

# 5/2-directional valve, Series CD07

- 5/2
- Qn = 1200 l/min
- Pilot valve width : 30 mm
- 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
- 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.    | 2 ... 10 bar                        |
| Ambient temperature min./max. | -25 ... 50 °C                       |
| Medium temperature min./max.  | -25 ... 50 °C                       |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 µm                               |
| Oil content of compressed air | 0 ... 1 mg/m³                       |
| Nominal flow Qn               | 1200 l/min                          |
| Nominal flow 1 ► 2            | 1200 l/min                          |
| Nominal flow 2 ► 3            | 1200 l/min                          |
| 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                     |
| 5776270220 |  |    | G 1/4                     |
| 5776272220 |  |    | G 1/4                     |
| 5776275270 |  |    | G 1/4                     |
| 5776275280 |  |    | G 1/4                     |
| 5776275220 |  |    | G 1/4                     |
| 5776275302 |  |    | G 1/4                     |
| 5776280220 |  |    | G 1/4                     |
| 5776285270 |  |    | G 1/4                     |
| 5776285280 |  |    | G 1/4                     |
| 5776285302 |  |    | G 1/4                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Output                    | Exhaust                   |
| 5776270220 | G 1/4                     | G 1/4                     |
| 5776272220 | G 1/4                     | G 1/4                     |
| 5776275270 | G 1/4                     | G 1/4                     |
| 5776275280 | G 1/4                     | G 1/4                     |
| 5776275220 | G 1/4                     | G 1/4                     |
| 5776275302 | G 1/4                     | G 1/4                     |
| 5776280220 | G 1/4                     | G 1/4                     |
| 5776285270 | G 1/4                     | G 1/4                     |
| 5776285280 | G 1/4                     | G 1/4                     |
| 5776285302 | G 1/4                     | G 1/4                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Pilot Input               | Pilot Exhaust             |
| 5776270220 | -                         | -                         |
| 5776272220 | -                         | -                         |
| 5776275270 | -                         | -                         |
| 5776275280 | -                         | -                         |
| 5776275220 | -                         | -                         |
| 5776275302 | -                         | -                         |
| 5776280220 | G 1/8                     | M5                        |
| 5776285270 | G 1/8                     | M5                        |
| 5776285280 | G 1/8                     | M5                        |
| 5776285302 | G 1/8                     | M5                        |

| Part No.   | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
|            | DC                  | AC 50 Hz            | AC 60 Hz            |
| 5776270220 | 24 V                | -                   | -                   |
| 5776272220 | 24 V                | -                   | -                   |
| 5776275270 | -                   | 110 V               | 110 V               |
| 5776275280 | -                   | 230 V               | 230 V               |
| 5776275220 | -                   | 24 V                | 24 V                |
| 5776275302 | -                   | -                   | -                   |

| Part No.   | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
|            | DC                  | AC 50 Hz            | AC 60 Hz            |
| 5776280220 | 24 V                | -                   | -                   |
| 5776285270 | -                   | 110 V               | 110 V               |
| 5776285280 | -                   | 230 V               | 230 V               |
| 5776285302 | -                   | -                   | -                   |

| Part No.   | Voltage tolerance | Voltage tolerance | Voltage tolerance | Power consumption |
|------------|-------------------|-------------------|-------------------|-------------------|
|            | DC                | AC 50 Hz          | AC 60 Hz          | DC                |
| 5776270220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5776272220 | -20% / +30%       | -                 | -                 | 4,5 W             |
| 5776275270 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5776275280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5776275220 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5776275302 | -                 | -                 | -                 | -                 |
| 5776280220 | -10% / +10%       | -                 | -                 | 2,1 W             |
| 5776285270 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5776285280 | -                 | -20% / +10%       | -10% / +20%       | -                 |
| 5776285302 | -                 | -                 | -                 | -                 |

| 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        |          |
| 5776270220 | -             | -             | -               | -               | Internal |
| 5776272220 | -             | -             | -               | -               | Internal |
| 5776275270 | 4,3 VA        | 3,3 VA        | 6,8 VA          | 5,7 VA          | Internal |
| 5776275280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | Internal |
| 5776275220 | 4,3 VA        | 3,2 VA        | 6,9 VA          | 5,6 VA          | Internal |
| 5776275302 | -             | -             | -               | -               | Internal |
| 5776280220 | -             | -             | -               | -               | External |
| 5776285270 | 4,3 VA        | 3,3 VA        | 6,8 VA          | 5,7 VA          | External |
| 5776285280 | 4,8 VA        | 4,1 VA        | 6,9 VA          | 5,8 VA          | External |
| 5776285302 | -             | -             | -               | -               | External |

| Part No.   | Working pressure min./max. | Typ. switch-on time | Typ. switch-off time | Protection class |
|------------|----------------------------|---------------------|----------------------|------------------|
|            |                            |                     |                      | with connection  |
| 5776270220 | 2 ... 10 bar               | 21 ms               | 21 ms                | IP65             |
| 5776272220 | 2 ... 10 bar               | 21 ms               | 21 ms                | IP65             |
| 5776275270 | 2 ... 10 bar               | 21 ms               | 21 ms                | IP65             |
| 5776275280 | 2 ... 10 bar               | 21 ms               | 21 ms                | IP65             |
| 5776275220 | 2 ... 10 bar               | 21 ms               | 21 ms                | IP65             |
| 5776275302 | 2 ... 10 bar               | -                   | -                    | -                |
| 5776280220 | -0,95 ... 10 bar           | 21 ms               | 21 ms                | IP65             |
| 5776285270 | -0,95 ... 10 bar           | 21 ms               | 21 ms                | IP65             |
| 5776285280 | -0,95 ... 10 bar           | 21 ms               | 21 ms                | IP65             |
| 5776285302 | -0,95 ... 10 bar           | -                   | -                    | -                |

| Part No.   | basic valve with electrical connector | Power consumption        | ATEX |
|------------|---------------------------------------|--------------------------|------|
| 5776270220 | -                                     | -                        | -    |
| 5776272220 | -                                     | Higher power consumption | -    |

| Part No.   | basic valve with electrical connector | Power consumption | ATEX          |
|------------|---------------------------------------|-------------------|---------------|
| 5776275270 | -                                     | -                 | -             |
| 5776275280 | -                                     | -                 | -             |
| 5776275220 | -                                     | -                 | -             |
| 5776275302 | Basic valve without coil              | -                 | ATEX optional |
| 5776280220 | -                                     | -                 | -             |
| 5776285270 | -                                     | -                 | -             |
| 5776285280 | -                                     | -                 | -             |
| 5776285302 | Basic valve without coil              | -                 | ATEX optional |

| Part No.   | Weight  |
|------------|---------|
| 5776270220 | 0,75 kg |
| 5776272220 | 0,75 kg |
| 5776275270 | 0,75 kg |
| 5776275280 | 0,75 kg |
| 5776275220 | 0,75 kg |
| 5776275302 | -       |
| 5776280220 | 0,75 kg |
| 5776285270 | 0,75 kg |
| 5776285280 | 0,75 kg |
| 5776285302 | -       |

Nominal flow Q<sub>n</sub> 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).

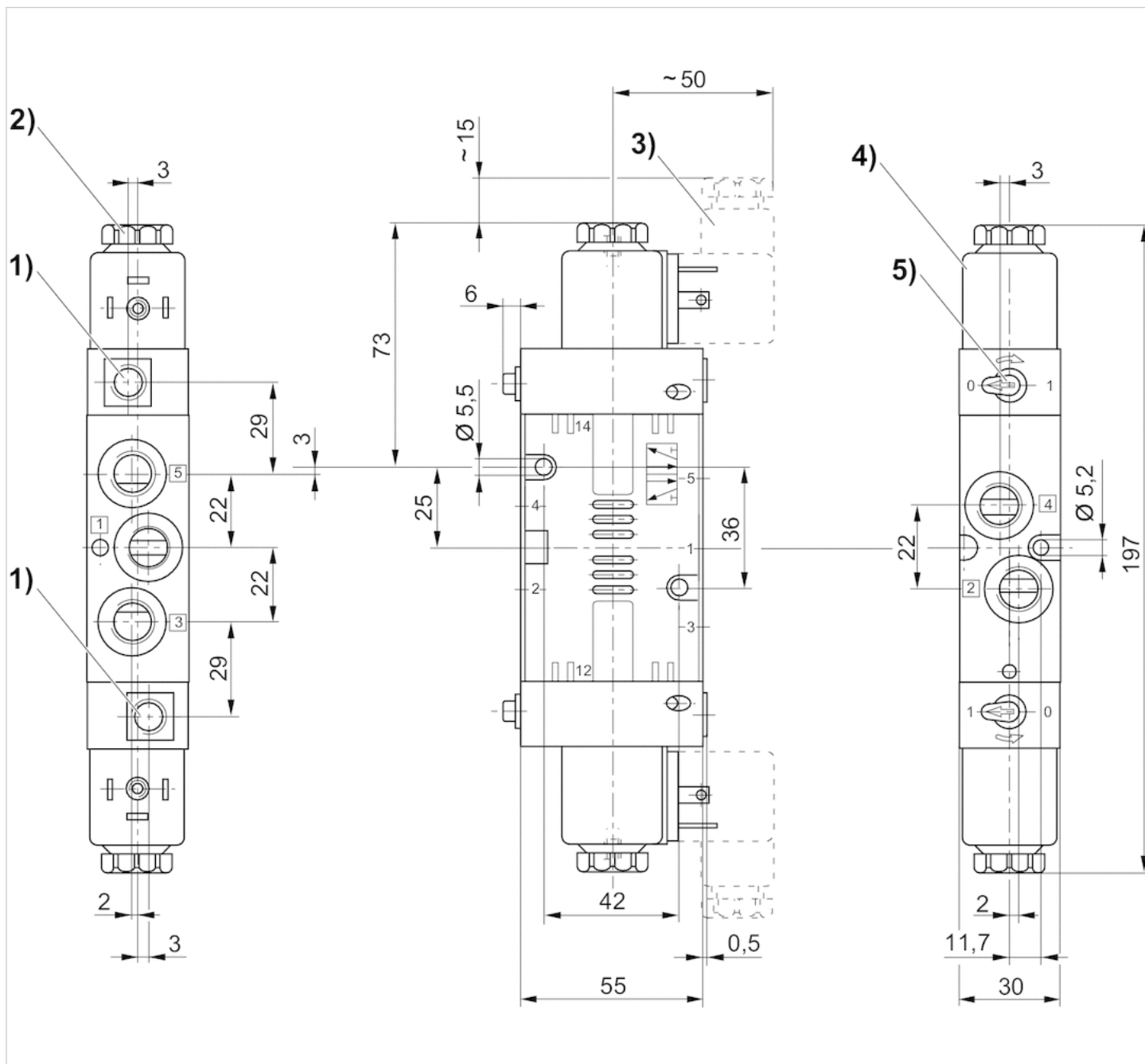
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## 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

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