

**FESTO**

**Butterfly valve VZAV**

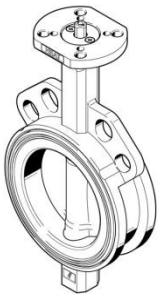


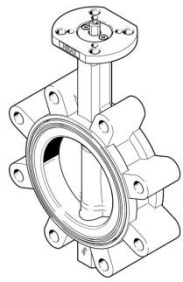
## Content

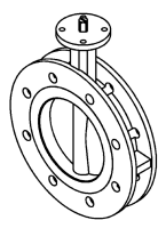
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## 1 General Information VZAV

General	Construction	Characteristics
Nominal Diameter DN25 – DN1600	Wafer Type VZAV-C	Standard butterfly valves for a wide scale of industry segments
Flow rate KV 52 – 228.500 m <sup>3</sup> /h	Lug Type VZAV-L	Blow out protection
	U Shape Type VZAV-U	Large scale of body and liner material


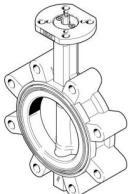
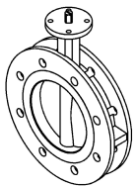
Version	Type	Nominal diameter [mm]	Rating norm
Wafer Type			
	VZAV - C	DN32 ... DN300 DN350 ... DN1000	PN6 covered by PN16 PN6
		DN25 ... DN400 DN450 ... DN1000	PN10 covered by PN16 PN10
		DN25 ... DN1000	PN16
		DN32 ... DN400 DN450 ... DN1000	ANSI cl. 150 covered by PN16 ANSI cl. 150

Version	Type	Nominal diameter [mm]	Rating norm
Lug Type			
	VZAV - L	DN32 ... DN600 DN400 ... DN600	PN6 covered by PN16 PN6
		DN25 ... DN150 DN200 ... DN600	PN10 covered by PN16 PN10
		DN25 ... DN600	PN16
		DN32 ... DN600	ANSI cl. 150


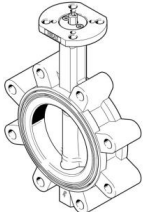
Version	Type	Nominal diameter [mm]	Rating norm
U shape type			
	VZAV - U	DN150 ... DN1400	PN6
		DN150 DN200 ... DN1600	PN10 covered by PN16 PN10
		DN150 ... DN1600	PN16

## 2 Order Information VZAV

### 2.1 Modular System

Modular No / KMAT	Type	Nominal diameter [mm]	Varieties
Individual selection by modular system, tailored for specific customer needs scale of over 700.000 varieties			
8062128		VZAV-C DN25-DN1000	All available - liner - pressures - surfaces  <b>please find more information on page 5</b>
		VZAV – L DN25-DN600	All available - liner - pressures - surfaces  <b>please find more information on page 5</b>
		VZAV - U DN150-DN1600	All available - liner - pressures - surfaces  <b>please find more information on page 5</b>

### 2.2 Part No. types

Selected part NR	Type	Nominal diameter [mm]	Varieties
220 selected part no. as fast runners			
8061951 ... 8062026		VZAV-C DN25-DN300	ISO / ANSI cl. 150 Ductile cast iron / epoxy coated Working pressure: 10bar / 16bar Liner: EPDM / NBR  <b>Detailed information on page 16</b>
8062027 ... 8062102		VZAV – L DN25-DN300	ISO / ANSI cl. 150 Ductile cast iron / epoxy coated Working pressure: 10bar / 16bar Liner: EPDM / NBR  <b>Detailed information on page 18</b>

### 3 Type code VZAV

		VZAV	-	C	-	80	-	16	-	S8	PN16	-	H2	PU70	-	V5	-	H1	CR	-	E	-	C
<b>Type</b>																							
VZAV	Butterfly valve																						
<b>Design</b>																							
C	Ring housing with centring holes (Wafer)																						
L	Ring housing with threaded flange (Lug)																						
U	U shape housing																						
<b>Nominal Diameter DN</b>																							
25	25 mm																						
32	32 mm																						
40	40 mm																						
50	50 mm																						
65	65 mm																						
80	80 mm																						
100	100 mm																						
125	125 mm																						
150	150 mm																						
200	200 mm																						
250	250 mm																						
300	300 mm																						
350	350 mm																						
400	400 mm																						
450	450 mm																						
500	500 mm																						
600	600 mm																						
700	700 mm																						
750	750 mm																						
800	800 mm																						
900	900 mm																						
1000	1000 mm																						
1100	1100 mm																						
1200	1200 mm																						
1400	1400 mm																						
1600	1600 mm																						
<b>Nominal Pressure</b>																							
2,5	2.5 bar																						
6	6 bar																						
10	10 bar																						
16	16 bar																						
<b>Connection Standard</b>																							
S8	DIN EN 1092-1																						
S9	ANSI Class 150																						
		*several Wafer ANSI sizes are covered by S8 please see page 3																					
<b>Nominal Pressure Connection Standard</b>																							
PN6	PN6																						
PN10	PN10																						
PN16	PN16																						
	Standard and just with [S9] ANSI Class 150																						

VZAV - C - 25 - 6 - S8 PN6 - H2 PU70 - V5 - H1 CR - E - C - DX5 - EX4

Housing material	
H2	Grey cast iron, EN-GJL-250
H1	Ductile cast iron, EN-GJS-400-15

Surface finish, housing	
PU70	Polyurethane coated 70 µ
EP200	Epoxy coated 200 µ
PU250	Polyurethane coated 250 µ

Shaft material	
V5	Stainless steel 1.4021
V7	Stainless steel 1.4542

Shut off element material	
H1	Ductile cast iron, EN-GJS-400-15
H5	Cast steel, GS-C25
H6	Cast steel, GS-52
H7	Cast steel, ASTM A494 CW-
H8	Aluminium bronze ASTM B 14
V3	Stainless steel 1.4408
V9	Stainless steel 1.4588

Surface finish shut off element	
	None
CR	Chrome coated
PL	Polished
PE3	Polyethelene coated 3mm
PU70	Polyurethane coated 70 µ
HL600	Halar coated 600 µ
PA250	Polyamide coated 250 µ

Seal Material	
C	CSM
E	EPDM
E3	EPDM KTW
E4	EPDM HT
E5	EPDM for abrasive media
E6	EPDM white (FDA)
E7	Epichlorhydrin (ECO)
N	NBR
N1	NBR hydrogenated
N2	NBR gas (EN 682)
N5	NBR for abrasive media
NR	NBR, white (FDA)
S	Silicone
S1	Silicone, transparent (FDA)
SBRA	SBR for abrasive media
V	FPM
V1	FPM GF for oxygen-rich fuel

PWIS content	
	None
C	PWIS-free

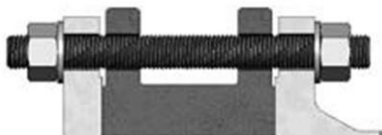
EU certification, internal	
	None
DX5	II 1G

EU Certification, external	
	None
EX4	II 2GD

## 4 Technical Data

### 4.1 General technical data

Process valve function	
Valve function	2/2 way
Design	Butterfly valve in Wafer, Lug type and U shape
Sealing principle	Soft
Actuation type	Mechanical / automated via ISO5211 interface
Manual override	None
Approved for use in food industry	Yes
Switching position display	Slot direction = disc direction
Direction of flow	Reversible
Bare shaft position	45°
Type of mounting	In line installation
Mounting position	... < DN400 any direction / > DN400 horizontal
Based on connection standard	DIN EN 1092-1 / ANSI cl. 150

Mounting instructions at the end of a pipe	
Body Type	Wafer type (C) not possible
	Lug type (L) possible without counter flange
	U shape (U) only with counter flange Example of the counter flange:
	
Body material	H1 - EN - GJS - 400 - 15
Medium	Only for liquids, 10°C ... +30°C 50F ... 86F
Max. working pressure	DN25-DN200      Wafer
	DN250-DN600      Lug DN700-DN1400      U-Shape
	No water hammer!

Operating and environmental conditions	
Nominal pressure <sup>1</sup>	PN6 PN10 PN16 ANSI cl. 150
Temperature of medium	-60°C ... 210°C / -76F ... 410F depending on : sealing material, disc material working conditions
Vacuum [mbarA]	200 (higher vacuum on request)  Conditions: Nominal diameter max.: DN300 (bigger sizes on request)  Seal material: EPDM / NBR Media: neutral media, max. 80°C Installation: please note table for mounting flanges

#### 4.2 Table for mounting flanges

DN	D min <sup>2</sup>	D opt <sup>3</sup>	D max <sup>4</sup>
32	19	34	47
40	32	42	57
50	35	53	68
65	53	68	87
80	74	83	104
100	93	103	126
125	119	128	154
150	147	153	174
200	198	202	226
250	247	253	277
300	297	303	328
350	340	345	370
400	384	395	421
450	325	453	462
500	490	505	514
600	585	605	617
700	680	696	715
800	790	810	817
900	880	900	918
1000	980	997	1019
1200	1175	1195	1225
1400	1348	1387	1430
1600	1560	1602	1640

<sup>1</sup> PN class to DIN EN1333 / ASME 16.5

<sup>2</sup> Minimum diameter of the flange enabling to move the disc (in case of a perfectly centred valve)

<sup>3</sup> Diameter of the flange for optimal mounting

<sup>4</sup> Maximum diameter of the flange



### 4.3 Liner Material

Code	Name DIN	Material	Colloquial	Temperature Range
C	CSM	Chlorosulfonated Polyethylen		-10°C ... 110°C
	Moderate resistance to oil, greases and weak acids			
E	EPDM	Ethylene-Propylene Tercopolymer		-20°C ... 95°C
	Weak mineral acids and basis, air, water, ketones and esters			
E3	EPDM	Ethylene-Propylene Tercopolymer		-20°C ... 95°C *
	With drink water approval ACS, DVGW, WRAS, NSF-61 and EN681-1 With NSF-61 approval when sued in combination with H1PA250 disc (Up to DN700 size) or with V3 disc (for all sizes available)			
E4	EPDM-HT	Ethylene-Propylene Tercopolymer		-20°C ... 130°C
	Weak minerals acids and basis, air, water, ketones and esters			
E5	EPDM	Ethylene-Propylene Tercopolymer / EPDM based		-10°C ... 95°C
	Specially designed for the resistance to water solutions with suspensions solids. Is adequate to support weak mineral acids, weak mineral bases, alcohols, ketones and esters. Alternative to the EPDM-Nordel ® is used			
E6	EPDM	Ethylene-Propylene Tercopolymer		-20°C ... 95°C
	Weak minerals acids and basis, air, water, ketones and esters, special for food applications			
E7	ECO	Epichloridrine ethylene oxide copolymere		-40°C ... 90°C
N	NBR	Acrylonitrile – butadiene copolymer		-10°C ... 100°C
	Oils, greases, fuel, gas oil, CO2, CO, H2			
NR	NBR	Acrylonitrile – butadiene copolymer		-10°C ... 100°C
	Special for food applications			
N1	NBR-H	Acrylonitrile – butadiene copolymer		-10°C ... 100°C
	Raw biogas, CO2, CO, H2S			
N2	NBR	Acrylonitrile – butadiene copolymer		-10°C ... 100°C
	natural gas with DVGW gas approval DIN EN 682			
N5	NBR	NBR based		-10°C ... 100°C
	Specially designed to resist to the highest abrasive products, still providing an excellent resistance to oils and greases. This material is the alternative where Carboxylic Nitrile was used or Flucast® AB/P, it is recommended for the most aggressive products			
S	MVQ	Poly (methyl vinyl) siloxane		-55°C ... 200°C
	Highest and lowest temperature resistance			
SRBA	SBR	SBR based		-10°C ... 70°C
	Specially designed for the resistance to chemically inert powdered products, such as: flours, cements, plasters, concrete mortars, powdered sugar, etc. This material is the alternative where natural rubber was used			
S1	MVQ	Poly (methyl vinyl) siloxane		-55°C ... 200°C
	Special for food applications			
V	FPM	Hexafluorpropylene vinylidene fluoride copolymer		-15°C ... 210°C
	Very good restistance to high temperature, light, weathering, hydraulic liquids, hydrocarbons, benzene solvent, acids, bases, oxygen			
V1	FPM	HFP-VDF-TFE-CSM Tetrapolymer		-15°C ... 210°C
	Specially designed for oxygenated gasolines			

\* NSF-61 approval valid only up to CLD conditions.

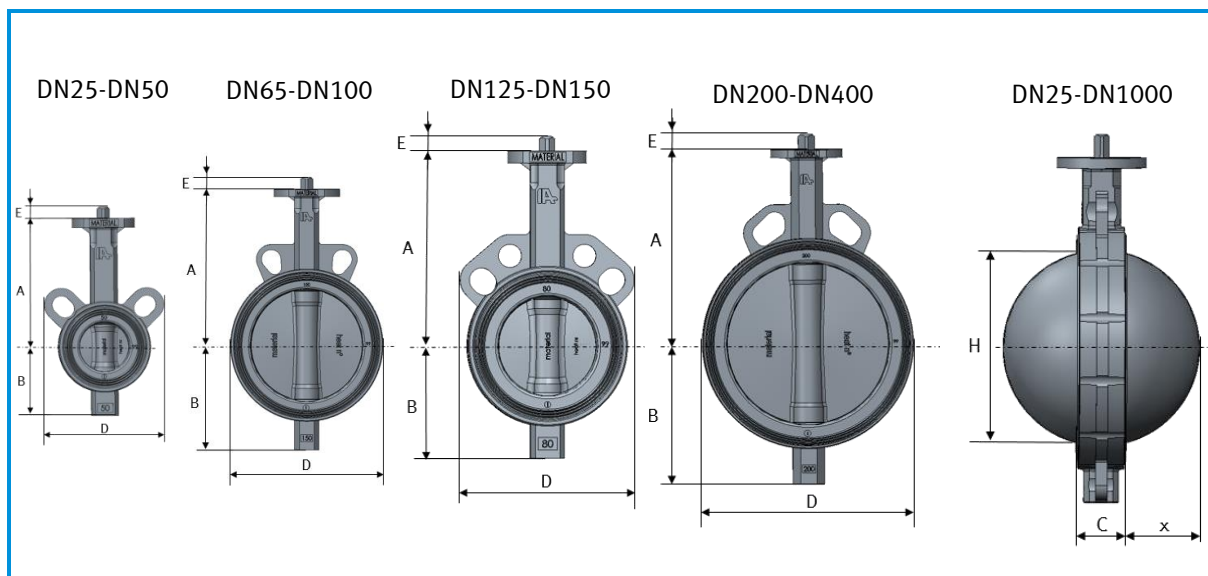
#### 4.4 Actuating torques and KV values

Standard Conditions (liquids between 20°C ... 80°C)				
Diameter	Torque at nominal pressure (incl. 1,3SF)			
	2,5 bar	6 bar	10 bar	16 bar
DN25				17
DN32				17
DN40				17
DN50				30
DN65				33
DN80			39	51
DN100	30		56	65
DN125	45		68	113
DN150	54		90	122
DN200	80		150	218
DN250	126		197	263
DN300	204		332	392
DN350	273	375	593	720
DN400	582	794	882	1103
DN450	878	1229	1470	1818
DN500	1053	1370	1478	2024
DN600	1944	2306	2770	4050
DN700	2106	2970	3861	4590
DN750	2430	3494	4320	5400
DN800	2633	3510	4533	4991
DN900	3443	4388	5603	7020
DN1000	4388	5535	7020	8505
DN1100	5670	7088	8775	10395
DN1200	7425	8910	10530	12690
DN1400	9315	13500	20536	
DN1600	12420	17955	33210	

Severe Conditions (all conditions except standard conditions see left table)				
Diameter	Torque at nominal pressure (incl. 1,75SF)			
	2,5 bar	6 bar	10 bar	16 bar
DN25				22
DN32				22
DN40				22
DN50				41
DN65				45
DN80			53	69
DN100	41		75	87
DN125	64		91	152
DN150	73		122	164
DN200	107		203	294
DN250	170		265	354
DN300	276		448	529
DN350	369	506	800	972
DN400	786	1071	1191	1488
DN450	1185	1658	1985	2455
DN500	1422	1850	1996	2732
DN600	2624	3113	3740	5468
DN700	2843	4010	5212	6197
DN750	3281	4717	5832	7290
DN800	3554	4739	6120	6738
DN900	4647	5923	7563	9477
DN1000	5923	7472	9477	11482
DN1100	7655	9568	11846	14033
DN1200	10024	12029	14216	17132
DN1400	12575	18225	27724	
DN1600	16767	24239	44834	

KV Values								
Diameter	Kv Values [m <sup>3</sup> /h] at the opening angle of the valve							
	20°	30°	40°	50°	60°	70°	80°	90°
DN25 / DN32		1,5	5	10	15	26	34	40
DN40		2,7	8,5	16	25	37	46	50
DN50	2	7	15	28	45	68	88	100
DN65	3	11	24	48	85	138	180	210
DN80	8	22	50	83	134	230	312	360
DN100	15	35	70	130	225	410	585	650
DN125	28	70	135	230	360	600	920	1050
DN150	33	95	205	320	580	980	1410	1620
DN200	60	175	355	580	910	1600	2450	2800
DN250	132	340	590	940	1480	2550	3950	4480
DN300	200	505	890	1450	2100	3800	5960	6800
DN350	280	680	1200	2050	3150	5050	8100	9200
DN400	365	860	1500	2490	3980	6600	10200	11700
DN450	465	1080	1900	3150	5050	8700	13300	15200
DN500	580	1200	2300	3740	6150	11000	16800	18900
DN600	820	1600	2780	5200	8940	14500	23500	26800
DN700	890	2050	3450	6050	11050	18800	31500	37100
DN750	1150	2250	4350	7700	12500	20700	34800	42750
DN800	1300	2550	4950	8750	14200	23500	39500	48500
DN900	1650	3300	6400	11800	19400	31500	52500	61300
DN1000	2150	4250	8200	15100	23500	39400	65500	80500
DN1100	2950	5950	10100	16400	28200	46100	81500	98500
DN1200	4000	7500	12500	19800	34000	55400	98300	119200
DN1400	5200	10120	18200	32500	51500	89500	142000	162000
DN1600	7100	14210	26050	45000	71200	118500	196200	228500

4.5 Dimensions Wafer Type

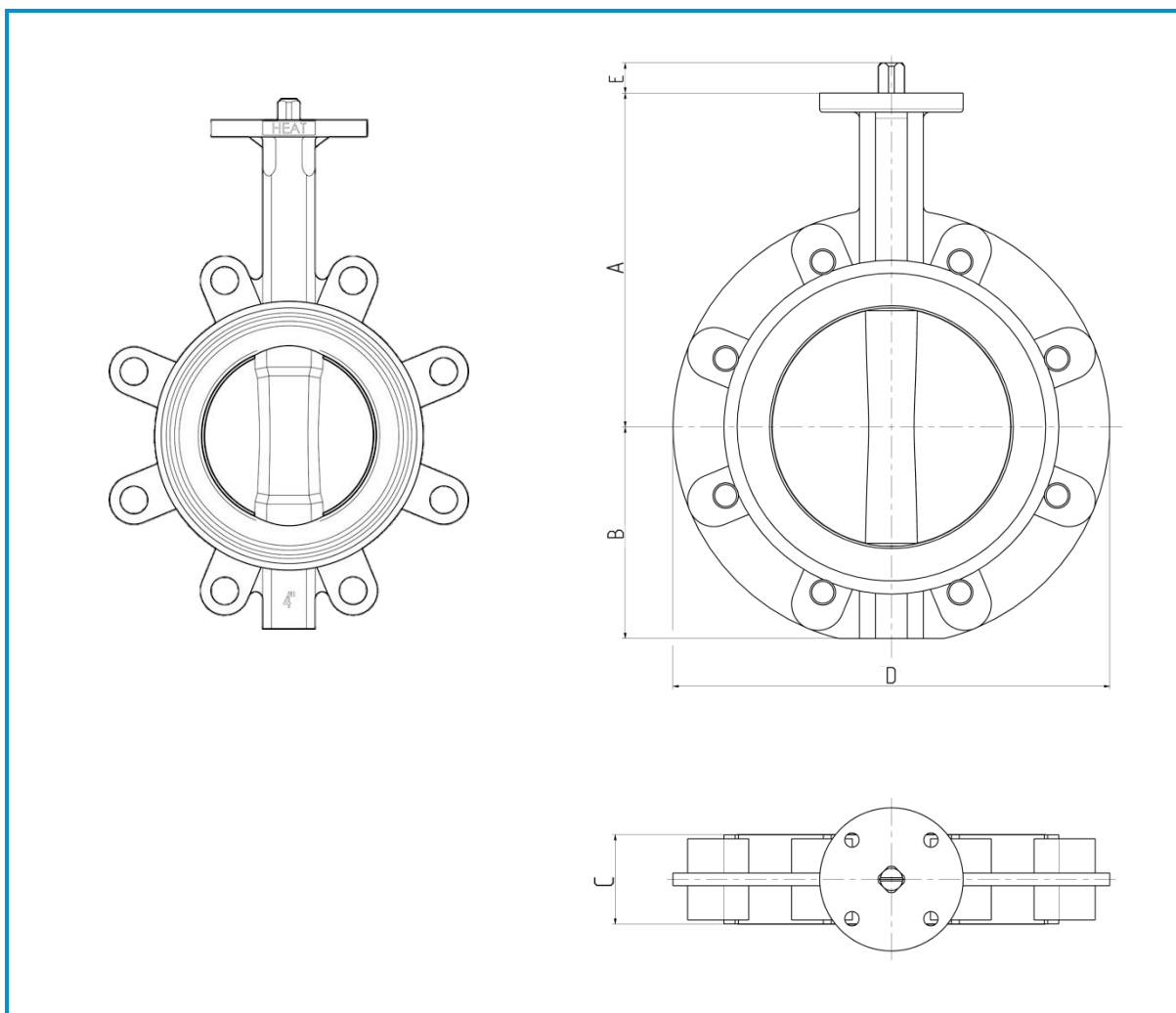


Diameter [DN]	A	B	C	D	E ±0,5	H*	x*	Weight [kg]
25	110	51	30	101	12	19	3	1,0
32	110	51	30	101	12	19	3	1,0
40	130	55	33	108	12	28	6	1,3
50	135	72	43	120	12	32	6	1,8
65	150	82	46	138	12	50	11	2,3
80	160	92	46	142	12	69	19	2,3
100	180	110	52	162	12	88	26	3,9
125	195	128	56	181	16	115	36	5,0
150	210	141	56	205	16	141	48	5,9
200	240	174	60	260	19	194	72	9,3
250	279	201	68	310	24	240	91	17,0
300	315	234	78	362	24	290	112	23,7
350	330	268	80	425	22	330	130	41,5
400	365	299	102	475	27	377	145	57,2
450	397	355	113	538	36	425	164	95
500	437	393	126	595	36	474	182	125
600	522	464	153	695	46	569	218	180
700	565	503	168	800	80	660	257	280
800	627	577	190	908	80	774	304	387
900	696	643	204	1015	100	855	337	502
1000	745	693	218	1133	100	960	383	710

metric measures [mm]

\*When using plastic stubs please check dimension H / x to avoid damaging of disc

4.6 Dimensions Lug Type

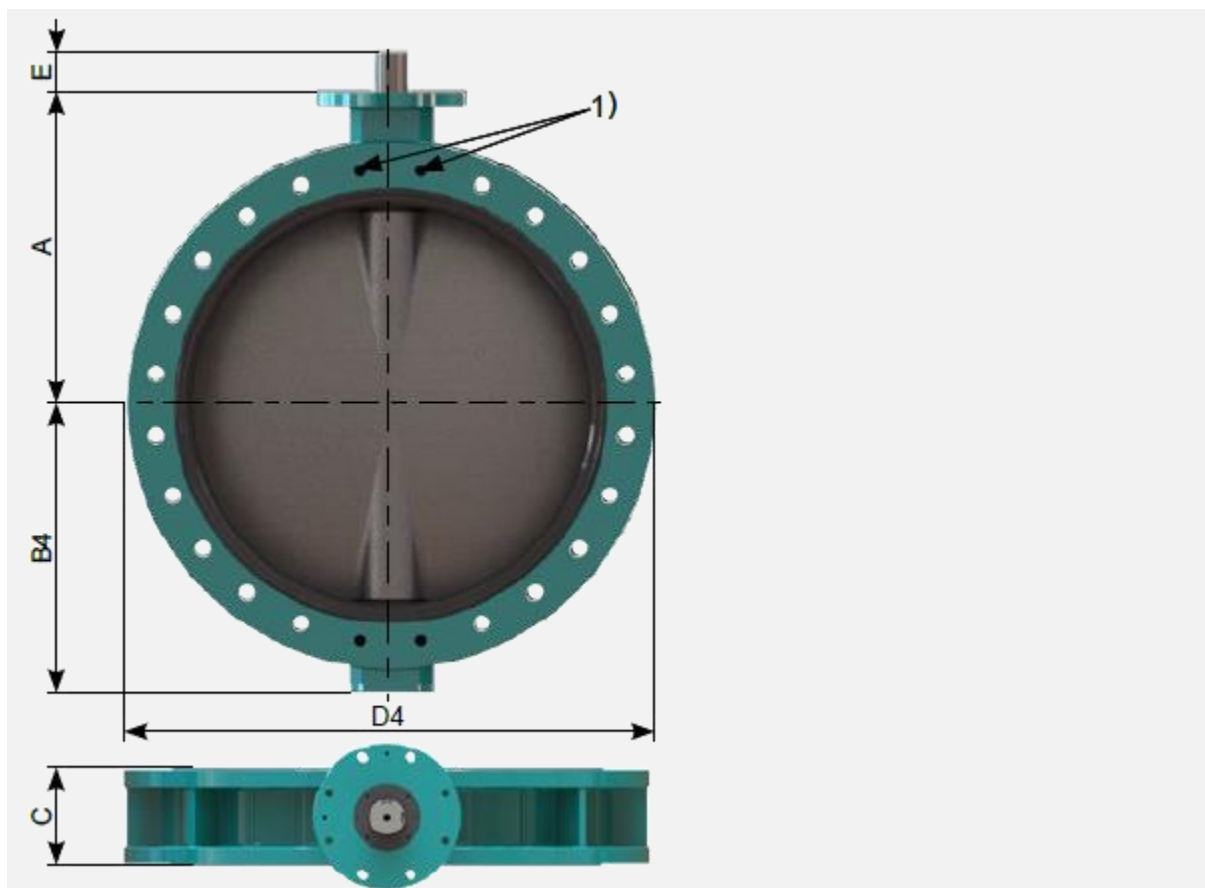


Diameter [DN]	A	B	C	D	E ±0,5	H*	x*	Weight [kg]
25	110	51	30	101	12	19	3	1,4
32	110	51	30	101	12	19	3	1,4
40	130	54	33	108	12	28	6	2
50	135	72	43	116	12	32	6	3,2
65	150	82	46	131	12	50	11	4
80	160	88	46	188	12	69	19	6,1
100	180	102	52	219	12	88	26	8,5
125	195	116	56	248	16	115	36	10
150	210	128	56	274	16	141	48	11
200	240	161	60	332	19	194	72	19,6
250	279	199	68	402	24	240	91	28,7
300	315	234	78	472	24	290	112	41,2
350	330	258	80	520	27	330	130	55
400	365	290	102	584	27	377	145	75
450	397	355	113	655	36	425	164	150
500	437	393	126	712	36	474	182	170
600	522	464	153	829	46	569	218	240

metric measures [mm]

\*When using plastic stubs please check dimension H / x to avoid damaging of disc

4.7 Dimensions U Shape



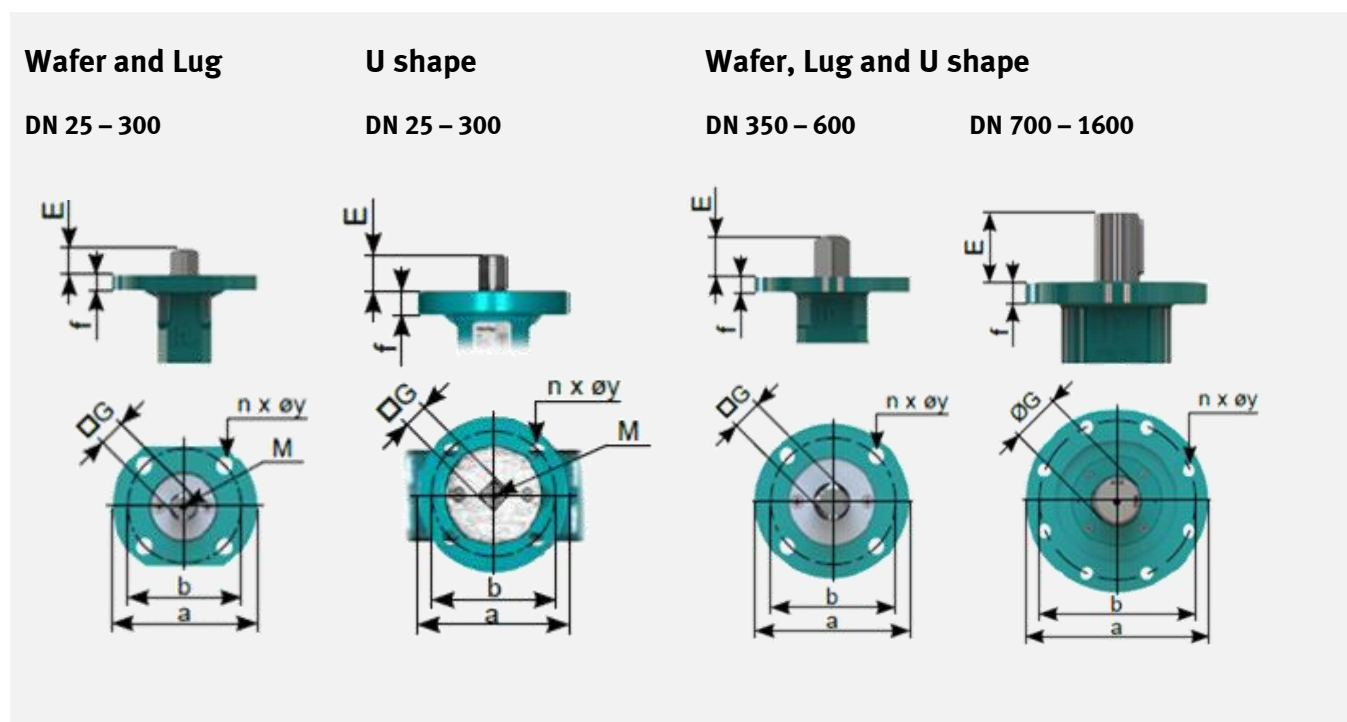
Diameter [DN]	A	B4	C	D4	H*	x*	E ±0,5	Weight [kg]
150	210	143	56	285	141	48	16	15
200	240	170	60	340	194	72	19	19,5
250	279	200	68	406	240	91	24	30,5
300	315	239	78	482	290	112	24	44
350	330	265	80	533	330	130	22	59
400	365	296	102	597	377	145	27	82
450	397	355	113	640	425	164	36	118
500	437	393	126	715	474	182	36	175
600	522	464	153	840	569	218	46	260
700	565	503	168	927	660	257	80	345
750	590	541	170	985	709	272	80	435
800	627	577	190	1060	774	304	80	510
900	696	643	204	1170	855	337	100	660
1000	745	693	218	1255	960	383	100	790
1100	820	738	218	1395	1054	429	100	850
1200	881	806	254	1485	1149	462	120	1180
1400	990	908	280	1746	1336	543	120	1700
1600	1117	1048	318	1924	1553	634	155	2600

metric measures [mm]

\*When using plastic stubs please check dimension H / x to avoid damaging of disc

1) DN 450- 1600, 2 x threads on neck and bottom

4.8 Dimensions ISO 5211 Flange



Wafer and LUG

DN	E	G	M	f	ISO	a	b	n x Øy
25-40	12	□8	M4	10	F05*	65	50	4 x 7
50-80	12	□11	M6	10	F05	65	50	4 x 7
100	12	□11	M6	10 / 10	F05/F07	65/89	50/70	4x7/4x9,5
125	16	□14	M6	10 / 10	F05/F07	65/89	50/70	4x7/4x9,5
150	16	□14	M6	10	F07	89	70	4 x 9,5
200	19	□17	M6	10	F07	89	70	4 x 9,5
250-300	24	□22	**	18	F10/F12	150	102/125	4x11/4x13

\*F04 on request  
 \*\*no thread in shaft

U shape

DN	E	G	M	f	ISO	A	b	n x Øy
150	16	□14	M6	12	F07	90	70	4 x 9
200	19	□17	M6	12	F07	90	70	4 x 9
250-300	24	□22	**	18	F10/F12	150	102/125	4x11/4x13

\*\* no thread in shaft

### Wafer, LUG and U shape

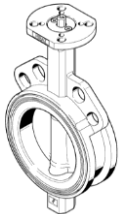
DN	E	G	d ∅	e	f	ISO	a	b	n x ∅y
350	27	□22	-	-	18	F12	155	125	4 x 13
400	27	□27	-	-	18	F12	155	125	4 x 13
450-500	36	□36	14	9	25	F14	175	140	4 x 18
600	46	□46	20	12	25	F16	220	165	4 x 22
700	80	∅70	20	12	25	F25	300	254	8 x 18
(750)	80	∅70	20	12	30	F25	300	254	8 x 18
800	80	∅70	20	12	30	F25	300	254	8 x 18
900	100	∅80	22	14	30	F30	350	298	8 x 22
1000	100	∅80	22	14	30	F30	350	298	8 x 22
(1100)	100	∅80	22	14	30	F30	350	298	8 x 22
1200	120	∅100	28	16	30	F30	350	298	8 x 22
1400	120	∅120	32	18	35	F30	350	298	8 x 22
1600	165	∅130	32	18	40	F35	418	356	8 x 33,5

### 4.9 ATEX details

Following the Guideline 2014 / 34 / EU	Festo Code	Liner	Disc	Surface finish shut off element	Surface finish housing
2GD cIIB / C	135	All	All	All	EP200; PU250
	112	All	All	All	PU70
1GD cIIB / C	178	E E4 E6 N N1 N2 NR SRBA V V1	H8 V3 V9 (only without surface coating)	CR PL	EP200; PU250
	246	E E4 E6 N N1 N2 NR SRBA V V1	H8 V3 V9 (only without surface coating)	CR PL	PU70

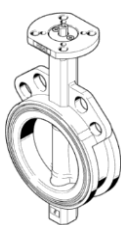
## 5 Wafer Type fast runner - part nr.

Housing material: Ductile cast iron Epoxy coated

Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code
	40	16	NBR	Ductile iron polyamide coated	8061979	VZAV-C-40-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062017	VZAV-C-40-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8061967	VZAV-C-40-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062005	VZAV-C-40-16-S8PN16-H1EP200-V5-V3-E
			EPDM-HT	Stainless steel 1.4408	8066878	VZAV-C-40-16-S8PN16-H1EP200-V5-V3-E4
	50	16	NBR	Ductile iron polyamide coated	8061980	VZAV-C-50-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062018	VZAV-C-50-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8061968	VZAV-C-50-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062006	VZAV-C-50-16-S8PN16-H1EP200-V5-V3-E
			EPDM-HT	Stainless steel 1.4408	8066879	VZAV-C-50-10-S8PN16-H1EP200-V5-V3-E4
	65	16	NBR	Ductile iron polyamide coated	8061981	VZAV-C-65-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062019	VZAV-C-65-16-S8PN16-H1EP200-V5-V3-N
EPDM			Ductile iron polyamide coated	8061969	VZAV-C-65-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062007	VZAV-C-65-16-S8PN16-H1EP200-V5-V3-E	
		EPDM-HT	Stainless steel 1.4408	8066880	VZAV-C-65-10-S8PN16-H1EP200-V5-V3-E4	
80	16	NBR	Ductile iron polyamide coated	8061982	VZAV-V-80-16-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062020	VZAV-C-80-16-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061970	VZAV-C-80-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062008	VZAV-C-80-16-S8PN16-H1EP200-V5-V3-E	
			EPDM-HT	Stainless steel 1.4408	8066881	VZAV-C-80-16-S8PN16-H1EP200-V5-V3-E4
	10	NBR	Ductile iron polyamide coated	8061958	VZAV-C-80-10-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8061996	VZAV-C-80-10-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061951	VZAV-C-80-10-S8PN16-H1EP200-V5-H1PA250-E	
Stainless steel 1.4408			8061989	VZAV-C-80-10-S8PN16-H1EP200-V5-V3-E		
100	16	NBR	Ductile iron polyamide coated	8061983	VZAV-C-100-16-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062021	VZAV-C-100-16-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061971	VZAV-C-100-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062009	VZAV-C-100-16-S8PN16-H1EP200-V5-V3-E	
			EPDM-HT	Stainless steel 1.4408	8066882	VZAV-C-100-16-S8PN16-H1EP200-V5-V3-E4
	10	NBR	Ductile iron polyamide coated	8061959	VZAV-C-100-10-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8061997	VZAV-C-100-10-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061952	VZAV-C-100-10-S8PN16-H1EP200-V5-H1PA250-E	
Stainless steel 1.4408			8061990	VZAV-C-100-10-S8PN16-H1EP200-V5-V3-E		
125	16	NBR	Ductile iron polyamide coated	8061984	VZAV-C-125-16-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062022	VZAV-C-125-16-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061972	VZAV-C-125-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062010	VZAV-C-125-16-S8PN16-H1EP200-V5-V3-E	
			EPDM-HT	Stainless steel 1.4408	8066883	VZAV-C-125-16-S8PN16-H1EP200-V5-V3-E4
	10	NBR	Ductile iron polyamide coated	8061960	VZAV-C-125-10-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8061998	VZAV-C-125-10-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8061953	VZAV-C-125-10-S8PN16-H1EP200-V5-H1PA250-E	
Stainless steel 1.4408			8061991	VZAV-C-125-10-S8PN16-H1EP200-V5-V3-E		

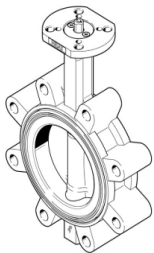


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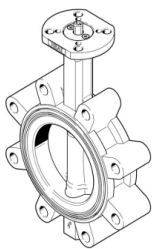
Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code		
	150	16	NBR	Ductile iron polyamide coated	8061985	VZAV-C-150-16-S8PN16-H1EP200-V5-H1PA250-N		
				Stainless steel 1.4408	8062023	VZAV-C-150-16-S8PN16-H1EP200-V5-V3-N		
		EPDM	Ductile iron polyamide coated	8061973	VZAV-C-150-16-S8PN16-H1EP200-V5-H1PA250-E			
			Stainless steel 1.4408	8062011	VZAV-C-150-16-S8PN16-H1EP200-V5-V3-E			
		EPDM-HT	Ductile iron polyamide coated	8066884	VZAV-C-150-16-S8PN16-H1EP200-V5-V3-E4			
			Stainless steel 1.4408	8061961	VZAV-C-150-10-S8PN16-H1EP200-V5-H1PA250-N			
	10	NBR	Ductile iron polyamide coated	8061961	VZAV-C-150-10-S8PN16-H1EP200-V5-H1PA250-N			
			Stainless steel 1.4408	8061999	VZAV-C-150-10-S8PN16-H1EP200-V5-V3-N			
		EPDM	Ductile iron polyamide coated	8061954	VZAV-C-150-10-S8PN16-H1EP200-V5-H1PA250-E			
			Stainless steel 1.4408	8061992	VZAV-C-150-10-S8PN16-H1EP200-V5-V3-E			
		200	16	NBR	Ductile iron polyamide coated	8061986	VZAV-C-200-16-S8PN16-H1EP200-V5-H1PA250-N	
					Stainless steel 1.4408	8062024	VZAV-C-200-16-S8PN16-H1EP200-V5-V3-N	
	EPDM			Ductile iron polyamide coated	8061974	VZAV-C-200-16-S8PN16-H1EP200-V5-H1PA250-E		
				Stainless steel 1.4408	8062012	VZAV-C-200-16-S8PN16-H1EP200-V5-V3-E		
	EPDM-HT			Ductile iron polyamide coated	8066885	VZAV-C-200-16-S8PN16-H1EP200-V5-V3-E4		
				Stainless steel 1.4408	8061962	VZAV-C-200-10-S8PN16-H1EP200-V5-H1PA250-N		
	10		NBR	Ductile iron polyamide coated	8061962	VZAV-C-200-10-S8PN16-H1EP200-V5-H1PA250-N		
				Stainless steel 1.4408	8062000	VZAV-C-200-10-S8PN16-H1EP200-V5-V3-N		
			EPDM	Ductile iron polyamide coated	8061955	VZAV-C-200-10-S8PN16-H1EP200-V5-H1PA250-E		
				Stainless steel 1.4408	8061993	VZAV-C-200-10-S8PN16-H1EP200-V5-V3-E		
			250	16	NBR	Ductile iron polyamide coated	8061987	VZAV-C-250-16-S8PN16-H1EP200-V5-H1PA250-N
						Stainless steel 1.4408	8062025	VZAV-C-250-16-S8PN16-H1EP200-V5-V3-N
	EPDM	Ductile iron polyamide coated			8061975	VZAV-C-250-16-S8PN16-H1EP200-V5-H1PA250-E		
		Stainless steel 1.4408			8062013	VZAV-C-250-16-S8PN16-H1EP200-V5-V3-E		
EPDM-HT	Ductile iron polyamide coated	8066886			VZAV-C-250-16-S8PN16-H1EP200-V5-V3-E4			
	Stainless steel 1.4408	8061963			VZAV-C-250-10-S8PN16-H1EP200-V5-H1PA250-N			
10	NBR	Ductile iron polyamide coated		8061963	VZAV-C-250-10-S8PN16-H1EP200-V5-H1PA250-N			
		Stainless steel 1.4408		8062001	VZAV-C-250-10-S8PN16-H1EP200-V5-V3-N			
	EPDM	Ductile iron polyamide coated		8061956	VZAV-C-250-10-S8PN16-H1EP200-V5-H1PA250-E			
		Stainless steel 1.4408		8061994	VZAV-C-250-10-S8PN16-H1EP200-V5-V3-E			
	300	16		NBR	Ductile iron polyamide coated	8061988	VZAV-C-300-16-S8PN16-H1EP200-V5-H1PA250-N	
					Stainless steel 1.4408	8062026	VZAV-C-300-16-S8PN16-H1EP200-V5-V3-N	
EPDM			Ductile iron polyamide coated	8061976	VZAV-C-300-16-S8PN16-H1EP200-V5-H1PA250-E			
			Stainless steel 1.4408	8062014	VZAV-C-300-16-S8PN16-H1EP200-V5-V3-E			
EPDM-HT			Ductile iron polyamide coated	8066887	VZAV-C-300-16-S8PN16-H1EP200-V5-V3-E4			
			Stainless steel 1.4408	8061964	VZAV-C-300-10-S8PN16-H1EP200-V5-H1PA250-N			
10		NBR	Ductile iron polyamide coated	8061964	VZAV-C-300-10-S8PN16-H1EP200-V5-H1PA250-N			
			Stainless steel 1.4408	8062002	VZAV-C-300-10-S8PN16-H1EP200-V5-V3-N			
		EPDM	Ductile iron polyamide coated	8061957	VZAV-C-300-10-S8PN16-H1EP200-V5-H1PA250-E			
			Stainless steel 1.4408	8061995	VZAV-C-300-10-S8PN16-H1EP200-V5-V3-E			

## 6 Lug Type DIN EN 1092/1 fast runner - part nr.

Housing material: Ductile cast iron Epoxy coated

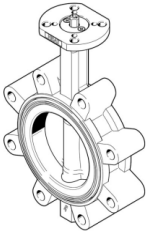
Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code
	40	16	NBR	Ductile iron polyamide coated	8062055	VZAV-L-40-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062093	VZAV-L-40-16-S8PN16-H1EP200-V5-V3-N
		EPDM	Ductile iron polyamide coated	8062043	VZAV-L-40-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062081	VZAV-L-40-16-S8PN16-H1EP200-V5-V3-E	
	50	16	NBR	Ductile iron polyamide coated	8062056	VZAV-L-50-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062094	VZAV-L-50-16-S8PN16-H1EP200-V5-V3-N
		EPDM	Ductile iron polyamide coated	8062044	VZAV-L-50-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062082	VZAV-L-50-16-S8PN16-H1EP200-V5-V3-E	
	65	16	NBR	Ductile iron polyamide coated	8062057	VZAV-L-65-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062095	VZAV-L-65-16-S8PN16-H1EP200-V5-V3-N
		EPDM	Ductile iron polyamide coated	8062045	VZAV-L-65-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062083	VZAV-L-65-16-S8PN16-H1EP200-V5-V3-E	
	80	16	NBR	Ductile iron polyamide coated	8062058	VZAV-L-80-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062096	VZAV-L-80-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062046	VZAV-L-80-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062084	VZAV-L-80-16-S8PN16-H1EP200-V5-V3-E
		10	NBR	Ductile iron polyamide coated	8062034	VZAV-L-80-10-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062072	VZAV-L-80-10-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062027	VZAV-L-80-10-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062065	VZAV-L-80-10-S8PN16-H1EP200-V5-V3-E
	100	16	NBR	Ductile iron polyamide coated	8062059	VZAV-L-100-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062097	VZAV-L-100-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062047	VZAV-L-100-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062085	VZAV-L-100-16-S8PN16-H1EP200-V5-V3-E
10		NBR	Ductile iron polyamide coated	8062035	VZAV-L-100-10-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062073	VZAV-L-100-10-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8062028	VZAV-L-100-10-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062066	VZAV-L-100-10-S8PN16-H1EP200-V5-V3-E	
125	16	NBR	Ductile iron polyamide coated	8062060	VZAV-L-125-16-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062098	VZAV-L-125-16-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8062048	VZAV-L-125-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062086	VZAV-L-125-16-S8PN16-H1EP200-V5-V3-E	
	10	NBR	Ductile iron polyamide coated	8062036	VZAV-L-125-10-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062074	VZAV-L-125-10-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8062029	VZAV-L-125-10-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062067	VZAV-L-125-10-S8PN16-H1EP200-V5-V3-E	

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Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NR	Type code
	150	16	NBR	Ductile iron polyamide coated	8062061	VZAV-L-150-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062099	VZAV-L-150-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062049	VZAV-L-150-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062087	VZAV-L-150-16-S8PN16-H1EP200-V5-V3-E
		10	NBR	Ductile iron polyamide coated	8062037	VZAV-L-150-10-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062075	VZAV-L-150-10-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062030	VZAV-L-150-10-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062068	VZAV-L-150-10-S8PN16-H1EP200-V5-V3-E
	200	16	NBR	Ductile iron polyamide coated	8062062	VZAV-L-200-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062100	VZAV-L-200-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062050	VZAV-L-200-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062088	VZAV-L-200-16-S8PN16-H1EP200-V5-V3-E
		10	NBR	Ductile iron polyamide coated	8062038	VZAV-L-200-10-S8PN10-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062076	VZAV-L-200-10-S8PN10-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062031	VZAV-L-200-10-S8PN10-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062069	VZAV-L-200-10-S8PN10-H1EP200-V5-V3-E
	250	16	NBR	Ductile iron polyamide coated	8062063	VZAV-L-250-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062101	VZAV-L-250-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062051	VZAV-L-250-16-S8PN16-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062089	VZAV-L-250-16-S8PN16-H1EP200-V5-V3-E
		10	NBR	Ductile iron polyamide coated	8062039	VZAV-L-250-10-S8PN10-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062077	VZAV-L-250-10-S8PN10-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	8062032	VZAV-L-250-10-S8PN10-H1EP200-V5-H1PA250-E
				Stainless steel 1.4408	8062070	VZAV-L-250-10-S8PN10-H1EP200-V5-V3-E
300	16	NBR	Ductile iron polyamide coated	8062064	VZAV-L-300-16-S8PN16-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062102	VZAV-L-300-16-S8PN16-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8062052	VZAV-L-300-16-S8PN16-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062090	VZAV-L-300-16-S8PN16-H1EP200-V5-V3-E	
	10	NBR	Ductile iron polyamide coated	8062040	VZAV-L-300-10-S8PN10-H1EP200-V5-H1PA250-N	
			Stainless steel 1.4408	8062078	VZAV-L-300-10-S8PN10-H1EP200-V5-V3-N	
		EPDM	Ductile iron polyamide coated	8062033	VZAV-L-300-10-S8PN10-H1EP200-V5-H1PA250-E	
			Stainless steel 1.4408	8062071	VZAV-L-300-10-S8PN10-H1EP200-V5-V3-E	


## 7 Lug Type ANSI Class 150 fast runner – part nr. Mainly for the US market

Housing material: Ductile cast iron Epoxy coated

Design	Nominal diameter	Inch	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NR	Type code
	40	1 1/2"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065675	VZAV-L-40-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065699	VZAV-L-40-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065663	VZAV-L-40-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065687	VZAV-L-40-16-S9-H1EP200-V5-V3-E
	50	2"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065676	VZAV-L-50-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065700	VZAV-L-50-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065664	VZAV-L-50-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065688	VZAV-L-50-16-S9-H1EP200-V5-V3-E
	65	2 1/2"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065677	VZAV-L-65-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065701	VZAV-L-65-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065665	VZAV-L-65-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065689	VZAV-L-65-16-S9-H1EP200-V5-V3-E
	80	3"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065678	VZAV-L-80-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065702	VZAV-L-80-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065666	VZAV-L-80-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065690	VZAV-L-80-16-S9-H1EP200-V5-V3-E
	100	4"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065679	VZAV-L-100-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065703	VZAV-L-100-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065667	VZAV-L-100-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065691	VZAV-L-100-16-S9-H1EP200-V5-V3-E
	125	5"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065680	VZAV-L-125-16-S9-H1EP200-V5-H1PA250-N
					Stainless steel 1.4408	8065704	VZAV-L-125-16-S9-H1EP200-V5-V3-N
				EPDM	Ductile iron polyamide coated	8065668	VZAV-L-125-16-S9-H1EP200-V5-H1PA250-E
					Stainless steel 1.4408	8065692	VZAV-L-125-16-S9-H1EP200-V5-V3-E
150	6"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065681	VZAV-L-150-16-S9-H1EP200-V5-H1PA250-N	
				Stainless steel 1.4408	8065705	VZAV-L-150-16-S9-H1EP200-V5-V3-N	
			EPDM	Ductile iron polyamide coated	8065669	VZAV-L-150-16-S9-H1EP200-V5-H1PA250-E	
				Stainless steel 1.4408	8065693	VZAV-L-150-16-S9-H1EP200-V5-V3-E	
200	8"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065682	VZAV-L-200-16-S9-H1EP200-V5-H1PA250-N	
				Stainless steel 1.4408	8065706	VZAV-L-200-16-S9-H1EP200-V5-V3-N	
			EPDM	Ductile iron polyamide coated	8065670	VZAV-L-200-16-S9-H1EP200-V5-H1PA250-E	
				Stainless steel 1.4408	8065694	VZAV-L-200-16-S9-H1EP200-V5-V3-E	
250	10"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065683	VZAV-L-250-16-S9-H1EP200-V5-H1PA250-N	
				Stainless steel 1.4408	8065707	VZAV-L-250-16-S9-H1EP200-V5-V3-N	
			EPDM	Ductile iron polyamide coated	8065671	VZAV-L-250-16-S9-H1EP200-V5-H1PA250-E	
				Stainless steel 1.4408	8065695	VZAV-L-250-16-S9-H1EP200-V5-V3-E	
300	12"	ANSI Class 150	NBR	Ductile iron polyamide coated	8065684	VZAV-L-300-16-S9-H1EP200-V5-H1PA250-N	
				Stainless steel 1.4408	8065708	VZAV-L-300-16-S9-H1EP200-V5-V3-N	
			EPDM	Ductile iron polyamide coated	8065672	VZAV-L-300-16-S9-H1EP200-V5-H1PA250-E	
				Stainless steel 1.4408	8065696	VZAV-L-300-16-S9-H1EP200-V5-V3-E	

## 8 Spare parts / Accessories

### 8.1 Hand Lever

Design	Nominal diameter	Part no#	Type
	25 / 32 / 40	8062103	VAOH-F11-F05-SW8-180-H9-RA10-AL
	50 / 60	8062104	VAOH-F11-F05-SW11-180-H9-RA10-AL
	80	8062105	VAOH-F11-F05-SW11-240-H9-RA10-AL
	100	8062106	VAOH-F11-F07-SW11-240-H9-RA10-AL
	125 / 150	8062107	VAOH-F11-F07-SW14-340-H9-RA10-AL
	200	8062108	VAOH-F11-F07-SW17-340-H9-RA10-AL

### 8.2 Liner

DN	Part no# EPDM	Type EPDM	Part no# EPDM-HT	Type EPDM-HT	Part no# EPDM-white	Type EPDM-white	Part no# NBR	Type NBR
40	8044186	VZAS-40-E	8044206	VZAS-40-E4	8044216	VZAS-40-E6	8044196	VZAS-40-N
50	8044187	VZAS-50-E	8044207	VZAS-50-E4	8044217	VZAS-50-E6	8044197	VZAS-50-N
65	8044188	VZAS-65-E	8044208	VZAS-65-E4	8044218	VZAS-65-E6	8044198	VZAS-65-N
80	8044189	VZAS-80-E	8044209	VZAS-80-E4	8044219	VZAS-80-E6	8044199	VZAS-80-N
100	8044190	VZAS-100-E	8044210	VZAS-100-E4	8044220	VZAS-100-E6	8044200	VZAS-100-N
125	8044191	VZAS-125-E	8044211	VZAS-125-E4	8044221	VZAS-125-E6	8044201	VZAS-125-N
150	8044192	VZAS-150-E	8044212	VZAS-150-E4	8044222	VZAS-150-E6	8044202	VZAS-150-N
200	8044193	VZAS-200-E	8044213	VZAS-200-E4	8044223	VZAS-200-E6	8044203	VZAS-200-N
250	8044194	VZAS-250-E	8044214	VZAS-250-E4	8044224	VZAS-250-E6	8044204	VZAS-250-N
300	8044195	VZAS-300-E	8044215	VZAS-300-E4	8044225	VZAS-300-E6	8044205	VZAS-300-N

If your customer is willing to have a different liner material as a spare part, you can write an inquiry to GSS with  
VZAS-xxx-yy

Xxx = diameter of butterfly valve

Yy = liner code



9 PA Solutions

