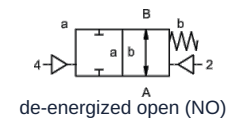
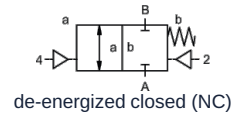
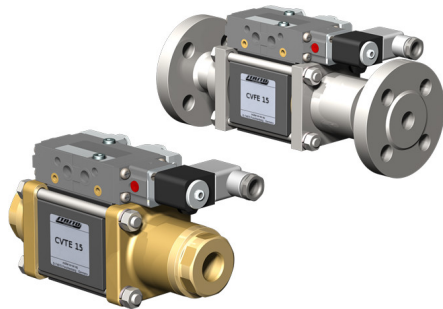


## 2/2-Way coaxial valve - pilot-operated, DN40 Series CVTE/CVFE-40



|                           |                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type designation          | CVTE-40, CVFE-40, with pilot valve CVTE-P-40, CVFE-P-40                                                                                                                                                                                                                                                                  |
| Design type               | 2/2-way coaxial valve, pilot-operated, normally closed (de-energized closed) or de-energized open                                                                                                                                                                                                                        |
| Mode of operation         | pressure-relieved, with spring return                                                                                                                                                                                                                                                                                    |
| Nominal size              | DN 40mm                                                                                                                                                                                                                                                                                                                  |
| Connection                | CVTE: G11/2"...G2", CVFE: Flange PN100, Special flanges and threads on request                                                                                                                                                                                                                                           |
| Pressure range            | 0...63 or 0...100bar, > 100bar on request                                                                                                                                                                                                                                                                                |
| Back pressure             | P2 > P1, available (max. 16bar)                                                                                                                                                                                                                                                                                          |
| Materials                 | Body optional Steel galvanized, Steel nickel-plated, non-ferrous metal-free or Stainless steel<br>Valve seat Plastic on metal, Sealing materials PTFE, NBR, FPM, CR, EPDM<br>The material specifications of the versions refer exclusively to the valve connection parts that come into contact with the medium          |
| Media                     | gaseous - liquid - contaminated - high-viscosity - gelatinous - paste-like                                                                                                                                                                                                                                               |
| Flow direction            | A → B, according to Marking, (Special version alternating max. 16bar)                                                                                                                                                                                                                                                    |
| Mounting type             | Installation in rigid piping system, Mounting bracket on request                                                                                                                                                                                                                                                         |
| Mounting position         | any                                                                                                                                                                                                                                                                                                                      |
| Vacuum Leakage rate       | < 10 <sup>-6</sup> mbar*l*s <sup>-1</sup>                                                                                                                                                                                                                                                                                |
| Kv value                  | 31,0m³/h                                                                                                                                                                                                                                                                                                                 |
| Switching cycles          | 150/min.                                                                                                                                                                                                                                                                                                                 |
| Switching time            | ON 100...3000ms, CLOSED 100...3000ms                                                                                                                                                                                                                                                                                     |
| Cushioning                | ON/CLOSED: via throttling of the pilot valve                                                                                                                                                                                                                                                                             |
| Medium temperature        | with flange-mounted pilot valve up to +60°C (Pilot valve outside the temperature range medium temperature max. 160°C)                                                                                                                                                                                                    |
| Ambient temperature       | with flange-mounted pilot valve up to +50°C                                                                                                                                                                                                                                                                              |
| Manual emergency override | via pilot valve                                                                                                                                                                                                                                                                                                          |
| Approvals                 | on request LR/DNV/EN10204                                                                                                                                                                                                                                                                                                |
| Weight                    | CVTE 11,3kg, CVFE 13,6kg                                                                                                                                                                                                                                                                                                 |
| Options                   | Vacuum tests with certificate, Limit switch inductive (Normally closed (NC) PNP- Icomatic/Balluff), Limit switch inductive NAMUR (+ Switching amplifier), Limit switch mechanical (Changeover contact), Flushing ports, Leakage ports; Version ATEX Ex II 2G Ex h IIC T6...T3 Gb / Ex II 2D Ex h IIIC T-40°C...+195°C Db |

|              |                   |
|--------------|-------------------|
| Voltage type | AC and DC voltage |
|--------------|-------------------|



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard voltage              | 230V/50Hz, 24VDC, Permissible voltage fluctuation $\pm 10\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Special voltages              | on request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power consumption             | DC: 4,8W (2,5W on request), AC: Tightening torque 11,0VA, Holding force 8,5VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Duty cycle                    | 100% (Continuous operation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Degree of protection          | IP65 according to EN 60529 with properly mounted device socket connector (Protection against dust ingress and water jets)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Scope of delivery             | incl. connector according to EN175301-803-Form B or rather Industrial design - Cable entry M16x1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| optional                      | Solenoid coil M12-DESINA, Solenoid coil M12-VDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Additional equipment          | Illuminated connector with varistor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Explosion protection optional | ATEX Ex II 2G Ex mb IIC T5 Gb, Ex II 2D Ex mb tb IIIC T95°C IP66 Db<br>Power consumption 24VDC: 3,25W, 230VAC: 2,90W                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                               | Actuation pneumatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pilot pressure range          | 4...8bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Air consumption               | 65,0cm <sup>3</sup> /Stroke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Switching speed               | Main valve infinitely adjustable via throttles of the pilot valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Control                       | preferably via 5/2-way pilot valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connection diagram            | co-ax/NAMUR, (ISO 1 on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Control ports                 | 2/4: G1/8" (G1/4" on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                               | Actuation hydraulic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pilot pressure range          | 15...30bar/30...60bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Control                       | preferably via 4/2-way pilot valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Control ports                 | X/Y: G1/4" (NPT 1/4 on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ordering information          | Nominal size, Connection, Function NC/NO, Operating pressure, Flow rate, Medium, Medium temperature, Ambient temperature, Rated voltage, Rated voltage Limit switch, Actuation                                                                                                                                                                                                                                                                                                                                                                                    |
| Application note              | The technical design of the valves is media- and application-specific, which may result in deviations from the general information stated in the data sheet with regard to version, sealing materials and characteristic values.. In the case of inaccurate or incomplete ordering information or application data, there is a risk of incorrect technical sizing of the valves for the intended application.. This may result in the physical and/or chemical properties of the materials or seals used being insufficient for the intended application purpose. |

## Dimensions

CVTE-40 Function NC

CVFE-40 Function NO

| Installation lengths              | L1  | L2  | L3  |
|-----------------------------------|-----|-----|-----|
| Standard                          | 312 | 221 | 385 |
| with 1/2 inductive limit switches | 312 | 221 | 385 |
| with pressure lubricator head     | 312 | 221 | 385 |
| with mechanical limit switches    | -   | -   | -   |

| Flange PN | DIN       | ØD  | Øk  | Ød |
|-----------|-----------|-----|-----|----|
| 100       | EN 1092-1 | 170 | 125 | 22 |

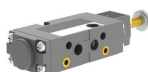
Mounting brackets must be ordered separately



## Pilot valves



Pilot valve ABS56  
5/2-way valve NAMUR  
electropneumatic  
G1/4, with exhaust flow controls  
p = 4...10bar



Pilot valve  
5/2-way valve NAMUR  
electropneumatic  
G1/8, with exhaust flow controls  
p = 4...10bar



Pilot valve  
5/2-way valve ISO1  
electropneumatic  
G1/4  
p = 4...10bar



Pilot valve  
5/2-way valve co-ax  
electropneumatic  
G1/4  
p = 4...10bar

## Electrical connections



electrical connection  
Solenoid coil M12x1



electrical connection  
Form B connector DIN EN 175301-803  
or rather Industrial design

## Limit switch



Icomatic Plastic version  
M12x1, DC 10 - 60V  
AC 15...250V  
-25...+85°C



Balluff Metal version  
M12x1, DC 10...30V  
-25...+70°C



Honeywell  
Changeover contact

Illustrations non-binding  
Design, dimensional and material changes reserved

Armatures / Special armatures / Coaxial valves / 2/2-way-coaxial valves Series CVTC.../CVTEH.../CVTE.../CVFE.../CVTV.../CVFV.../CVFF... / [CVTE-40...] 2/2-way-coaxial valves CVTE-40...

