



## Aseptic diaphragm valve pneumatically operated 2/2 N.C.

**SERIE 21DZ1**  
(Welding Connection)

### PRESENTATION:

Aseptic diaphragm valve with single acting N.C. pneumatic actuator, ideal for use in critical applications such as those in the chemical, pharmaceutical, food & beverage sectors.

Main features:

- Corrosion-resistant AISI 316L body with surface finishing  $Ra \leq 0.4 \mu m$  (option: electropolishing)
- Actuator housing & internals in AISI 304, designed for longlasting service
- Specific body design to ensure total separation between medium and actuation
- Diaphragm compliant with EC Regulation 1935/2004, FDA 21CFR 177.1550, USP40
- Bidirectional use thanks to the symmetrical body design
- Self-draining body design
- Optical position indicator
- Compliant with CIP / SIP processes
- ATEX versions on request

**USE:** Liquids, gases, steam (neutral, aggressive)

**NOMINAL SIZE:** DN8-DN50



### VALVE FEATURES:

Fluid Temperature	- 10°C + 150°C
Ambient temperature	- 10°C + 80°C
Max. allowable pressure (PS)	16 bar
Diaphragm leakage class	class A (EN 12266-1)
Body	AISI 316L ( $Ra \leq 0,4\mu m$ )
Diaphragm	PTFE+EPDM (PTFE in contact with the fluid)

### ACTUATOR FEATURES:

Pilot fluid	Air, inert gases
Fluid Temperature	max + 50°C
Max. allowable pressure (PS)	8 bar
Pilot port	G 1/8
Housing	AISI 304
Piston seal	NBR   EPDM
Diaphragm size	8-10-25-40-50



**CE Approval**

(Pressure Equipment Directive 2014/68/EU )  
for Valve 21DZ1..032 ÷ ..050..

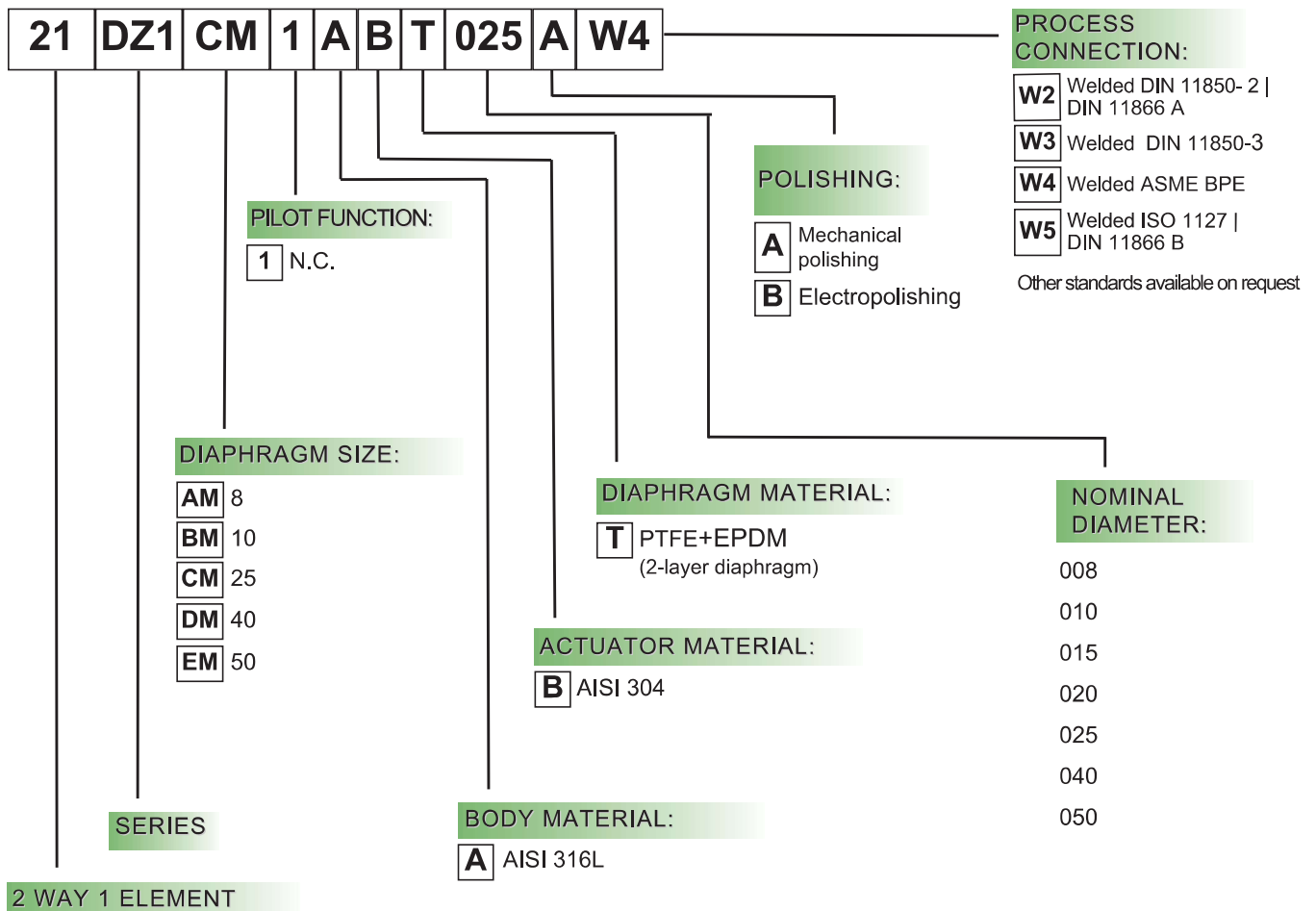
### Nota

Chemical compatibility fluids/materials, has to be verified at RFQ stage with ODE sales dept.

The "ODE " reserves the right to carry out technical and aesthetic modifications without prior notice.

Code	Nominal Diameter	Diaphragm Size	Kv [m³/h]	Actuator pilot pressure [bar]		Differential pressure [bar]		Weight [Kg]
				min	max	min	max	
21DZ1AM1ABT008A**	DN8	8	0,5	4,5	7	0	10	0,55
21DZ1AM1ABT010A**	DN10	8	1,1	4,5	7	0	10	0,55
21DZ1AM1ABT015A**	DN15	8	1,6	4,5	7	0	10	0,9
21DZ1BM1ABT015A**	DN15	10	5	4,5	7	0	10	0,9
21DZ1BM1ABT020A**	DN20	10	5,7	4,5	7	0	10	1,6
21DZ1CM1ABT020A**	DN20	25	10,8	4,5	7	0	10	1,6
21DZ1CM1ABT025A**	DN25	25	10,6	4,5	7	0	10	3,4
21DZ1DM1ABT040A**	DN40	40	21,9	4,5	7	0	10	5,1
21DZ1EM1ABT050A**	DN50	50	37,7	4,5	7	0	10	7,7

### ORDERING CODE





# SERIE 21DZ1

Code	Nominal size	Diaphragm size	Ø A	B	Ls	L	DIN 11850-2 DIN 11866-A		DIN 11850-3		ASME BPE		ISO 1127 DIN 11866-B	
							** =W2	Ød	T	** =W3	Ød	T	** =W4	Ød
21DZ1AM1ABT008A**	DN8	8	47	85	20	72					6,35	0,89		
21DZ1AM1ABT010A**	DN10	8	47	85	20	72					9,53	0,89		
21DZ1AM1ABT015A**	DN15	8	57	106	20	72					12,7	1,65		
21DZ1BM1ABT015A**	DN15	10	65	134	29	108	19	1,5	20	2			21,3	1,6
21DZ1BM1ABT020A**	DN20	10	65	134	29	108					19,05	1,65		
21DZ1CM1ABT020A**	DN20	25	88	170	26	120	23	1,5	24	2			26,9	1,6
21DZ1CM1ABT025A**	DN25	25	88	170	26	120	29	1,5	30	2	25,4	1,65	33,7	2
21DZ1DM1ABT040A**	DN40	40	109	196	30	153	41	1,5	43	2	38,1	1,65	48,3	2
21DZ1EM1ABT050A**	DN50	50	129	226	30	173	53	1,5	54	2	50,8	1,65	60,3	2

## DIMENSIONS:

