



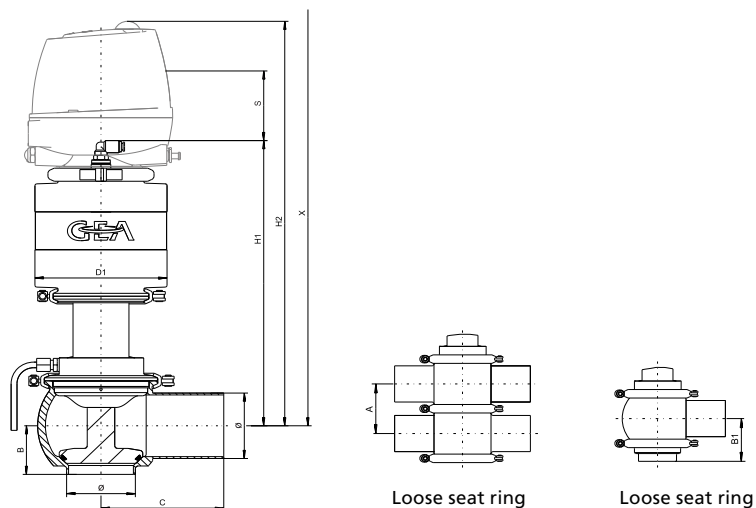
D-tec® Valve Technology – Order Code

Shut-Off Valve N/DV



Technical data of the standard version

Recommended flow direction	Against the closing direction	
Material	Housing	1.4404/AISI 316L
	Diaphragm	D-tec®
	Valve seat seal	EPDM
	Housing 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 30 min	
Air supply pressure	6 bar (87 psi)	
Product pressure	5 bar (73 psi)	
Surface in contact with the product	$R_a \leq 0.8 \mu\text{m}$	
External housing surface	Matte blasted	
Control and feedback system	Connection 0 (without control top)	
Actuator type	Pneumatic actuator air/spring	
Connection fittings	Welding end	
Identification	Adhesive ID tag	
Valve seat version	Clamped or welded seat ring	



	Pipe	Housing				Actuator	Dimensions			Valve	
Nominal width	Ø [mm]	A [mm]	B [mm]	B1 [mm]	C [mm]	D1 [mm]	H1 [mm]	H2 [mm]	Extension X [mm]	Stroke S [mm]	Weight [kg]
DN 25	29.0 × 1.50	50.0	31	58	90	99	248	412	493	10	7
DN 40	41.0 × 1.50	62.0	39	64	90	110	293	457	558	17	9
DN 50	53.0 × 1.50	74.0	41	70	90	110	299	463	578	17	9
DN 65	70.0 × 2.00	96.0	52	83	125	135	307	471	619	25	13
DN 80	85.0 × 2.00	111.0	60	90	125	135	314	478	649	25	14
DN 100	104.0 × 2.00	130.0	70	100	125	170	358	522	722	30	20

OD 1"	25.4 × 1.65	46.0	29	56	90	99	246	410	485	10	7
OD 1 ½"	38.1 × 1.65	59.0	39	62	90	110	291	455	553	17	9
OD 2"	50.8 × 1.65	71.5	42	68	90	110	297	461	575	17	9
OD 2 ½"	63.5 × 1.65	90.0	54	80	125	135	304	468	612	25	13
OD 3"	76.2 × 1.65	103.0	54	86	125	135	310	474	631	25	13
OD 4"	101.6 × 2.11	127.5	69	99	125	170	357	521	718	30	20

Position	Description of the order code for the standard version*1					
1	Valve type					
	N D-tec® shut-off valve					
2	Housing combinations					
	A B C E L T					
3	Supplement to the valve type					
	/DV D-tec® stem diaphragm (hermetic sealing)					
4/5	Nominal width (upper housing/lower housing)					
	DN 25	OD 1"				
	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)					
	A Spring-to-open (NO)					
8	Standard configuration with 6 bar air supply pressure for 5 bar product pressure (higher pressures on request)					
	Actuator (spring-to-close)	Actuator (spring-to-open)	For nominal widths			
	AA	AA	DN 25, OD 1"			
	BB	BA	DN 40, DN 50, OD 1 ½", OD 2"			
	CD	CB	DN 65, DN 80, OD 2 ½", OD 3"			
	DF	DD	DN 100, OD 4"			
9	Valve seat version		Housing combination			
	L0	Loose seat ring/clamp connection	A	B	C	E
	V0	Fixed vertical port	√	√	√	√
	V1	Welded seat ring / port orientation 90°				
	V2	Welded seat ring / port orientation 180°				
	V3	Welded seat ring / port orientation 270°				
10	Housing and valve seat sealing (valve disc soft sealing)*2					
	1 Housing seal EPDM (O-ring), valve seat seal EPDM (V-ring)					
	2 Housing seal FKM (O-ring), valve seat seal FKM (V-ring)					
	3 Housing seal HNBR (O-ring), valve seat seal HNBR (V-ring)					
	6 Housing seal VMQ (O-ring), valve seat seal see position 13					
11	Surface quality of the housing					
	2 Inside R _a ≤ 0.8 µm, outside matte blasted (DN, OD)					
12	Connection fittings					
	N 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					
+						
15–19	Air connection/Control and feedback system					
	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 to 19					
Code	N		/DV	- /	- S		-	-		2	N		/52	+					

*1 Further options see catalogue 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 or VMQ housing sealing

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