



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

SERIE 21DZ1
(Tri-Clamp 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

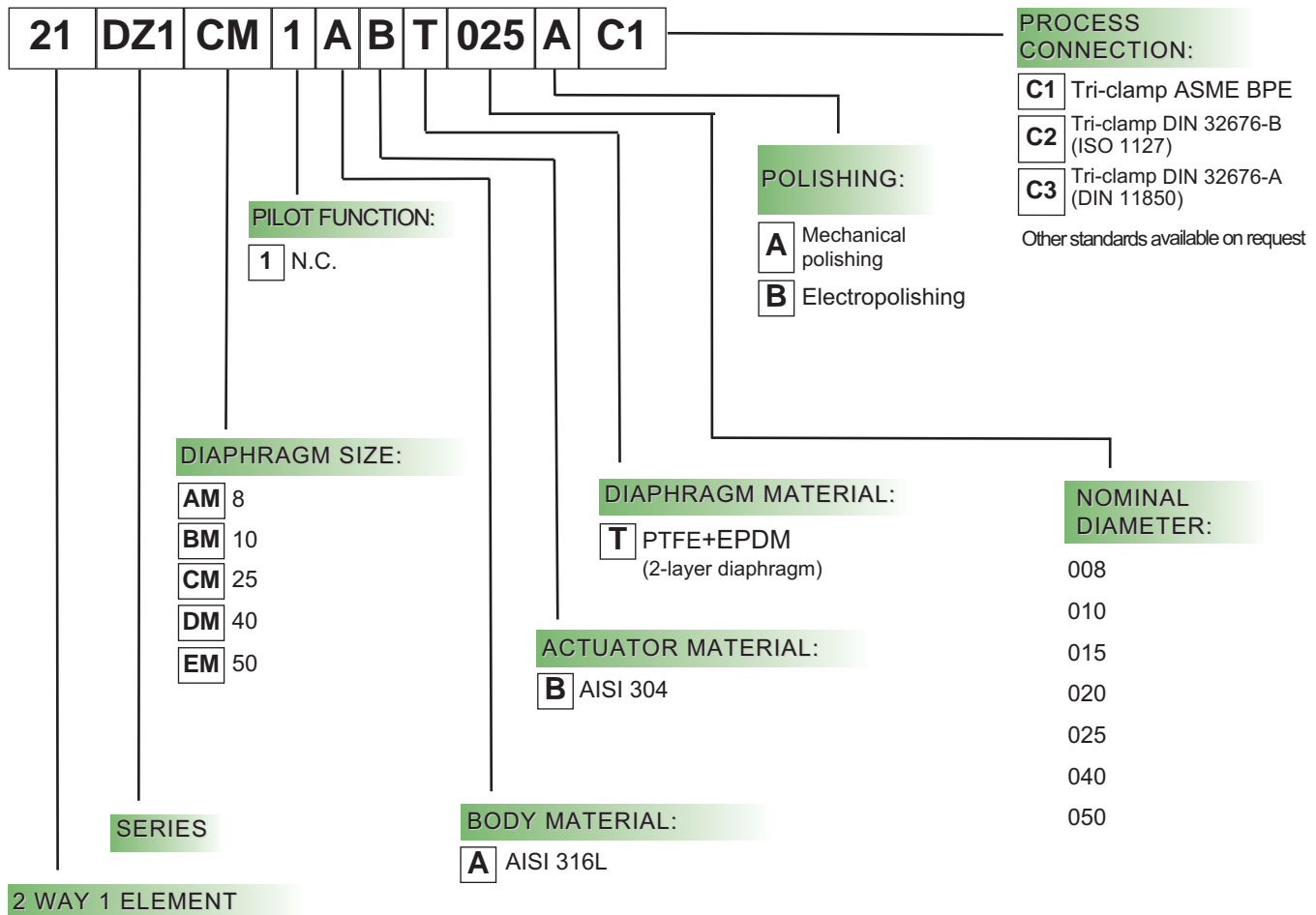
Chemical compatibility fluids/materials, has to be verified at RFQ stage with ODE sales dept.

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	0,6
21DZ1AM1ABT010A**	DN10	8	1,1	4,5	7	0	10	0,6
21DZ1AM1ABT015A**	DN15	8	1,6	4,5	7	0	10	0,95
21DZ1BM1ABT015A**	DN15	10	5	4,5	7	0	10	0,95
21DZ1BM1ABT020A**	DN20	10	5,7	4,5	7	0	10	1,65
21DZ1CM1ABT020A**	DN20	25	10,8	4,5	7	0	10	1,65
21DZ1CM1ABT025A**	DN25	25	10,6	4,5	7	0	10	3,5
21DZ1DM1ABT040A**	DN40	40	21,9	4,5	7	0	10	5,2
21DZ1EM1ABT050A**	DN50	50	37,7	4,5	7	0	10	7,7

ORDERING CODE

21 DZ1 CM 1 A B T 025 A C1





SERIE 21DZ1

Code	Nominal size	Diaphragm size	Ø A	B	Ls	ASME BPE			DIN 32676-B (ISO 1127)			DIN 32676-A (DIN 11850)		
						Ød1	Ød2	L1	Ød1	Ød2	L1	Ød1	Ød2	L1
21DZ1AM1ABT008A**	DN8	8	47	85	15,5	4,57	25	63,5						
21DZ1AM1ABT010A**	DN10	8	47	85	15,5	7,75	25	63,5						
21DZ1AM1ABT015A**	DN15	8	57	106	15,5	9,4	25	63,5						
21DZ1BM1ABT015A**	DN15	10	65	134	34				18,1	50,5	108	16	34	108
21DZ1BM1ABT020A**	DN20	10	65	134	34	15,75	25	101,6						
21DZ1CM1ABT020A**	DN20	25	88	170	30				23,7	50,5	117	20	34	117
21DZ1CM1ABT025A**	DN25	25	88	170	30	22,1	50,5	114,3	29,7	50,5	127	26	50,5	127
21DZ1DM1ABT040A**	DN40	40	109	196	33	34,8	50,5	139,7	44,3	64	159	38	50,5	159
21DZ1EM1ABT050A**	DN50	50	129	226	39	47,5	64	158,8	56,3	77,5	190	50	64	190

DIMENSIONS:

