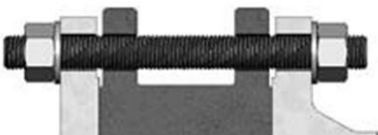


4 Technical Data

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 ¹	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 ²	D opt ³	D max ⁴
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

¹ PN class to DIN EN1333 / ASME 16.5

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

³ Diameter of the flange for optimal mounting

⁴ 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 and EN681-1			
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			

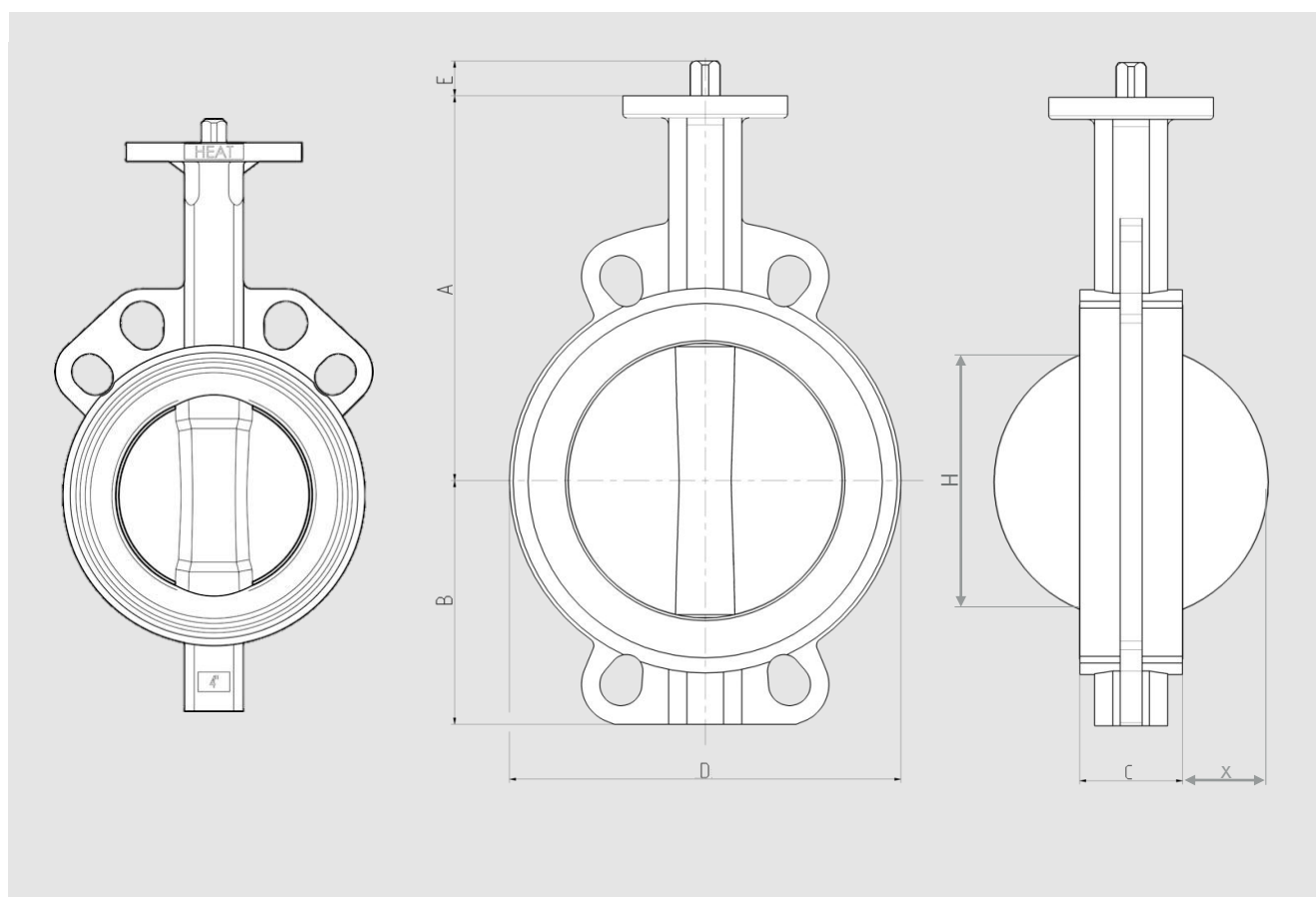
4.4 Actuating torques and KV values

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 [m³/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

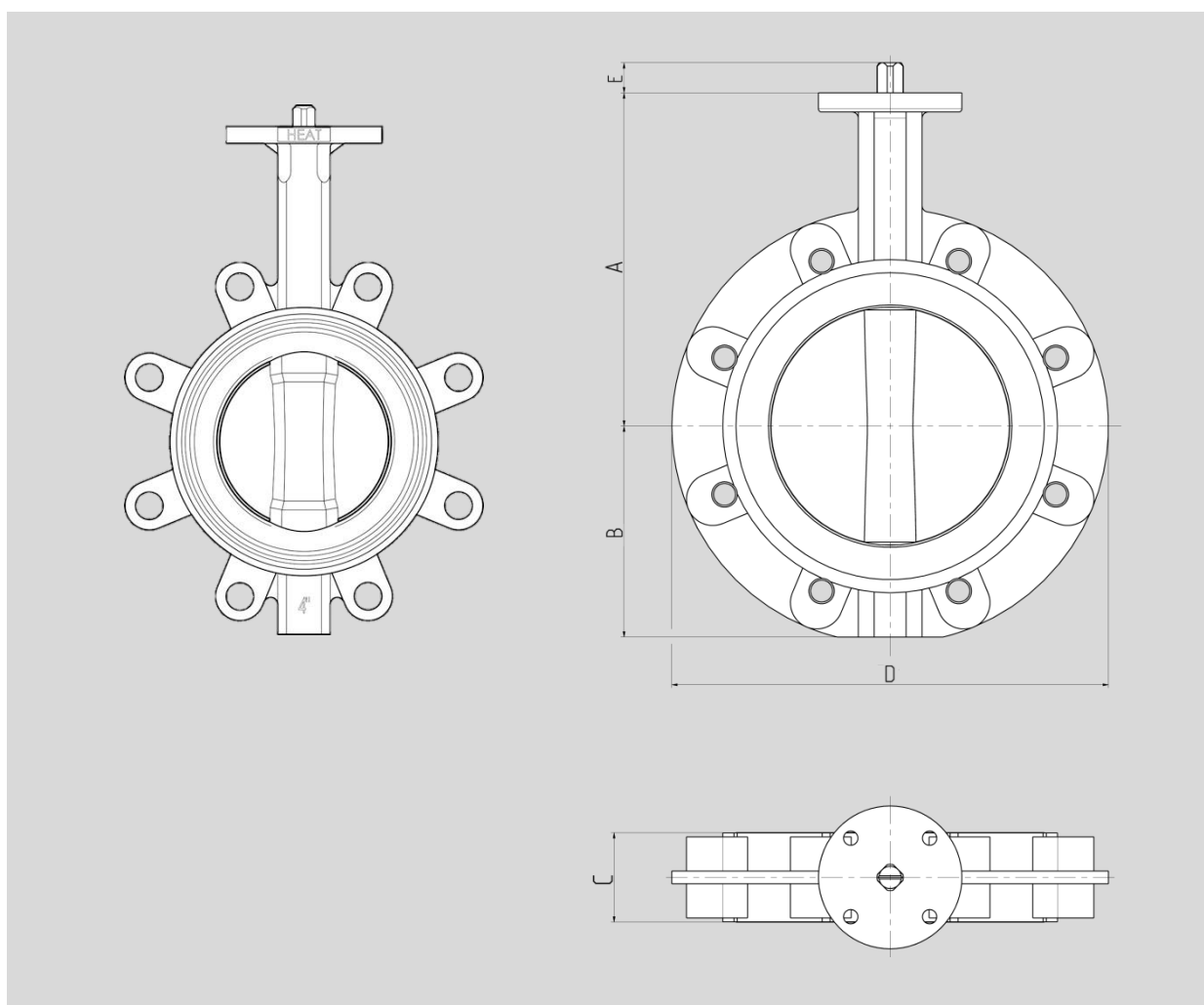


Diameter [DN]	A	B	C	D	E ±0,5	H*	x*	Weight [kg]
25	110	51	30	101	12	19	3	1,0
32	110	51	30	101	12	19	3	1,0
40	130	55	33	108	12	28	6	1,3
50	135	72	43	120	12	32	6	1,8
65	150	82	46	138	12	50	11	2,3
80	160	92	46	142	12	69	19	2,3
100	180	110	52	162	12	88	26	3,9
125	195	128	56	181	16	115	36	5,0
150	210	141	56	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	40	330	130	41,5
400	365	299	102	475	40	377	145	57,2
450	397	355	113	538	65	425	164	95
500	437	393	126	595	65	474	182	125
600	522	464	153	695	80	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

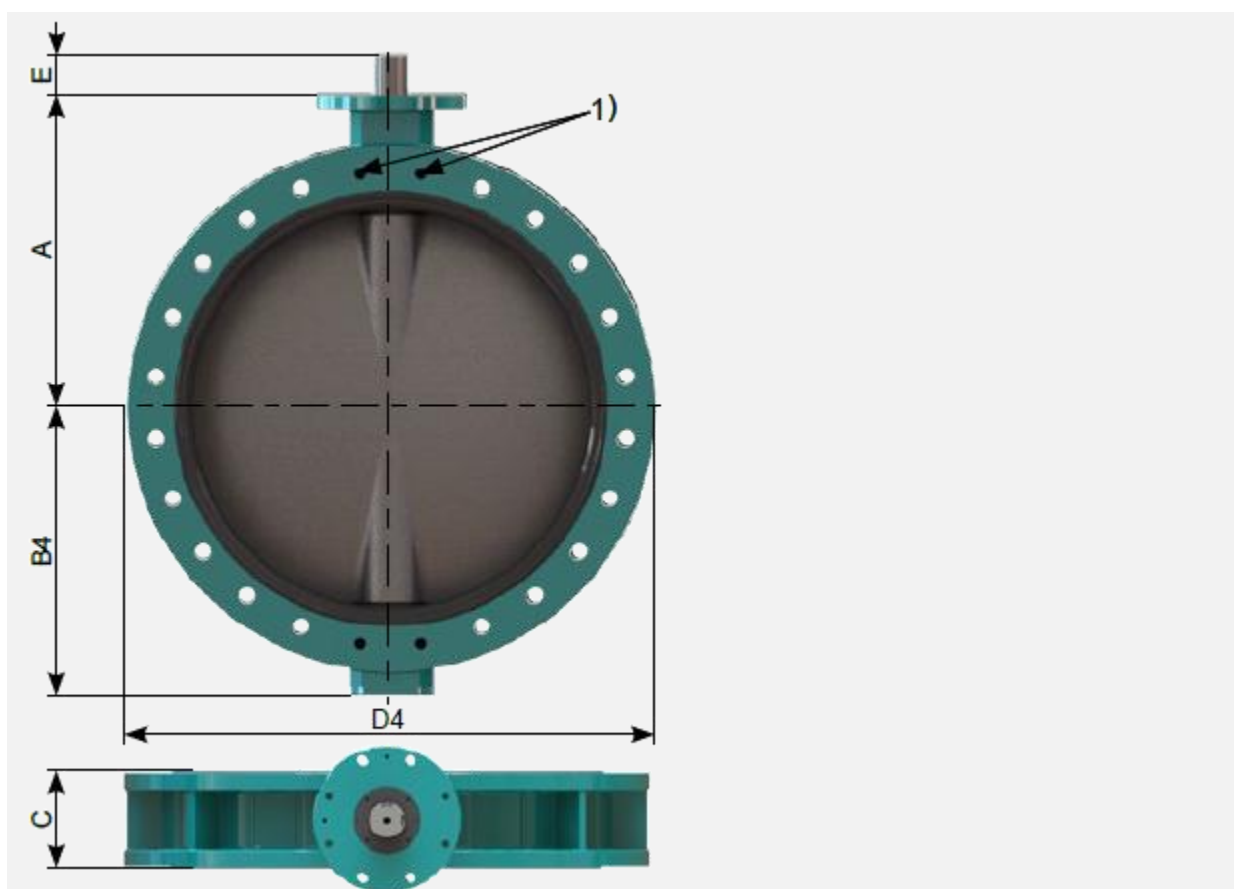


Diameter [DN]	A	B	C	D	E ±0,5	H*	x*	Weight [kg]
25	110	51	30	101	12	19	3	1,4
32	110	51	30	101	12	19	3	1,4
40	130	54	33	108	12	28	6	2
50	135	72	43	116	12	32	6	3,2
65	150	82	46	131	12	50	11	4
80	160	88	46	188	12	69	19	6,1
100	180	102	52	219	12	88	26	8,5
125	195	116	56	248	16	115	36	10
150	210	128	56	274	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	40	330	130	55
400	365	290	102	584	40	377	145	75
450	397	355	113	655	65	425	164	150
500	437	393	126	712	65	474	182	170
600	522	464	153	829	80	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	40	59
400	365	296	102	597	377	145	40	82
450	397	355	113	640	425	164	65	118
500	437	393	126	715	474	182	65	175
600	522	464	153	840	569	218	80	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]

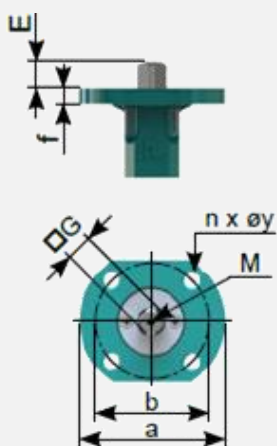
*When using plastic stubs please check dimension H / x to avoid damaging of disc

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

4.8 Dimensions ISO 5211 Flange

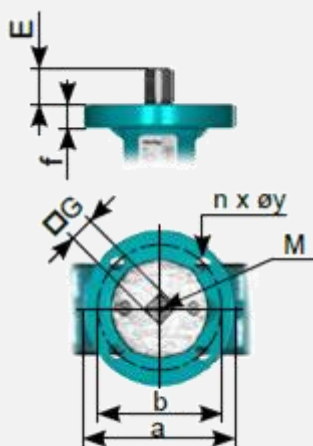
Wafer and Lug

DN 25 – 300



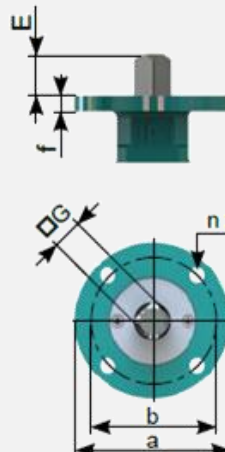
U shape

DN 25 – 300

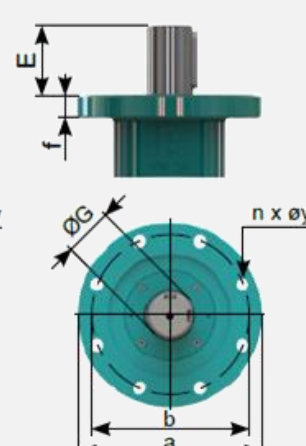


Wafer, Lug and U shape

DN 350 – 400



DN 450 – 1600



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

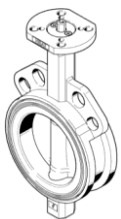
DN	E	G	d Ø	e	f	ISO	a	b	n x Øy
350	40	□22	-	-	18	F12	155	125	4 x 13
400	40	□27	-	-	18	F12	155	125	4 x 13
450-500	37	□36	14	9	25	F14	175	140	4 x 18
600	46	□46	20	12	25	F16	220	165	4 x 22
700	80	Ø70	20	12	25	F25	300	254	8 x 18
(750)	80	Ø70	20	12	30	F25	300	254	8 x 18
800	80	Ø70	20	12	30	F25	300	254	8 x 18
900	100	Ø80	22	14	30	F30	350	298	8 x 22
1000	100	Ø80	22	14	30	F30	350	298	8 x 22
(1100)	100	Ø80	22	14	30	F30	350	298	8 x 22
1200	120	Ø100	28	16	30	F30	350	298	8 x 22
1400	120	Ø120	32	18	35	F30	350	298	8 x 22
1600	165	Ø130	32	18	40	F35	418	356	8 x 33,5

4.9 ATEX details

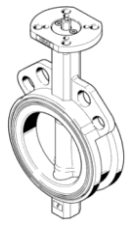
Following the Guideline 2014 / 34 / EU	Festo Code	Liner	Disc	Surface finish shut off element	Surface finish housing
2GD cIIB / C	135	All	All	All	EP200; PU250
	112	All	All	All	PU70
1GD cIIB / C	178	E E4 E6 N N1 N2 NR SRBA V V1	H8 V3 V9 (only without surface coating)	CR PL	EP200; PU250
	246	E E4 E6 N N1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

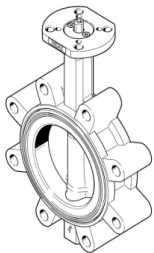
Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code
	40	16	NBR	Ductile iron polyamide coated	8061979	VZAV-C-40-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062017	VZAV-C-40-16-S8PN16-H1EP200-V5-V3-N
			EPDM	Ductile iron polyamide coated	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		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		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		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		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		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		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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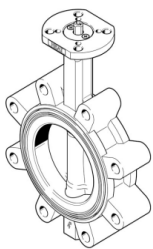
Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code		
	150	16	NBR	Ductile iron polyamide coated	8061985	VZAV-C-150-16-S8PN16-H1EP200-V5-H1PA250-N		
				Stainless steel 1.4408	8062023	VZAV-C-150-16-S8PN16-H1EP200-V5-V3-N		
		EPDM	Ductile iron polyamide 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	8061999	VZAV-C-150-10-S8PN16-H1EP200-V5-V3-N			
			Stainless steel 1.4408	8061954	VZAV-C-150-10-S8PN16-H1EP200-V5-H1PA250-E			
		EPDM	Ductile iron polyamide coated	8061992	VZAV-C-150-10-S8PN16-H1EP200-V5-V3-E			
			Stainless steel 1.4408					
		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	8062000	VZAV-C-200-10-S8PN16-H1EP200-V5-V3-N		
				Stainless steel 1.4408	8061955	VZAV-C-200-10-S8PN16-H1EP200-V5-H1PA250-E		
			EPDM	Ductile iron polyamide coated	8061993	VZAV-C-200-10-S8PN16-H1EP200-V5-V3-E		
				Stainless steel 1.4408				
			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		8062001	VZAV-C-250-10-S8PN16-H1EP200-V5-V3-N			
		Stainless steel 1.4408		8061956	VZAV-C-250-10-S8PN16-H1EP200-V5-H1PA250-E			
	EPDM	Ductile iron polyamide coated		8061994	VZAV-C-250-10-S8PN16-H1EP200-V5-V3-E			
		Stainless steel 1.4408						
	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	8062002	VZAV-C-300-10-S8PN16-H1EP200-V5-V3-N			
			Stainless steel 1.4408	8061957	VZAV-C-300-10-S8PN16-H1EP200-V5-H1PA250-E			
		EPDM	Ductile iron polyamide coated	8061995	VZAV-C-300-10-S8PN16-H1EP200-V5-V3-E			
			Stainless steel 1.4408					

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

Housing material: Ductile cast iron Epoxy coated

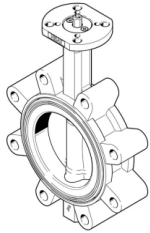
Design	Nominal diameter	Nominal pressure	Liner	Disc / Surface finish shut off element	Part NO	Type code
	40	16	NBR	Ductile iron polyamide coated	8062055	VZAV-L-40-16-S8PN16-H1EP200-V5-H1PA250-N
				Stainless steel 1.4408	8062093	VZAV-L-40-16-S8PN16-H1EP200-V5-V3-N
		EPDM	Ductile iron polyamide coated	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	