

Hygienic butterfly valves VZFB

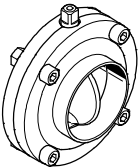
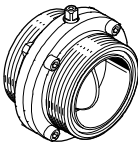
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Hygienic butterfly valves VZFB

Product range overview

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Version	Type	Based on standard	Nominal width DN	Process valve nominal pressure PN	→ Page
With clamp CC					
	VZFB-A	ASME BPE	1	10	4
			1½		
			2		
			2½		
			3		
			4		
With welded end WW					
	VZFB-D	DIN 11851	DN25	10	4
			DN40		
			DN50		
			DN65		
			DN80		
			DN100		
With thread TT					
	VZFB-SZ	SMS 1145	1	10	4
			1½		
			2		
			2½		
			3		
			4		

Hygienic butterfly valves VZFB

Type codes

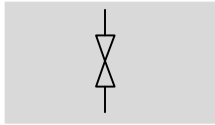
		VZFB	-	A	-	1	-	C	C	-	V4	V4	E
Type													
VZFB	Hygienic butterfly valves												
Based on standard													
A	ASME												
D	DIN 11851												
SZ	SMS												
Size													
1	1												
1½	1½												
2	2												
2½	2½												
3	3												
4	4												
25	DN25												
40	DN40												
50	DN50												
65	DN65												
80	DN80												
100	DN100												
Connection type 1													
C	Clamp												
W	Welded end												
T	Thread												
Connection type 2													
C	Clamp												
W	Welded end												
T	Thread												
Body													
V4	Stainless steel 1.4404												
V2	Stainless steel 1.4301												
Connecting component													
V4	Stainless steel 1.4404												
V2	Stainless steel 1.4301												
Seals													
E	EPDM												
V	FPM												

Hygienic butterfly valves VZFB

Technical data

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Function

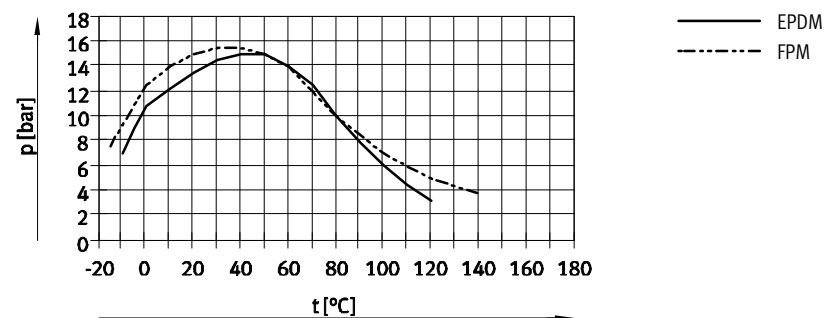


General Technical data	
Design	2-way hygienic butterfly valve
Sealing principle	Soft
Actuation type	Manual
Mounting position	Any
Type of mounting	In-line installation
Direction of flow	Reversible

Operating and environmental conditions		
Nominal pressure PN		10
Medium		Water
		Neutral fluids
Temperature of medium ¹⁾		
VZFB-...-...-...-E	[°C]	−10 ... 120
VZFB-...-...-...-V	[°C]	−15 ... 140
Corrosion resistance		
VZFB-...-...-...-V2V2	CRC ²⁾	3
VZFB-...-...-...-V4V4	CRC ³⁾	4

- 1) The pressure diagram must be observed. The permissible temperature is dependent on the pressure range.
- 2) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.
- 3) Corrosion resistance class 4 to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Permissible operating pressure p as a function of the temperature of the medium t



Materials	Information on materials	Material number
Housing, washer, shaft		
VZFB-...-...-...-V2V2	High-alloy stainless steel	1.4301
VZFB-...-...-...-V4V4		1.4404
Note on materials	Free of copper and PTFE, RoHS-compliant, contains PWIS (paint-wetting impairment substances)	

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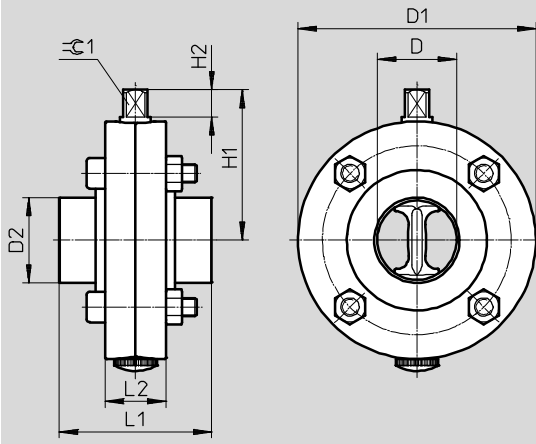
Technical data

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Dimensions with welded end

Download CAD Data → www.festo.com/us/cad

VZFB-...-...-WW-...



Type	D Ø	D1 Ø	D2 Ø	H1 ±0.5	H2 ±0.5	L1 ±1	L2	$\varnothing 1$
VZFB-A-1-WW-...	22.4	78	25.4	49.4	9	50	20	8
VZFB-A-1½-WW-...	35.1	86	38.1	53.3	9	50	20	8
VZFB-A-2-WW-...	47.8	102	50.8	62.5	10	52	22	10
VZFB-A-2½-WW-...	59.5	115	63.5	69	10	56	22	10
VZFB-A-3-WW-...	72.2	128	76.2	75.5	10	56	22	10
VZFB-A-4-WW-...	97.6	154	101.6	90.3	11	64	22	11
VZFB-D-25-WW-...	26	78	28	49	9	50	20	8
VZFB-D-40-WW-...	38	90	40	55.6	9	50	20	8
VZFB-D-50-WW-...	50	106	52	64.3	10	52	22	10
VZFB-D-65-WW-...	66	124	70	73.7	10	56	22	10
VZFB-D-80-WW-...	81	139	85	81.6	11	60	22	11
VZFB-D-100-WW-...	100	159	104	91.8	11	64	22	11

Hygienic butterfly valves VZFB

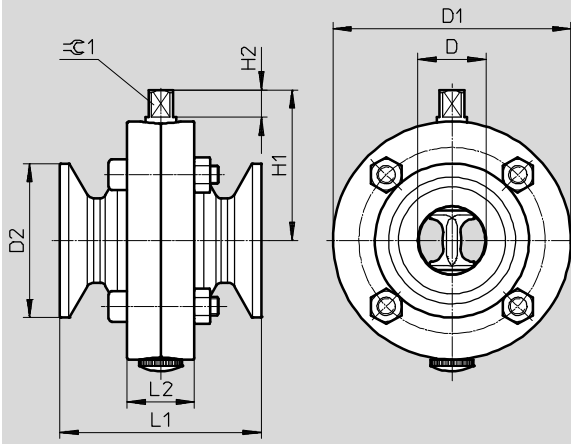
Technical data

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Dimensions with clamp

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VZFB-A-...-...-CC-...



Type	D Ø	D1 Ø	D2 Ø	H1 ±0.5	H2 ±0.5	L1 ±1	L2	☞1
VZFB-A-1-CC-...	22.4	78	50.5	49.4	9	66	20	8
VZFB-A-1½-CC-...	35.1	86	50.5	53.3	9	70	20	8
VZFB-A-2-CC-...	47.8	102	64	62.5	10	76	22	10
VZFB-A-2½-CC-...	59.5	115	77.5	69	10	80	22	10
VZFB-A-3-CC-...	72.2	128	91	75.5	10	84	22	10
VZFB-A-4-CC-...	97.6	154	119	90.3	11	104	22	11

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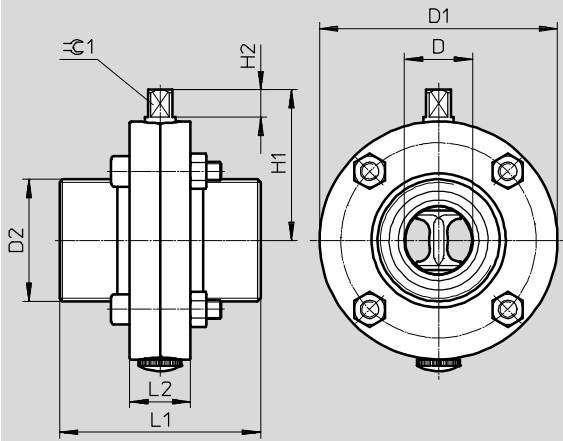
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Dimensions with thread

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VZFB-SZ-...-...-TT-...

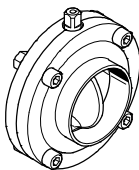


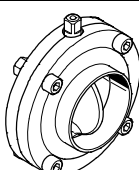
Type	D Ø	D1 Ø	D2 Ø	H1 ±0.5	H2 ±0.5	L1 ±1	L2	⌀1
VZFB-SZ-1-...	22.4	78	Rd 40x1/6	49.4	9	66	20	8
VZFB-SZ-1½-...	35.1	86	Rd 60x1/6	53.3	9	70	20	8
VZFB-SZ-2-...	47.8	102	Rd 70x1/6	62.5	10	76	22	10
VZFB-SZ-2½-...	59.5	115	Rd 85x1/6	69	10	80	22	10
VZFB-SZ-3-...	72.2	128	Rd 98x1/6	75.5	10	84	22	10
VZFB-SZ-4-...	97.6	154	Rd 125x1/4	90.3	11	104	22	11

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Technical data

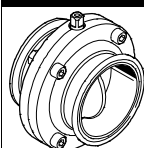
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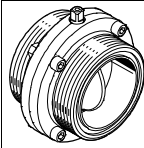
Ordering data – with welded ends						
	Process valve connection	Nominal width	Actuation moment	Weight [g]	Part No.	Type
	Weld-on ends	1	8	1 000	2462175	VZFB-A-1"-WW-V2V2E
					2464012	VZFB-A-1"-WW-V2V2V
					2461976	VZFB-A-1"-WW-V4V4E
					2462087	VZFB-A-1"-WW-V4V4V
		1½	10	1100	2462202	VZFB-A-1½"-WW-V2V2E
					2464023	VZFB-A-1½"-WW-V2V2V
					2461994	VZFB-A-1½"-WW-V4V4E
					2462096	VZFB-A-1½"-WW-V4V4V
		2	14	1 500	2462219	VZFB-A-2"-WW-V2V2E
					2464034	VZFB-A-2"-WW-V2V2V
					2462007	VZFB-A-2"-WW-V4V4E
					2462105	VZFB-A-2"-WW-V4V4V
		2½	15	1 800	2462238	VZFB-A-2½"-WW-V2V2E
					2464045	VZFB-A-2½"-WW-V2V2V
					2462020	VZFB-A-2½"-WW-V4V4E
					2462114	VZFB-A-2½"-WW-V4V4V
		3	18	2100	2462254	VZFB-A-3"-WW-V2V2E
					2464056	VZFB-A-3"-WW-V2V2V
					2462046	VZFB-A-3"-WW-V4V4E
					2462123	VZFB-A-3"-WW-V4V4V
		4	35	2 800	2462270	VZFB-A-4"-WW-V2V2E
					2464067	VZFB-A-4"-WW-V2V2V
					2462073	VZFB-A-4"-WW-V4V4E
					2462132	VZFB-A-4"-WW-V4V4V

Ordering data – with welded ends						
	Process valve connection	Nominal width	Actuation moment	Weight [g]	Part No.	Type
	Weld-on ends	25	8	900	2466705	VZFB-D-25-WW-V2V2E
					2466802	VZFB-D-25-WW-V2V2V
					2464096	VZFB-D-25-WW-V4V4E
					2464945	VZFB-D-25-WW-V4V4V
		40	10	1100	2466715	VZFB-D-40-WW-V2V2E
					2466813	VZFB-D-40-WW-V2V2V
					2464098	VZFB-D-40-WW-V4V4E
					2464962	VZFB-D-40-WW-V4V4V
		50	14	1600	2466725	VZFB-D-50-WW-V2V2E
					2466823	VZFB-D-50-WW-V2V2V
					2464100	VZFB-D-50-WW-V4V4E
					2464974	VZFB-D-50-WW-V4V4V
		65	18	2100	2466735	VZFB-D-65-WW-V2V2E
					2466834	VZFB-D-65-WW-V2V2V
					2464102	VZFB-D-65-WW-V4V4E
					2464987	VZFB-D-65-WW-V4V4V
		80	20	2500	2466745	VZFB-D-80-WW-V2V2E
					2466846	VZFB-D-80-WW-V2V2V
					2464105	VZFB-D-80-WW-V4V4E
					2464997	VZFB-D-80-WW-V4V4V
		100	35	3100	2466755	VZFB-D-100-WW-V2V2E
					2466857	VZFB-D-100-WW-V2V2V
					2464108	VZFB-D-100-WW-V4V4E
					2465010	VZFB-D-100-WW-V4V4V

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Technical data

Ordering data – with clamp						
	Process valve connection	Nominal width	Actuation moment [Nm]	Weight [g]	Part No.	Type
	Clamp	1	8	1200	2461325	VZFB-A-1"-CC-V2V2E
					2461827	VZFB-A-1"-CC-V2V2V
					2461256	VZFB-A-1"-CC-V4V4E
					2461888	VZFB-A-1"-CC-V4V4V
		1½	10	1200	2461329	VZFB-A-1½"-CC-V2V2E
					2461829	VZFB-A-1½"-CC-V2V2V
					2461271	VZFB-A-1½"-CC-V4V4E
					2461903	VZFB-A-1½"-CC-V4V4V
		2	14	1700	2461337	VZFB-A-2"-CC-V2V2E
					2461840	VZFB-A-2"-CC-V2V2V
					2461283	VZFB-A-2"-CC-V4V4E
					2461914	VZFB-A-2"-CC-V4V4V
		2½	15	2000	2461676	VZFB-A-2½"-CC-V2V2E
					2461851	VZFB-A-2½"-CC-V2V2V
					2461289	VZFB-A-2½"-CC-V4V4E
					2461935	VZFB-A-2½"-CC-V4V4V
		3	18	2400	2461815	VZFB-A-3"-CC-V2V2E
					2461866	VZFB-A-3"-CC-V2V2V
					2461296	VZFB-A-3"-CC-V4V4E
					2461946	VZFB-A-3"-CC-V4V4V
		4	35	3300	2461819	VZFB-A-4"-CC-V2V2E
					2461877	VZFB-A-4"-CC-V2V2V
					2461303	VZFB-A-4"-CC-V4V4E
					2461959	VZFB-A-4"-CC-V4V4V

Ordering data – with male thread						
	Process valve connection	Nominal width	Actuation moment	Weight [g]	Part No.	Type
	Male thread	1	8	1100	2471190	VZFB-SZ-1"-TT-V2V2E
					2472659	VZFB-SZ-1"-TT-V2V2V
					2468221	VZFB-SZ-1"-TT-V4V4E
					2468949	VZFB-SZ-1"-TT-V4V4V
		1½	10	1 500	2471203	VZFB-SZ-1½"-TT-V2V2E
					2472669	VZFB-SZ-1½"-TT-V2V2V
					2468231	VZFB-SZ-1½"-TT-V4V4E
					2468959	VZFB-SZ-1½"-TT-V4V4V
		2	14	2000	2471236	VZFB-SZ-2"-TT-V2V2E
					2472679	VZFB-SZ-2"-TT-V2V2V
					2468241	VZFB-SZ-2"-TT-V4V4E
					2468970	VZFB-SZ-2"-TT-V4V4V
		2½	15	2600	2471249	VZFB-SZ-2½"-TT-V2V2E
					2472689	VZFB-SZ-2½"-TT-V2V2V
					2468252	VZFB-SZ-2½"-TT-V4V4E
					2468980	VZFB-SZ-2½"-TT-V4V4V
		3	18	3200	2471261	VZFB-SZ-3"-TT-V2V2E
					2472699	VZFB-SZ-3"-TT-V2V2V
					2468263	VZFB-SZ-3"-TT-V4V4E
					2468990	VZFB-SZ-3"-TT-V4V4V
		4	35	4800	2471272	VZFB-SZ-4"-TT-V2V2E
					2472709	VZFB-SZ-4"-TT-V2V2V
					2468273	VZFB-SZ-4"-TT-V4V4E
					2469000	VZFB-SZ-4"-TT-V4V4V

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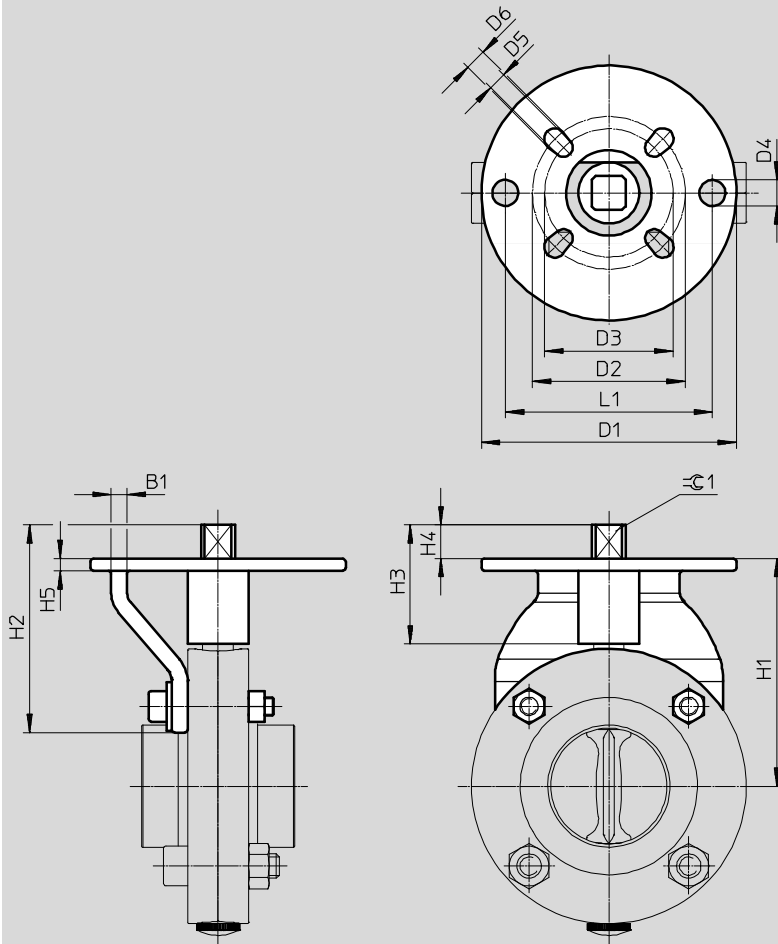
Accessories

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Dimensions

Download CAD Data → www.festo.com/us/cad

DARQ-K-...-F0405-S-...-R1



Hygienic butterfly valves VZFB

Accessories

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Type	Valve size DIN	Drive	B1	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5 Ø
DARQ-K-25-F0405-S11-S-R1	DN 25	Single	5.2	83.5	50	42	9	6
	DN 25	Double	5.2	83.5	50	42	9	6
	DN 40	Double	5.2	83.5	50	42	9	6
DARQ-K-40-F0405-S14-S-R1	DN 40	Single	5.2	83.5	50	42	9	6
DARQ-K-50-F0405-S14-S-R1	DN 50	Single	5	83.5	50	42	9	6
DARQ-K-50-F0405-S11-D-R1	DN 50	Double	5	83.5	50	42	9	6
DARQ-K-65-F0405-S14-S-R1	DN 65	Single	5	83.5	50	42	9	6
	–	Single	5	83.5	50	42	9	6
DARQ-K-65-F0405-S11-D-R1	DN 65	Double	5	83.5	50	42	9	6
	–	Double	5	83.5	50	42	9	6
DARQ-K-80-F0405-S11-D-R1	DN 80	Double	5	83.5	50	42	9	6
DARQ-K-80-F0405-S14-S-R1	DN 80	Single	5	83.5	50	42	9	6
	DN 100	Double	5	83.5	50	42	9	6
DARQ-K-100-F0405-S17-S-R1	DN 100	Single	5	83.5	50	42	9	6

Type	D6 Ø	H1 DIN	H2	H3	H4	H5	L1	≈C1
DARQ-K-25-F0405-S11-S-R1	7	68	67	39	11	4	67.8	11
	7	68	67	39	11	4	67.8	11
	7	74.6	67	39	11	4	67.8	11
DARQ-K-40-F0405-S14-S-R1	7	74.6	71	43	15	4	67.8	14
DARQ-K-50-F0405-S14-S-R1	7	82.3	80	43	15	5	67.8	14
DARQ-K-50-F0405-S11-D-R1	7	82.3	80	39	11	5	67.8	11
DARQ-K-65-F0405-S14-S-R1	7	91.7	86	43	15	5	67.8	14
	7	–	86	43	15	5	67.8	14
DARQ-K-65-F0405-S11-D-R1	7	91.7	86	39	11	5	67.8	11
	7	–	86	39	11	5	67.8	11
DARQ-K-80-F0405-S11-D-R1	7	98.6	93	39	11	5	67.8	11
DARQ-K-80-F0405-S14-S-R1	7	98.6	93	43	15	5	67.8	14
	7	108.8	93	43	15	5	67.8	14
DARQ-K-100-F0405-S17-S-R1	7	108.8	110	46	18	5	67.8	17

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Accessories

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Mounting kit DARQ

Information on materials:

Mounting, coupling:
High-alloy stainless steel

Note on materials:

Contains PWIS (paint-wetting
impairment substances),
RoHS-compliant, free of copper and
PTFE



Mounting kit	Size	Based on standard	Corrosion resistant CRC ¹⁾	Weight [g]	Part No.	Type
	M6	ISO 5211	3	400	2500146	DARQ-K-25-F0405-S11-S-R1
	M8			450	2500148	DARQ-K-40-F0405-S14-S-R1
				450	2500156	DARQ-K-50-F0405-S14-S-R1
					2500158	DARQ-K-50-F0405-S11-D-R1
					2500184	DARQ-K-65-F0405-S14-S-R1
					2500187	DARQ-K-65-F0405-S11-D-R1
				500	2500190	DARQ-K-80-F0405-S11-D-R1
					2500192	DARQ-K-80-F0405-S14-S-R1
					2500194	DARQ-K-100-F0405-S17-S-R1

1) CRC3: Corrosion resistance class to Festo standard 940 070

Components with heavy corrosion exposure. Externally visible components in direct contact with normal industrial atmosphere or media such as solvents and cleaning agents, where the surface requirement is predominantly functional.

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Accessories

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Hand lever VAOH

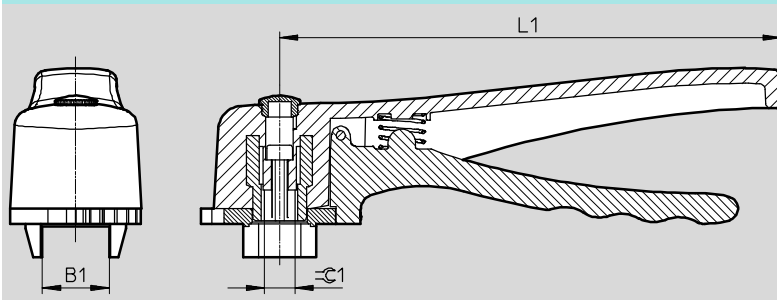
Information on materials:
High-alloy stainless steel

Note on materials:
Contains PWIS (paint-wetting
impairment substances),
RoHS-compliant, free of copper and
PTFE



Dimensions and ordering data

Download CAD Data → www.festo.com/us/cad



Hand lever	B1	L1	≈C1	Corrosion resistant CRC ¹⁾	Weight [g]	Part No.	Type
	20.2	164	8	3	300	2500270	VAOH-N3-H10
	22.2	164	10			2500273	VAOH-N5-H10
	22.2	164	11			2500198	VAOH-N6-H10

1) CRC3: Corrosion resistance class to Festo standard 940 070
Components with heavy corrosion exposure. Externally visible components in direct contact with normal industrial atmosphere or media such as solvents and cleaning agents, where the surface requirement is predominantly functional.

Product Range and Company Overview

A Complete Suite and Company Overview

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support
and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors,
controllers & drivers



Pneumatics
Pneumatic linear and rotary actuators,
valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors
and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 16,000 employees in 60 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.

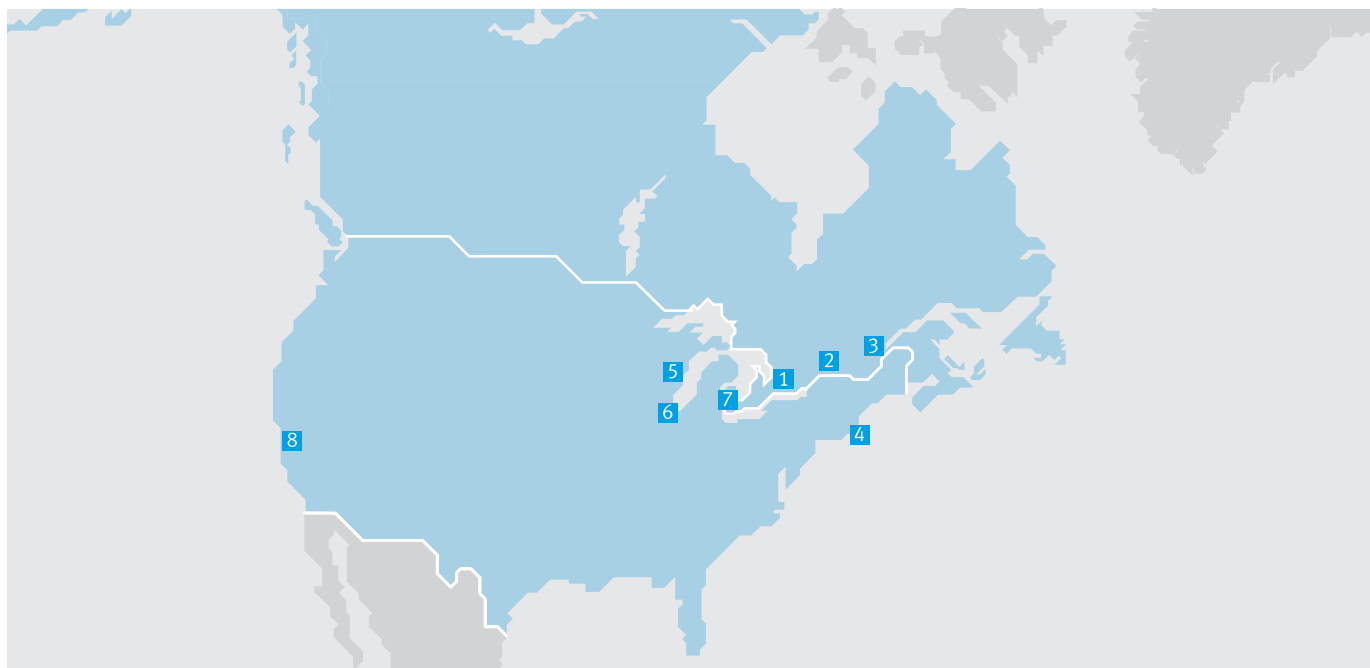


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