

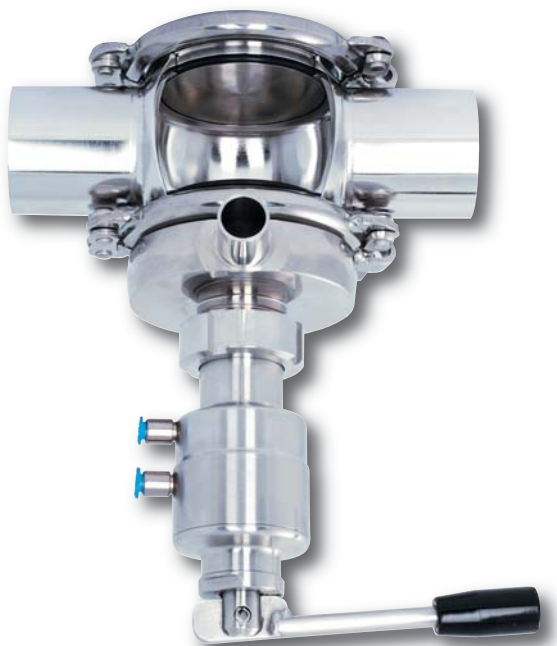


**Order Code for
GEA Tuchenhagen VESTA® Sampling Valves**

Typ H_A/I 2/2 Way Seat Valve

VESTA® Sampling Valve, Type H_A/I 2/2 Way Seat Valve

The VESTA® sampling valve is used for aseptic product sampling from pipes or tanks. The VESTA® sampling valve prevents product contamination, thus keeping the process system free from germs.



VESTA® and VARIVENT® - a strong team

In combination with our VARIVENT® and VARINLINE® series the requirement of full CIP/SIP compatibility is easily met.

As installation fitting for the VESTA® sampling valve the VARIVENT® and VARINLINE® access units are available with all their benefits:

- Pocket-free design, without domes and sumps
- Valve body drains completely, even in straight pipes
- Hermetic sealing of the valve interior against the external atmosphere using a patented bellows sealing system
- Reliable CIP/SIP cleaning thanks to optimised flow characteristics
- VARIVENT® / VARINLINE® interface

Design features

- Aseptic bellows sealing system
- Pressure and vacuum resistant
- One-piece PTFE bellows for universal applications
- Defined pretension of the seal
- Self-locking groove nut connection
- Pocket-free design

Benefits

- Valve body drains completely in straight pipes
- Reliable CIP/SIP cleaning thanks to optimised flow characteristics
- Long service life for the PTFE bellows
- Height of the valve body corresponds to that of the connecting piping
- Minimum space requirement, low process volume
- Easy and safe maintenance
- Wide range of body variants
- Sizes up to DN 65 available, larger sizes on request

Operating media

- Operating temperature -10 °C to max. 135 °C
- Sterilisation temperature max. 150 °C for 1h
- Operating pressure 0 to 6 bar

Control air

- Control air temperature min. 0 °C, max. 70 °C
- NO function
- Control air pressure min. 5 bar, max. 6 bar
- NC function
- Control air pressure min. 5 bar, max. 8 bar
- Valve port cross-section 100 %

Materials, product contact parts

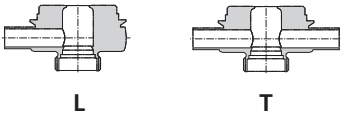
- Housing 1.4435 (AISI 316L)
- Housing socket 1.4435 (AISI 316L)
- Delta ferrite content optional
- Bellows material TFM1705 (PTFE), FDA-conformity

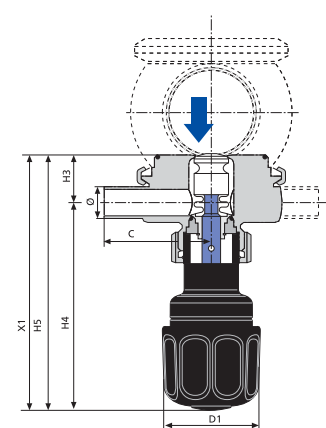
Materials, non-product contact parts

- Stainless steel actuator 1.4301 (AISI 304)
- Synthetic actuator polyphenylene sulphide (PPS)

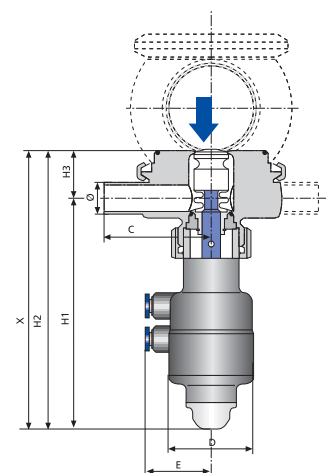
VESTA® Sampling Valve, Type H_A/I 2/2 Way Seat Valve

Example for an order code

Code	Code	H	L	A	I/N	P	NW	NW	M	Z	000	0	0	-	0	2	52	K	-																																																					
Code	Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																																					
H	1.	Valve type VESTA® Sampling Valve																																																																						
	2.	Valve body combination																																																																						
																																																																								
A	3.	Aseptic bellows seal																																																																						
	4.	Housing specification																																																																						
		<p>I/F = DN 25/32, ISO 33.7 I/N = DN 40/50, ISO 42.4/48.3/60.3, OD 1.5"/2" I/S = DN 65/80, OD 2.5"/3"</p>																																																																						
P	5.	PTFE bellows seal																																																																						
		<p>Bellows material TFM1705 (PTFE), conforms to: FDA, 21CFR 177.150, USP class VI For documentation see Item 16</p>																																																																						
	6.	Nominal width, process connection VESTA®																																																																						
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		<p>X (included the clearance required for maintenance)</p>																																																																						



VESTA® Sampling Valve manual actuator



VESTA® Sampling Valve pneumatic actuator

↑ Recommended flow direction

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Example for an order code

Code	Code	H	L	A	I/N	P	NW	NW	M	Z	000	0	0	-	0	2	52	K	-
	Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

7. Nominal width, flange

See brochure VARINLINE® housings and connection flanges, Accessories Register 9

8. Type of actuator

P = synthetic material (PPS)
M = stainless steel (1.4301/316)
H = manual actuator (PPS)

9. Non-actuated position

Z = air-to-open/spring-to-close // and manual actuator
A = air-to-close/spring-to-open
J = air-to-open/air-to-close

Control air volume [dm³N]

Function	DN 10, 0.5" OD ISO 13.5	DN 15 0.75" OD	ISO 17.2
Z (NC)	0.011	0.013	0.014
A (NO)	0.026	0.026	0.028

10. Type/location of feedback element

TV₁ = position indicator / control module type T.VIS® V-1 (for nominal size up to DN 32, 1" OD, ISO 33.7)
TP₁ = position controller T.VIS® P-1 (for nominal size up to DN 32, 1" OD, ISO 33.7)
Ex = SEE / ATEX (only stainless steel actuator)
INA = proximity switch holder
ooo = visual indication (standard), (manual/pneumatic actuator)

11. Control module type / solenoid valve

N = without solenoid valve (TV₁)
P = one solenoid valve (TV₁, SEE)
I = two solenoid valves (TV₁, TP₁)
o = without solenoid valve (INA, ooo)

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Example for an order code

Code	Code	H	L	A	I/N	P	NW	NW	M	Z	000	0	0	-	0	2	52	K	-
	Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	<p>12. Number of feedback signals</p> <p>o = without (ooo) 1 = one feedback signal (INA) 2 = two feedback signals (TV1, TP1, INA)</p>																		
	<p>13. Type of sensor connection</p> <p>A = AS Interface (TV1) B = 24 V DC, 3 Draht, PNP (TV1, TV2o, TM1, INA) N = 24 V DC, 3 Draht, NPN (TV1, INA) D = DeviceNet (TV1) E = EEX / ATEX (SEE, INA) P = 24 V DC, programmable (TP1, TP2o) X = proximity switch acc. to customer's specification</p>																		
	<p>14. Electrical connection (cable gland) / air connection</p> <p>o = without D = 5-pin connector M 12 / Ø 6/4 mm (TV1, TP1, TM1, TV2o, TP2o) K = 5-pin connector M 12 / Ø 6.35/4.35 mm, 0.25" OD - (TV1, TP1, TM1, TV2o, TP2o) M = connection for air hose Ø 6/4 mm, proximity switch with terminal box and cable terminals (INA, ooo, manual actuator) Z = connection for air hose 0.25" OD (6.35/4.35 mm), proximity switch with terminal box and cable terminals (INA, ooo)</p>																		
	<p>15. Surface finish</p> <p>1 = inside surfaces $R_a \leq 0.8 \mu\text{m}$, socket welds unpolished, body electrochemically cleaned 2 = inside surfaces $R_a \leq 0.4 \mu\text{m}$, socket welds polished, body electropolished</p>																		
	<p>16. Valve tag</p> <p>52 = adhesive plate</p>																		

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	<p>17. Certificates</p> <p>o = without Z = certificate acc. to EN10204-3.1 W = factory test certificate EN10204-2.2 F = ferrite content certificate O = surface test certificate K = certificate of FDA conformity U = certificate of USP class VI conformity X = acceptance acc. to customer's specification</p>																		
	<p>18. Accessories</p> <p>20 = stroke limiter open 21 = seal adjuster close 22 = 5 pin connector/junction box 29 = quick release handle 43 = VESTAMID®* - UV resistant material; for oil and fat containing control air 3A = 3A symbol</p> <p><small>*) VESTAMID® is registered as a trademark of the Degussa AG</small></p>																		

The VARIVENT® / VARINLINE® housing

Even without the instrument, i.e. with the blanking plate, a perfect seal - no dome, no sump

Blanking plates to fit a variety of instruments

Rapid, accurate installation with hinged clamps

Suitable for a wide range of fittings



No-gap seal

Defined deformation of the O-ring by means of metallic stop

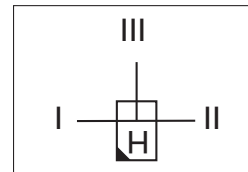
Various pipe widths, Metric, Inch OD, ISO and Inch IPS

Blanking plate independent of pipe nominal width and flow rate (VARINLINE®)

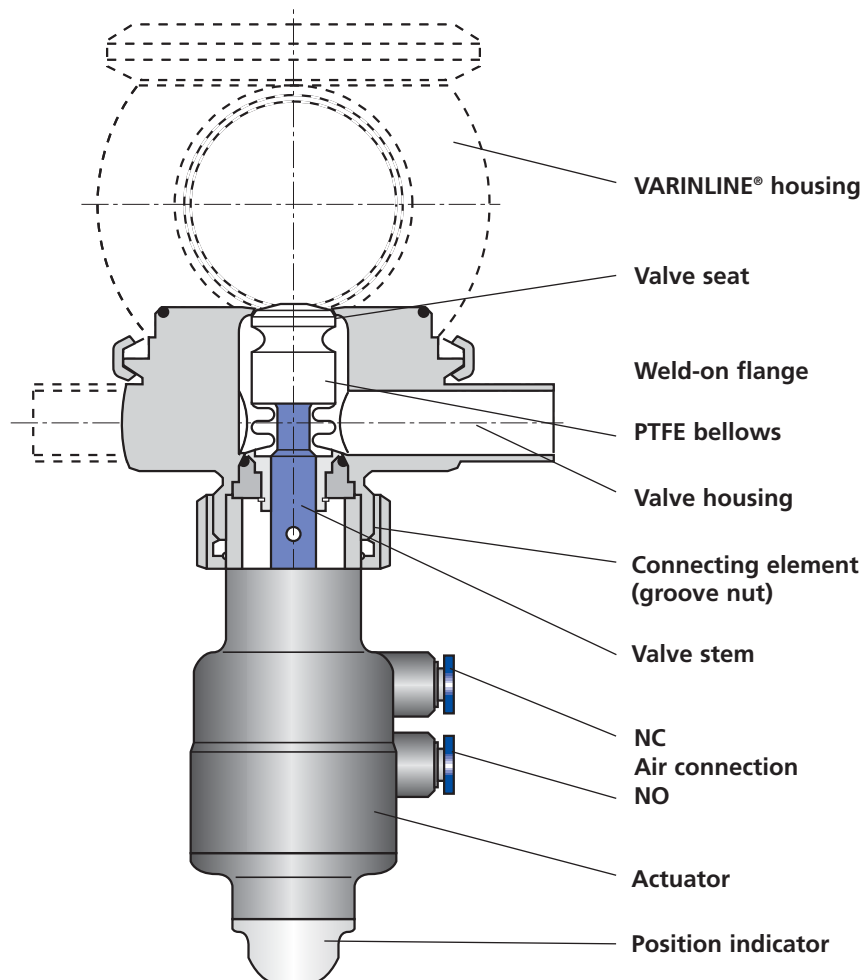
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Key figures

Ø	Stroke [mm]	Kv-Value [m³/h]			Weight acc. to actuator [kg]			
		I-II	I-III	III-I	Typ H_A/I			
DIN Outside socket diameter, acc. to DIN11866, series A / DIN11850, series II								
DN 10	13x1.5	2.1	2	2.3	2.1	0.86	1.32	0.86
DN 15	19x1.5	4	6.4	6.5	5.9	0.84	1.3	0.84
Inch OD Outside socket diameter, acc. to ASME-BPE, DIN11866, series C								
0.5" OD	12.7x1.65	2.1	2.1	2.2	2.2	0.86	1.32	0.86
0.75" OD	19.05x1.65	4	6.6	6.9	6	0.84	1.3	0.84
ISO Outside socket diameter, acc. to DIN EN ISO1127, DIN11866, series B								
ISO 13.5	13.5x1.6	2.1	2.4	2.8	2.5	0.86	1.32	0.86
ISO 17.2	17.2x1.6	2.9	4.1	5.2	4.5	0.84	1.3	0.84



Kv- flow direction



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

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