



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

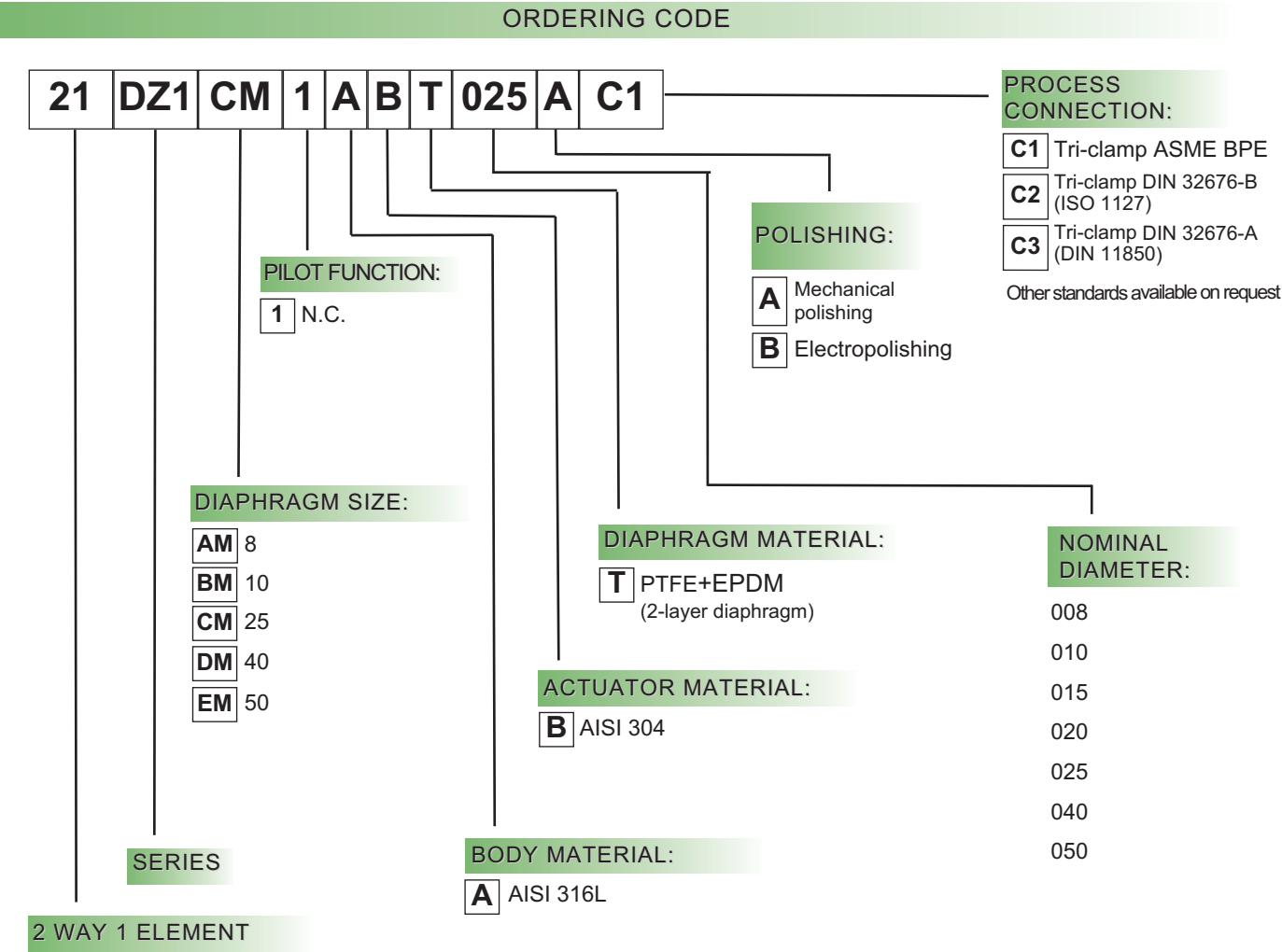
(Pressure Equipment Directive 2014/68/EU)
for Valve 21DZ1..032 ÷ ..050..

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





SERIE 21DZ1

						ASME BPE			DIN 32676-B (ISO 1127)			DIN 32676-A (DIN 11850)		
						[**=C1]			[**=C2]			[**=C3]		
Code	Nominal size	Diaphragm size	Ø A	B	Ls	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:

