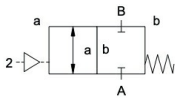
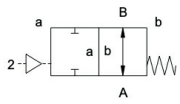
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# 2/2-Way coaxial valve - pneumatically actuated Series CSE01, CSE02




normally closed (NC)

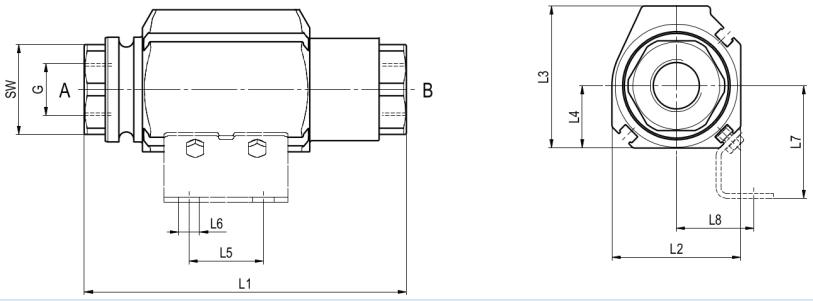



normally open (NO)

| | |
|---|---|
| Design type | 2/2-way coaxial valve, pneumatically actuated, normally closed or normally open, pressure-relieved, with spring return, Solenoid piston for end position feedback |
| Connection | G3/8"...G1" according to ISO228/1 |
| Pilot port | G1/8" according to ISO228/1 |
| Materials | Housing anodized aluminium, parts in contact with the medium aluminium or stainless steel AISI316L, Seals PTFE/FKM |
| Application range | gaseous and liquid media that do not attack the materials used |
| Medium temperature | -20...+120°C |
| Ambient temperature | -20...+80°C |
| Operating pressure | Vacuum up to max. 16bar |
| Vacuum Leakage rate | < $10^{-4}$ mbar*l*$s^{-1}$ |
| Control medium | Compressed air (other media on request) |
| Control pressure | NC 3...8bar, NO 4...8bar |
| Flow direction | any, bidirectional flow-through, back pressure-tight |
| Mounting type | Installation in rigid piping system or mounting bracket |
| Mounting position | any |
| Switching cycles | see table |
| Switching time | see table |
| Special versions | Hydrogen version, ATEX Zone 1 and 21, Operating pressure 0...25bar bzw. 0...40bar, Connection NPT, Valve manifold |


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## Dimensions




| Connection | Nominal size DN[mm] | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | SW | Weight [approx. kg] | | Type NC | | Type NO | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Aluminium | Stainless steel | Aluminium | Stainless steel | Aluminium | Stainless steel |
| G3/8" | 10 | 110 | 42,5 | 48 | 20 | 25 | 6,5 | 33 | 24 | 27 | 0,4 | 0,6 | CSE01-38-10-AT | CSE01-38-10-ZT | CSE02-38-10-AT | CSE02-38-10-ZT |
| G1/2" | 10 | 110 | 42,5 | 48 | 20 | 25 | 6,5 | 33 | 24 | 27 | 0,4 | 0,6 | CSE01-12-10-AT | CSE01-12-10-ZT | CSE02-12-10-AT | CSE02-12-10-ZT |
| G1/2" | 15 | 130 | 52 | 57 | 25 | 30 | 8,5 | 45 | 31,5 | 36 | 0,7 | 1,0 | CSE01-12-15-AT | CSE01-12-15-ZT | CSE02-12-15-AT | CSE02-12-15-ZT |
| G3/4" | 15 | 130 | 52 | 57 | 25 | 30 | 8,5 | 45 | 31,5 | 36 | 0,7 | 1,0 | CSE01-34-15-AT | CSE01-34-15-ZT | CSE02-34-15-AT | CSE02-34-15-ZT |
| G3/4" | 20 | 150 | 60 | 64 | 28 | 30 | 8,5 | 47 | 33,5 | 41 | 0,9 | 1,5 | CSE01-34-20-AT | CSE01-34-20-ZT | CSE02-34-20-AT | CSE02-34-20-ZT |
| G1" | 20 | 150 | 60 | 64 | 28 | 30 | 8,5 | 47 | 33,5 | 41 | 0,9 | 1,5 | CSE01-10-20-AT | CSE01-10-20-ZT | CSE02-10-20-AT | CSE02-10-20-ZT |
| G1" | 25 | 160 | 66 | 71 | 33 | 30 | 8,5 | 51 | 37 | 50 | 1,3 | 2,2 | CSE01-10-25-AT | CSE01-10-25-ZT | CSE02-10-25-AT | CSE02-10-25-ZT |
| G11/4" | 25 | 160 | 66 | 71 | 33 | 30 | 8,5 | 51 | 37 | 50 | 1,3 | 2,2 | CSE01-114-25-AT | CSE01-114-25-ZT | CSE02-114-25-AT | CSE02-114-25-ZT |

| Switching cycles 1/min | Switching time [ms] | | Air consumption [cm³/Stroke] | Kv value [m³/h Water] | Type Aluminium | Type Stainless steel |
|---|---|---|---|---|---|---|
| | open | close | | | | |
| 660 | 30 | 35 | 2 | 3,7 | CSE0.-38-10-AT | CSE0.-38-10-ZT |
| 660 | 30 | 35 | 2 | 4,3 | CSE0.-12-10-AT | CSE0.-12-10-ZT |
| 550 | 30 | 40 | 4 | 8,5 | CSE0.-12-15-AT | CSE0.-12-15-ZT |
| 550 | 30 | 40 | 4 | 10,5 | CSE0.-34-15-AT | CSE0.-34-10-ZT |
| 410 | 35 | 60 | 8 | 15,4 | CSE0.-34-20-AT | CSE0.-34-20-ZT |
| 410 | 35 | 60 | 8 | 17,0 | CSE0.-10-20-AT | CSE0.-10-20-ZT |
| 380 | 35 | 70 | 11 | 23,7 | CSE0.-10-25-AT | CSE0.-10-25-ZT |
| 380 | 35 | 70 | 11 | 24,6 | CSE0.-114-25-AT | CSE0.-114-25-ZT |

## Mounting bracket

| | Nominal size DN[mm] | Type |
|---|---|---|
|  | 10 | MB-CSE0102-10 |
| | 15...25 | MB-CSE0102-15/25 |

## Assembled control valves

| | | |
|---|---|---|
| |  |  |
| Description | 3/2-way valve, electrical/Spring, Manual emergency override, G1/8,<br>Silencer,<br>p = 0...10bar | 3/2-way valve, electric/internal pilot air, Manual emergency override, G1/8,<br>with adjustable closing delay(Throttle silencer),<br>p = 2...10bar |
| Type | ABS77 | ABS78 |

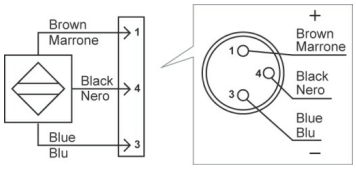
## Assembled control valves - Solenoid coils

| | Voltage | Degree of protection | Power consumption at 20°C | Type |
|---|---|---|---|---|
|  | 24VDC 48V/50-60Hz | IP65 according to EN 60529 with correctly mounted device connector (protection against dust ingress and water jets) | 3W/5VA | C001-03 |
| | 12VDC 24V/50-60Hz | | 3W/5VA | C001-04 |
| | 230V/50-60Hz | | 5VA | C001-22 |
| | 115V/50-60Hz | | 5VA | C001-23 |
| | | | | |

## Solenoid switch - Limit switch, Normally closed PNP

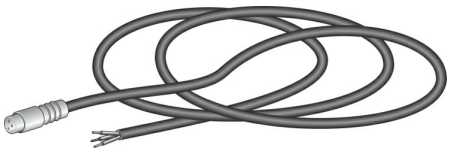
MSE-08-0,3-01






| Voltage [V] | maximum current [mA] | maximum power [VA]/[W] | Cable length [m] | Cable connection | Type |
|---|---|---|---|---|---|
| 10...30 DC | 200 | 4,8 | 0,3 | M8 connector | MSE-08-0,3-01 |

## Connection cable for Solenoid switch M8



Type VSC-P3 030, Cable length 3m

Illustrations non-binding
Design, dimensional and material changes reserved


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