverages (according to EC Regulation 1935/2004/EC).
ADI	Animal Derived Ingredients The seals made of PTFE and TFM1600 do not contain any raw material of animal or human origin.

3. Materials

3.1. Bürkert resistApp

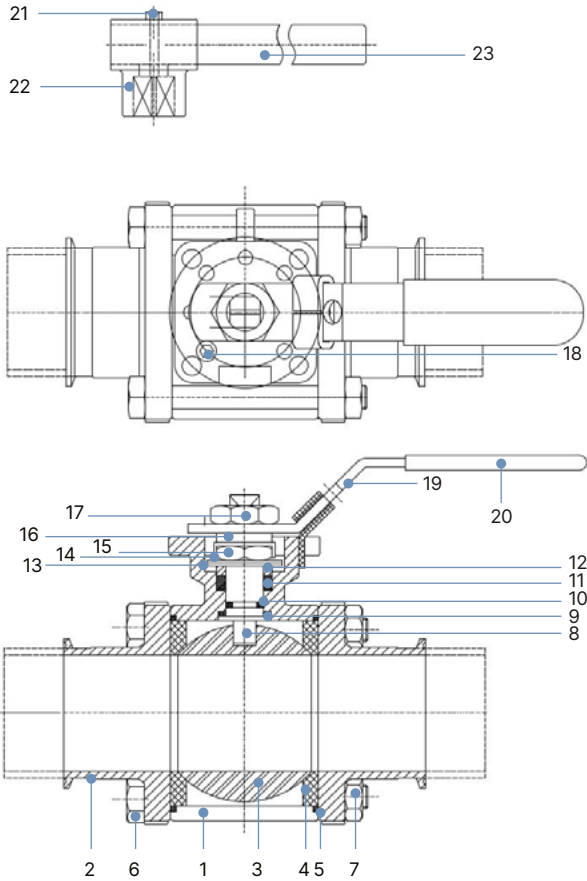


Bürkert resistApp – Chemical resistance chart

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.

3.2. Material specifications

DN 65...DN 150



No.	Element	Material	Option	Quantity
1	End cap	CF8M	CF3M	2
2	Body	CF8M	CF3M	1
3	Ball	SS 316	SS 316L	1
4	Seat	PTFE	TFM1600	2
5	Gasket	TFM	TFM1600	2
6	Body bolts	SS 304	SS 304	4 ^{1.)}
7	Body nut	SS 304	SS 304	4 ^{1.)}
8	Stem	SS 316	SS 316L	1
9	Thrust washer	TFM	TFM	1
10	O-ring	FKM (FDA)	FKM (FDA)	1
11	Stem packing	TFM1600	TFM1600	1 (set)
12	Gland washer	SS 304	SS 304	1
13	Disc washer	SS 301	SS 301	2
14	Nut stop	SS 304	SS 304	1
15	Stem nut	SS 304	SS 304	1
16	Space washer	SS 304	SS 304	1
17	Handle nut	SS 304	SS 304	1
18	Stop pin	SS 304	SS 304	1
19	Handle	SS 304	SS 304	1
20	Sleeve	Plastic	Plastic	1
21	Set bolt	SS 304	SS 304	1
22	Lever head cap	CF8	CF8	1
23	Lever	SS 304	SS 304	1

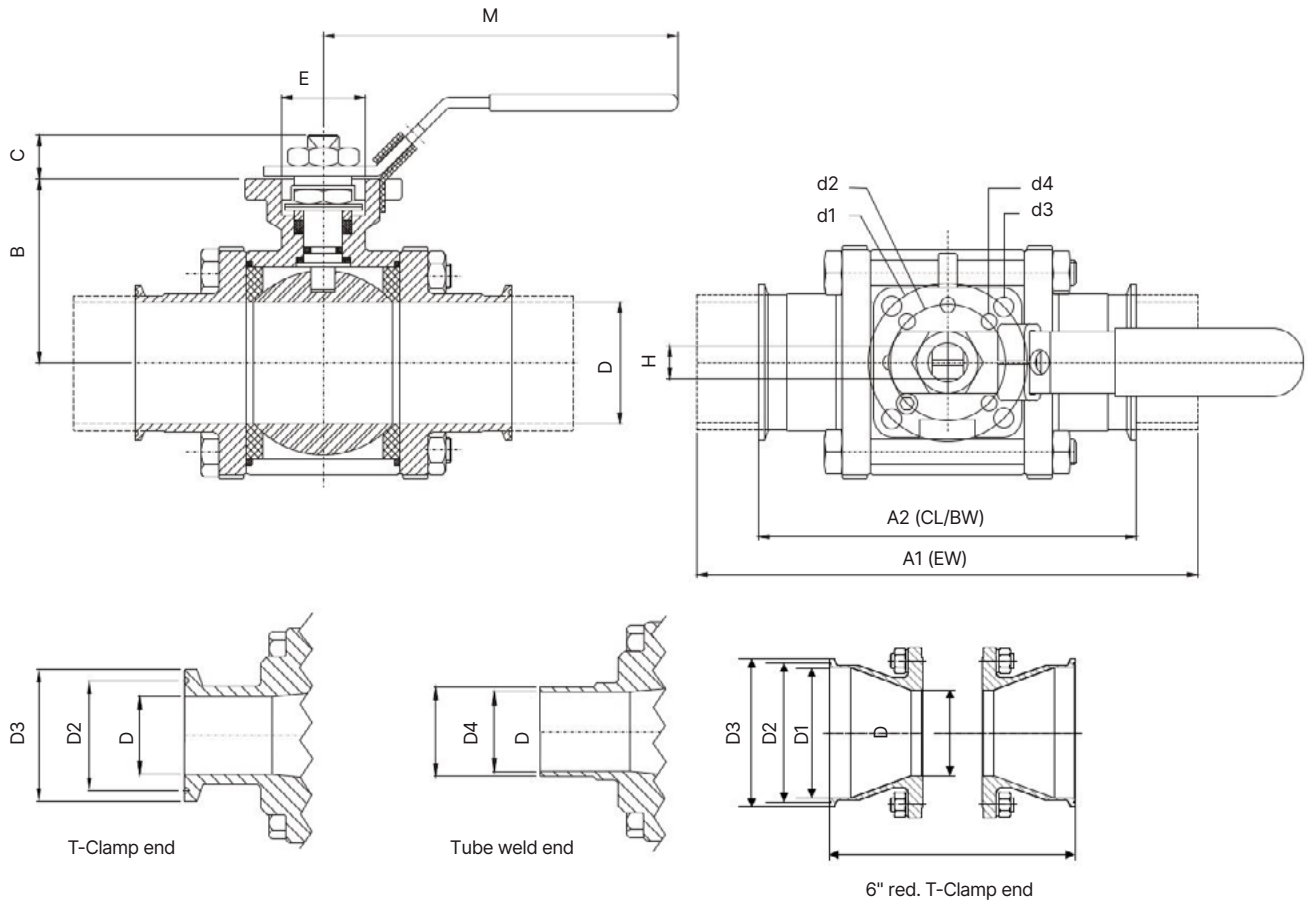
1.) 6 bolts and nuts on 4" valve

4. Dimensions

4.1. Dimensions ASME BPE

Note:

Dimensions in mm



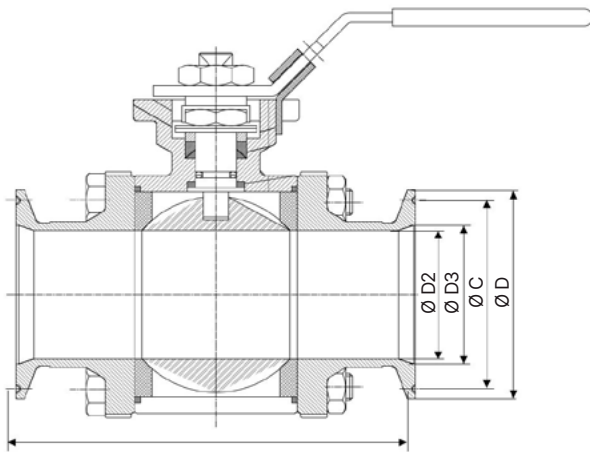
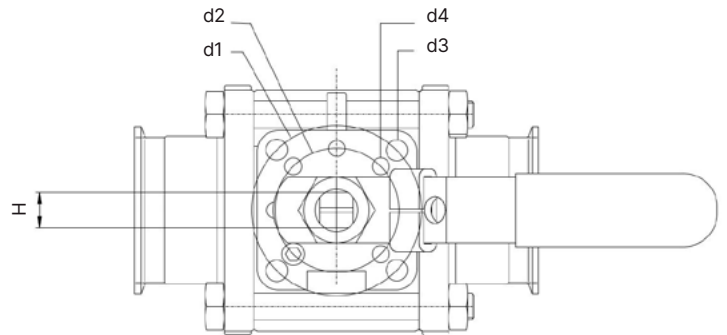
Nominal diameter	A1	A2	B	C	d1	d2	d3	d4	E	H	M	D	D1	D2	D3	D4
[inch]																
1/4"	-	88.9	38	9.5	42	36	6.0	6.0	25	9	135	4.57	-	-	-	6.35
3/8"	-	88.9	38	9.5	42	36	6.0	6.0	25	9	135	7.75	-	-	-	9.53
1/2"	124.4	88.9	38	9.5	42	36	6.0	6.0	25	9	135	9.6	-	21.7	25	12.7
3/4"	142.2	101.6	38	9.5	42	36	6.0	6.0	25	9	135	15.8	-	21.7	25	19.05
1"	162.3	114.3	48	14	50	42	7.0	6.0	30	11	155	22.1	-	43.5	50.4	25.4
1 1/2"	182.8	139.7	60	18	70	50	9.2	7.0	35	14	205	34.8	-	43.5	50.4	38.1
2"	193.0	158.8	69	18	70	50	9.2	7.0	35	14	205	47.5	-	56.5	63.9	50.8
2 1/2"	254.1	171.5	89	20	102	70	11.3	9.0	55	17	300	60.2	-	70.5	77.4	63.5
3"	276.9	196.8	98	20	102	70	11.3	9.0	55	17	300	72.9	-	83.3	90.9	76.2
4"	304.9	241.3	130	26	125	102	13.5	11.3	70	22	350	97.4	-	110.3	118.9	101.6
6" (red.)	-	328.3	130	26	125	102	13.5	11.3	70	22	350	97.4	146.85	156.9	166.9	-

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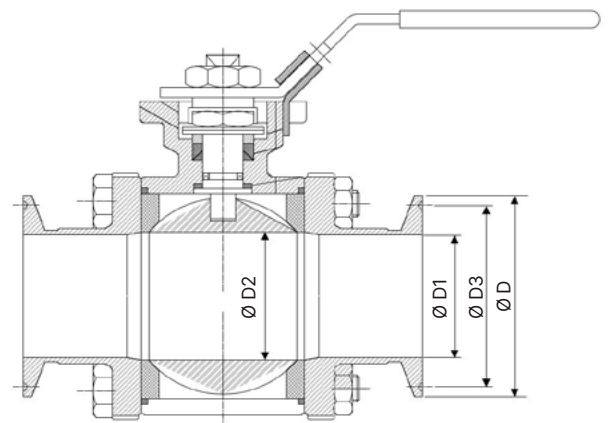
4.2. Dimensions DIN 32676 series A clamp ferrule

Note:

Dimensions in mm



DN 15, 25, 40, 50, 65, 80, 100



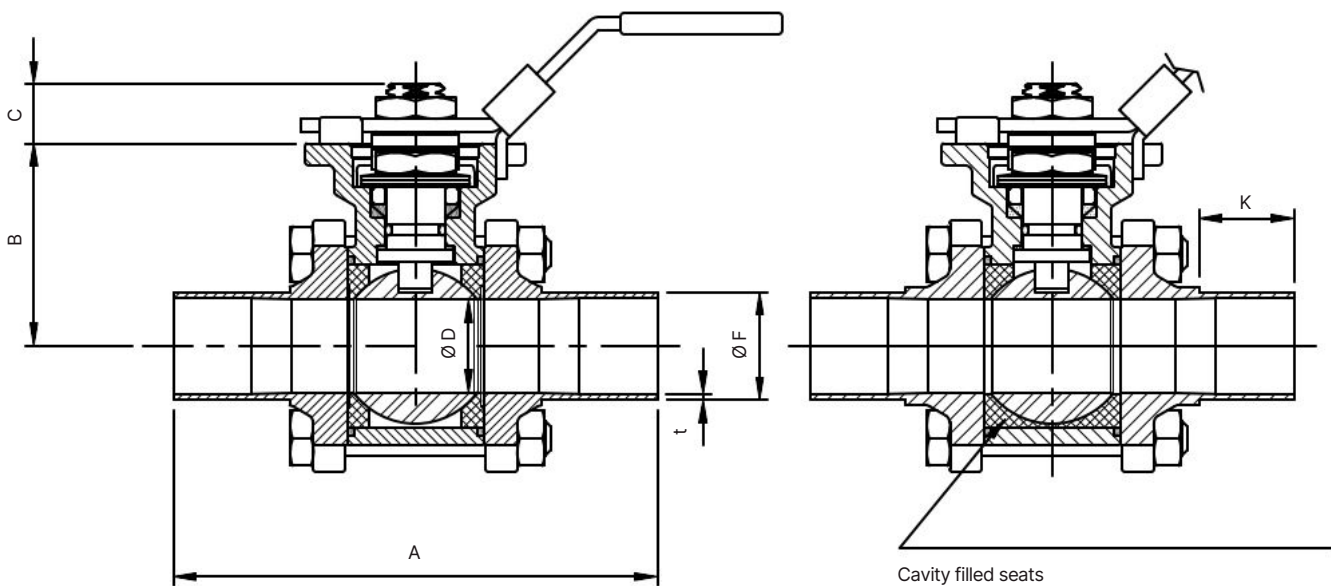
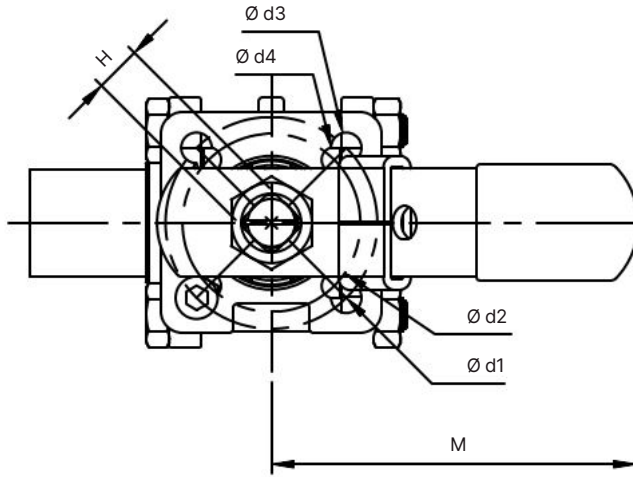
DN 20

Nominal diameter [mm]	L	B	C	d1	d2	d3	d4	E	H	M	D	D1	D2	D3	Original body size [inch]
15	101.6	38	9.5	42	36	6.0	6.0	25	9	135	34	16	9.6	27.5	¾
20	101.6	38	9.5	42	36	6.0	6.0	25	9	135	34	20	15.8	27.5	1
25	114.3	48	14	50	42	7.0	6.0	30	11	155	50.5	26	22.1	43.5	1
40	139.8	60	18	70	50	9.2	7.0	35	14	205	50.5	38	34.8	43.5	1½
50	158.8	69	18	70	50	9.2	7.0	35	14	205	64	50	47.5	56.5	2
65	171.5	89	20	102	70	11.3	9.0	55	17	300	91	66	60.2	83.5	2½
80	196.3	98	20	102	70	11.3	9.0	55	17	300	106	81	72.9	91.0	3
100	241.3	130	26	125	102	13.5	11.3	70	22	350	119	100	97.4	110	4

4.3. Dimensions SMS 3008

Note:

Dimensions in mm



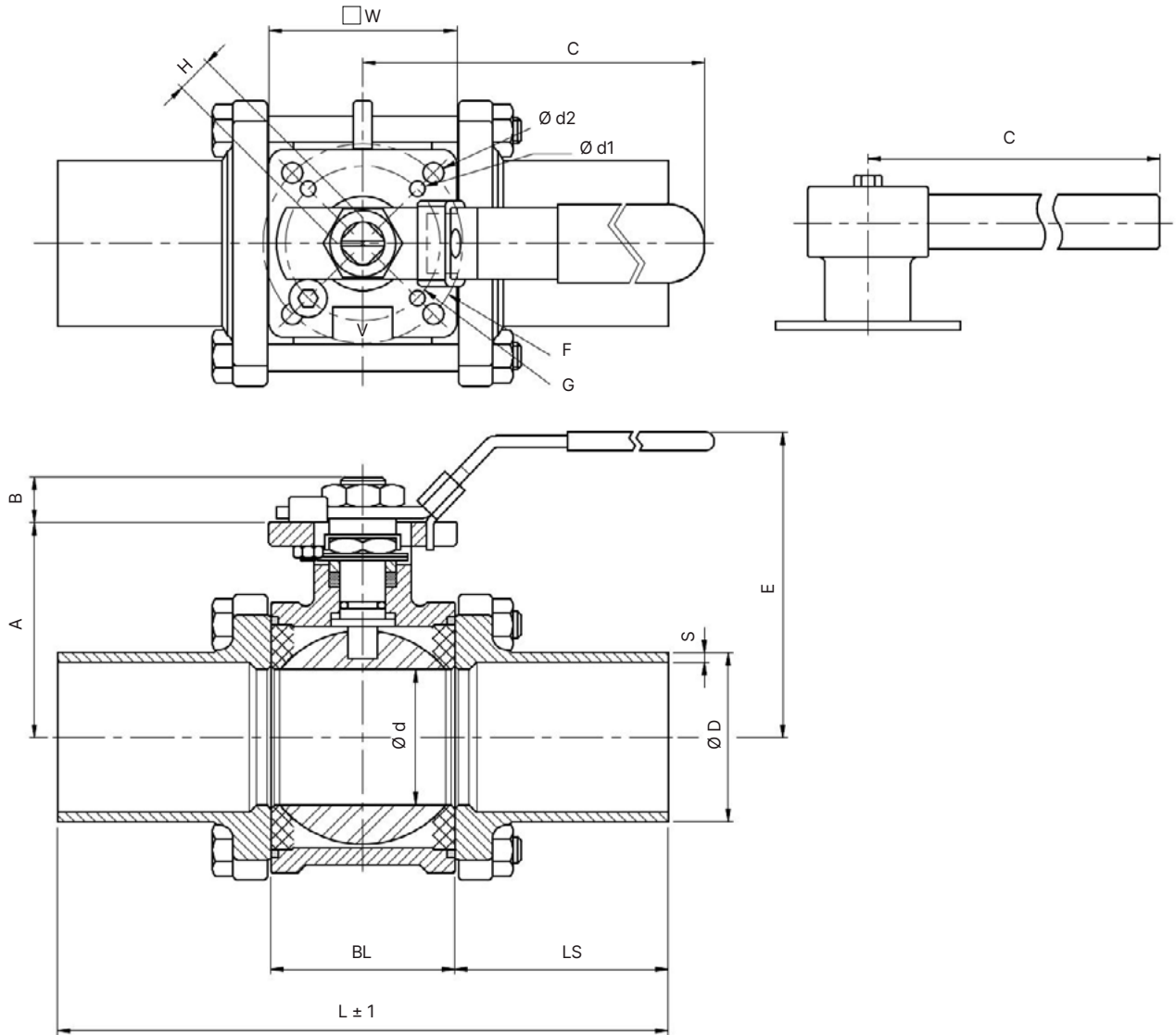
Nominal diameter [mm]	A	K	B	C	D	F	t	d1	d2	d3	d4	H	M
15	88.9	19	38	9.5	9.6	13	1.5	42	36	6.0	6.0	9	135
20	101.6	28	38	9.5	15.8	18	1.0	42	36	6.0	6.0	9	135
25	114.3	27.5	48	14	22.1	25	1.2	50	42	7.0	6.0	11	155
40	139.8	31	60	18	34.8	38	1.2	70	50	9.2	7.0	14	205
50	158.9	31	69	18	47.5	51	1.2	70	50	9.2	7.0	14	205
65	171.5	30	89	20	60.2	63.5	1.65	102	70	11.3	9.0	17	300
80	196.3	30	98	20	72.9	76.2	1.65	102	70	11.3	9.0	17	300
100	241.3	32	130	26	97.3	101.6	2.1	125	102	13.5	11.3	22	350

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4.4. Dimensions ISO 1127 / 4200

Note:

Dimensions in mm



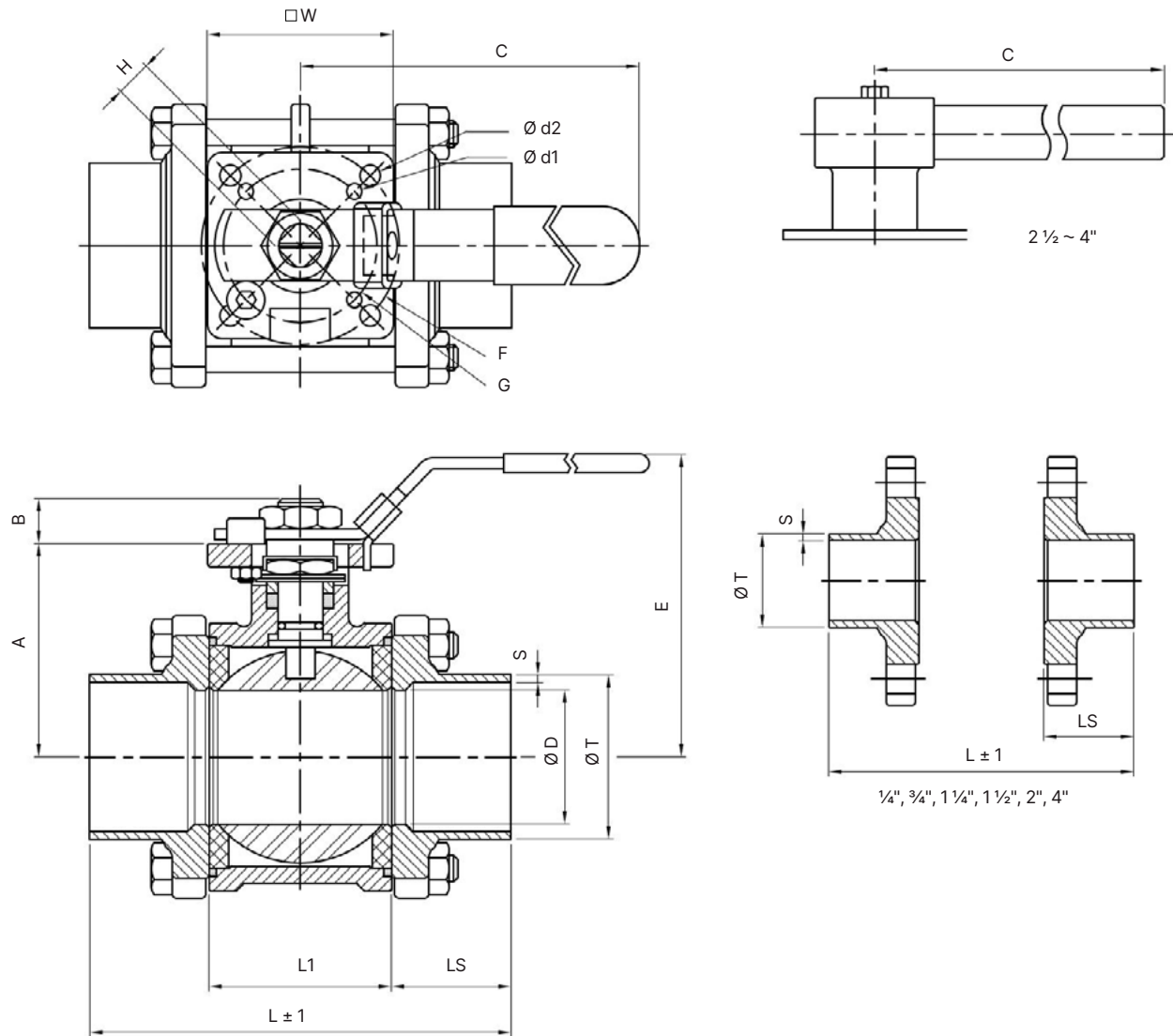
Nominal diameter [mm]	A	B	C	d	d1	d2	E	F	G	H	BL	LS	L	V	W	S	D
6	37	9	130	6.9	6.0	6.0	58	36	42	9	24.3	47.9	120.1	19	44	1.6	13.5
8	37	9	130	11	6.0	6.0	58	36	42	9	24.3	47.9	120.1	19	44	1.6	13.5
10	37	9	130	12.5	6.0	6.0	58	36	42	9	24.3	47.9	120.1	19	44	1.6	17.2
15	37	9	130	15	6.0	6.0	58	36	42	9	24.3	57.9	140.1	19	44	1.6	21.3
20	40	10	130	20	6.0	6.0	64	36	42	9	31.2	54.4	140	19	44	1.6	26.9
25	48	13	155	25	6.0	7.0	77	42	50	11	34	59	152	24	52	2.0	33.7
32	53	13	155	32	6.0	7.0	83	42	50	11	44	60.5	165	24	52	2.0	42.4
40	63	17	205	38	7.0	9.0	92	50	70	14	55	67.5	190	28	53	2.0	48.3
50	72	17	205	50	7.0	9.0	100	50	70	14	68.9	67	203	28	53	2.0	60.3
65	92	19	300	65	9.0	11.3	140	70	102	17	82	86	254	-	92	2.0	76.1
80	102	19	300	80	9.0	11.3	150	70	102	17	96	92	280	-	92	2.3	88.9
100	132	26	350	100	11.3	13.5	195	102	125	22	122	93	308	-	102	2.3	114.3

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4.5. Dimensions DIN 11850 series 2

Note:

Dimensions in mm



Nominal diameter [mm]	A	B	C	D	d1	d2	E	F	G	H	L	L1	LS	W	S	T
8	37	10	130	11	6.0	6.0	66	36	42	9	60.5	24.5	18	44	1.5	13
10	37	10	130	11	6.0	6.0	66	36	42	9	60.5	24.5	18	44	1.5	13
15	40	10	130	15	6.0	6.0	66	36	42	9	63.5	24.5	19.5	44	1.5	19
20	48	10	130	20	6.0	6.0	69	36	42	9	75.5	31.5	22	44	1.5	23
25	53	13	155	25	6.0	7.0	77	42	50	11	86	34	26	52	1.5	29
32	63	13	155	32	6.0	7.0	82	42	50	11	103.5	44.1	29.7	52	1.5	35
40	72	17	205	38	7.0	9.0	103	50	70	14	116.5	55.1	30.7	53	1.5	41
50	92	17	205	50	7.0	9.0	112	50	70	14	138	69	34.5	53	1.5	53
65	102	19	300	65	9.0	11.3	147	70	102	17	170	82	44	92	2	70
80	102	19	300	80	9.0	11.3	157	70	102	17	192	96	48	92	2	85
100	132	26	350	100	11.3	13.5	195	102	125	22	226	122	52	102	2	104

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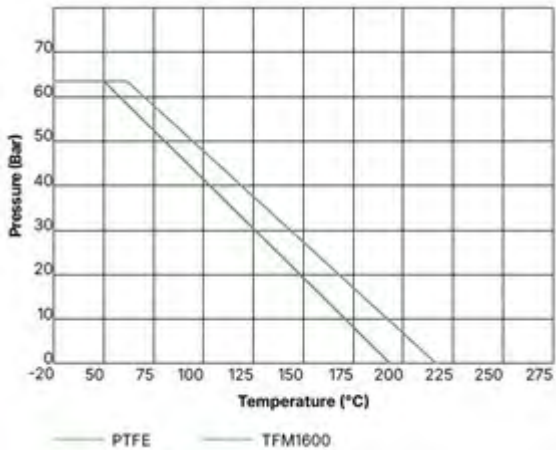
5. Performance specifications

5.1. Pressure temperature diagram ASME BPE and DIN 32676 series A

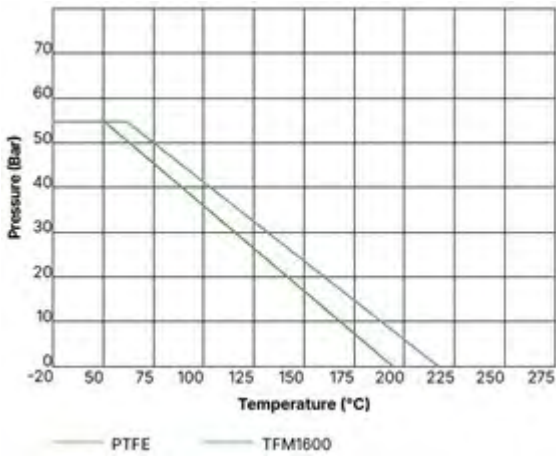
Note:

For general industrial use

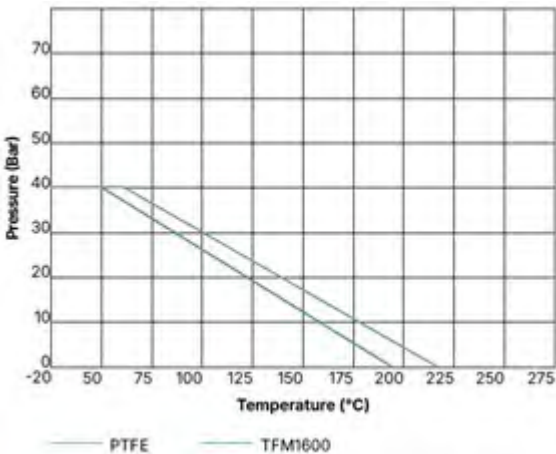
DN 15...DN 25



DN 40...DN 50



DN 65...DN 100



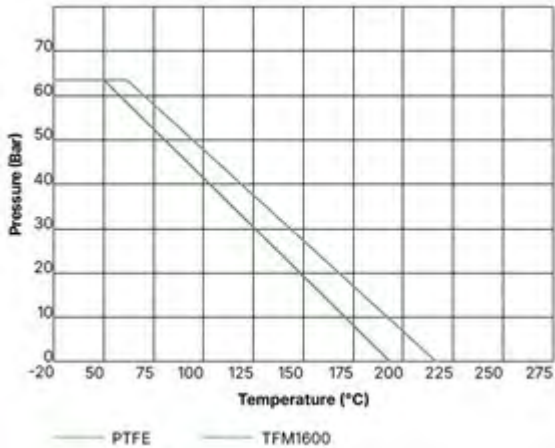
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5.2. Pressure temperature diagram ISO 1127 / 4200 and DIN 11850 series 2

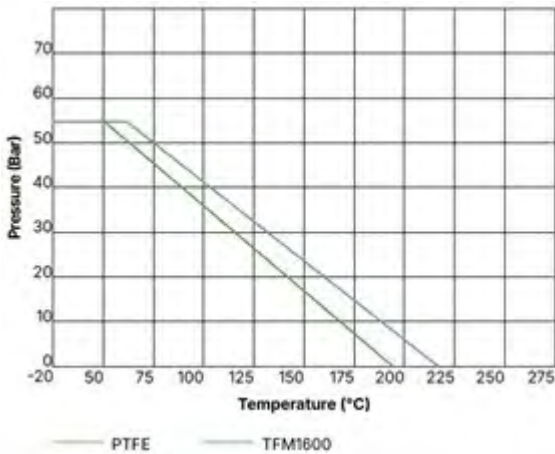
Note:

For general industrial use

DN 6...DN 50



DN 65...DN 100



5.3. Torques

Note:

We recommend that a safety factor the equivalent of 1.3 times the maximal torque is applied when selecting an actuator.

Break torques for valves with cavity-filled and non-cavity-filled seats												
Nominal diameter [mm]	6	8	10	15	20	25	32	40	50	65	80	100
Torque [Nm]	6	6	6	7	10	13	18.5	33	42	81	105	120

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6. Product accessories

Whilst all product accessories are available individually, these can be combined with other ball valves and accessories to offer fully assembled ball valve systems. For further information please see chapter [“7. Networking and combination with other Bürkert products” on page 18](#), or to request a specific combination please contact your local Bürkert office.

6.1. Soft parts sets

Note:

Further ordering information can be found in chapter [“8.10. Ordering chart soft parts set ASME BPE and SMS 3008” on page 23](#).

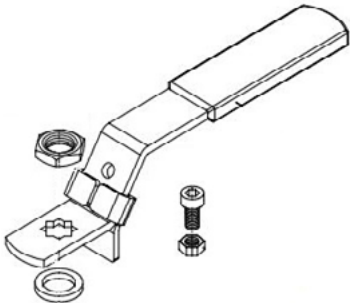
Description	Material	Quantity	
	Seat material PTFE		
	Ball seat	PTFE	2
	Seat bush ¹⁾	PTFE	2
	Gasket	PTFE	2
	Stem packing	TFM1600	1 (set)
	Thrust washer	TFM1600	1
	Stem O-ring	FKM (FDA)	1
	Seat material TFM1600		
	Ball seat	TFM1600	2
	Seat bush ¹⁾	TFM1600	2
	Gasket	TFM1600	2
	Stem packing	TFM1600	1 (set)
	Thrust washer	TFM1600	1
	Stem O-ring	FKM (FDA)	1

1.) Seat bush only for DN 65...DN 150 non-filed seats

6.2. Handle sets

Note:

Further ordering information can be found in chapter [“8.13. Ordering chart handle sets” on page 24](#).

Description	Material	
	DN 8...DN 50	
	Space washer	SS 304
	Stop pin	SS 304
	Stop pin nut	SS 304
	Lever	SS 304
	Lever nut	SS 304
	DN 65...DN 100	
	Space washer	SS 304
	Stop pin	SS 304
	Stop pin nut	SS 304
	Stop plate	SS 304
	Pipe lever	Steel
	Pipe lever cap	CF8
	Lever cap set bolt	SS 304
	Pipe sleeve	Plastic

6.3. Spring return handle for direct mounting ball valve

Note:

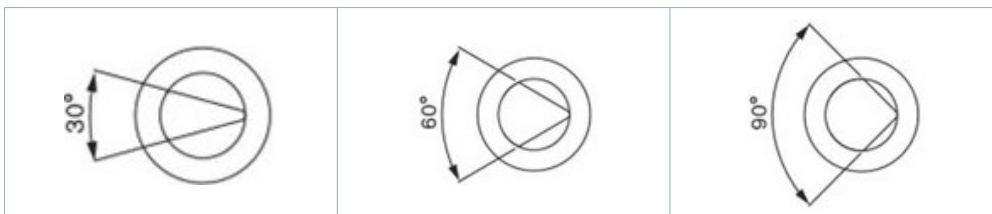
- Spring handle heavy duty design for long term operation. Designed to mount directly to an ISO 5211 mounting flange.
- Further ordering information can be found in chapter [“8.14. Ordering chart spring return handle” on page 24.](#)

Description	Item	Part name	Materials
	1	Handle head	CF8
	2	Anchor	CF8
	3	Anchor screw	SS 304
	4	Spring rod	SS 304
	5	Spring	Spring steel
	6	Handle extension	SS 304
	7	Handle sleeve	PVC
	8	Washer	SS 304
	9	Nut	SS 304

6.4. V-ball for modulation control

Note:

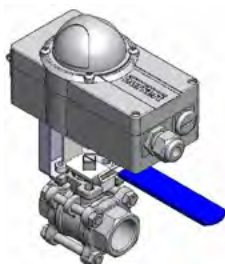
- Available in 30°, 60° and 90°
- Further ordering information can be found in chapter [“8.15. Ordering chart V-balls for modulation control ASME BPE, DIN 32676 series A and SMS 3008” on page 24.](#)



6.5. Mounting bracket for limit switch box

Note:

- Suitable for valve sizes DN 15...DN 100, the brackets are designed to mount to the ISO 5211 flange. The bracket includes an integrated handle with locking function.
- Further ordering information can be found in chapter [“8.13. Ordering chart handle sets” on page 24.](#)



6.6. Extended bonnet 75 mm

Note:

- The extended bonnet is designed to raise the hand lever / actuator from the ISO flange for thermal insulation or create space when insulation jacket / material is installed. There is no sealing function to protect against leakage from the stem. Bonnets with sealing function can be found in chapter "6.7. Fugitive emission bonnet" on page 16.
- Further ordering information can be found in chapter "8.18. Ordering chart extended bonnet 75 mm" on page 25.



6.7. Fugitive emission bonnet

Note:

- Designed to keep fugitive emissions from leaking through the stem assembly, the test port allows the sniffer to detect any fine emissions from the bonnet.
- ISO direct mount flanges on both ends of the bonnet allow for easy installation and mounting of hand lever / actuator.
- The bonnet can also be used as a normal stem extension.
- Further ordering information can be found in chapter "8.19. Ordering chart fugitive emission bonnet" on page 26.



6.8. Mounting bracket for actuation

Note:

- Various dimensions for different valve & actuator combinations.
- ISO 5211 mounting dimensions.
- Further ordering information can be found in chapter "8.20. Ordering chart mounting bracket for actuation" on page 26.



6.9. Stem coupler for mounting bracket

Note:

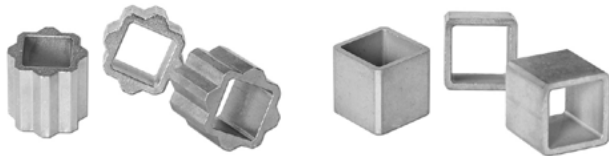
- SS 304 adaptor allows the stem to be extended to couple with the actuator when a mounting bracket is used.
- Various sizes for combination with mounting brackets.
- Further ordering information can be found in chapter ["8.21. Ordering chart stem coupler for mounting bracket" on page 26.](#)



6.10. Stem sleeve

Note:

- When the drive of the actuator is larger than the size of the stem, the stem sleeve can be used to adapt the stem dimensions to fit the actuator drive.
- Available in single square (SSQ) and double square (DSQ) versions in SS 304.
- Further ordering information can be found in chapter ["8.22. Ordering chart stem sleeves" on page 27.](#)



7. Networking and combination with other Bürkert products







Note:









The direct mounting version ball valve can be connected via the mechanical interface (according to ISO 5211) with pneumatic (e.g. Type 2051, Type 2052, Type 2053) and electrical rotary actuators (e.g. Type 3003, Type 3004, Type 3005).

Example:



Type 2654 ▶

Type 8804 Electrical rotary actuation			Type 8805 Pneumatic actuation		
					
Type 3003 ▶ Electrical actuator On/Off & Control	Type 3004 ▶ Explosion proof actuator	Type 3005 ▶ Electrical actuator On/Off & control	Type 2051 ▶ Pneumatic rotary actuator	Type 2052 ▶ Pneumatic rotary actuator	Type 2053 ▶ ELEMENT ready pneumatic actuator

Digital electropneumatic positioner		Position feedback	Pilot valve	ELEMENT Process automation			
							
Type 8791 ▶ Type 8792 ▶ SideControl Namur	Type 8635 ▶ SideControl Namur ATEX	Type 1061 ▶ Position feedback unit for pneumatic rotary actuators	Type 6519 ▶ Servo-assisted 3/2, 5/2 or 5/3-way solenoid valve	Type 8691 ▶ Control head	Type 8692 ▶ Positioner	Type 8693 ▶ Controller	Type 8694 ▶ Positioner

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8. Ordering information

8.1. 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.

8.2. 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.

8.3. Ordering chart ASME BPE tube weld

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
8	1/4"	93953170	93953168	93950866	93950864
10	3/8"	93953171	93953169	93950867	93950865
15	1/2"	93954288	93952796	93952868	93952844
20	3/4"	93954289	93952797	93952869	93952845
25	1"	93954290	93952798	93952870	93952846
40	1 1/2"	93954291	93952799	93952871	93952847
50	2"	93954292	93952800	93952872	93952848
65	2 1/2"	93954293	93952801	93952873	93952849
80	3"	93954294	93952802	93952874	93952850
100	4"	93954295	93952803	93952875	93952851
150	6"	93950868	93954302	93950870	93950869

8.4. Ordering chart ASME BPE extended tube weld

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
15	1/2"	93954160	93952804	93952876	93952852
20	3/4"	93954161	93952805	93952877	93952853
25	1"	93954162	93952806	93952878	93952854
40	1 1/2"	93954163	93952807	93952879	93952855
50	2"	93954164	93952808	93952880	93952856
65	2 1/2"	93954165	93952809	93952881	93952857
80	3"	93954166	93952810	93952882	93952858
100	4"	93954167	93952811	93952883	93952859

8.5. Ordering chart ASME BPE clamp ferrule

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
15	1/2"	93954216	93952788	93952836	93952836
20	3/4"	93954217	93952789	93952837	93952837
25	1"	93954218	93952790	93952838	93952838
40	1 1/2"	93954219	93952791	93952839	93952839
50	2"	93954220	93952792	93952840	93952840
65	2 1/2"	93954221	93952793	93952841	93952841
80	3"	93954222	93952794	93952842	93952842
100	4"	93954223	93952795	93952843	93952843

8.6. Ordering chart DIN 32676 series A clamp ferrule

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
15	1/2"	93954264	93950054	93954272	93954152
20	3/4"	93954265	93950055	93954273	93954153
25	1"	93954266	93950056	93954274	93954154
40	1 1/2"	93954267	93950057	93954275	93954155
50	2"	93954268	93950058	93954276	93954156
65	2 1/2"	93954269	93950059	93954277	93954157
80	3"	93954270	93950060	93954278	93954158
100	4"	93954271	93950061	93954279	93954159

8.7. Ordering chart SMS 3008 tube weld

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
15 ¹⁾	1/2"	93950197	93950205	93950213	93950221
20	3/4"	93950198	93950206	93950214	93950222
25	1"	93950199	93950207	93950215	93950223
40	1 1/2"	93950200	93950208	93950216	93950224
50	2"	93950201	93950209	93950217	93950225
65	2 1/2"	93950202	93950210	93950218	93950226
80	3"	93950203	93950211	93950219	93950227
100	4"	93950204	93950212	93950220	93950228

1.) Customized design

8.8. Ordering chart ISO 1127 / 4200 tube weld

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
6	1/8"	93950651	93950663	93950675	93950687
8	1/4"	93950652	93950664	93950676	93950688
10	3/8"	93950653	93950665	93950677	93950689
15	1/2"	93950654	93950666	93950678	93950690
20	3/4"	93950655	93950667	93950679	93950691
25	1"	93950656	93950668	93950680	93950692
32	1 1/4"	93950657	93950669	93950681	93950693
40	1 1/2"	93950658	93950670	93950682	93950694
50	2"	93950659	93950671	93950683	93950695
65	2 1/2"	93950660	93950672	93950684	93950696
80	3"	93950661	93950673	93950685	93950697
100	4"	93950662	93950674	93950686	93950698

8.9. Ordering chart DIN 11850 series 2 tube weld

Note:

Stainless steel CF8M with lockable hand lever

Nominal diameter		Article no.			
[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
8	¼"	93956381	93953657	93953446	93953667
15	½"	93956382	93953658	93953447	93953668
20	¾"	93956383	93953659	93953448	93953669
25	1"	93956384	93953660	93953449	93953670
32	1¼"	93956385	93953661	93953450	93953671
40	1½"	93956386	93953662	93953451	93953672
50	2"	93956387	93953663	93953452	93953673
65	2½"	93956388	93953664	93953453	93953674
80	3"	93956389	93953665	93953454	93953675
100	4"	93956390	93953666	93953455	93953676

Further versions on request

	<p>Version</p> <p>Actuated valve assemblies</p> <ul style="list-style-type: none"> • pneumatic actuated valves • electrically actuated valves 		<p>Port connection</p> <p>Special combination port connections</p> <ul style="list-style-type: none"> • example BW x Clamp
--	--	--	--

8.10. Ordering chart soft parts set ASME BPE and SMS 3008

Note:

Further information can be found in chapter "6.1. Soft parts sets" on page 14.

Description	Nominal diameter		Article no.			
	[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
	15	1/2"	93920101	93920093	93920493	93920485
	20	3/4"	93920102	93920094	93920494	93920486
	25	1"	93920103	93920095	93920495	93920487
	40	1 1/2"	93920104	93920096	93920496	93920488
	50	2"	93920105	93920097	93920497	93920489
	65	2 1/2"	93920106	93920098	93920498	93920490
	80	3"	93920107	93920099	93920499	93920491
	100	4"	93920108	93920100	93920500	93920492

8.11. Ordering chart soft parts set DIN 32676 series A

Note:

Further information can be found in chapter "6.1. Soft parts sets" on page 14.

Description	Nominal diameter		Article no.			
	[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
	15	1/2"	93920102	93920094	93920494	93920486
	20	3/4"	93920103	93920095	93920495	93920487
	25	1"	93920103	93920095	93920495	93920487
	40	1 1/2"	93920104	93920096	93920496	93920488
	50	2"	93920105	93920097	93920497	93920489
	65	2 1/2"	93920106	93920098	93920498	93920490
	80	3"	93920107	93920099	93920499	93920491
	100	4"	93920108	93920100	93920500	93920492

8.12. Ordering chart soft parts set ISO 1127 / 4200 and DIN 11850 series 2

Note:

Further information can be found in chapter "6.1. Soft parts sets" on page 14.

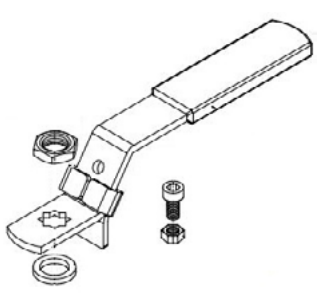













Description	Nominal diameter		Article no.			
	[mm]	[inch]	PTFE	PTFE cavity-filled	TFM1600	TFM1600 cavity-filled
	6	1/8"	93920117	93922350	93920128	93922362
	8	1/4"	93920117	93922351	93920128	93922363
	10	3/8"	93920118	93922352	93920129	93922364
	15	1/2"	93920119	93922353	93920130	93922365
	20	3/4"	93920120	93922354	93920131	93922366
	25	1"	93920121	93922355	93920132	93922367
	32	1 1/4"	93920122	93922356	93920133	93922368
	40	1 1/2"	93920123	93922357	93920134	93922369
	50	2"	93920124	93922358	93920135	93922370
	65	2 1/2"	93920125	93922359	93920136	93922371
	80	3"	93920126	93922360	93920137	93922372
	100	4"	93920127	93922361	93920138	93922373

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8.13. Ordering chart handle sets

Note:

Further information can be found in chapter "6.2. Handle sets" on page 14.






Description	Nominal diameter		Article no.
	[mm]	[inch]	
	6	1/8"	93922129 
	8	1/4"	93922129 
	10	3/8"	93922130 
	15	1/2"	93922131 
	20	3/4"	93922132 
	25	1"	93922133 
	32	1 1/4"	93922134 
	40	1 1/2"	93922135 
	50	2"	93922136 
	65	2 1/2"	93922137 
	80	3"	93922138 
	100	4"	93922139 
	150	6"	93922139 

1.) For DIN 32676 series A 3/4" use 1" handle set

8.14. Ordering chart spring return handle

Note:










Further information can be found in chapter "6.3. Spring return handle for direct mounting ball valve" on page 15.

Description	Size	Torque	Stem	ISO flange	Article no.
		[Nm]	[mm □]	[5211]	
	10	15	09	F03 / F04	93921519 
	20	20	11	F04 / F05	93921520 
	30	30	14	F05 / F07	93921521 
	40	100	17/22	F10 / F12	93921522 

8.15. Ordering chart V-balls for modulation control ASME BPE, DIN 32676 series A and SMS 3008

Note:


- Further information can be found in chapter "6.4. V-ball for modulation control" on page 15.
- 30° and 90° on request

Description	Nominal diameter	Article no.
	[mm]	
	15	93921016 
	20	93921017 
	25	93921018 
	40	93921019 
	50	93921020 
	65	93921021 
	80	93921022 
	100	93921023 

8.16. Ordering chart V-balls for modulation control ISO 1127 / 4200 and DIN 11850

Note:

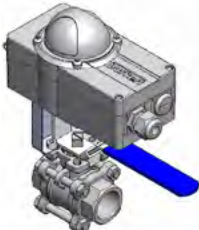
Further information can be found in chapter "6.4. V-ball for modulation control" on page 15.

Description	Nominal diameter [mm]	Article no.		
		V-30°	V-60°	V-90°
	6	93920399	93920416	93920431
	8	93920399	93920416	93920431
	10	93920400	93920417	93920432
	15	93920401	93920418	93920433
	20	93920402	93920419	93920434
	25	93920406	93920421	93920436
	32	93920409	93920424	93920439
	40	93920410	93920425	93920440
	50	93920411	93920426	93920441
	65	93920412	93920427	93920442
	80	93920413	93920428	93920443
	100	93920414	93920429	93920444
	150	93920414	93920429	93920444

8.17. Ordering chart mounting bracket for limit switch box

Note:


Further information can be found in chapter "6.5. Mounting bracket for limit switch box" on page 15.

Description	Size	Stem	ISO flange	Article no.
		[mm □]	[5211]	
	01	09	F04	93920873
	02	11	F05	93920874
	03	14	F05 / F07	93920875
	04	17	F07 / F10	93920876
	05	22	F10 / F12	93920877

8.18. Ordering chart extended bonnet 75 mm

Note:







Further information can be found in chapter "6.6. Extended bonnet 75 mm" on page 16.

Description	Size	Stem	ISO flange	ISO flange	Article no.
		[mm □]	[valve side]	[actuator side]	
	01	09	F04	F03 / F04	93921805
	02	11	F05	F04 / F05	93921806
	03	14	F07	F05 / F07	93921807
	04	17	F10	F07 / F10	93921808
	05	22	F12	F10 / F12	93921809

8.19. Ordering chart fugitive emission bonnet

Note:

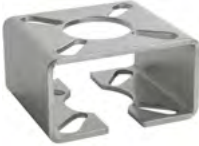




Further information can be found in chapter "6.7. Fugitive emission bonnet" on page 16.

Description	Size	Stem	ISO flange	ISO flange	Article no.
		[mm □]	[valve side]	[actuator side]	
	01	09	F04	F03 / F04	93920709 
	02	11	F05	F04 / F05	93920710 
	03	14	F07	F05 / F07	93920711 
	04	17	F10	F07 / F10	93920712 
	05	22	F12	F10 / F12	93920713 

8.20. Ordering chart mounting bracket for actuation

Note:



















Further information can be found in chapter "6.8. Mounting bracket for actuation" on page 16.

Description	Size	ISO flange	ISO flange	Height	Article no.
		[valve side]	[actuator side]	[mm]	
	01	F03 / F04 / F05	F03 / F04 / F05	70	93920557 
	02	F04 / F05 / F07	F04 / F05 / F07	70	93920558 
	03	F04 / F05 / F07	F04 / F05 / F07	40	93920990 
	04	F07 / F10 / F12	F07 / F10 / F12	70	93920559 

8.21. Ordering chart stem coupler for mounting bracket

Note:

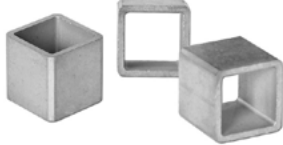















Further information can be found in chapter "6.9. Stem coupler for mounting bracket" on page 17.

Description	Shaft size	Drive size	Height	For bracket height	Article no.
	[mm □]	[mm □]	[mm]	[mm]	
	9	9	48	40	93920973 
	9	11	50	40	93920974 
	11	11	50	40	93920975 
	9	14	55	40	93920976 
	11	14	55	40	93920977 
	14	14	55	40	93920978 
	9	17	88	70	93920979 
	11	17	88	70	93920980 
	14	17	88	70	93920981 
	17	17	58	40	93920982 
	17	17	88	70	93920983 
	14	22	93	70	93920984 
	17	22	93	70	93920985 
	17	27	98	70	93920986 
	22	22	93	70	93920987 
	22	27	98	70	93920988 
22	36	107	70	93920989 	

8.22. Ordering chart stem sleeves

Note:

Further information can be found in chapter "6.10. Stem sleeve" on page 17.

Description	Inside	Outside	Article no.
	[mm □]	[mm □]	
Single square (SSQ) version			
	9	11	666575 
	9	14	93921485 
	11	14	665291 
	11	17	665369 
	14	17	665290 
	17	22	672306 
	17	27	774193 
	22	27	678023 
	27	36	93913966 
Double square (DSQ) version			
	9	14	665288 
	11	14	665289 
	11	22	773344 
	14	17	773348 
	14	22	666684 
	17	22	666685 