



GEA D-TEC® DOUBLE-CHAMBER VALVE D/DV

Order Code

GEA D-tec®

Double-chamber valve D/DV

Technical data of the standard version – soft-sealing		
Recommended flow direction	Against the closing direction	
Materials	Housing	1.4404/AISI 316L
	Diaphragm	D-tec®
	Valve seat seal	EPDM
	Double disc seal	EPDM
	Not in contact with the product	1.4301/AISI 304
Ambient temperature	0 to 45 °C (32 °F to 113 °F)	
Operating temperature	Max. 135 °C (275 °F)	
Sterilization temperature	Max. 150 °C (302 °F) for max. 30 minutes	
Air supply pressure	6 bar (87 psi)	
Product pressure	6 bar (73 psi)	
Surface in contact with the product	R _a ≤ 0.8 µm	
External housing surface	Ground	
Control and feedback system	Connection 0 (without control top)	
Actuator type	Pneumatic actuator air/spring, single seat lift	
Connection fittings	Welding end	
Identification	Adhesive ID tag	
Valve seat version	One-piece housing	



Pipe			Housing		Actuator	Dimensions				Valve
Nominal width	Ø [mm]	A [mm]	B [mm]	C [mm]	D1 [mm]	F [mm]	H [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 40	41.0 × 1.50	113	125	150	169	493.0	622.0	698	24	32.5
DN 50	53.0 × 1.50	126	125	150	169	499.0	628.0	710	24	33.0
DN 65	70.0 × 2.00	144	125	150	209	507.0	636.0	726	24	40.2
DN 80	85.0 × 2.00	159	125	150	209	514.5	643.5	741	24	40.8
DN 100	104.0 × 2.00	184	125	170	209	569.5	689.5	802	29	45.6
OD 1 ½"	38.1 × 1.65	109	125	150	169	493.0	622.0	698	24	32.4
OD 2"	50.8 × 1.65	123	125	150	169	499.0	628.0	710	24	32.9
OD 2 ½"	63.5 × 1.65	136	125	150	209	507.0	636.0	726	24	39.8
OD 3"	76.2 × 1.65	150	125	150	209	514.5	643.5	741	24	40.2
OD 4"	101.6 × 2.11	181	125	170	209	569.5	689.5	802	29	45.6

Pipe			Housing		Actuator	Dimensions				Valve
Nominal width	Ø [mm]	M3 [mm]	P2 [mm]	D3 [mm]	R [mm]	T [mm]	Extension X2 [mm]	Extension X3 [mm]	Stroke S2 [mm]	Stroke S3 [kg]
DN 40	41.0 × 1.50	29.0 × 1.50	19.0 × 1.50	84.5	385.5	271.0	303	435	5–6	15–16
DN 50	53.0 × 1.50	29.0 × 1.50	19.0 × 1.50	84.5	385.5	271.0	303	435	5–6	15–16
DN 65	70.0 × 2.00	29.0 × 1.50	19.0 × 1.50	84.5	388.5	275.0	307	438	5–6	15–16
DN 80	85.0 × 2.00	29.0 × 1.50	19.0 × 1.50	84.5	388.5	275.0	307	438	5–6	15–16
DN 100	104.0 × 2.00	29.0 × 1.50	19.0 × 1.50	84.5	409.5	295.5	328	459	5–6	15–16
OD 1 ½"	38.1 × 1.65	25.4 × 1.65	19.0 × 1.50	84.5	385.5	271.0	303	435	5–6	15–16
OD 2"	50.8 × 1.65	25.4 × 1.65	19.0 × 1.50	84.5	385.5	271.0	303	435	5–6	15–16
OD 2 ½"	63.5 × 1.65	25.4 × 1.65	19.0 × 1.50	84.5	388.5	275.0	307	438	5–6	15–16
OD 3"	76.2 × 1.65	25.4 × 1.65	19.0 × 1.50	84.5	388.5	275.0	307	438	5–6	15–16
OD 4"	101.6 × 2.11	25.4 × 1.65	19.0 × 1.50	84.5	409.5	295.5	328	459	5–6	15–16

Position	Description of the order code*1	
1	Valve type	
	D	D-tec® Double-chamber valve
2	Housing combination	
	C	E
		
3	Supplement to the valve type	
	L/DV	With lifting actuator, D-tec® stem diaphragm (hermetic sealing)
4/5	Nominal width (upper housing/lower housing)	
	DN 40	OD 1 ½"
	DN 50	OD 2"
	DN 65	OD 2 ½"
	DN 80	OD 3"
	DN 100	OD 4"
6	Actuator type	
	S	Air/Spring
7	Non-actuated position	
	Z	Spring-to-close (NC)
8	Standard configuration with 6 bar air supply pressure for 6 bar product pressure (higher pressures on request)	
	Actuator (spring-to-close)	/Lifting actuator For nominal widths
	DFDV	/CLBDV DN 40, DN 50, OD 1 ½", OD 2"
	EGDV	/DLBDV80 DN 65, DN 80, OD 2 ½", OD 3"
	EHDV	/DLBDV100 DN 100, OD 4"
9	Valve seat version	Housing combination
		C E
	V1	Welded seat ring / port orientation 90°
		 
10	Double disc and valve seat sealing (valve disc soft sealing)*2	
	1	Double disc seal EPDM (O-ring), valve seat seal EPDM (V-ring)
	2	Double disc seal FKM (O-ring), valve seat seal FKM (V-ring)
11	Surface quality of the housing	
	3	Inside Ra ≤ 0.8 µm, outside ground (DN, OD)
12	Connection fittings	
	1	Welding end
13	Valve seat sealing (valve disc hard sealing)	
	/07	Valve seat seal TEFASEP® gold (O-ring)*3
14	Accessories	
	/52	Adhesive ID tag
	/3A	Valve according to 3-A design guidelines
15-19	Air connection/Control and feedback system*1	
	00000M	Metric for air hose Ø 6/4 mm
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)

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

Position	1	2	3		4/5		6	7		8		9		10	11	12	13	14		15
Code	D		L/DV	-	/	-	S	Z	-		-	V1	-						+	

*1 Further options see catalog Hygienic Valves VARIVENT® and ECOVENT®, valve options register 8, control and feedback systems register 10

*2 Valve disc hard sealing must be configured with position 13

*3 Valve disc hard sealing available in combination with EPDM double disc sealing

Position	Description of the order code	
100	Valve type inlet valve	
	N	Hygienic shut-off valve
101	Nominal width inlet pipe connection* ⁴	
	DN 15	Pipe connection to inlet valve DN 15
	OD ¾"	Pipe connection to inlet valve OD ¾"
102	Actuator type	
	S	Air/Spring
103	Non-actuated position	
	Z	Spring-to-close (NC)
	A	Spring-to-close (NO)
104	Piston rod sealing* ⁵	
	E	EPDM
	F	FKM
105	Valve seat sealing* ⁵	
	1	EPDM (V-ring)
	2	FKM (V-ring)
	/07	TEFASEP® gold (O-ring)
106	Accessories	
	/52	Adhesive ID tag
+		
107 – 111	Air connection/Control and feedback system* ⁶	
	00000M	Metric for air hose Ø 6/4 mm
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)

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

Position	100		101		102	103		104	105	106		107 – 111
Code	N	-		-	S		-			/S2	+	

*⁴ Selection dependent on main valve, mix of different piping standards not possible

*⁵ Selection dependent on main valve, mix of materials with soft-sealing, product-wetted seals not possible

*⁶ Further options see catalog Hygienic Valves VARIVENT® and ECOVENT®, control and feedback systems register 10
Control top can be configured to control both inlet and outlet valve

Position	Description of the order code	
200	Valve type outlet valve	
	N	Hygienic shut-off valve
	W	Hygienic divert valve
201	Nominal width inlet pipe connection ^{*4}	
	DN 25	Pipe connection to outlet valve DN 25
	OD 1"	Pipe connection to outlet valve OD 1"
202	Actuator type	
	S	Air/Spring
203	Non-actuated position	
	Z	Spring-to-close (NC)
	A	Spring-to-close (NO)
204	Piston rod sealing ^{*5}	
	E	EPDM
	F	FKM
205	Valve seat sealing ^{*5}	
	1	EPDM (V-ring)
	2	FKM (V-ring)
	/07	TEFASEP® gold (O-ring)
206	Options outlet valve ^{*7}	
	/0	Without temperature probe
	/2	Integrated temperature probe with measuring transducer (4–20mA / 0–200 °C)
	/6	Integrated temperature probe without measuring transducer (PT100)
207	Accessories	
	/52	Adhesive ID tag
	/KP	Temperature probe with calibration protocol
+		
208–212	Air connection/Control and feedback system ^{*6}	
	00000M	Metric for air hose Ø 6/4 mm
	00000Z	Inch for air hose Ø OD ¼" (6.35/4.35 mm)

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

Position	200		201		202	203		204	205	206	207		208–212
Code		-		-	S		-				/52	-	

^{*4} Selection dependent on main valve, mix of different piping standards not possible

^{*5} Selection dependent on main valve, mix of materials with soft-sealing, product-wetted seals not possible

^{*6} Further options see catalog Hygienic Valves VARIVENT® and ECOVENT®, control and feedback systems register 10

^{*7} Mounting of a control top not possible when outlet valve is configured with integrated temperature probe

GEA Schweiz
GEA Aseptomag AG
Industrie Neuhof 28
3422 Kirchberg, Schweiz

Tel +41 34 4262929
gea.com/schweiz