

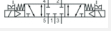
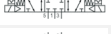
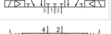
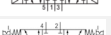
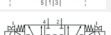
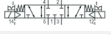
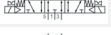
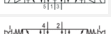
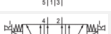
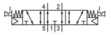
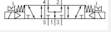
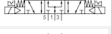
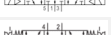
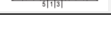
# 5/3-directional valve, Series CD07

- 5/3
- Qn = 900 l/min
- Pilot valve width : 30 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- -25 °C cold-resistant
- Manual override : with detent
- double solenoid
- With spring return
- Pilot : Internal External



|                               |                                     |
|-------------------------------|-------------------------------------|
| Type                          | Spool valve, positive overlapping   |
| Activation                    | Electrically                        |
| Sealing principle             | Soft sealing                        |
| Working pressure min./max.    | See table below                     |
| Control pressure min./max.    | 3 ... 10 bar                        |
| Ambient temperature min./max. | See table below                     |
| Medium temperature min./max.  | See table below                     |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 µm                               |
| Oil content of compressed air | 0 ... 1 mg/m³                       |
| Nominal flow Qn               | 900 l/min                           |
| Nominal flow 1 ► 2            | See table below                     |
| Nominal flow 2 ► 3            | See table below                     |
| Compressed air connection     | according to ISO 228-1              |
| Pilot control exhaust         | with directional pilot air exhaust  |
| Connector standard            | EN 175301-803:2006                  |
| Reverse polarity protection   | Protected against polarity reversal |
| Compatibility index           | 13 14                               |
| Duty cycle                    | 100 %                               |
| Mounting on manifold strip    | P-strip PRS strip                   |
| Weight                        | See table below                     |

## Technical data

| Part No.   |                                                                                     | MO                                                                                  |                    | Compressed air connection |  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|---------------------------|--|
|            |                                                                                     |                                                                                     |                    | Input                     |  |
| 5777770220 |    |    | closed center      | G 1/4                     |  |
| 5777775270 |    |    | closed center      | G 1/4                     |  |
| 5777775280 |    |    | closed center      | G 1/4                     |  |
| 5777775220 |    |    | closed center      | G 1/4                     |  |
| 5777775302 |    |    | closed center      | G 1/4                     |  |
| 5777955302 |    |    | closed center      | G 1/4                     |  |
| 5777720220 |    |    | closed center      | G 1/4                     |  |
| 5777725280 |    |    | closed center      | G 1/4                     |  |
| 5777725302 |    |    | closed center      | G 1/4                     |  |
| R412003424 |    |    | closed center      | G 1/4                     |  |
| 5777955280 |    |    | closed center      | G 1/4                     |  |
| 5777760220 |    |    | exhausted center   | G 1/4                     |  |
| 5777765270 |    |    | exhausted center   | G 1/4                     |  |
| 5777765280 |    |    | exhausted center   | G 1/4                     |  |
| 5777765302 |   |   | exhausted center   | G 1/4                     |  |
| 5777945302 |  |  | exhausted center   | G 1/4                     |  |
| 5777710220 |  |  | exhausted center   | G 1/4                     |  |
| 5777715280 |  |  | exhausted center   | G 1/4                     |  |
| 5777715302 |  |  | exhausted center   | G 1/4                     |  |
| 5777750220 |  |  | pressurized center | G 1/4                     |  |
| 5777755280 |  |  | pressurized center | G 1/4                     |  |
| 5777755302 |  |  | pressurized center | G 1/4                     |  |
| 5777700220 |  |  | pressurized center | G 1/4                     |  |
| 5777705302 |  |  | pressurized center | G 1/4                     |  |

| Part No.   | Compressed air connection |         |
|------------|---------------------------|---------|
|            | Output                    | Exhaust |
| 5777770220 | G 1/4                     | G 1/4   |
| 5777775270 | G 1/4                     | G 1/4   |
| 5777775280 | G 1/4                     | G 1/4   |
| 5777775220 | G 1/4                     | G 1/4   |
| 5777775302 | G 1/4                     | G 1/4   |
| 5777955302 | G 1/4                     | G 1/4   |
| 5777720220 | G 1/4                     | G 1/4   |
| 5777725280 | G 1/4                     | G 1/4   |
| 5777725302 | G 1/4                     | G 1/4   |
| R412003424 | G 1/4                     | G 1/4   |
| 5777955280 | G 1/4                     | G 1/4   |
| 5777760220 | G 1/4                     | G 1/4   |
| 5777765270 | G 1/4                     | G 1/4   |
| 5777765280 | G 1/4                     | G 1/4   |
| 5777765302 | G 1/4                     | G 1/4   |
| 5777945302 | G 1/4                     | G 1/4   |
| 5777710220 | G 1/4                     | G 1/4   |
| 5777715280 | G 1/4                     | G 1/4   |
| 5777715302 | G 1/4                     | G 1/4   |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Output                    | Exhaust                   |
| 5777750220 | G 1/4                     | G 1/4                     |
| 5777755280 | G 1/4                     | G 1/4                     |
| 5777755302 | G 1/4                     | G 1/4                     |
| 5777700220 | G 1/4                     | G 1/4                     |
| 5777705302 | G 1/4                     | G 1/4                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Pilot Input               | Pilot Exhaust             |
| 5777770220 | -                         | M5                        |
| 5777775270 | -                         | M5                        |
| 5777775280 | -                         | M5                        |
| 5777775220 | -                         | M5                        |
| 5777775302 | -                         | M5                        |
| 5777955302 | G 1/8                     | M5                        |
| 5777720220 | -                         | M5                        |
| 5777725280 | -                         | M5                        |
| 5777725302 | -                         | M5                        |
| R412003424 | G 1/8                     | M5                        |
| 5777955280 | G 1/8                     | M5                        |
| 5777760220 | -                         | M5                        |
| 5777765270 | -                         | M5                        |
| 5777765280 | -                         | M5                        |
| 5777765302 | -                         | M5                        |
| 5777945302 | G 1/8                     | M5                        |
| 5777710220 | -                         | M5                        |
| 5777715280 | -                         | M5                        |
| 5777715302 | -                         | M5                        |
| 5777750220 | -                         | M5                        |
| 5777755280 | -                         | M5                        |
| 5777755302 | -                         | M5                        |
| 5777700220 | -                         | M5                        |
| 5777705302 | -                         | M5                        |

| Part No.   | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
|            | DC                  | AC 50 Hz            | AC 60 Hz            |
| 5777770220 | 24 V                | -                   | -                   |
| 5777775270 | -                   | 110 V               | 110 V               |
| 5777775280 | -                   | 230 V               | 230 V               |
| 5777775220 | -                   | 24 V                | 24 V                |
| 5777775302 | -                   | -                   | -                   |
| 5777955302 | -                   | -                   | -                   |
| 5777720220 | 24 V                | -                   | -                   |
| 5777725280 | -                   | 230 V               | 230 V               |
| 5777725302 | -                   | -                   | -                   |
| R412003424 | 24 V                | -                   | -                   |
| 5777955280 | -                   | 230 V               | 230 V               |
| 5777760220 | 24 V                | -                   | -                   |
| 5777765270 | -                   | 110 V               | 110 V               |

| Part No.   | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
|            | DC                  | AC 50 Hz            | AC 60 Hz            |
| 5777765280 | -                   | 230 V               | 230 V               |
| 5777765302 | -                   | -                   | -                   |
| 5777945302 | -                   | -                   | -                   |
| 5777710220 | 24 V                | -                   | -                   |
| 5777715280 | -                   | 230 V               | 230 V               |
| 5777715302 | -                   | -                   | -                   |
| 5777750220 | 24 V                | -                   | -                   |
| 5777755280 | -                   | 230 V               | 230 V               |
| 5777755302 | -                   | -                   | -                   |
| 5777700220 | 24 V                | -                   | -                   |
| 5777705302 | -                   | -                   | -                   |

| Part No.   | Voltage tolerance | Voltage tolerance | Voltage tolerance | Power consumption |
|------------|-------------------|-------------------|-------------------|-------------------|
|            | DC                | AC 50 Hz          | AC 60 Hz          | DC                |
| 5777770220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777775270 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777775280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777775220 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777775302 | -                 | -                 | -                 | -                 |
| 5777955302 | -                 | -                 | -                 | -                 |
| 5777720220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777725280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777725302 | -                 | -                 | -                 | -                 |
| R412003424 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777955280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777760220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777765270 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777765280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777765302 | -                 | -                 | -                 | -                 |
| 5777945302 | -                 | -                 | -                 | -                 |
| 5777710220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777715280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777715302 | -                 | -                 | -                 | -                 |
| 5777750220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777755280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5777755302 | -                 | -                 | -                 | -                 |
| 5777700220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5777705302 | -                 | -                 | -                 | -                 |

| Part No.   | Holding power | Holding power | Switch-on power | Switch-on power | Pilot    |
|------------|---------------|---------------|-----------------|-----------------|----------|
|            | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        | AC 60 Hz        |          |
| 5777770220 | -             | -             | -               | -               | Internal |
| 5777775270 | 4,3 VA        | 3,3 VA        | 6,8 VA          | 5,7 VA          | Internal |
| 5777775280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5777775220 | 4,3 VA        | 3,2 VA        | 6,9 VA          | 5,6 VA          | Internal |
| 5777775302 | -             | -             | -               | -               | Internal |
| 5777955302 | -             | -             | -               | -               | External |
| 5777720220 | -             | -             | -               | -               | Internal |

| Part No.   | Holding power | Holding power | Switch-on power | Switch-on power | Pilot    |
|------------|---------------|---------------|-----------------|-----------------|----------|
|            | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        | AC 60 Hz        |          |
| 5777725280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5777725302 | -             | -             | -               | -               | Internal |
| R412003424 | -             | -             | -               | -               | External |
| 5777955280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | External |
| 5777760220 | -             | -             | -               | -               | Internal |
| 5777765270 | 4,3 VA        | 3,3 VA        | 6,8 VA          | 5,7 VA          | Internal |
| 5777765280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5777765302 | -             | -             | -               | -               | Internal |
| 5777945302 | -             | -             | -               | -               | External |
| 5777710220 | -             | -             | -               | -               | Internal |
| 5777715280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5777715302 | -             | -             | -               | -               | Internal |
| 5777750220 | -             | -             | -               | -               | Internal |
| 5777755280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5777755302 | -             | -             | -               | -               | Internal |
| 5777700220 | -             | -             | -               | -               | Internal |
| 5777705302 | -             | -             | -               | -               | Internal |

| Part No.   | Nominal flow 1 ► 2 | Nominal flow 2 ► 3 | Working pressure min./max. | Ambient temperature min./max. |
|------------|--------------------|--------------------|----------------------------|-------------------------------|
| 5777770220 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777775270 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777775280 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777775220 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777775302 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777955302 | 1070 l/min         | 950 l/min          | -0,95 ... 10 bar           | 0 ... 50 °C                   |
| 5777720220 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777725280 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777725302 | 1070 l/min         | 950 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| R412003424 | 1070 l/min         | 950 l/min          | -0,95 ... 10 bar           | 0 ... 50 °C                   |
| 5777955280 | 1070 l/min         | 950 l/min          | -0,95 ... 10 bar           | 0 ... 50 °C                   |
| 5777760220 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777765270 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777765280 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777765302 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777945302 | 1030 l/min         | 880 l/min          | -0,95 ... 10 bar           | 0 ... 50 °C                   |
| 5777710220 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777715280 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777715302 | 1030 l/min         | 880 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777750220 | 960 l/min          | 900 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777755280 | 960 l/min          | 900 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777755302 | 960 l/min          | 900 l/min          | 3 ... 10 bar               | 0 ... 50 °C                   |
| 5777700220 | 960 l/min          | 900 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |
| 5777705302 | 960 l/min          | 900 l/min          | 3 ... 10 bar               | -25 ... 50 °C                 |

| Part No.   | Medium temperature min./max. | Typ. switch-on time | Typ. switch-off time | Protection class |
|------------|------------------------------|---------------------|----------------------|------------------|
|            |                              |                     |                      | with connection  |
| 5777770220 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777775270 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |

| Part No.   | Medium temperature min./max. | Typ. switch-on time | Typ. switch-off time | Protection class |
|------------|------------------------------|---------------------|----------------------|------------------|
|            |                              |                     |                      | with connection  |
| 577775280  | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 577775220  | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 577775302  | -25 ... 50 °C                | -                   | -                    | -                |
| 577795302  | 0 ... 50 °C                  | -                   | -                    | -                |
| 5777720220 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777725280 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777725302 | -25 ... 50 °C                | -                   | -                    | -                |
| R412003424 | 0 ... 50 °C                  | -                   | -                    | IP65             |
| 5777955280 | 0 ... 50 °C                  | -                   | -                    | IP65             |
| 5777760220 | 0 ... 50 °C                  | 25 ms               | 55 ms                | IP65             |
| 5777765270 | 0 ... 50 °C                  | 25 ms               | 55 ms                | IP65             |
| 5777765280 | 0 ... 50 °C                  | 25 ms               | 55 ms                | IP65             |
| 5777765302 | 0 ... 50 °C                  | -                   | -                    | -                |
| 5777945302 | 0 ... 50 °C                  | -                   | -                    | -                |
| 5777710220 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777715280 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777715302 | -25 ... 50 °C                | -                   | -                    | -                |
| 5777750220 | 0 ... 50 °C                  | 25 ms               | 55 ms                | IP65             |
| 5777755280 | 0 ... 50 °C                  | 25 ms               | 55 ms                | IP65             |
| 5777755302 | 0 ... 50 °C                  | -                   | -                    | -                |
| 5777700220 | -25 ... 50 °C                | 25 ms               | 55 ms                | IP65             |
| 5777705302 | -25 ... 50 °C                | -                   | -                    | -                |

| Part No.   | basic valve with electrical connector | ATEX          | Weight  | Fig.   |
|------------|---------------------------------------|---------------|---------|--------|
| 5777770220 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777775270 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777775280 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777775220 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777775302 | Basic valve without coil              | ATEX optional | -       | Fig. 2 |
| 5777955302 | Basic valve without coil              | ATEX optional | -       | Fig. 1 |
| 5777720220 | -                                     | -             | 0,72 kg | Fig. 2 |
| 5777725280 | -                                     | -             | 0,72 kg | Fig. 2 |
| 5777725302 | Basic valve without coil              | ATEX optional | -       | Fig. 2 |
| R412003424 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777955280 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777760220 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777765270 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777765280 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777765302 | Basic valve without coil              | ATEX optional | -       | Fig. 1 |
| 5777945302 | Basic valve without coil              | ATEX optional | -       | Fig. 1 |
| 5777710220 | -                                     | -             | 0,72 kg | Fig. 2 |
| 5777715280 | -                                     | -             | 0,72 kg | Fig. 2 |
| 5777715302 | Basic valve without coil              | ATEX optional | -       | Fig. 2 |
| 5777750220 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777755280 | -                                     | -             | 0,72 kg | Fig. 1 |
| 5777755302 | Basic valve without coil              | ATEX optional | -       | Fig. 1 |
| 5777700220 | -                                     | -             | 0,72 kg | Fig. 2 |

| Part No.   | basic valve with electrical connector | ATEX          | Weight | Fig.   |
|------------|---------------------------------------|---------------|--------|--------|
| 5777705302 | Basic valve without coil              | ATEX optional | -      | Fig. 2 |

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

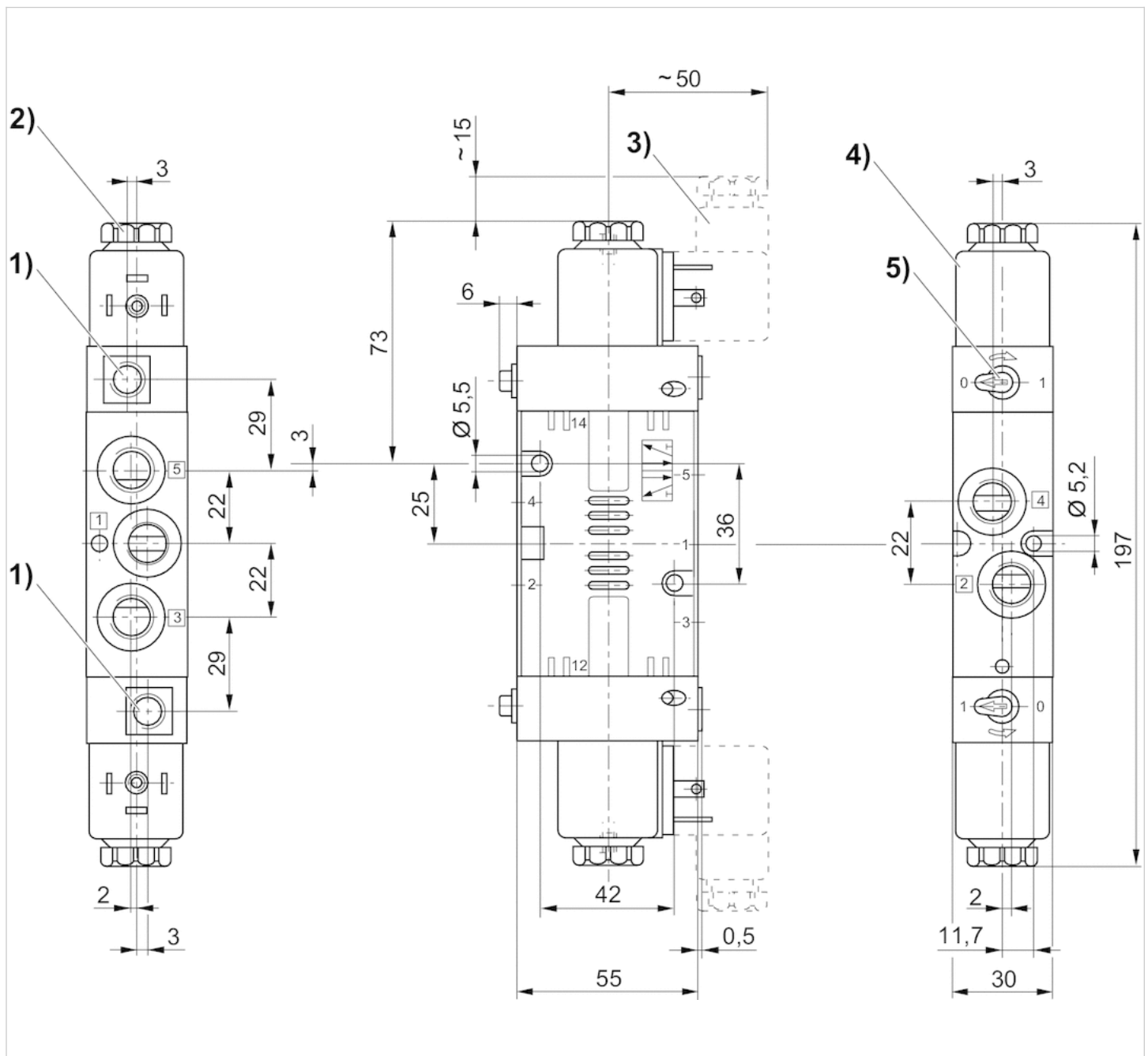
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.  
 Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).  
 ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

| Material |                                                |
|----------|------------------------------------------------|
| Housing  | Die cast zinc Polyamide fiber-glass reinforced |
| Seals    | Acrylonitrile butadiene rubber                 |

## Dimensions

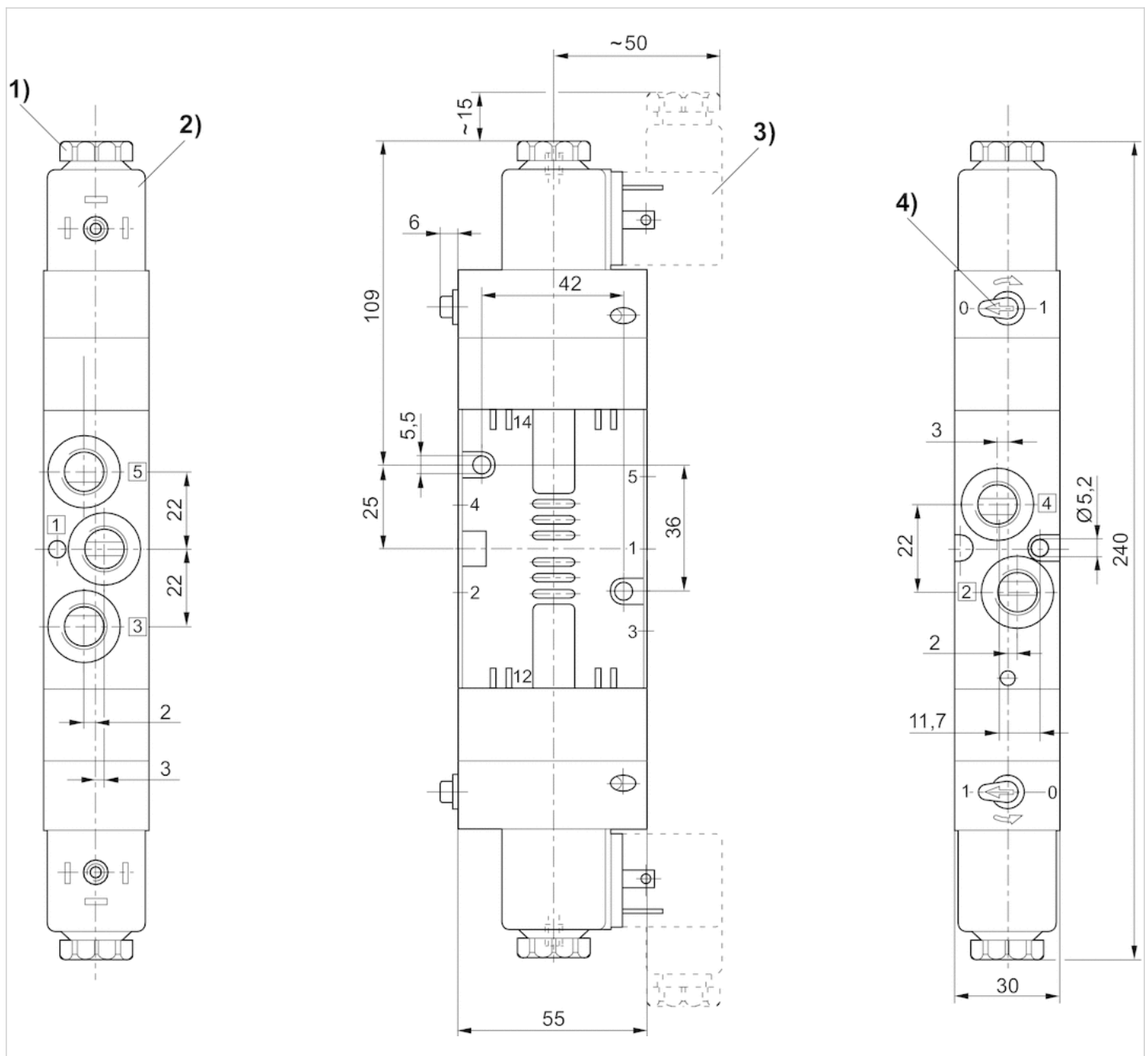
Dimensions, Fig. 1



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector 4) Coil can be plugged at 45° intervals 5) Manual override



Fig. 2



1) After removal of cap M5 internal thread 2) Coil can be plugged at 45° intervals 3) Valve plug connector 4) Manual override

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