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КЛАПАНЫ И КОМПОНЕНТЫ VESTA

Технические характеристики

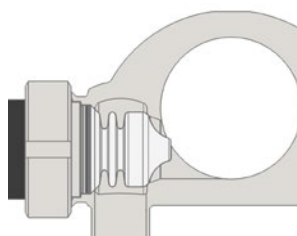


GEA VESTA® Shut-off Valves mix matched

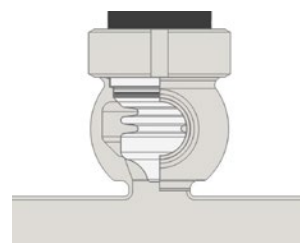
GEA VESTA® Shut-off valves of the type HCA graduated are used for the controlled shut-off of pipelines in sterile process technology. They are used when different connection port sizes are required for transit and diversion to ideally adapt the valve to the installation. GEA VESTA® Shut-off valves of the type HCA graduated offer the seamless and cost-effective integration of GEA VESTA® Sterile valves in larger pipelines at low extraction volume. These valves can be installed in almost all orientations and provide for optimized cleaning processes. The improved piping as well as the integration of additional sterilization ports furthermore reduces dead space. The significantly reduced pipe volume on the extraction side and the improved drainability are further advantages compared to conventional solutions.



GEA VESTA® Shut-off valves type HCA graduated in various sizes



Sectional view of HCA housing graduated in excentric execution



Sectional view of HCA housing graduated in centric execution

Main components

The main components as well as the available options for GEA VESTA® Shut-off valves type HCA graduated are almost identical to the regular GEA VESTA® Shut-off valves. They differentiate themselves by their valve housing options.

Housing

The housings are available in centric and eccentric executions. The eccentric option offers the full drainage of the transit pipeline in horizontal installations via the extraction port.



Housing combinations



L



T



B



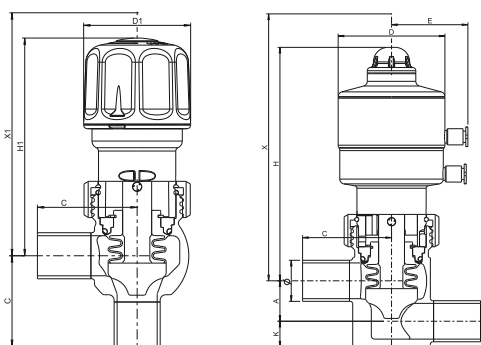
C



E



I



Technical data of the standard version

Material in contact with product	Housing 1.4435
Material not in contact with product	Actuator 1.4301/Plastic PPS
Seal material in contact with product	PTFE
Product pressure	10 bar
Air supply pressure	NC 6 bar, NO 5 bar, AA 4 bar
External housing surface	$R_a \leq 1.6 \mu\text{m}$ metallic polished
Surface in contact with product	$R_a \leq 0.8 \mu\text{m}$, untreated welding seam $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
Control and feedback system	Visual monitoring (standard)
Connection fittings	Acc. to DIN 11866
Identification	Adhesive ID tag

		Pipe		Housing		Actuator			Dimension					Valve
Nominal diameter		Ø [mm]	A [mm]	C [mm]	D [mm]	D1 [mm]	E [mm]	K [mm]	H [mm]	H1 [mm]	Removal X [mm]	Removal X1 [mm]	Stroke S [mm]	
DN	10	13.00 × 1.50	12.5	50	50.0	59	40.0	8.50	131.0	114	177	160	2.0	
DN	15	19.00 × 1.50	18.5	50	50.0	59	40.0	11.50	134.0	118	187	171	4.0	
DN	20	23.00 × 1.50	23.0	55	65.0	59	47.0	15.00	144.0	118	204	178	4.5	
DN	25	29.00 × 1.50	29.5	60	77.0	59	53.0	17.50	161.0	125	230	194	5.0	
DN	32	35.00 × 1.50	36.0	60	77.0	59	53.0	20.00	165.0	130	240	204	6.5	
DN	40	41.00 × 1.50	52.0	90	104.0	140	71.0	26.00	254.0	141	290	210	11.5	
DN	50	53.00 × 1.50	58.0	90	104.0	140	71.0	31.00	260.0	147	300	225	14.0	
DN	65	70.00 × 2.00	78.0	125	169.5	180	104.0	39.00	280.0	191	330	295	18.0	
DN	80	85.00 × 2.00	90.0	125	169.5	180	104.0	46.00	287.5	199	408	310	20.0	
DN	100	104.00 00	110.0	125	169.5	180	104.0	56.10	305.0	218	451	350	28.0	
OD	½"	12.70 × 1.65	12.5	50	50.0	59	40.0	8.80	131.0	114	177	160	2.0	
OD	¾"	19.05 × 1.65	18.5	50	50.0	59	40.0	11.63	134.0	118	187	171	4.0	
OD	1"	25.40 × 1.65	25.4	55	65.0	59	47.0	15.95	145.0	118	203	181	4.5	
OD	1 ½"	38.10 × 1.65	51.0	90	104.0	140	71.0	23.60	253.0	139	290	210	8.5	
OD	2"	50.80 × 1.65	57.0	90	104.0	140	71.0	30.25	259.0	146	300	225	11.0	
OD	2 ½"	63.50 × 1.65	76.0	125	169.5	180	104.0	36.90	277.0	188	330	290	12.0	
OD	3"	76.20 × 1.65	82.0	125	169.5	180	104.0	42.55	283.5	195	400	310	21.0	
OD	4"	101.60 11	109.0	125	169.5	180	104.0	54.80	303.0	217	446	350	24.5	
ISO	13.5	13.50 × 1.60	13.5	50	50.0	59	40.0	8.35	131.0	114	177	160	2.0	
ISO	17.2	17.20 × 1.60	16.5	50	50.0	59	40.0	10.50	133.0	116	187	170	2.5	
ISO	21.3	21.30 × 1.60	21.0	55	65.0	59	47.0	12.95	143.0	118	203	178	3.0	
ISO	26.9	26.90 × 1.60	27.0	55	62.0	59	47.5	16.15	146.0	122	210	186	5.0	
ISO	33.7	33.70 × 2.00	33.0	60	75.0	59	53.0	20.15	163.0	126	239	202	6.5	
ISO	42.4	42.40 × 2.00	52.0	90	104.0	140	71.0	25.80	254.0	141	290	210	11.5	
ISO	48.3	48.30 × 2.00	55.0	90	104.0	140	71.0	28.85	257.0	144	300	220	9.5	
ISO	60.3	60.30 × 2.00	64.0	90	129.0	140	83.5	33.85	263.0	150	305	230	14.0	
ISO	76.1	76.10 × 2.00	82.0	125	169.5	180	104.0	42.15	283.0	194	407	310	19.5	
ISO	88.9	88.90 × 2.30	92.0	125	169.5	180	104.0	47.75	289.0	200	413	340	23.0	
ISO	114.3	114.30 30	118.0	125	169.5	180	104.0	64.10	310.0	223	495	360	28.0	

Position	Description of order code						
1	Valve type						
	H	GEA VESTA® Shut-off valve					
2	Housing combinations						
	L	T	B	C	E	I	(-) Without housing
3	Supplement to the valve type						
	A	Hermetic sealing					
4	Type of hermetic sealing						
	/P	PTFE bellow					
5/6	Nominal diameter (upper housing/lower housing)						
	DN 10	OD ½"		ISO 13.5			
	DN 15	OD ¾"		ISO 17.2			
	DN 20	OD 1"		ISO 21.3			
	DN 25	OD 1 ½"		ISO 26.9			
	DN 32	OD 2"		ISO 33.7			
	DN 40	OD 2 ½"		ISO 42.4			
	DN 50	OD 3"		ISO 48.3			
	DN 65	OD 4"		ISO 60.3			
	DN 80			ISO 76.1			
	DN 100			ISO 88.9			
				ISO 114.3			
7	Actuator type						
	P	Pneumatic actuator (plastic)					
	M	Pneumatic actuator (stainless steel)					
	H	Manual actuator (plastic)					
8	Fail-safe position						
	Z	Air-to-open/spring-to-close (NC) and manual actuator					
	A	Air-to-close/spring-to-open (NO)					
	J	Air-to-open/air-to-close (AA) ¹⁾					
9	Surface quality						
	1	Inner surface R _a ≤ 0.8 µm, untreated welding seam, electrochemical cleaned					
	2	Inner surface R _a ≤ 0.4 µm, grinded welding seam, e-polished					
	3	Inner surface R _a ≤ 0.6 µm, untreated welding seam, e-polished					
10	Connection fittings						
	N	Weld ends					
	J	With connection fittings					
11	Identification						
	52	Adhesive ID tag					
12	Certificates ²⁾						
	0	Without					
	Z	Certificate acc. to EN 10204 – 3.1					
	W	Certificate acc. to EN 10204 – 2.2					
	F	Delta ferrite measurement					
	O	Surface measurement protocol					
	K	FDA					
	U	USP Class VI					
13	Options ³⁾						
	0	Without					
+							
14–20	Control and feedback system ³⁾						
	000	Visual monitoring					

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4		5/6		7	8		10	11	11	12	13		14–20
Code	H		A	/P	-	/	-		-				52			-	0000



Housing combinations



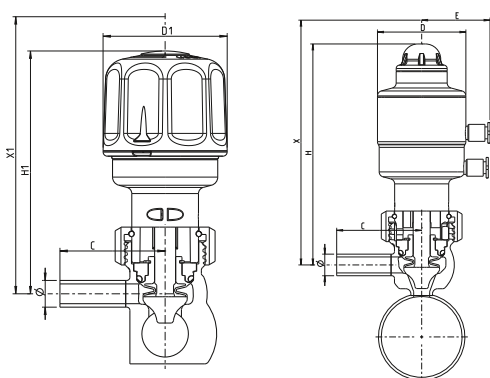
C



C¹⁾



E



Technical data of the standard version

Material in contact with product	Housing 1.4435
Material not in contact with product	Actuator 1.4301/Plastic PPSGV40
Seal material in contact with product	PTFE
Product pressure	10 bar
Air supply pressure	NC 6 bar, NO 5 bar, AA 4 bar
External housing surface	$R_a \leq 1.6 \mu\text{m}$ metallic polished
Surface in contact with product	$R_a \leq 0.8 \mu\text{m}$, untreated welding seam $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
Control and feedback system	Visual monitoring (standard)
Connection fittings	Acc. to DIN 11866
Identification	Adhesive ID tag

		Pipe	Housing	Actuator					Dimension		Valve
Nominal diameter		Ø [mm]	C [mm]	D [mm]	D1 [mm]	E [mm]	H [mm]	H1 [mm]	Removal X [mm]	Removal X1 [mm]	Stroke S [mm]
DN	10	13.00 × 1.50	50	50.0	59	40.0	131.0	114	177	160	2.0
DN	15	19.00 × 1.50	50	50.0	59	40.0	134.0	118	187	171	4.0
DN	20	23.00 × 1.50	55	65.0	59	47.0	144.0	118	204	178	4.5
DN	25	29.00 × 1.50	60	77.0	59	53.0	161.0	125	230	194	5.0
DN	32	35.00 × 1.50	60	77.0	59	53.0	165.0	130	240	204	6.5
DN	40	41.00 × 1.50	90	104.0	140	71.0	254.0	141	290	210	11.5
DN	50	53.00 × 1.50	90	104.0	140	71.0	260.0	147	300	225	14.0
DN	65	70.00 × 2.00	125	169.5	180	104.0	280.0	191	330	295	18.0
DN	80	85.00 × 2.00	125	169.5	180	104.0	287.5	199	408	310	20.0
DN	100	104.00 00	125	169.5	180	104.0	305.0	218	451	350	28.0
OD	½"	12.70 × 1.65	50	50.0	59	40.0	131.0	114	177	160	2.0
OD	¾"	19.05 × 1.65	50	50.0	59	40.0	134.0	118	187	171	4.0
OD	1"	25.40 × 1.65	55	65.0	59	47.0	145.0	118	203	181	4.5
OD	1 ½"	38.10 × 1.65	90	104.0	140	71.0	253.0	139	290	210	8.5
OD	2"	50.80 × 1.65	90	104.0	140	71.0	259.0	146	300	225	11.0
OD	2 ½"	63.50 × 1.65	125	169.5	180	104.0	277.0	188	330	290	12.0
OD	3"	76.20 × 1.65	125	169.5	180	104.0	283.5	195	400	310	21.0
OD	4"	101.60 11	125	169.5	180	104.0	303.0	217	446	350	24.5
ISO	13.5	13.50 × 1.60	50	50.0	59	40.0	131.0	114	177	160	2.0
ISO	17.2	17.20 × 1.60	50	50.0	59	40.0	133.0	116	187	170	2.5
ISO	21.3	21.30 × 1.60	55	65.0	59	47.0	143.0	118	203	178	3.0
ISO	26.9	26.90 × 1.60	55	62.0	59	47.5	146.0	122	210	186	5.0
ISO	33.7	33.70 × 2.00	60	75.0	59	53.0	163.0	126	239	202	6.5
ISO	42.4	42.40 × 2.00	90	104.0	140	71.0	254.0	141	290	210	11.5
ISO	48.3	48.30 × 2.00	90	104.0	140	71.0	257.0	144	300	220	9.5
ISO	60.3	60.30 × 2.00	90	129.0	140	83.5	263.0	150	305	230	14.0
ISO	76.1	76.10 × 2.00	125	169.5	180	104.0	283.0	194	407	310	19.5
ISO	88.9	88.90 × 2.30	125	169.5	180	104.0	289.0	200	413	340	23.0
ISO	114.3	114.30 30	125	169.5	180	104.0	310.0	223	495	360	28.0

More dimensions for mix matched executions on request

Position	Description of order code		
1	Valve type		
	H	GEA VESTA® Shut-off valve (mix matched)	
2	Housing combinations		
	C	C ¹⁾	E (-) Without housing
3	Supplement to the valve type		
	A	Hermetic sealing	
4	Type of hermetic sealing		
	/P	PTFE bellow	
5/6	Nominal diameter (upper housing/lower housing)		
	DN 10	OD ½"	ISO 13.5
	DN 15	OD ¾"	ISO 17.2
	DN 20	OD 1"	ISO 21.3
	DN 25	OD 1 ½"	ISO 26.9
	DN 32	OD 2"	ISO 33.7
	DN 40	OD 2 ½"	ISO 42.4
	DN 50	OD 3"	ISO 48.3
	DN 65	OD 4"	ISO 60.3
	DN 80		ISO 76.1
	DN 100		ISO 88.9
			ISO 114.3
7	Actuator type		
	P	Pneumatic actuator (plastic)	
	M	Pneumatic actuator (stainless steel)	
	H	Manual actuator (plastic)	
8	Fail-safe position		
	Z	Air-to-open/spring-to-close (NC) and manual actuator	
	A	Air-to-close/spring-to-open (NO)	
	J	Air-to-open/air-to-close (AA) ²⁾	
9	Surface quality		
	1	Inner surface R _a ≤ 0.8 µm, untreated welding seam, electrochemical cleaned	
	2	Inner surface R _a ≤ 0.4 µm, grinded welding seam, e-polished	
	3	Inner surface R _a ≤ 0.6 µm, untreated welding seam, e-polished	
10	Connection fittings		
	N	Weld ends	
	J	With connection fittings	
11	Identification		
	52	Adhesive ID tag	
12	Certificates ³⁾		
	0	Without	
	Z	Certificate acc. to EN 10204 – 3.1	
	W	Certificate acc. to EN 10204 – 2.2	
	F	Delta ferrite measurement	
	O	Surface measurement protocol	
	K	FDA	
	U	USP Class VI	
13	Options ⁴⁾		
	0	Without	
+			
14–20	Control and feedback system ⁴⁾		
	000	Visual monitoring	

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4		5/6		7	8		10	11	11	12	13		14–20
Code	H		A	/P	-	/	-		-				52		-		0000

GEA VESTA® Tank Bottom Valves

GEA VESTA® Tank bottom valves are used for the controlled shut-off of liquid media at vessels. The positioning primarily takes place at the lowest point of a vessel, although the valve is also fully drainable when installed horizontally. It is characterized by its flush-mounted design, eliminating the possibility of any sump. The dead-space-free design offers the complete emptying of the vessel and optimum CIP/SIP cleaning. The robust design of the housing (respectively the housing connection flange) enables the seamless integration into processes. Due to its remarkably compact design, GEA VESTA® Tank Bottom valves can also be used in tight space conditions.



GEA VESTA® Tank Bottom valve
with one-piece housing



GEA VESTA® Tank Bottom valve
with loose flange



Housing connection flange
(Only available for type H_A/T/
F)

Housing

Housings for GEA VESTA® Tank bottom valves are available with two or three process connections. The housings are produced from one solid piece of stainless steel. The two options available are one-piece housing and flange combined or housing with loose flange. The loose flange execution consists of two parts which are connected to each other with four screws, and these are safely sealed with an additional o-ring.

Internal assembly

PTFE bellows for GEA VESTA® Tank bottom valves are executed with a flat seat area for all valve sizes. They distinguish themselves from other GEA VESTA® Valve types by their extended cone in the seat area.

Actuator

The actuator can be executed pneumatically or manually. The manual version is made of plastic in all cases. Pneumatic actuators are available in plastic or stainless steel, and the fail-safe (normally close or normally open) position can be easily reversed.

Control and feedback system

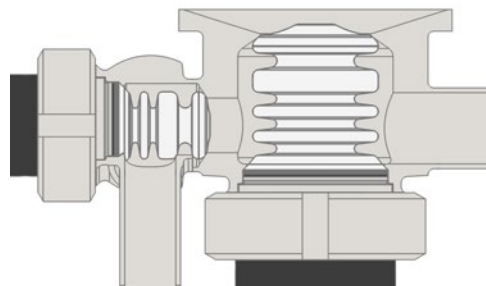
Pneumatic actuators include a visual valve status indicator by default. Alternatively, visual indicators can be replaced by an open feedback unit or, by using the adequate adaptor plate, with a T.VIS® control and feedback system in various executions.

GEA VESTA® Tank Bottom Valves with CIP/SIP side valve

GEA VESTA® Tank bottom valves can be executed with an additional side valve. This option impresses with its compact design and ideal cleanability, which significantly contributes to process optimization. The side valve can be used for CIP/SIP supply as well as for drainage. The improved drainability are further advantages compared to conventional solutions.



GEA VESTA® Tank Bottom valve
with CIP/SIP side valve



Sectional view of
GEA VESTA® Tank Bottom
valve with CIP/SIP side valve

Housing

The valve seat of the side valve is directly integrated into the side wall of the tank bottom housing. Therefore, the additional lateral entry can be sealed free of dead space. All options available for the regular GEA VESTA® Tank bottom valves are also applicable with this solution.

Internal assembly

The PTFE bellow for the side valve is always executed with a flat seat area, and due to the housing depth the seat area has an extended cone. In total, the bellow is therefore slightly longer than bellows for GEA VESTA® Shut-off valves and valve blocks.

Actuator and feedback system

All options of the GEA VESTA® Valve line in terms of actuation and control are also available for the side valve. Therefore, GEA VESTA® Tank bottom valves with a side valve can ideally be adapted to process conditions.

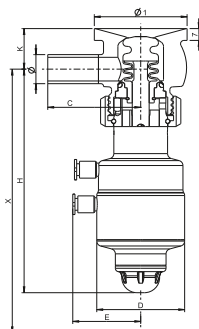
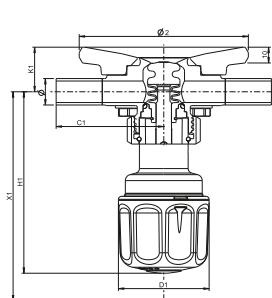


Housing combinations



L

T



Technical data of the standard version

Material in contact with product	Housing 1.4435
Material not in contact with product	Actuator 1.4301/Plastic PPSGV40
Seal material in contact with product	PTFE
Product pressure	6 bar
Air supply pressure	NC 6 bar, NO 5 bar, AA 4 bar
External housing surface	$R_a \leq 1.6 \mu\text{m}$ metallic polished
Surface in contact with product	$R_a \leq 0.8 \mu\text{m}$, untreated welding seam $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
Control and feedback system	Visual monitoring (standard)
Connection fittings	Weld ends acc. to DIN 11866
Identification	Adhesive ID tag

		Pipe		Flange		Housing		Actuator			Dimension						Valve
Nominal diameter		Ø [mm]		Ø1 [mm]	Ø2 [mm]	C [mm]	C1 [mm]	D [mm]	D1 [mm]	E [mm]	H [mm]	H1 [mm]	K [mm]	K1 [mm]	Removal X [mm]	Removal X1 [mm]	Stroke S [mm]
DN	10	13.00		54.9	110	55	70	50	59	40	131	114	26	31	177	162	3.5
DN	15	19.00		54.9	110	55	70	50	59	40	134	118	23	28	180	165	3.5
DN	20	23.00		79.9	130	65	85	65	59	47	144	118	29	34	201	176	4.5
DN	25	29.00	50	84.9	130	70	85	77	59	53	161	125	35	37	227	190	5.5
DN	32	35.00	50	84.9	130	70	85	77	59	53	163	130	35	37	230	193	5.5
DN	40	41.00		138.0	187	90	90	104	140	71	254	141	81	83	376	264	13.5
DN	50	53.00		138.0	187	90	90	104	140	71	260	147	75	77	382	270	13.5
DN	65	70.00		178.0	237	125	125	170	180	104	280	191	116	118	462	273	22.0
DN	80	85.00		178.0	237	125	125	170	180	104	287	199	109	111	469	281	22.0
DN	100	104.00	00	198.0	267	125	125	210	180	124	305	218	123	125	515	428	28.0
OD	½"	12.70		54.9	110	55	71	50	59	40	131	114	26	31	177	143	3.5
OD	¾"	19.05		54.9	110	55	70	50	59	40	134	118	23	28	187	146	3.5
OD	1"	25.40		79.9	130	65	83	65	59	47	145	118	28	33	208	157	4.5
OD	1 ½"	38.10		138.0	187	90	90	104	140	71	253	139	83	85	375	262	13.5
OD	2"	50.80		138.0	187	90	90	104	140	71	259	146	76	78	381	269	13.5
OD	2 ½"	63.50		178.0	237	125	125	170	140	104	277	118	119	121	459	370	22.0
OD	3"	76.20		178.0	237	125	125	170	180	104	283	195	113	115	465	377	22.0
OD	4"	101.60	11	198.0	267	125	125	210	180	124	304	217	124	126	513	427	28.0
ISO	13.5	13.50		54.9	110	57	71	50	59	40	131	114	26	31	177	143	3.5
ISO	17.2	17.20	60	54.9	110	55	70	50	59	40	133	116	24	29	187	145	3.5
ISO	21.3	21.30		79.9	130	67	83	65	59	47	143	118	30	35	203	155	4.5
ISO	26.9	26.90		79.9	130	66	82	65	59	47	146	122	27	32	210	158	4.5
ISO	33.7	33.70		84.9	130	68	84	77	59	53	163	126	33	35	239	175	5.5
ISO	42.4	42.40		138.0	187	90	90	104	140	71	254	141	81	83	376	264	13.5
ISO	48.3	48.30		138.0	187	90	90	104	140	71	257	144	87	80	379	267	13.5
ISO	60.3	60.30		178.0	237	125	125	170	140	104	275	150	121	123	457	368	22.0
ISO	76.1	76.10		178.0	237	125	125	170	180	104	283	194	113	115	465	376	22.0
ISO	88.9	88.90		178.0	237	125	125	170	180	104	289	200	107	109	471	382	22.0
ISO	114.3	114.30 × 2.30		198.0	267	125	125	210	180	124	310	223	119	120	519	433	28.0

Position	Description of order code	
1	Valve type	
	H	GEA VESTA® Tank Bottom valve
2	Housing combinations ¹⁾	
	L	T (-) Without housing
3	Supplement to the valve type	
	A	Hermetic sealing
4	Supplement to the housing execution	
	/T	Weld-in
	/T/F	Flange-on
5	Type of hermetic sealing	
	/P	PTFE bellow
6	Nominal diameter (upper housing/lower housing)	
	DN 10	OD 1 ½" ISO 13.5
	DN 15	OD ¾" ISO 17.2
	DN 20	OD 1" ISO 21.3
	DN 25	OD 1 ½" ISO 26.9
	DN 32	OD 2" ISO 33.7
	DN 40	OD 2 ½" ISO 42.4
	DN 50	OD 3" ISO 48.3
	DN 65	OD 4" ISO 60.3
	DN 80	ISO 88.9
	DN 100	ISO 114.3
7	Actuator type	
	P	Pneumatic actuator (plastic)
	M	Pneumatic actuator (stainless steel)
	H	Manual actuator (plastic)
8	Fail-safe position	
	Z	Air-to-open/spring-to-close (NC) and manual actuator
	A	Air-to-close/spring-to-open (NO)
	J	Air-to-open/air-to-close (AA) ²⁾
9	Surface quality	
	1	Inner surface R _a ≤ 0.8 µm, untreated welding seam, electrochemical cleaned
	2	Inner surface R _a ≤ 0.4 µm, grinded welding seam, e-polished
	3	Inner surface R _a ≤ 0.6 µm, untreated welding seam, e-polished
10	Connection fittings	
	N	Weld ends
	J	With connection fittings
11	Identification	
	52	Adhesive ID tag
12	Certificates ³⁾	
	0	Without
	Z	Certificate acc. to EN 10204 – 3.1
	W	Certificate acc. to EN 10204 – 2.2
	F	Delta ferrite measurement
	O	Surface measurement protocol
	K	FDA
	U	USP Class VI
13	Options ⁴⁾	
	0	Without
+		
14–20	Control and feedback system ⁴⁾	
	000	Visual monitoring

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14–20
Code	H		A		/P	-	-		-			52		-	0000

Housing combinations

L



Position	Description of order code		
1	Valve type		
	H	GEA VESTA® Tank bottom valve (main valve)	
2	Housing combinations ¹⁾		
	L	(-) Without housing	
3	Supplement to the valve type		
	A	Hermetic sealing	
4	Supplement to the housing execution		
	/T	Weld-in	
	/T/F	Flange-on	
5	Type of hermetic sealing		
	/P	PTFE bellow	
6	Nominal diameter		
	DN 10	OD 1 ½"	ISO 13.5
	DN 15	OD ¾"	ISO 17.2
	DN 20	OD 1"	ISO 21.3
	DN 25	OD 1 ½"	ISO 26.9
	DN 32	OD 2"	ISO 33.7
	DN 40	OD 2 ½"	ISO 42.4
	DN 50	OD 3"	ISO 48.3
	DN 65	OD 4"	ISO 60.3
	DN 80		ISO 88.9
	DN 100		ISO 114.3
7	Actuator type		
	P	Pneumatic actuator (plastic)	
	M	Pneumatic actuator (stainless steel)	
	H	Manual actuator (plastic)	
8	Fail-safe position		
	Z	Air-to-open/spring-to-close (NC) and manual actuator	
	A	Air-to-close/spring-to-open (NO)	
	J	Air-to-open/air-to-close (AA) ²⁾	
9	Surface quality		
	1	Inner surface R _a ≤ 0.8 µm, untreated welding seam, electrochemical cleaned	
	2	Inner surface R _a ≤ 0.4 µm, grinded welding seam, e-polished	
	3	Inner surface R _a ≤ 0.6 µm, untreated welding seam, e-polished	
10	Connection fittings		
	N	Weld ends	
	J	With connection fittings	
11	Identification		
	52	Adhesive ID tag	
12	Certificates ³⁾		
	0	Without	
	Z	Certificate acc. to EN 10204 – 3.1	
	W	Certificate acc. to EN 10204 – 2.2	
	F	Delta ferrite measurement	
	O	Surface measurement protocol	
	K	FDA	
	U	USP Class VI	
13	Options ⁴⁾		
	0	Without	
	/37	Pressure stage 10 bar	
14–20	Control and feedback system ⁴⁾		
	000	Visual monitoring	

Position	Description of order code	
22	Valve type	
	VR	GEA VESTA® Tank bottom valve (side valve ⁵⁾)
22	Type of hermetic sealing	
	/P	PTFE bellow
23	Nominal diameter (upper housing/lower housing)	
	DN 10	OD 1 ½" ISO 13.5
	DN 15	OD ¾" ISO 17.2
	DN 20	OD 1" ISO 21.3
	DN 25	ISO 26.9
24	Actuator type	
	P	Pneumatic actuator (plastic)
	M	Pneumatic actuator (stainless steel)
	H	Manual actuator (plastic)
25	Fail-safe position	
	Z	Air-to-open/spring-to-close (NC) and manual actuator
	A	Air-to-close/spring-to-open (NO)
	J	Air-to-open/air-to-close (AA) ²⁾
26	Pipe position ⁶⁾	
	1	45° right
	2	45° left
	3	Special execution
27	Identification	
	52	Adhesive ID tag
28	Certificates ³⁾	
	0	Without
	Z	Certificate acc. to EN 10204 – 3.1
	W	Certificate acc. to EN 10204 – 2.2
	F	Delta ferrite measurement
	O	Surface measurement protocol
	K	FDA
	U	USP Class VI
+		
14–20	Control and feedback system ⁴⁾	
	000	Visual monitoring

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14–20
Code	H		A		/P	-	-		-			52		-	0000

GEA VESTA® Tank Bottom
valve+

Position	21	22	23	24	25	26	27	28	14–20
Code	VR	/P	-	-	P		52	-	0000

GEA VESTA® Sampling Valves

GEA VESTA® Sampling valves are used for sampling from product pipelines or vessels. GEA VESTA® Sampling valves impress with their modular structure as well as their dead-space-free and compact design. Furthermore, the optimized flow design offers an ideal basis for efficient CIP/SIP processes.



Housing

Housings for GEA VESTA® Sampling valves can either be executed with a housing connection flange or with a GEA VARINLINE® transfer housing. On the extraction side, valve housings with one (execution L) or two (execution T) connection ports are available. The connection ports on the extraction side are available in three different pipe classes and two nominal diameters each:

Pipe class		Available sizes
DIN	Pipe class DIN 11866, series A	DN 10/DN 15
OD	Pipe class ASME BPE, series C	OD 0.5"/ OD 0.75"
ISO	Pipe class DIN EN ISO 1127, series B	DN 10/DN 15

The housing connection flange is used for the flush-mounted, dead-space-free adaption of GEA VESTA® Sampling valves in the vessel wall or in the dished vessel end. The T-flange is used

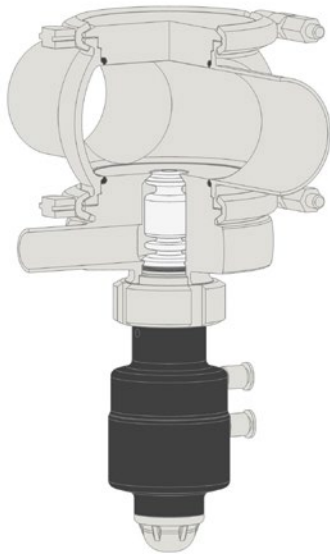
for installations in dished vessel ends with up to 8 mm wall thickness. The U-flange is designed for installations in vessel walls and for any wall thickness greater than 8 mm. Process integration via a GEA VARINLINE® housing can be achieved with process connections of different sizes; the housing for the process line is always designed for media transfer.

Internal assembly

The PTFE bellows for GEA VESTA® Sampling valves distinguish themselves from others by an extended cylindrical section in the seat area. Furthermore they always have a flat end towards the product pipeline.

Actuator

The actuator can be executed pneumatically or manually. The manual version is made of plastic in all cases. Pneumatic actuators are available in plastic or stainless steel, and the fail-safe (normally close or normally open) position can be easily reversed.



Sectional view of **GEA VESTA®** Sampling valve execution L with GEA VARINLINE® housing



- 1 Dome- and sump-free sealing of locking plate
- 2 Housing lock for the adaption of various instruments
- 3 Quick and accurate mounting with clamp
- 4 Various pipe fittings adaptable
- 5 Seamless sealing acc. to VARIVENT® principle
- 6 Defined o-ring swaging by metallic stop
- 7 Connection flange independent from nominal diameter and size of extraction port
- 8 Various pipe sizes in DIN, OD, ISO and IPS

Control and feedback system

Pneumatic actuators include a visual valve status indicator by default. Alternatively, visual indicators can be replaced by an open feedback unit or, by using the adequate adaptor plate, with a T.VIS® control and feedback system in various executions.

Adaption to GEA VARINLINE® housing

Available process connections:

Process connection	Available sizes
F DN 25	DN 25 /OD 1" / ISO 33.7
N DN 50/40	DN 40–150 / OD 1 ½" – 6" / ISO 42.4–114.3

The GEA VARINLINE® housing and its application

The GEA VARINLINE® housing is the universal link between measuring, control or monitoring devices and the process installation. The consequent use of GEA VARINLINE® housings provides the following advantages:

- A GEA VARINLINE® housing is available with up to two process connections. This enables the integration of two instruments or, respectively, valves in the same housing
- The targeted positioning of GEA VARINLINE® housings at critical points in a processing plant enables the retrofit of various instruments without additional welding work.
- GEA VARINLINE® housings can be used as sight glasses by applying locking plates made of glass.

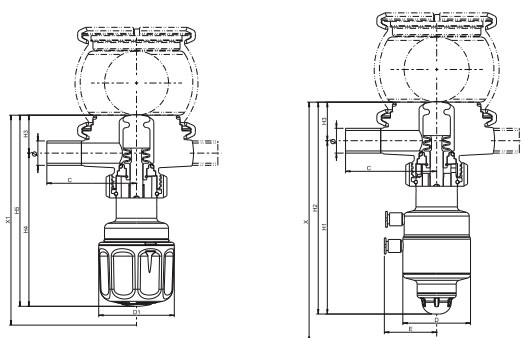


Housing combinations



L

T



Technical data of the standard version

Material in contact with product	Housing 1.4435
Material not in contact with product	Actuator 1.4301/Plastic PPSGV40
Seal material in contact with product	PTFE
Product pressure	10 bar
Air supply pressure	NC 6 bar, NO 5 bar, AA 4 bar
External housing surface	$R_a \leq 1.6 \mu\text{m}$ metallic polished
Surface in contact with product	$R_a \leq 0.8 \mu\text{m}$, untreated welding seam $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
Control and feedback system	Visual monitoring (standard)
Connection fittings	Acc. to DIN 11866
Identification	Adhesive ID tag

		Pipe	Housing	Actuator				Dimensions					
Nominal diameter		$\emptyset$ [mm]	C [mm]	D [mm]	D1 [mm]	E [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Removal X [kg]	Removal X1 [kg]
DN 10	13.00 × 1.50	13.00 × 1.50	60	50	59	40	130	163	29.5	113	146	187	198
DN 15	19.00 × 1.50	19.00 × 1.50	60	50	59	40	133	163	32.5	116	146	197	208
OD ½"	12.70 × 1.65	12.70 × 1.65	60	50	59	40	130	163	29.5	113	146	187	198
OD ¾"	19.05 × 1.65	19.05 × 1.65	60	50	59	40	133	163	32.5	116	146	197	208
ISO 13.5	13.50	13.50	60	50	59	40	130	163	29.5	113	146	187	198
ISO 17.2	17.20	17.20	60	50	59	40	133	163	32.5	116	146	197	208

Position	Description of order code	
1	Valve type	
	H	GEA VESTA® Sampling valve
2	Housing combinations	
	L	T (-) Without housing
3	Supplement to the valve type	
	A	Hermetic sealing
4	Supplement to the housing execution	
	/I/F	For nominal diameters DN 25/32, ISO 33.7
	/I/N	For nominal diameters DN 40/50, ISO 42.5/48.3/60.3, OD 1 ½"/2"
	/I/S	For nominal diameters DN 65/80, OD 2.5"/3"
5	Type of hermetic sealing	
	/P	PTFE bellow
6	Nominal diameter (upper housing/lower housing)	
	DN 10	OD ½" ISO 13.5
	DN 15	OD ¾" ISO 17.2
	DN 25	OD 1" ISO 26.9
7	Actuator type	
	P	Pneumatic actuator (plastic)
	M	Pneumatic actuator (stainless steel)
	H	Manual actuator (plastic)
8	Fail-safe position	
	Z	Air-to-open/spring-to-close (NC) and manual actuator
	A	Air-to-close/spring-to-open (NO)
9	Surface quality	
	1	Inner surface $R_a \leq 0.8 \mu\text{m}$, untreated welding seam, electrochemical cleaned
	2	Inner surface $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
	3	Inner surface $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished
10	Connection fittings	
	N	Weld ends
	J	With connection fittings
11	Identification	
	52	Adhesive ID tag
12	Certificates ¹⁾	
	0	Without
	Z	Certificate acc. to EN 10204 – 3.1
	W	Certificate acc. to EN 10204 – 2.2
	F	Delta ferrite measurement
	O	Surface measurement protocol
	K	FDA
	U	USP Class VI
13	Options ²⁾	
	0	Without
	/37	Pressure stage 10 bar
+		
14–20	Control and feedback system ²⁾	
	000	Visual monitoring

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14–20
Code	H		A	-	/P		-		-			52		-	0000

GEA VESTA® Valve Blocks



GEA VESTA® Valve
Block type HWA

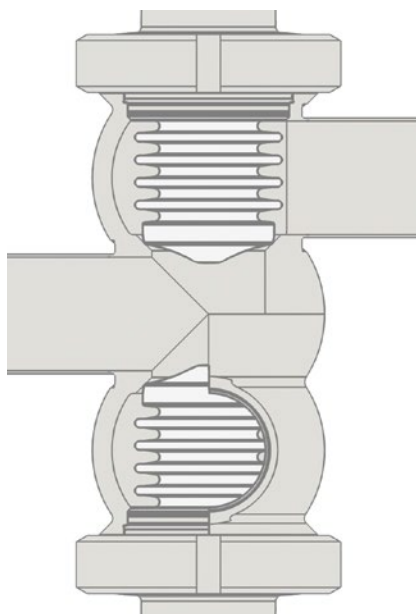
GEA VESTA® Valve Blocks are compact and versatile sterile valves with two independent actuators. The concept of the singlepiece housing enables merging, separating or diverting of product flow in tight space conditions.



GEA VESTA® Valve
Block type HXA

GEA VESTA® Valve Blocks offer optimized piping by simultaneously reducing dead spaces. The significantly reduced pipe volume and the improved drainability are other characteristic features. In contrast to concepts with individual valves, solutions with GEA VESTA® Valve Blocks reduce the required quantity of fittings and therefore also contribute to economical installation concepts.

With GEA VESTA® Valve Blocks a number of various applications can be achieved either as an individual valve block or with multiple valve blocks for complex product distribution tasks.



Sectional view of **GEA VESTA®** Valve
Block type HWA

Housing

GEA VESTA® Valve Blocks are available with three (type HWA) or four (type HXA) connection ports by default. With the type HXA the intermediate chamber is executed for media transfer. The single-piece housing includes three sections and is produced from one solid piece. Further housing configurations are available upon request.

Internal assembly

The PTFE bellows are identical with those for GEA VESTA® Shut-off valves. Bellows up to DN25, OD 1" and ISO 33.7 include a tapered tip. All other valve dimensions include a regular flat seat area.

Actuator

Both actuators can be executed pneumatically or manually. The manual version is made of plastic in all cases. Pneumatic actuators are available in plastic or stainless steel, and the fail-safe (normally close or normally open) position can be easily reversed. Differential configurations of the two actuators are possible.

Control and feedback system

Pneumatic actuators include a visual valve status indicator by default. Alternatively, visual indicators can be replaced by an open feedback unit or by using the adequate adaptor plate with a T.VIS® control and feedback system in various executions.



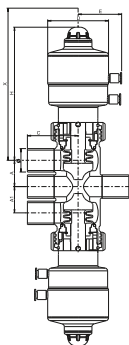
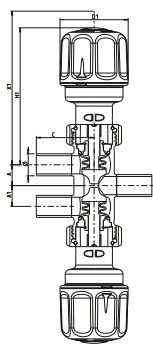
Housing combinations



W



X



Technical data of the standard version

Material in contact with product	Housing 1.4435
Material not in contact with product	Actuator 1.4301/Plastic PPSGV40
Seal material in contact with product	PTFE
Product pressure	10 bar
Air supply pressure	NC 6 bar, NO 5 bar, AA 4 bar
External housing surface	$R_a \leq 1.6 \mu\text{m}$ metallic polished
Surface in contact with product	$R_a \leq 0.8 \mu\text{m}$, untreated welding seam $R_a \leq 0.6 \mu\text{m}$, untreated welding seam, e-polished $R_a \leq 0.4 \mu\text{m}$, grinded welding seam, e-polished
Control and feedback system	Visual monitoring (standard)
Connection fittings	Weld ends acc. to DIN 11866
Identification	Adhesive ID tag

		Pipe	Housing			Actuator			Dimension				Valve
Nominal diameter		$\varnothing$ [mm]	A [mm]	A1 [mm]	C [mm]	E [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	Removal X [mm]	Removal X1 [mm]	Stroke S [mm]
DN 10	10	13.00	17.40	13.00	50	40.0	50.0	59	131.0	114.0	177	160	2.0
DN 15	15	19.00	18.30	18.30	50	40.0	50.0	59	134.0	118.0	187	171	4.0
DN 20	20	23.00	23.60	23.60	55	47.0	65.0	59	144.0	118.0	204	178	4.5
DN 25	25	29.00	29.50	29.50	60	53.0	77.0	59	161.0	125.0	230	194	5.0
DN 32	32	35.00	36.00	36.00	60	53.0	77.0	59	165.0	130.0	240	204	6.5
DN 40	40	41.00	52.00	52.00	90	71.0	104.0	140	254.0	141.0	290	210	11.5
DN 50	50	53.00	58.00	58.00	90	71.0	104.0	140	260.0	147.0	300	225	13.5
DN 65	65	70.00	78.00	78.00	125	170.0	169.0	180	280.0	191.0	330	295	18.0
DN 80	80	85.00	90.00	90.00	125	104.0	169.0	180	287.5	199.0	408	310	20.0
DN 100	100	104.00 00	110.00	110.00	125	104.0	169.0	180	305.0	218.0	451	350	28.0
OD ½"		12.70	17.80	11.80	50	40.0	50.0	59	131.0	114.0	177	160	2.0
OD ¾"		19.05	18.00	18.00	50	40.0	50.0	59	134.0	118.0	187	171	4.0
OD 1"		25.40	28.50	28.50	55	47.0	65.0	59	145.0	118.0	203	181	4.5
OD 1 ½"		38.10	51.00	51.00	90	71.0	104.0	140	253.0	139.0	290	210	8.5
OD 2"		50.80	57.00	57.00	90	71.0	104.0	140	259.0	146.0	300	225	11.0
OD 2 ½"		63.50	76.00	76.00	125	104.0	169.5	180	277.0	188.0	330	290	12.0
OD 3"		76.20	82.00	82.00	125	104.0	169.5	180	283.0	283.5	400	310	21.0
OD 4"		101.60 11	109.00	109.00	125	104.0	169.5	180	304.0	217.0	446	350	24.5
ISO 13.5		13.50	17.05	13.35	50	40.0	50.0	59	131.0	114	177	160	2.0
ISO 17.2		17.20	18.90	17.10	50	40.0	50.0	59	133.0	116	187	170	2.5
ISO 21.3		21.30	21.80	21.80	55	47.0	65.0	59	143.0	118	203	178	3.0
ISO 26.9		26.90	29.90	29.90	55	47.5	62.0	59	146.0	122	210	186	5.0
ISO 33.7		33.70	33.30	33.30	60	53.0	75.0	59	163.0	126	239	202	6.5
ISO 42.4		42.40	52.00	52.00	90	71.0	104.0	140	254.0	141	290	210	11.5
ISO 48.3		48.30	55.00	55.00	90	71.0	104.0	140	257.0	144	300	220	8.5
ISO 60.3		60.30	64.00	64.00	90	83.5	129.0	140	263.0	150	305	230	14.0
ISO 76.1		76.10	81.80	81.80	125	104.0	169.5	180	283.0	223	407	310	19.5
ISO 88.9		88.90	92.00	92.00	125	104.0	169.5	180	289.0	200	413	340	23.0
ISO 114.3		114.30 30	118.00	118.00	125	104.0	169.5	180	310.0	223	495	360	28.0

Position	Description of order code	
1	Valve type	
	H	GEA VESTA® Valve Block
2	Housing combinations	
	W	X (-) Without housing
3	Supplement to the valve type	
	A	Hermetic sealing
4	Type of hermetic sealing	
	/P	PTFE bellow
5/6	Nominal diameter (upper housing/lower housing)	
	DN 10	OD 1 ½" ISO 13.5
	DN 15	OD ¾" ISO 17.2
	DN 20	OD 1" ISO 21.3
	DN 25	OD 1 ½" ISO 26.9
	DN 32	OD 2" ISO 33.7
	DN 40	OD 2 ½" ISO 42.4
	DN 50	OD 3" ISO 48.3
	DN 65	OD 4" ISO 60.3
	DN 80	ISO 76.1
	DN 100	ISO 88.9
		ISO 114.3
7	Actuator type	
	P	Pneumatic actuator (plastic)
	M	Pneumatic actuator (stainless steel)
	H	Manual actuator (plastic)
8	Fail-safe position	
	Z	Air-to-open/spring-to-close (NC) and manual actuator
	A	Air-to-close/spring-to-open (NO)
	J	Air-to-open/air-to-close (AA) ¹⁾
9	Surface quality	
	1	Inner surface R _a ≤ 0.8 µm, untreated welding seam, electrochemical cleaned
	2	Inner surface R _a ≤ 0.4 µm, grinded welding seam, e-polished
	3	Inner surface R _a ≤ 0.6 µm, untreated welding seam, e-polished
10	Connection fittings	
	N	Weld ends
	J	With connection fittings
11	Identification	
	52	Adhesive ID tag
12	Certificates ²⁾	
	0	Without
	Z	Certificate acc. to EN 10204 – 3.1
	W	Certificate acc. to EN 10204 – 2.2
	F	Delta ferrite measurement
	O	Surface measurement protocol
	K	FDA
	U	USP Class VI
13	Options ⁴⁾	
	0	Without
	/37	Pressure stage 10 bar
+		
14-20	Control and feedback system ³⁾	
	000	Visual monitoring

The code is composed as follows, depending on the chosen configuration:

Position	1	2	3	4	5/6	7	8	9	10	11	12	13	14-20
Code	H		A	/P	-	-	-			52		-	0000

Handle

Description

The handle is used for manual operation of pneumatic GEA VESTA® Valves equipped with a stainless steel actuator. This option is used in case of power loss as well as maintenance and assembly work. The use of control and feedback systems in combination with this handle is not possible.



Technical data

Material	1.4301	
Item	Nominal diameter	Part number
Handle for stainless steel actuators	DN 10 – DN 20 OD 0.5"– OD 0.75" ISO 13.5 – ISO 21.3	221-003067
Handle for stainless steel actuators	DN 25 – DN 32 OD 1" ISO 26.9 – ISO 33.7	221-003068

Available for valve types

GEA VESTA® Shut-off Valves
GEA VESTA® Tank Bottom Valves
GEA VESTA® Valve Blocks
GEA VESTA® Sampling Valves

Integration of option into order code

Position	Description of Order Code														
13	/29 Handle														

Position	1	2	3	4		5/6		7	8		9	10	11	12	13		14-20
Code	H		A	/P	-	/	-			-					/29	+	000

Stroke Limiter

Description

The stroke of the valve can be regulated by means of an adjusting sleeve. The stroke limitation limits either the opening or closing stroke of the valve. It is screwed onto the pneumatic actuator during assembly and is equipped with a visual status indicator. The use of other control and feedback systems in combination with stroke limiters is not possible.

Technical data

Material	1.4301
Adjustment	Stroke OPEN / Stroke CLOSED

Item	Nominal diameter	Part number
Stroke Limiter OPEN	DN 10 – DN 32 OD 0.5"– OD 1" ISO 13.5 – ISO 33.7	221-001379
Stroke Limiter CLOSED	DN 10 – DN 32 OD 0.5"– OD 1" ISO 13.5 – ISO 33.7	221-001382
Stroke Limiter OPEN	DN 40 – DN 100 OD 1.5"– OD 4" ISO 42.4 – ISO 114.3	221-005206

Available for valve types

GEA VESTA® Shut-off Valves

GEA VESTA® Tank Bottom Valves

GEA VESTA® Valve Blocks

GEA VESTA® Sampling Valves



Integration of option into order code

Position	Description of Order Code
13	/20 Stroke Limiter OPEN
	/21 Stroke Limiter CLOSED

Position	1	2	3	4	5/6	7	8	9	10	11	12	13	14-20
Code	H		A	/P	-	/	-		-			/20	000

LoTo – Lock out, Tag out – Valves up to DN 32

Description

The LoTo device is used to increase safety in a processing plant during maintenance. This version here can be installed on valves from DN 10 to DN 32 and corresponding sizes of other piping standards. With a slight pressure on the cap, a positive connection to the handwheel is established and the valve can be closed / opened. The valves can only be locked in closed position.

Technical data

Material	PP-GF 30
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Available for valve types

GEA VESTA® Shut-off Valves

GEA VESTA® Tank Bottom Valves

GEA VESTA® Valve Blocks

GEA VESTA® Sampling Valves



Integration into the order code and example as retrofit kit

Position	Description of order code
1	AV LoTo
2	LoTo type
	BL BELLOW LOCK
3	Valve family
	GEA VESTA GEA VESTA® valves
4	Actuator type
	M Manual
5	Nominal width
	DN 10 – DN 32

Position	1		2		3		4		5
Code	AV LoTo	-		-		-		-	

Integration of option into order code and example for components

Position	Description of Order Code
13	/35 LockOut – TagOut

Position	1	2	3	4		5/6		7	8		9	10	11	12	13		14–20
Code	H		A	/P	-	/	-			-					/35	+	000

LoTo – Lock out, Tag out – Valves from DN 40

Description

The LoTo device is used to increase safety in a processing plant during maintenance. This version here can be installed on valves from DN 40 to DN 100 and corresponding sizes of other piping standards. There are two options available, one fitted to the manual GEA VESTA® Valves with stainless steel lantern and the other for valves with a plastic lantern. If GEA VESTA® Valves are already in use, a retrofit kit is available. The valves can be locked in any position.

Technical data

Material clamp sleeve	1.4305
Material clamp sleeve (plastic lantern)	1.4301
Material clamp sleeve (stainless steel lantern)	1.4305
Material cap	1.4301

Available for valve types

GEA VESTA® Shut-off Valves
GEA VESTA® Tank Bottom Valves
GEA VESTA® Valve Blocks



Integration into the order code and example as retrofit kit

Position	Description of order code
1	AV LoTo
2	LoTo type
	BL BELLOW LOCK
3	Valve family
	GEA VESTA GEA VESTA® valves
4	Actuator type
	M Manual
5	Nominal width
	DN 40 – DN 50
	DN 65 – DN 100
6	Lantern execution (only for DN 40 and DN 50)
	S Stainless steel
	P Plastic

Position	1	2	3	4	5	6
Code	AV LoTo	-	-	-	-	-

Integration of option into order code and example for components

Position	Description of Order Code
13	 /35 LockOut – TagOut

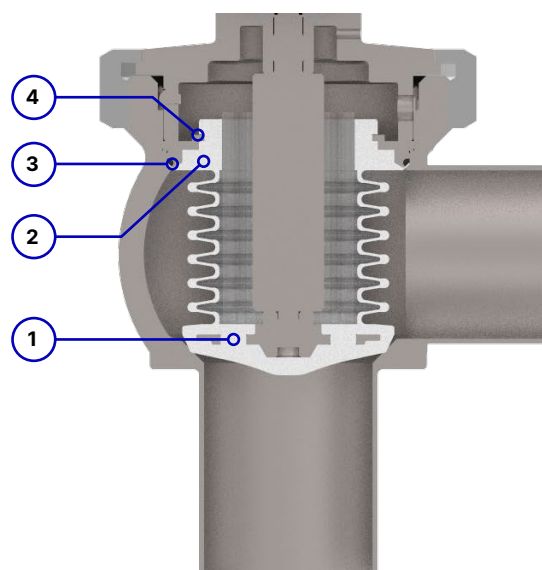
Position	1	2	3	4		5/6		7	8		9	10	11	12	13		14–20
Code	H		A	/P	-	/	-			-					/35	+	000

Bellow Units

Components of a PTFE bellow unit

The adjacent illustration of a GEA VESTA® Shut-off valve type H_A shows an example of the composition of a bellow unit for shut-off valves and valve blocks.

Essentially, a bellow unit includes all the wear parts of a valve that come into contact with the product, as well as the components required to replace the unit quickly. Information on maintenance can be found in the associated operating instructions.



Components of a PTFE bellow unit using the example of a GEA VESTA® Shut-off valve type H_A

- 1 Bellow
- 2 Pressure disk
- 3 O-Ring
- 4 Circlip

GEA VESTA® Shut-off valves and Valve blocks

Nominal diameter			PTFE/EPDM	
DN	OD	ISO	10 bar	10 bar, ATEX
10	1½"	13.5	221-004640	221-004640
15	¾"	–	221-004641	221-004641
–	–	17.2	221-001282	221-001282
20	–	21.3	221-001276	221-001276
–	1"	–	221-004642	221-004642
25	–	–	221-001277	221-001277
–	–	26.9	221-001284	221-001284
32	–	–	221-003216	221-003216
–	–	33.7	221-001285	221-001285
40	1 ½"	42.4	221-540.16	221-540.16
50	2"	48.3	221-547.17	221-547.60
–	–	60.3	221-547.31	–
65	2½"	–	221-540.18	221-547.61
–	3"	76.1	221-547.20	221-547.62
80	–	–	221-547.19	–
–	–	88.9	–	–
100	4"	–	221-547.21	221-547.63
–	–	114.3	221-547.33	–

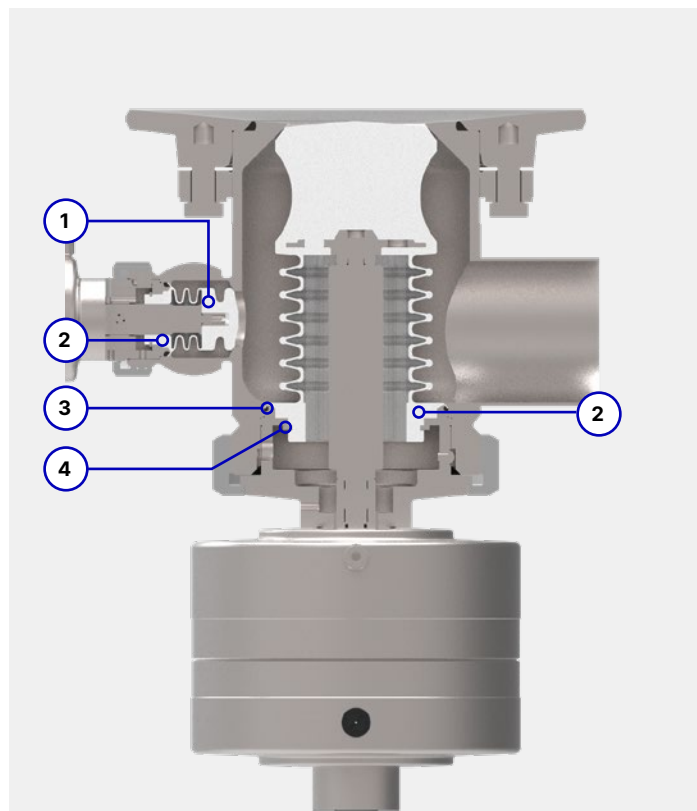
Bellow Units

Components of a PTFE bellow unit

The adjacent illustration of a GEA VESTA® Tank Bottom valve type H_A/T with lateral CIP/SIP application shows an example of the composition of a bellow unit for tank bottom valves. Essentially, a bellow unit includes all the wear parts of a valve that come into contact with the product, as well as the components required to replace the unit quickly. Information on maintenance can be found in the associated operating instructions.

Components of a PTFE bellow unit using the example of a GEA VESTA® Tank Bottom valve type H_A/T with CIP/SIP application

- 1 Bellow
- 2 Pressure disk
- 3 O-Ring
- 4 Circlip



GEA VESTA® Tank Bottom valve

Nominal diameter			PTFE/EPDM
DN	OD	ISO	6 bar
10	1½"	13.5	221-002056
15	¾"	17.2	221-002056
20	1"	21.3	221-002057
25	–	–	221-002058
–	–	26.9	221-002057
32	–	–	221-002058
40	1½"	42.4	221-559.06
50	2"	48.3	221-559.06
65	2½"	60.3	221-559.07
80	3"	76.1	221-559.07
–	–	88.9	221-559.07
100	4"	114.3	221-559.08

GEA VESTA® CIP/SIP Side valve

Nominal diameter			PTFE/EPDM	
DN	OD	ISO	6 bar	6 bar, ATEX
10	1½"	13.5	221-002056	221-002056
15	¾"	17.2	221-002056	221-002056
20	1"	21.3	221-002057	221-002057
25	–	–	221-002058	221-002058

Bellow Units

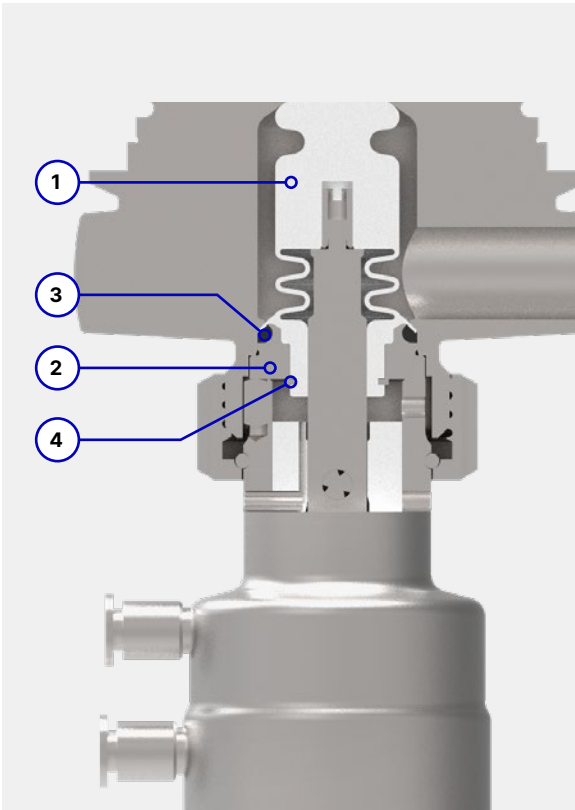
Components of a PTFE bellow unit

The adjacent illustration of a GEA VESTA® Sampling valve type H_A/I shows an example of the composition of a bellow unit for sampling valves.

Essentially, a bellow unit includes all the wear parts of a valve that come into contact with the product, as well as the components required to replace the unit quickly. Information on maintenance can be found in the associated operating instructions.

Components of a PTFE bellow unit using the example of a GEA VESTA® Sampling valve type H_A/I

- 1 Bellow
- 2 Pressure disk
- 3 O-Ring
- 4 Circlip



GEA VESTA® Sampling valve				
Nominal diameter			PTFE/EPDM	
DN	OD	ISO	6 bar	6 bar, ATEX
10	½"	13.5	221-003168	221-003168
15	¾"	17.2	221-003168	221-003168
25	1"	26.9	221-002058	221-002058

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