

## Series 581, size 2



**AVENTICS™**

**AVENTICS Series 581 - Size 2**  
**Standardized valves**

  
**EMERSON™**

## **Series 581, size 2**

The AVENTICS Series 581 complies with the valve standard ISO 5599-1. Due to the level of modularity, the Series offers all valve functions, integrated throttle valves, various pilot coils, and a comprehensive range of accessories.

- Standardized valve system
- ISO size 1 to 4 available
- Robust design
- Numerous voltage ranges
- Pressure range up to 16 bar possible
- CNOMO interface
- Small dimensions
- Fast shifting times
- Easy and flexible custom specific configurations via online configurator



## Product overview

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## Product overview

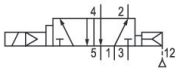
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Product overview

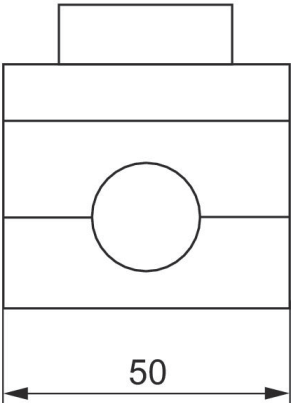
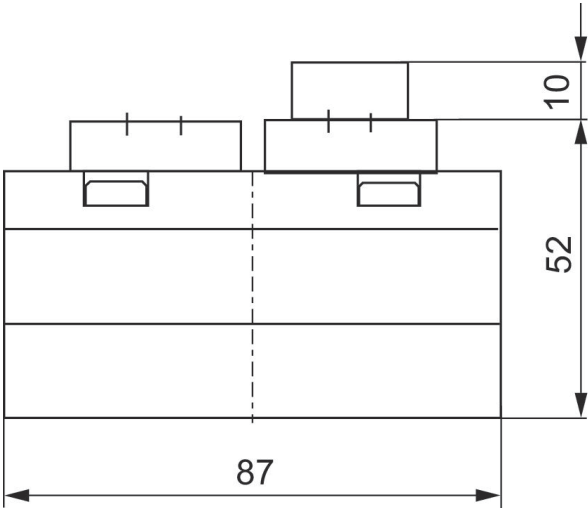
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5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, with differential piston, ATEX, Max. control pressure 10 bar

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: -0.95 bar ... 10 bar

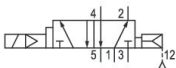


| Switching principle         | Pilot              | Part No.   |
|-----------------------------|--------------------|------------|
| 5/2, with air spring return | External, Internal | 5812680080 |



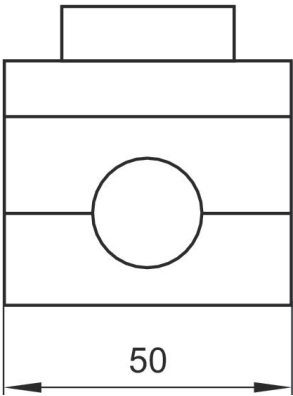
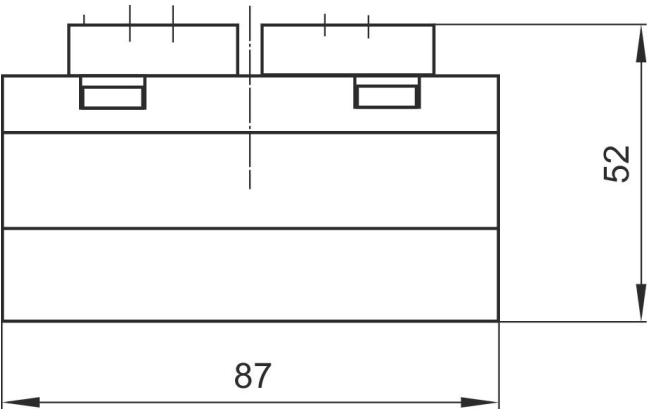
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, with differential piston, ATEX, Max. control pressure 16 bar

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



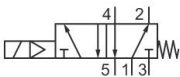
| Switching principle         | Pilot              | Part No.   |
|-----------------------------|--------------------|------------|
| 5/2, with air spring return | External, Internal | 5812680100 |

Dimensions

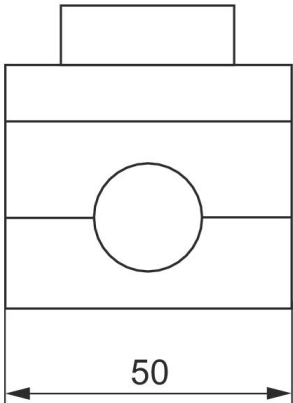
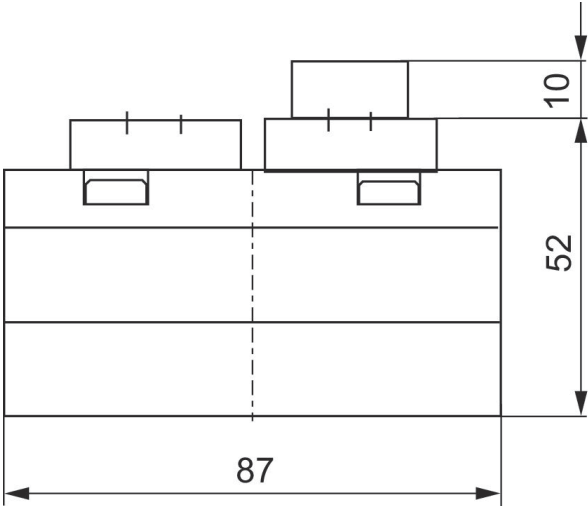


5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Single Solenoid, Max. control pressure: 10 bar

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: -0.95 bar ... 10 bar



| Switching principle     | Pilot              | Part No.   |
|-------------------------|--------------------|------------|
| 5/2, with spring return | External, Internal | 5812180080 |



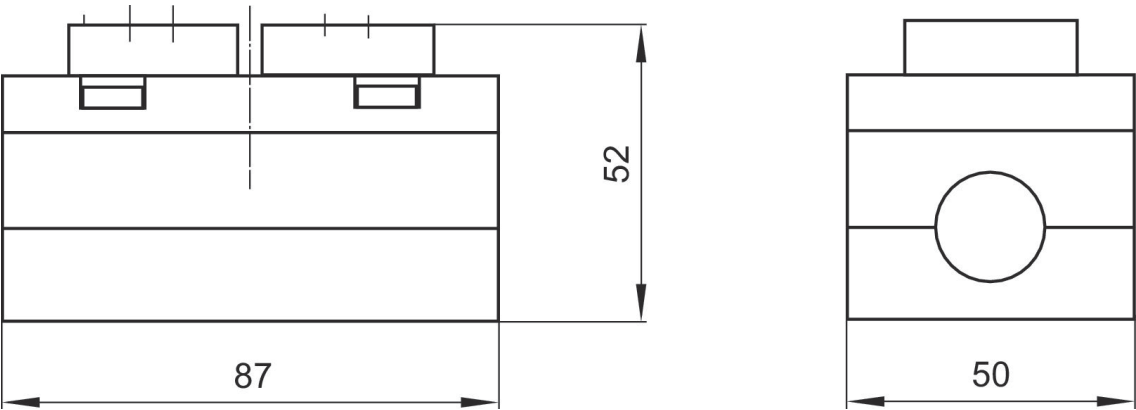
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Single Solenoid, Max. control pressure: 16 bar

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle     | Pilot              | Throttle      | Part No.   |
|--|-------------------------|--------------------|---------------|------------|
|  | 5/2, with spring return | External, Internal |               | 5812180000 |
|  | 5/2, with spring return | External, Internal | with throttle | 5812181000 |

Dimensions



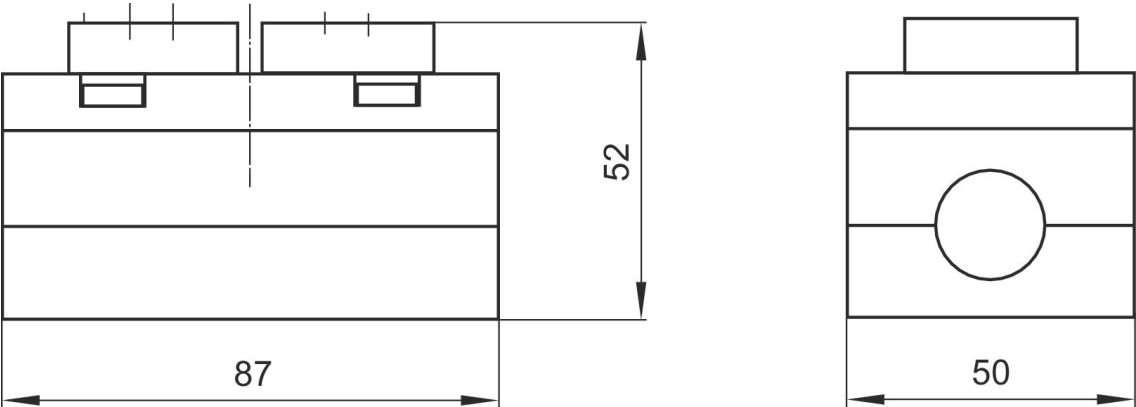
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Single Solenoid, Min. control pressure: 2,7 bar

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle         | Pilot              | Throttle      | Part No.   |
|--|-----------------------------|--------------------|---------------|------------|
|  | 5/2, with air spring return | External, Internal |               | 5812680000 |
|  | 5/2, with air spring return | External, Internal | with throttle | 5812681000 |

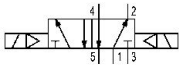
Dimensions





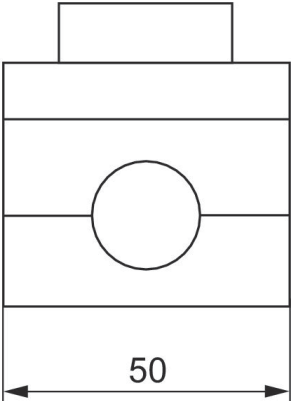
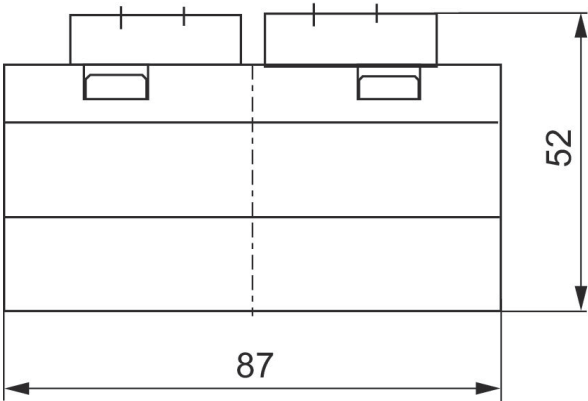
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Double Solenoid, -15...50 °C

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: -0.95 bar ... 10 bar



| Switching principle  | Pilot              | Part No.   |
|----------------------|--------------------|------------|
| 5/2, double solenoid | External, Internal | 5812280080 |

Dimensions



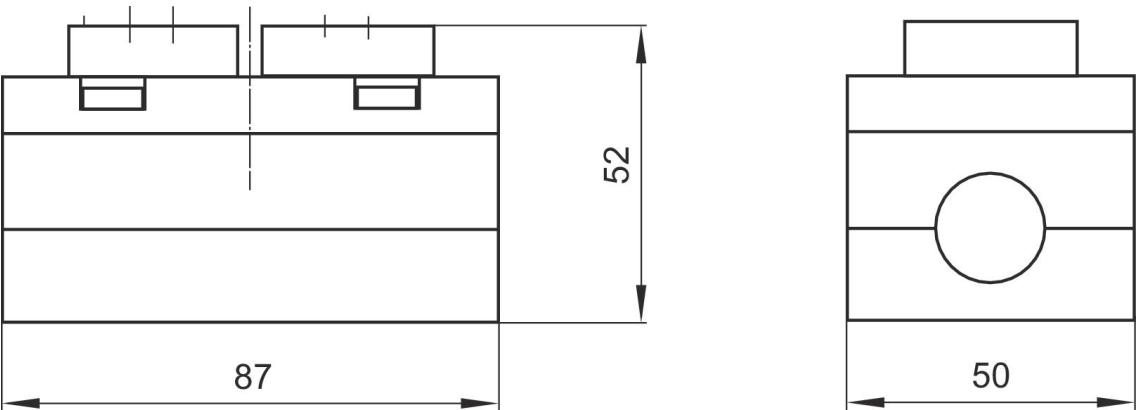
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Double Solenoid, -20...70 °C

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



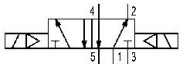
|  | Switching principle  | Pilot              | Throttle      | Part No.   |
|--|----------------------|--------------------|---------------|------------|
|  | 5/2, double solenoid | External, Internal |               | 5812280000 |
|  | 5/2, double solenoid | External, Internal | with throttle | 5812281000 |

Dimensions



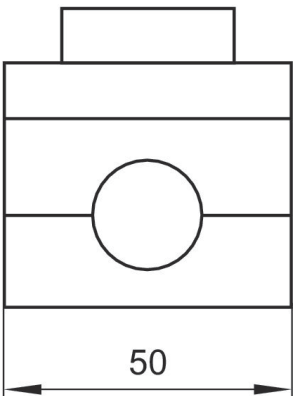
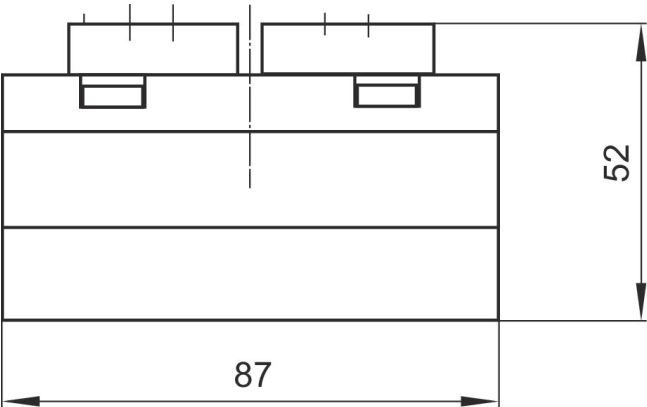
5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Double Solenoid, ATEX

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



| Switching principle  | Pilot              | Part No.   |
|----------------------|--------------------|------------|
| 5/2, double solenoid | External, Internal | 5812280100 |

Dimensions



5/2-directional valve, Series 581, size 2, Single Air Pilot

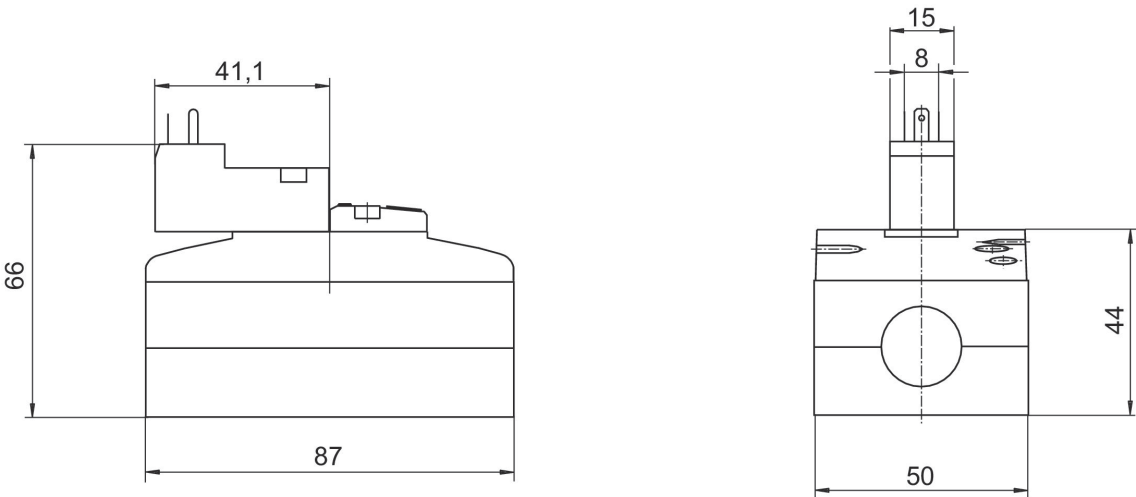
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812150130 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812151130 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812152130 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812153130 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812150130 |
| with throttle | 5812151130 |
|               | 5812152130 |
| with throttle | 5812153130 |

Dimensions



5/2-directional valve, Series 581, size 2, Single Solenoid, LED

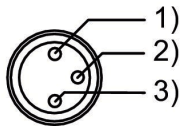
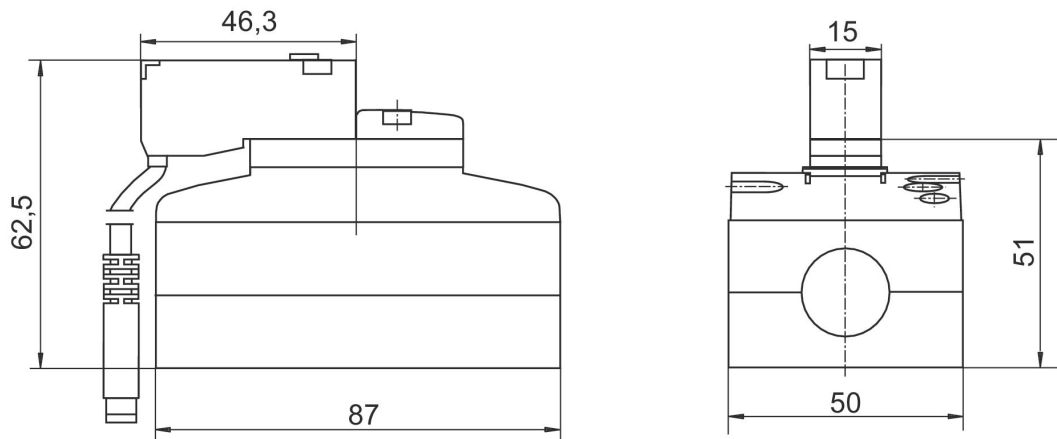
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Cable length L [m] | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------|--------------------------|---------------------|----------------------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812150160 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812151160 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812152160 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812153160 |

| Pilot    | Throttle      | Part No.   |
|----------|---------------|------------|
| Internal |               | 5812150160 |
| Internal | with throttle | 5812151160 |
| External |               | 5812152160 |
| External | with throttle | 5812153160 |

Dimensions



Pin assignment 1) brown (+24 V) 2) green/yellow (ground) 3) blue (0 V)

5/2-directional valve, Series 581, size 2, Double Solenoid

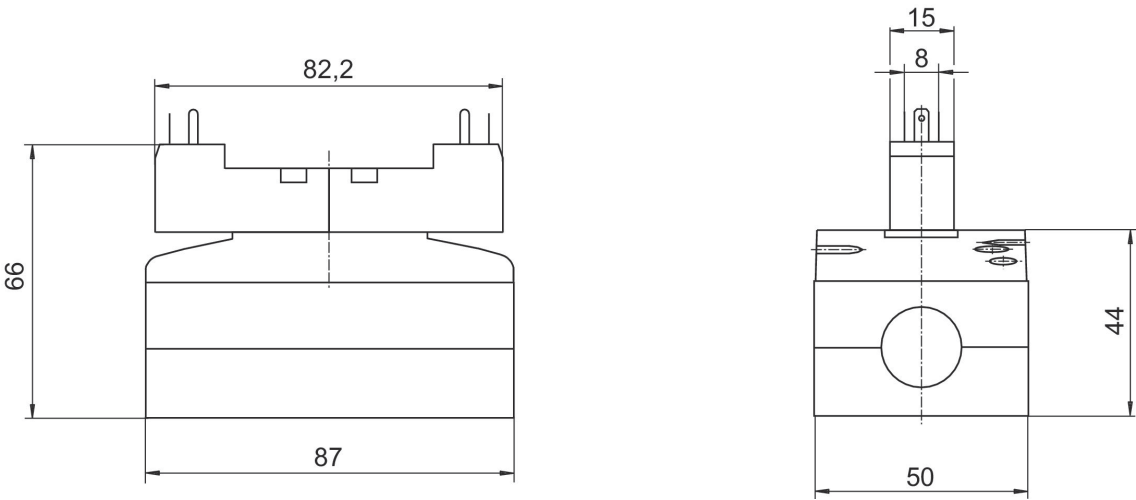
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 13                  | 13                   | Internal | 5812260130 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 13                  | 13                   | Internal | 5812261130 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 13                  | 13                   | External | 5812262130 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 13                  | 13                   | External | 5812263130 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812260130 |
| with throttle | 5812261130 |
|               | 5812262130 |
| with throttle | 5812263130 |

Dimensions



5/2-directional valve, Series 581, size 2, Double Solenoid, LED

Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar

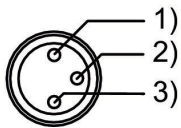
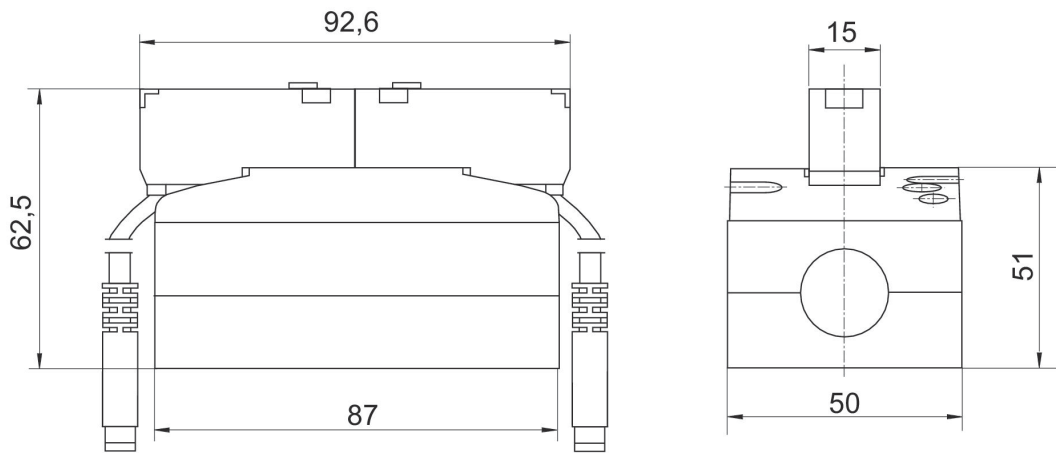


|  | Switching principle  | Operational voltage | Voltage tolerance DC | Cable length L [m] | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------|--------------------------|---------------------|----------------------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 13                  | 13                   | 5812260160 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 13                  | 13                   | 5812261160 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 13                  | 13                   | 5812262160 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 13                  | 13                   | 5812263160 |

| Pilot    | Throttle      | Part No.   |
|----------|---------------|------------|
| Internal |               | 5812260160 |
| Internal | with throttle | 5812261160 |
| External |               | 5812262160 |
| External | with throttle | 5812263160 |



Dimensions



Pin assignment 1) brown (+24 V) 2) green/yellow (ground) 3) blue (0 V)

5/2-directional valve, Series 581, size 2, Single Air Pilot

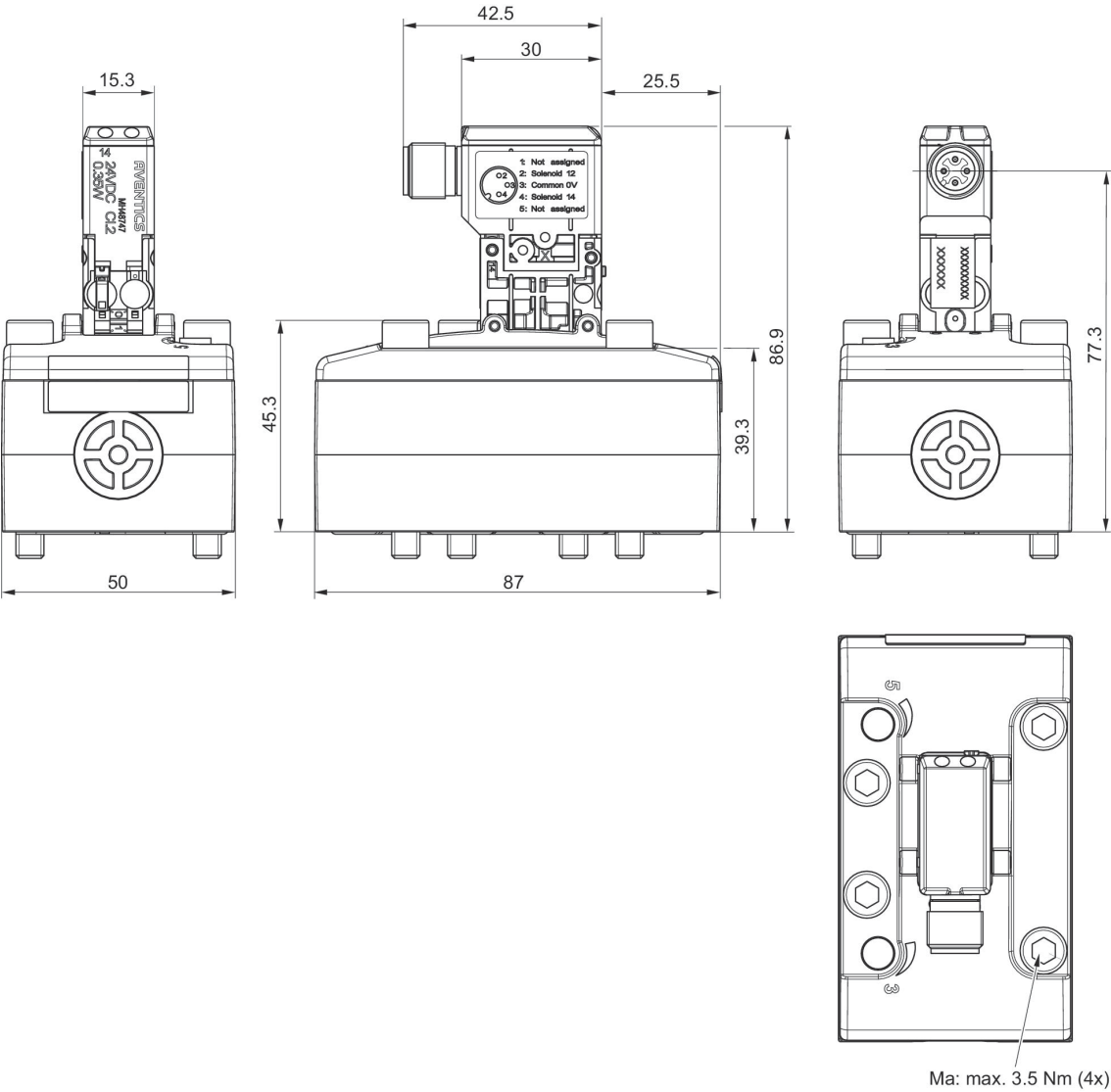
Flow: 4800 l/min  
Activation: Electrically  
Control pressure min./max.: 2.8 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812112720 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812112710 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812110720 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812110710 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812113720 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812113710 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812111720 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812111710 |

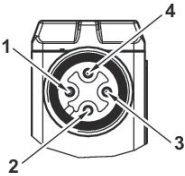
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812112720 |
|               | with detent     | 5812112710 |
|               | without detent  | 5812110720 |
|               | with detent     | 5812110710 |
| with throttle | without detent  | 5812113720 |
| with throttle | with detent     | 5812113710 |
| with throttle | without detent  | 5812111720 |
| with throttle | with detent     | 5812111710 |

Dimensions



5812112720, 5812112710, 5812110720, 5812110710, 5812113720, 5812113710, 5812111720, 5812111710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

5/2-directional valve, Series 581, size 2, Single Solenoid, differential piston

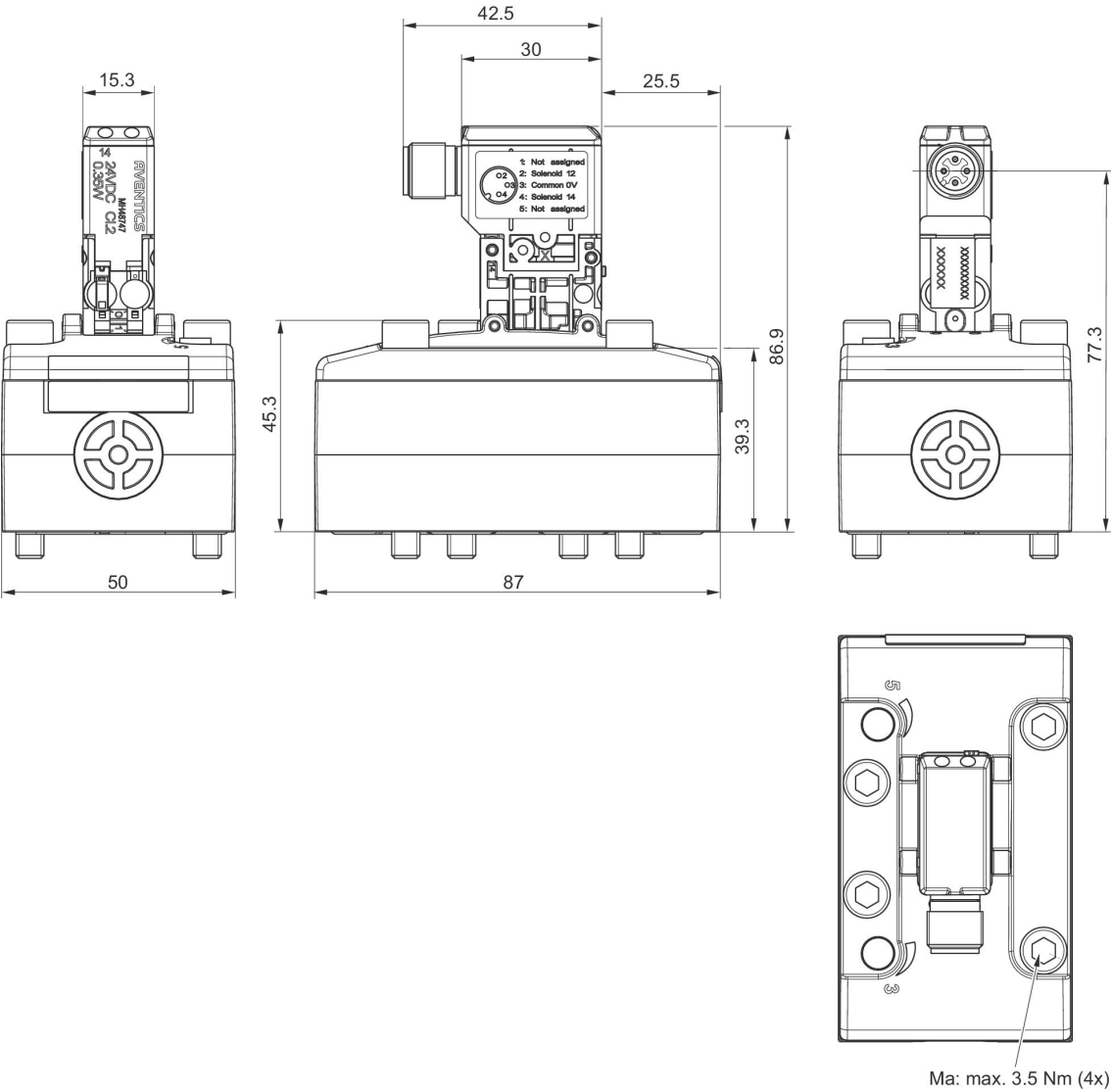
Flow: 4800 l/min  
Activation: Electrically  
Control pressure min./max.: 2.3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812612720 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812612710 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812610720 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812610710 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812613720 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812613710 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812611720 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812611710 |

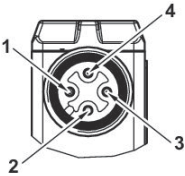
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812612720 |
|               | with detent     | 5812612710 |
|               | without detent  | 5812610720 |
|               |                 | 5812610710 |
| with throttle | without detent  | 5812613720 |
| with throttle |                 | 5812613710 |
| with throttle | without detent  | 5812611720 |
| with throttle |                 | 5812611710 |

Dimensions



5812612720, 5812612710, 5812610720, 5812610710, 5812613720, 5812613710, 5812611720, 5812611710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

5/2-directional valve, Series 581, size 2, Double Solenoid

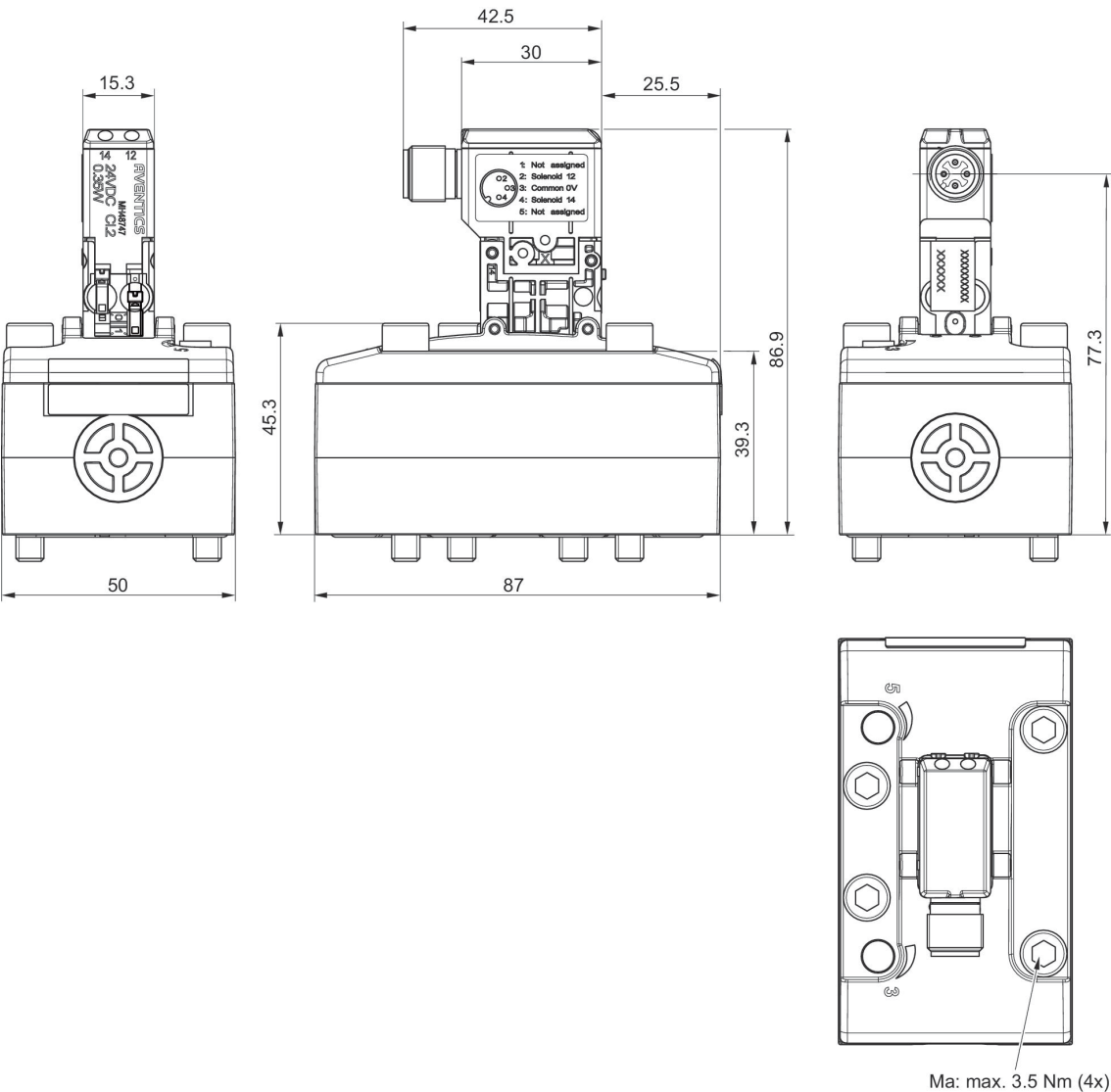
Flow: 4800 l/min  
Activation: Electrically  
Control pressure min./max.: 1.7 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | External | 5812222720 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | External | 5812222710 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | Internal | 5812220720 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | Internal | 5812220710 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | External | 5812223710 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | External | 5812223720 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | Internal | 5812221720 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 15                   | Internal | 5812221710 |

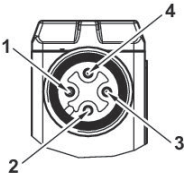
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812222720 |
|               |                 | 5812222710 |
|               | without detent  | 5812220720 |
|               |                 | 5812220710 |
| with throttle |                 | 5812223710 |
| with throttle | without detent  | 5812223720 |
| with throttle | without detent  | 5812221720 |
| with throttle |                 | 5812221710 |

Dimensions



5812222720, 5812222710, 5812220720, 5812220710, 5812223710, 5812223720, 5812221720, 5812221710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

## 5/2-directional valve, Series 581, size 2, Single Air Pilot

Flow: 2700 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

Ambient temperature min./max.: -15 °C ... 50 °C

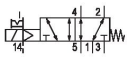
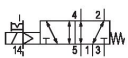
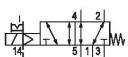
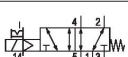
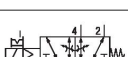
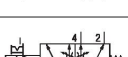
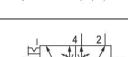
Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 12 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812110500 |
|  | 5/2, with spring return | 24 V AC             |                      |                          | 15                  | 46                   | Internal | 5812110200 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812110100 |
|  | 5/2, with spring return | 48 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812110600 |
|  | 5/2, with spring return | 110 V AC            |                      |                          | 15                  | 46                   | Internal | 5812110300 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 15                  | 46                   | Internal | 5812110400 |
|  | 5/2, with spring return |                     |                      |                          | 15                  | 46                   | Internal | 5812110000 |
|  | 5/2, with spring return | 12 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812111500 |
|  | 5/2, with spring return | 24 V AC             |                      |                          | 15                  | 46                   | Internal | 5812111200 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812111100 |
|  | 5/2, with spring return | 48 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | Internal | 5812111600 |
|  | 5/2, double solenoid    | 110 V AC            |                      |                          | 15                  | 46                   | Internal | 5812111300 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 15                  | 46                   | Internal | 5812111400 |
|  | 5/2, with spring return |                     |                      |                          | 15                  | 46                   | Internal | 5812111000 |
|  | 5/2, with spring return | 12 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812112500 |

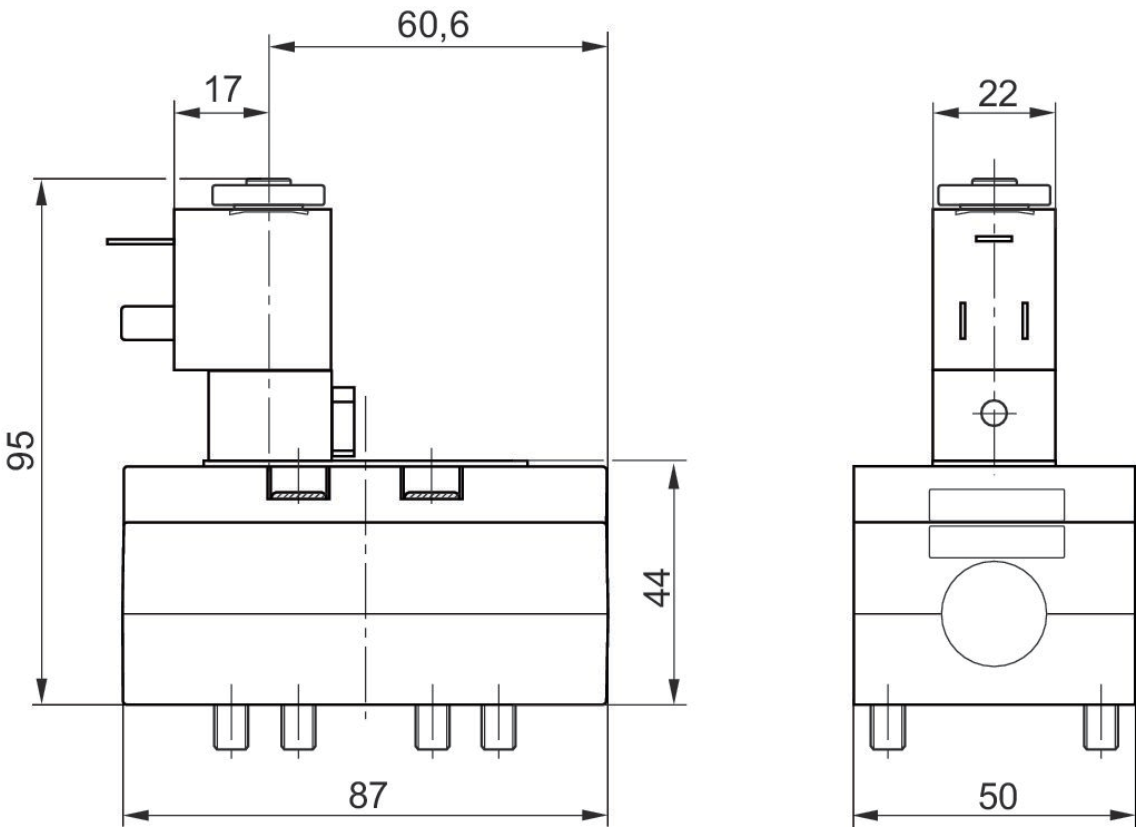


|                                                                                    | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/2, with spring return | 24 V AC             |                      |                          | 15                  | 46                   | External | 5812112200 |
|    | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812112100 |
|    | 5/2, with spring return | 48 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812112600 |
|    | 5/2, with spring return | 110 V AC            |                      |                          | 15                  | 46                   | External | 5812112300 |
|    | 5/2, with spring return | 230 V AC            |                      |                          | 15                  | 46                   | External | 5812112400 |
|    | 5/2, with spring return |                     |                      |                          | 15                  | 46                   | External | 5812112000 |
|    | 5/2, with spring return | 12 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812113500 |
|    | 5/2, with spring return | 24 V AC             |                      |                          | 15                  | 46                   | External | 5812113200 |
|    | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812113100 |
|   | 5/2, with spring return | 48 V DC             | -10 % / +10 %        | 5                        | 15                  | 46                   | External | 5812113600 |
|  | 5/2, with spring return | 110 V AC            |                      |                          | 15                  | 46                   | External | 5812113300 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 15                  | 46                   | External | 5812113400 |
|  | 5/2, with spring return |                     |                      |                          | 15                  | 46                   | External | 5812113000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812110500 |
|               | 5812110200 |
|               | 5812110100 |
|               | 5812110600 |
|               | 5812110300 |
|               | 5812110400 |
|               | 5812110000 |
| with throttle | 5812111500 |
| with throttle | 5812111200 |
| with throttle | 5812111100 |
| with throttle | 5812111600 |
| with throttle | 5812111300 |
| with throttle | 5812111400 |
| with throttle | 5812111000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812112500 |
|               | 5812112200 |
|               | 5812112100 |
|               | 5812112600 |
|               | 5812112300 |
|               | 5812112400 |
|               | 5812112000 |
| with throttle | 5812113500 |
| with throttle | 5812113200 |
| with throttle | 5812113100 |
| with throttle | 5812113600 |
| with throttle | 5812113300 |
| with throttle | 5812113400 |
| with throttle | 5812113000 |

Dimensions



The pilot valves can be loosened and turned through 180°.

## 5/2-directional valve, Series 581, size 2, Single Solenoid, differential piston

Flow: 2700 l/min

Activation: Electrically

Control pressure min./max.: 2.7 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

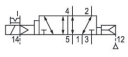
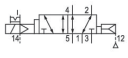
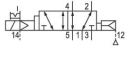
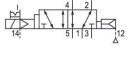
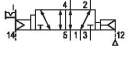
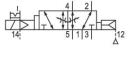
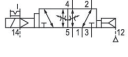
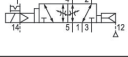
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



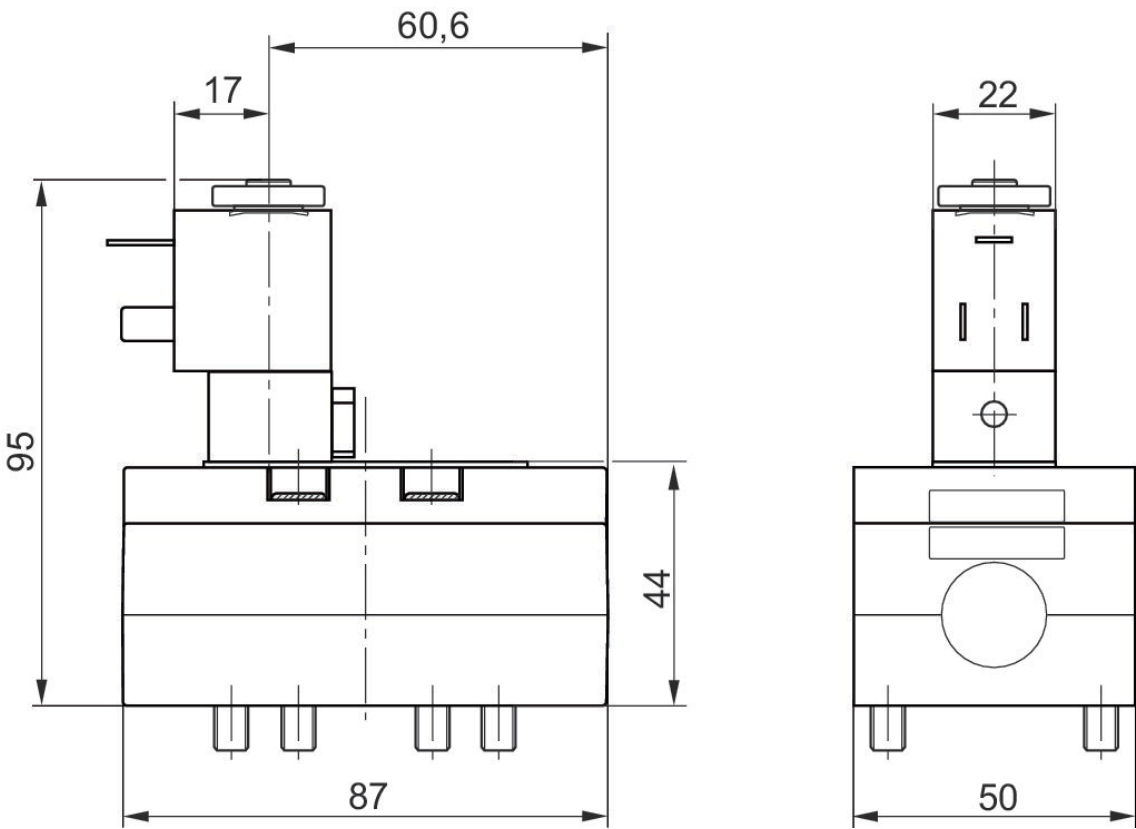
|  | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with air spring return | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812610500 |
|  | 5/2, with air spring return | 24 V AC             |                      |                          | 12                  | 41                   | Internal | 5812610200 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812610100 |
|  | 5/2, with air spring return | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812610600 |
|  | 5/2, with air spring return | 110 V AC            |                      |                          | 12                  | 41                   | Internal | 5812610300 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 12                  | 41                   | Internal | 5812610400 |
|  | 5/2, with air spring return |                     |                      |                          | 12                  | 41                   | Internal | 5812610000 |
|  | 5/2, with air spring return | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812611500 |
|  | 5/2, with air spring return | 24 V AC             |                      |                          | 12                  | 41                   | Internal | 5812611200 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812611100 |
|  | 5/2, with air spring return | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 41                   | Internal | 5812611600 |
|  | 5/2, with air spring return | 110 V AC            |                      |                          | 12                  | 41                   | Internal | 5812611300 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 12                  | 41                   | Internal | 5812611400 |
|  | 5/2, with air spring return |                     |                      |                          | 12                  | 41                   | Internal | 5812611000 |
|  | 5/2, with air spring return | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812612500 |
|  | 5/2, with air spring return | 24 V AC             |                      |                          | 12                  | 30                   | External | 5812612200 |

|                                                                                    | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812612100 |
|    | 5/2, with air spring return | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812612600 |
|    | 5/2, with air spring return | 110 V AC            |                      |                          | 12                  | 30                   | External | 5812612300 |
|    | 5/2, with air spring return | 230 V AC            |                      |                          | 12                  | 30                   | External | 5812612400 |
|    | 5/2, with air spring return |                     |                      |                          | 12                  | 30                   | External | 5812612000 |
|    | 5/2, with air spring return | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812613500 |
|    | 5/2, with air spring return | 24 V AC             |                      |                          | 12                  | 30                   | External | 5812613200 |
|    | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812613100 |
|    | 5/2, with air spring return | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 30                   | External | 5812613600 |
|   | 5/2, with air spring return | 110 V AC            |                      |                          | 12                  | 30                   | External | 5812613300 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 12                  | 30                   | External | 5812613400 |
|  | 5/2, with air spring return |                     |                      |                          | 12                  | 30                   | External | 5812613000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812610500 |
|               | 5812610200 |
|               | 5812610100 |
|               | 5812610600 |
|               | 5812610300 |
|               | 5812610400 |
|               | 5812610000 |
| with throttle | 5812611500 |
| with throttle | 5812611200 |
| with throttle | 5812611100 |
| with throttle | 5812611600 |
| with throttle | 5812611300 |
| with throttle | 5812611400 |
| with throttle | 5812611000 |
|               | 5812612500 |
|               | 5812612200 |
|               | 5812612100 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812612600 |
|               | 5812612300 |
|               | 5812612400 |
|               | 5812612000 |
| with throttle | 5812613500 |
| with throttle | 5812613200 |
| with throttle | 5812613100 |
| with throttle | 5812613600 |
| with throttle | 5812613300 |
| with throttle | 5812613400 |
| with throttle | 5812613000 |

Dimensions



The pilot valves can be loosened and turned through 180°.

## 5/2-directional valve, Series 581, size 2, Double Solenoid

Flow: 2700 l/min

Activation: Electrically

Control pressure min./max.: 1.5 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

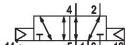
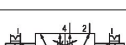
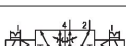
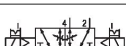
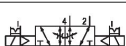
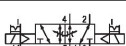
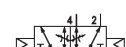
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



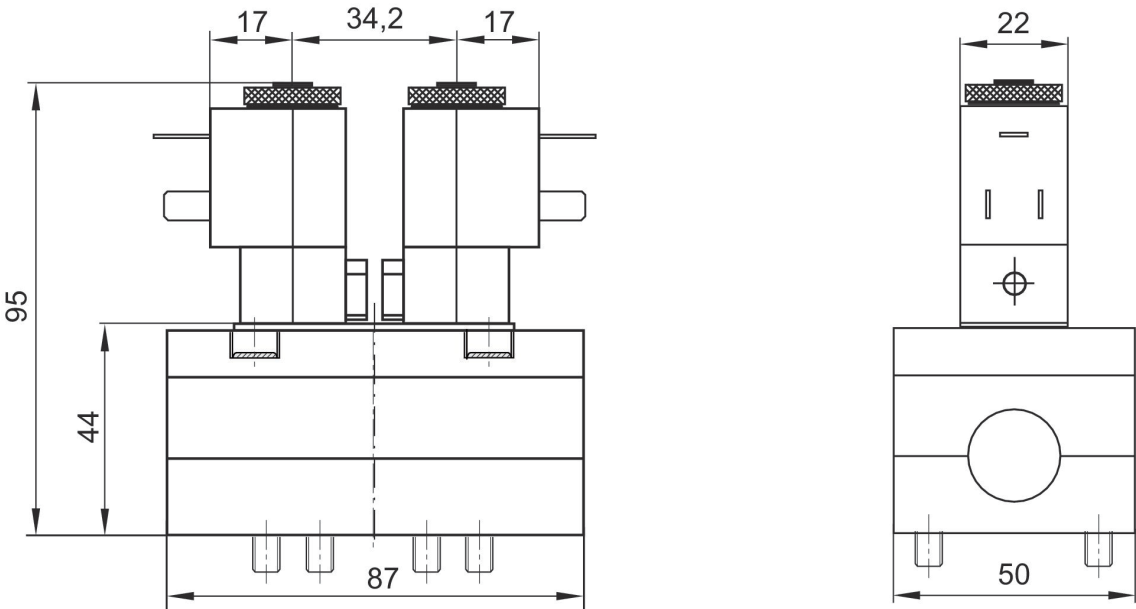
|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812220500 |
|  | 5/2, double solenoid | 24 V AC             |                      |                          | 12                  | 12                   | Internal | 5812220200 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812220100 |
|  | 5/2, double solenoid | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812220600 |
|  | 5/2, double solenoid | 110 V AC            |                      |                          | 12                  | 12                   | Internal | 5812220300 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 12                  | 12                   | Internal | 5812220400 |
|  | 5/2, double solenoid |                     |                      |                          | 12                  | 12                   | Internal | 5812220000 |
|  | 5/2, double solenoid | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812221500 |
|  | 5/2, double solenoid | 24 V AC             |                      |                          | 12                  | 12                   | Internal | 5812221200 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812221100 |
|  | 5/2, double solenoid | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | Internal | 5812221600 |
|  | 5/2, double solenoid | 110 V AC            |                      |                          | 12                  | 12                   | Internal | 5812221300 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 12                  | 12                   | Internal | 5812221400 |
|  | 5/2, double solenoid |                     |                      |                          | 12                  | 12                   | Internal | 5812221000 |
|  | 5/2, double solenoid | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812222500 |
|  | 5/2, double solenoid | 24 V AC             |                      |                          | 12                  | 12                   | External | 5812222200 |

|                                                                                    | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812222100 |
|    | 5/2, double solenoid | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812222600 |
|    | 5/2, double solenoid | 110 V AC            |                      |                          | 12                  | 12                   | External | 5812222300 |
|    | 5/2, double solenoid | 230 V AC            |                      |                          | 12                  | 12                   | External | 5812222400 |
|    | 5/2, double solenoid |                     |                      |                          | 12                  | 12                   | External | 5812222000 |
|    | 5/2, double solenoid | 12 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812223500 |
|    | 5/2, double solenoid | 24 V AC             |                      |                          | 12                  | 12                   | External | 5812223200 |
|    | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812223100 |
|    | 5/2, double solenoid | 48 V DC             | -10 % / +10 %        | 5                        | 12                  | 12                   | External | 5812223600 |
|   | 5/2, double solenoid | 110 V AC            |                      |                          | 12                  | 12                   | External | 5812223300 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 12                  | 12                   | External | 5812223400 |
|  | 5/2, double solenoid |                     |                      |                          | 12                  | 12                   | External | 5812223000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812220500 |
|               | 5812220200 |
|               | 5812220100 |
|               | 5812220600 |
|               | 5812220300 |
|               | 5812220400 |
|               | 5812220000 |
| with throttle | 5812221500 |
| with throttle | 5812221200 |
| with throttle | 5812221100 |
| with throttle | 5812221600 |
| with throttle | 5812221300 |
| with throttle | 5812221400 |
| with throttle | 5812221000 |
|               | 5812222500 |
|               | 5812222200 |
|               | 5812222100 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812222600 |
|               | 5812222300 |
|               | 5812222400 |
|               | 5812222000 |
| with throttle | 5812223500 |
| with throttle | 5812223200 |
| with throttle | 5812223100 |
| with throttle | 5812223600 |
| with throttle | 5812223300 |
| with throttle | 5812223400 |
| with throttle | 5812223000 |

Dimensions



The pilot valves can be loosened and turned through 180°.



5/2-directional valve, Series 581, size 2, Min. Single Solenoid, control pressure max.: 10 bar

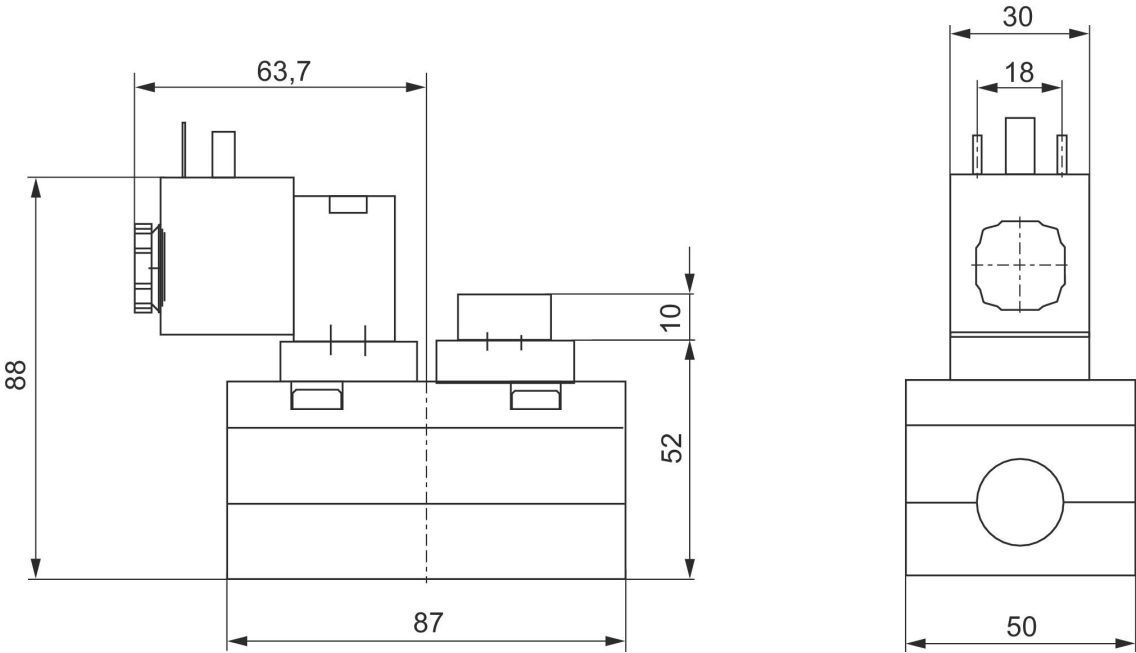
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | Internal | 5812170650 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812170450 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | Internal | 5812171650 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812171450 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | External | 5812172650 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812172450 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | External | 5812173650 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812173450 |

| Throttle      | Compatibil-ity index | Part No.   |
|---------------|----------------------|------------|
|               | 14                   | 5812170650 |
|               | 14                   | 5812170450 |
| with throttle | 14                   | 5812171650 |
| with throttle | 14                   | 5812171450 |
|               | 14                   | 5812172650 |
|               | 14                   | 5812172450 |
| with throttle | 14                   | 5812173650 |
| with throttle | 14                   | 5812173450 |

Dimensions



5/2-directional valve, Series 581, size 2, Min. Single Solenoid, control pressure max.: 16 bar

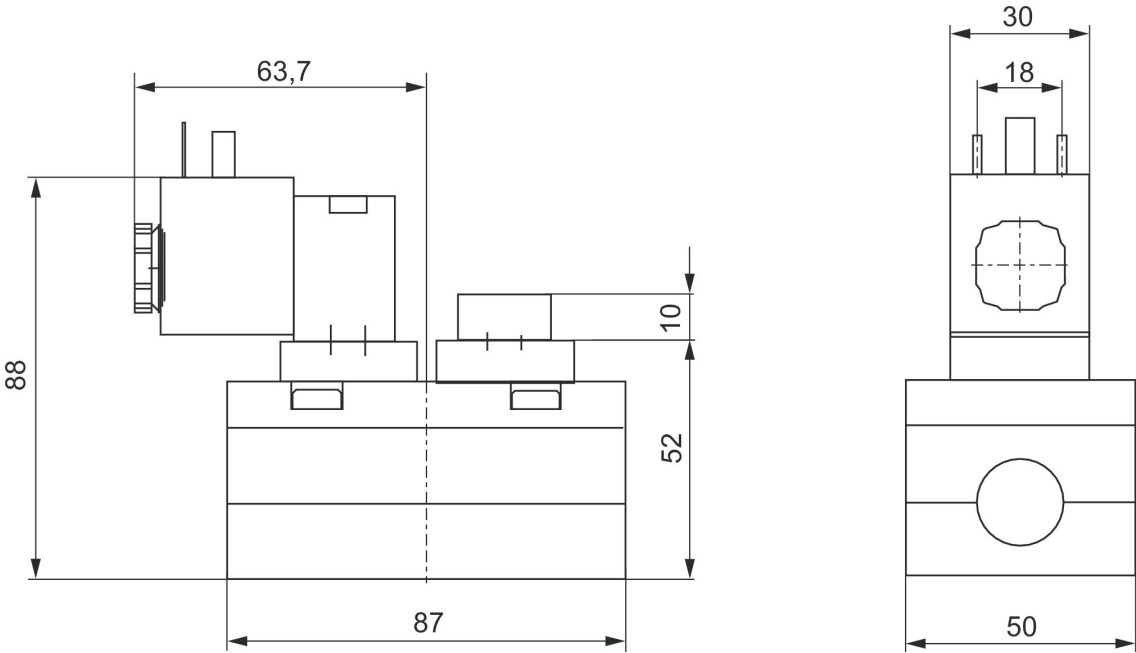
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812170540 |
|  | 5/2, with spring return | 230 V AC            | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812170440 |
|  | 5/2, with spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812171540 |
|  | 5/2, with spring return | 230 V AC            | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812171440 |
|  | 5/2, with spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812172540 |
|  | 5/2, with spring return | 230 V AC            | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812172440 |
|  | 5/2, with spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812173540 |
|  | 5/2, with spring return | 230 V AC            | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812173440 |

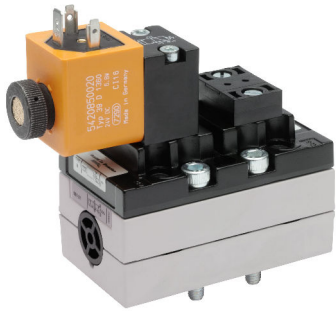
| Throttle      | Part No.   |
|---------------|------------|
|               | 5812170540 |
|               | 5812170440 |
| with throttle | 5812171540 |
| with throttle | 5812171440 |
|               | 5812172540 |
|               | 5812172440 |
| with throttle | 5812173540 |
| with throttle | 5812173440 |

Dimensions



5/2-directional valve, Series 581, size 2, With spring return, manual override: without

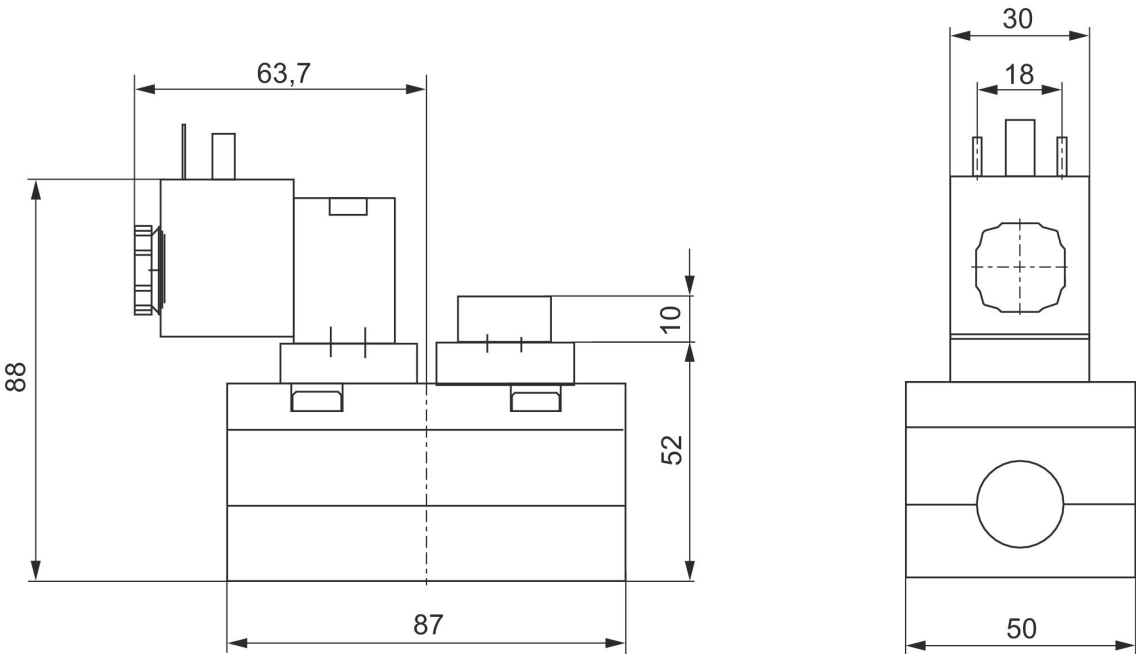
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812170530 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812170430 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812171530 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812171430 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812172530 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812172430 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812173530 |
|  | 5/2, with spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812173430 |

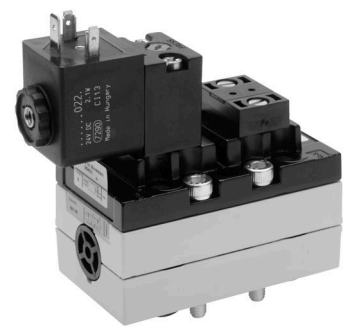
| Throttle      | Part No.   |
|---------------|------------|
|               | 5812170530 |
|               | 5812170430 |
| with throttle | 5812171530 |
| with throttle | 5812171430 |
|               | 5812172530 |
|               | 5812172430 |
| with throttle | 5812173530 |
| with throttle | 5812173430 |

Dimensions



5/2-directional valve, Series 581, size 2, Min. Single Solenoid, differential piston, control pressure max.: 10 bar

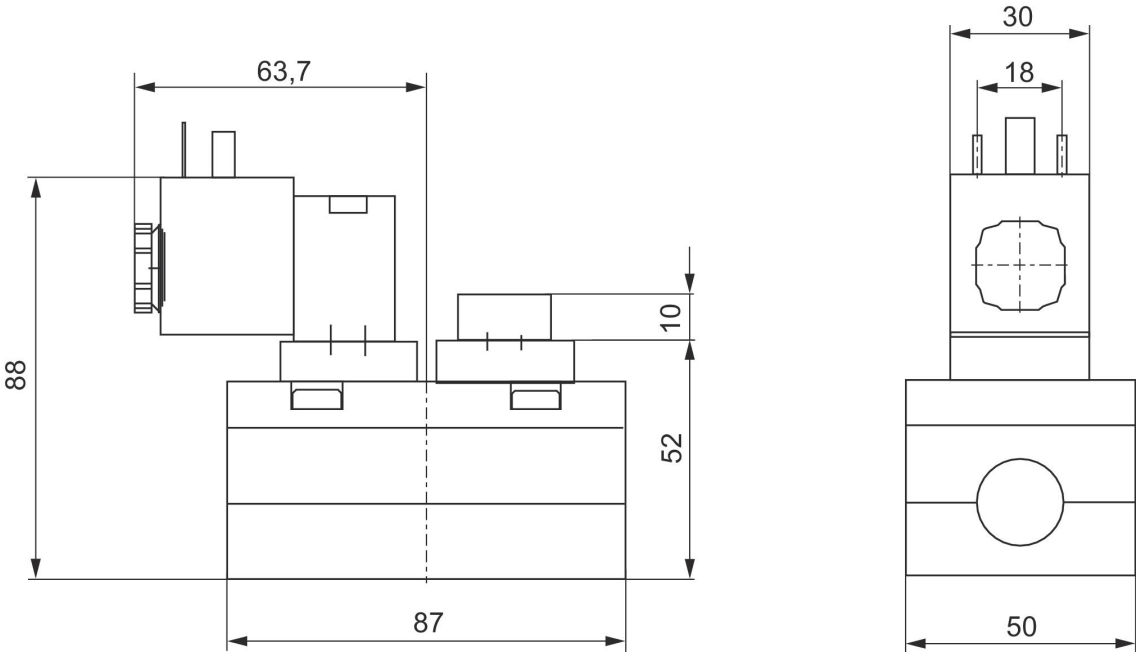
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | Internal | 5812670650 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812670450 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | Internal | 5812671650 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812671450 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | External | 5812672650 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812672450 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 40                   | External | 5812673650 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812673450 |

| Throttle      | Compatibil-ity index | Part No.   |
|---------------|----------------------|------------|
|               | 14                   | 5812670650 |
|               | 14                   | 5812670450 |
| with throttle | 14                   | 5812671650 |
| with throttle | 14                   | 5812671450 |
|               | 14                   | 5812672650 |
|               | 14                   | 5812672450 |
| with throttle | 14                   | 5812673650 |
| with throttle | 14                   | 5812673450 |

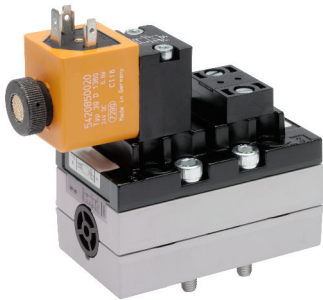
Dimensions

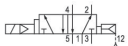
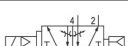
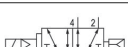
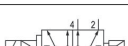
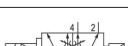
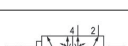




5/2-directional valve, Series 581, size 2, Min. Single Solenoid, differential piston, control pressure max.: 16 bar

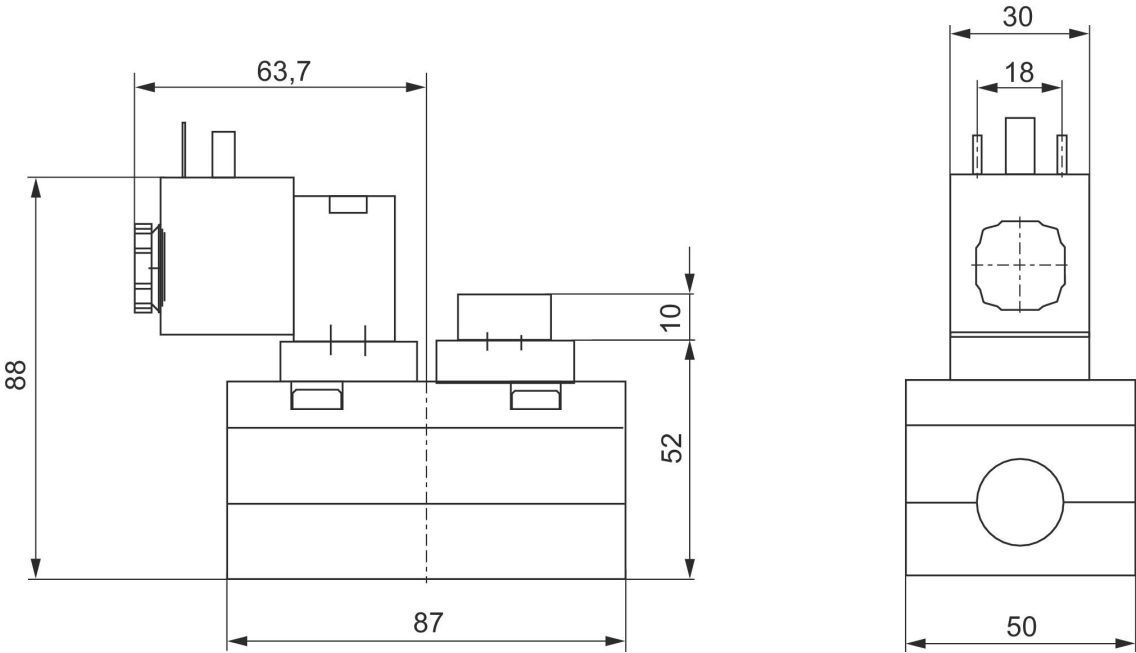
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|                                                                                    | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812670530 |
|    | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812670430 |
|    | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812671530 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812671430 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812672530 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812672430 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812673530 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812673430 |

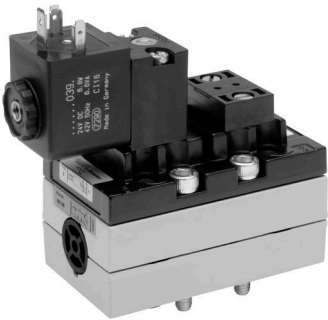
| Throttle      | Part No.   |
|---------------|------------|
|               | 5812670530 |
|               | 5812670430 |
| with throttle | 5812671530 |
| with throttle | 5812671430 |
|               | 5812672530 |
|               | 5812672430 |
| with throttle | 5812673530 |
| with throttle | 5812673430 |

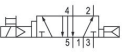
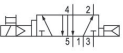
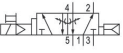
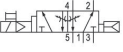
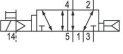
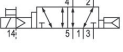
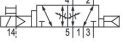
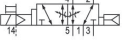
Dimensions



5/2-directional valve, Series 581, size 2, Single Solenoid, differential piston, 24 V DC / 42 V AC

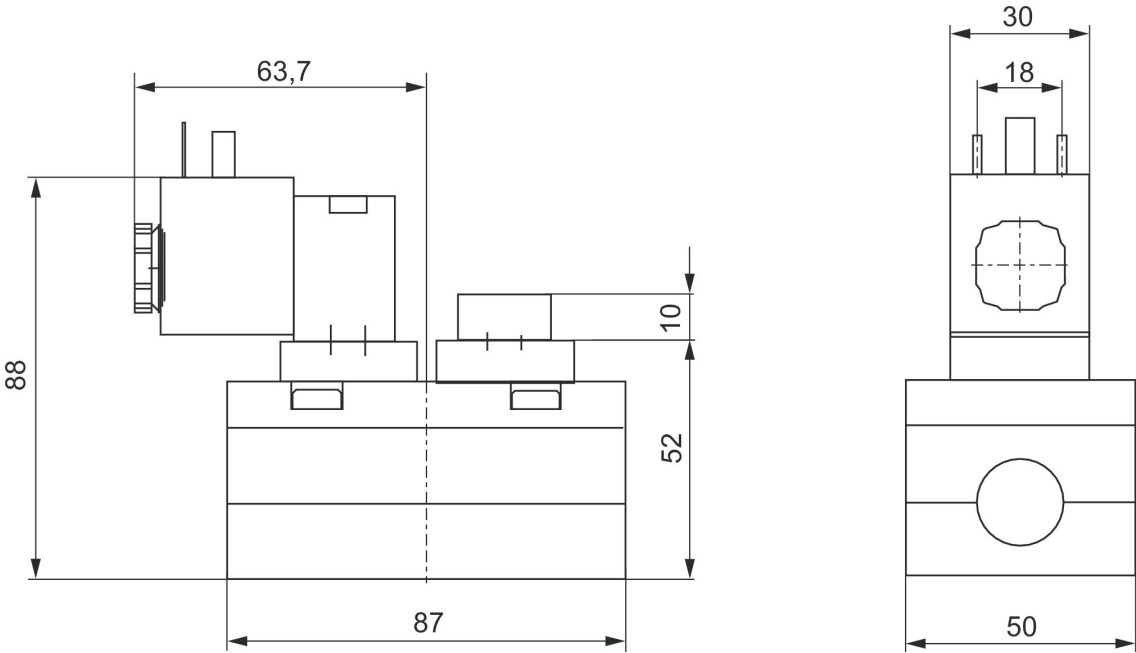
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|                                                                                    | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/2, with air spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812670540 |
|    | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812670440 |
|    | 5/2, with air spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | Internal | 5812671540 |
|   | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | Internal | 5812671440 |
|  | 5/2, with air spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812672540 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812672440 |
|  | 5/2, with air spring return | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 40                   | External | 5812673540 |
|  | 5/2, with air spring return | 230 V AC            |                      |                          | 17                  | 40                   | External | 5812673440 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812670540 |
|               | 5812670440 |
| with throttle | 5812671540 |
| with throttle | 5812671440 |
|               | 5812672540 |
|               | 5812672440 |
| with throttle | 5812673540 |
| with throttle | 5812673440 |

Dimensions



5/2-directional valve, Series 581, size 2, Double Solenoid, control pressure max.: 10 bar

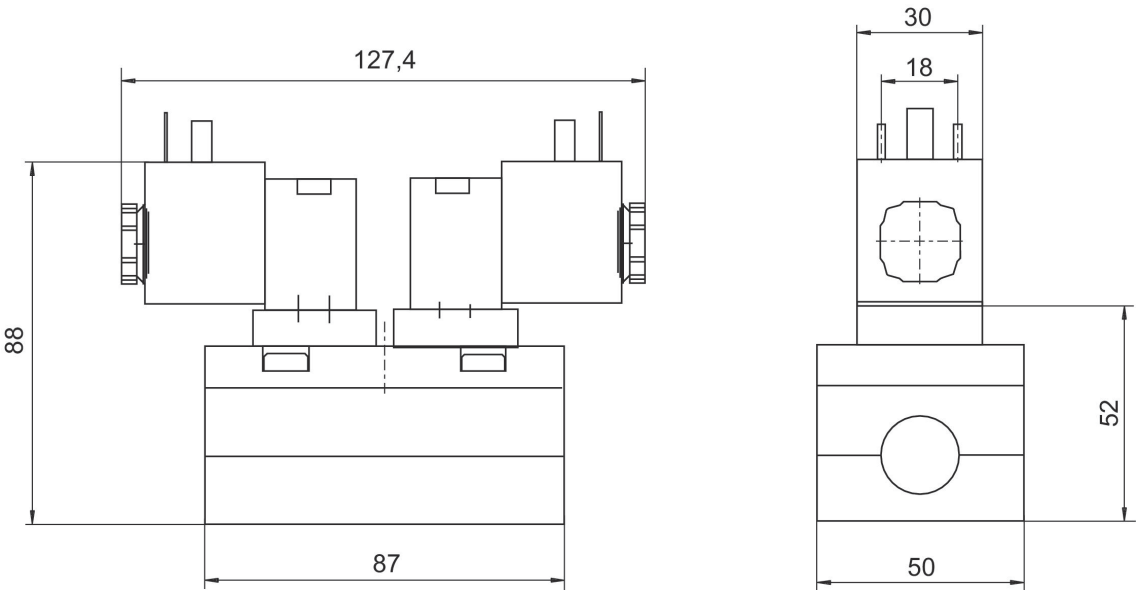
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 14                   | Internal | 5812290650 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812290450 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 14                   | Internal | 5812291650 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812291450 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 14                   | External | 5812292650 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812292450 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 14                   | External | 5812293650 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812293450 |

| Throttle      | Compatibility index | Part No.   |
|---------------|---------------------|------------|
|               | 14                  | 5812290650 |
|               | 14                  | 5812290450 |
| with throttle | 14                  | 5812291650 |
| with throttle | 14                  | 5812291450 |
|               | 14                  | 5812292650 |
|               | 14                  | 5812292450 |
| with throttle | 14                  | 5812293650 |
| with throttle | 14                  | 5812293450 |

Dimensions



5/2-directional valve, Series 581, size 2, Double Solenoid, control pressure max.: 16 bar

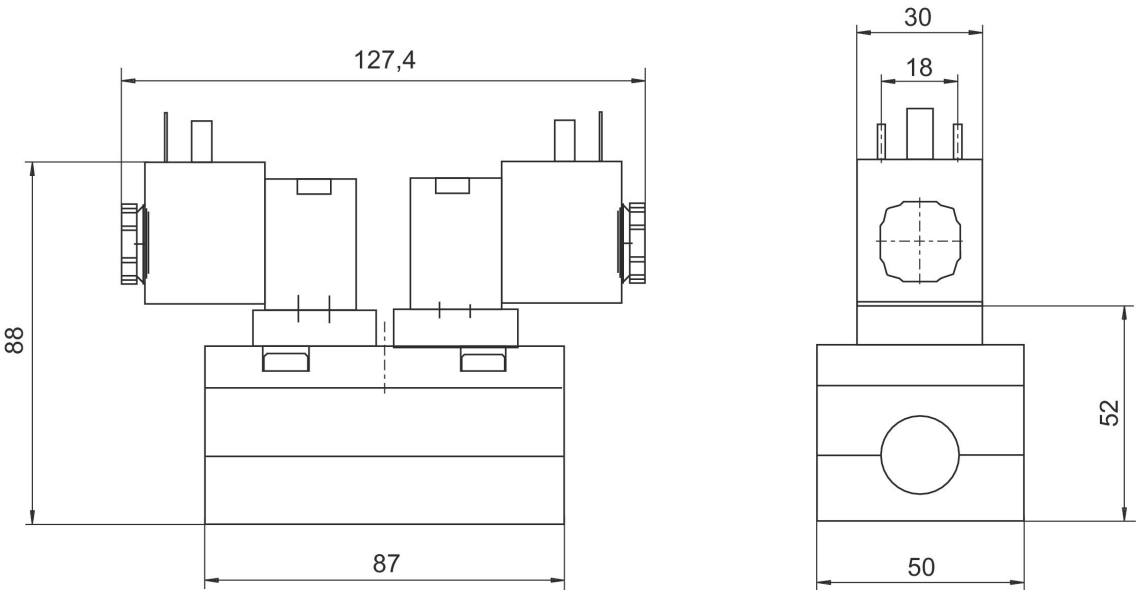
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6.7                      | 14                  | 14                   | Internal | 5812290530 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812290430 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6.7                      | 14                  | 14                   | Internal | 5812291530 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812291430 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6.7                      | 14                  | 14                   | External | 5812292530 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812292430 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6.7                      | 14                  | 14                   | External | 5812293530 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812293430 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812290530 |
|               | 5812290430 |
| with throttle | 5812291530 |
| with throttle | 5812291430 |
|               | 5812292530 |
|               | 5812292430 |
| with throttle | 5812293530 |
| with throttle | 5812293430 |

Dimensions





5/2-directional valve, Series 581, size 2, Double Solenoid, 24 V DC / 42 V AC

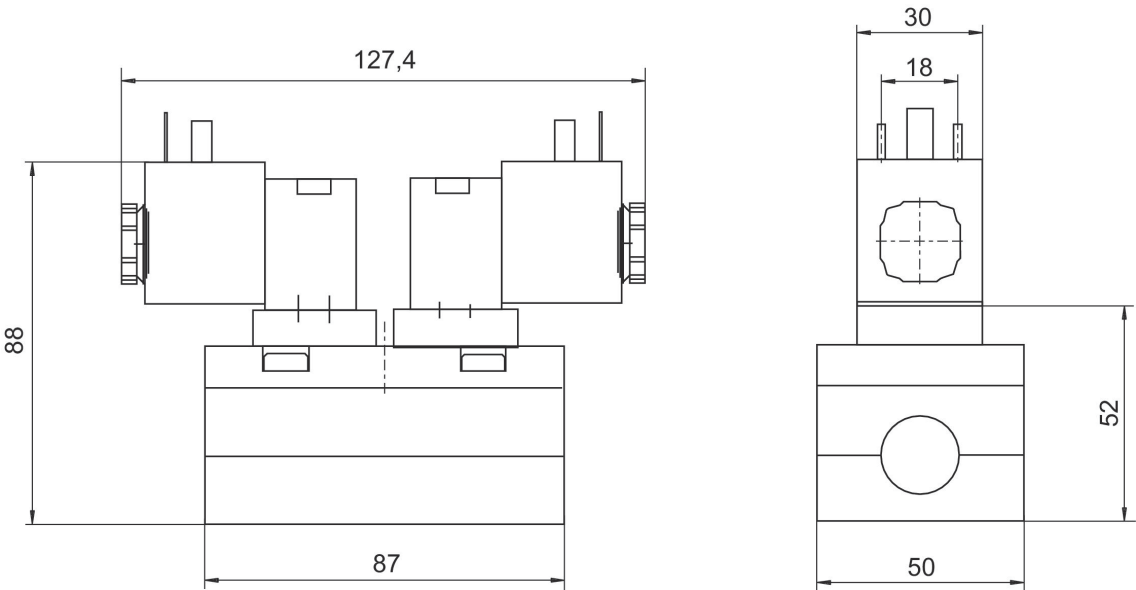
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 16 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 14                  | 14                   | Internal | 5812290540 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812290440 |
|  | 5/2, double solenoid | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 14                  | 14                   | Internal | 5812291540 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | Internal | 5812291440 |
|  | 5/2, double solenoid | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 14                  | 14                   | External | 5812292540 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812292440 |
|  | 5/2, double solenoid | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 14                  | 14                   | External | 5812293540 |
|  | 5/2, double solenoid | 230 V AC            |                      |                          | 14                  | 14                   | External | 5812293440 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812290540 |
|               | 5812290440 |
| with throttle | 5812291540 |
| with throttle | 5812291440 |
|               | 5812292540 |
|               | 5812292440 |
| with throttle | 5812293540 |
| with throttle | 5812293440 |

Dimensions



5/2-directional valve, Series 581, size 2, Min. Single Solenoid, control pressure: 2,7 bar

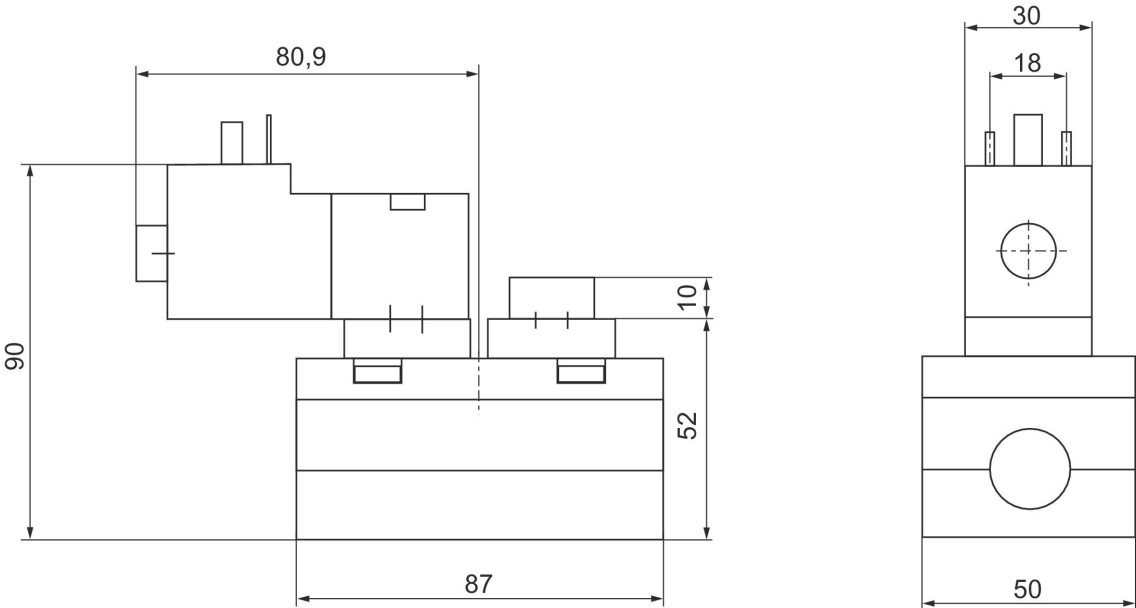
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 2.7 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle         | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | Internal | 5812670190 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | Internal | 5812671190 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | External | 5812672190 |
|  | 5/2, with air spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | External | 5812673190 |

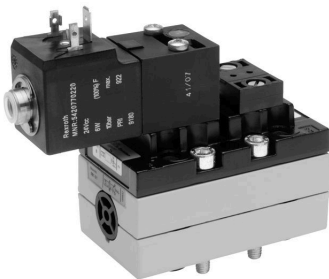
| Throttle      | Part No.   |
|---------------|------------|
|               | 5812670190 |
| with throttle | 5812671190 |
|               | 5812672190 |
| with throttle | 5812673190 |

Dimensions



5/2-directional valve, Series 581, size 2, Min. Single Solenoid, control pressure: 3 bar

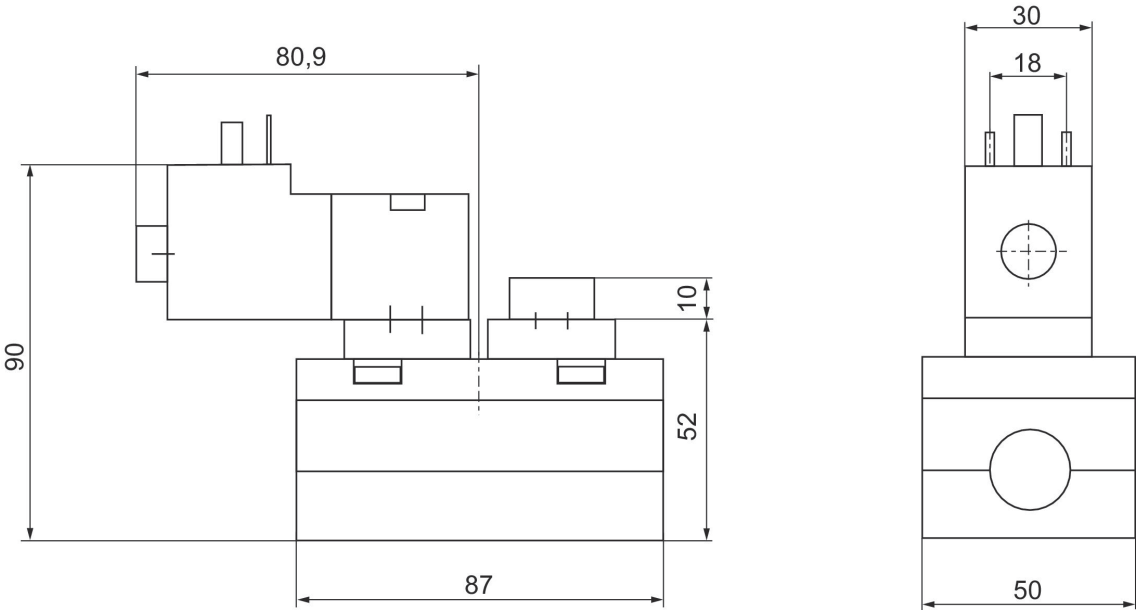
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | Internal | 5812170190 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | Internal | 5812171190 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | External | 5812172190 |
|  | 5/2, with spring return | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 40                   | External | 5812173190 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812170190 |
| with throttle | 5812171190 |
|               | 5812172190 |
| with throttle | 5812173190 |

Dimensions



5/2-directional valve, Series 581, size 2, Double Solenoid

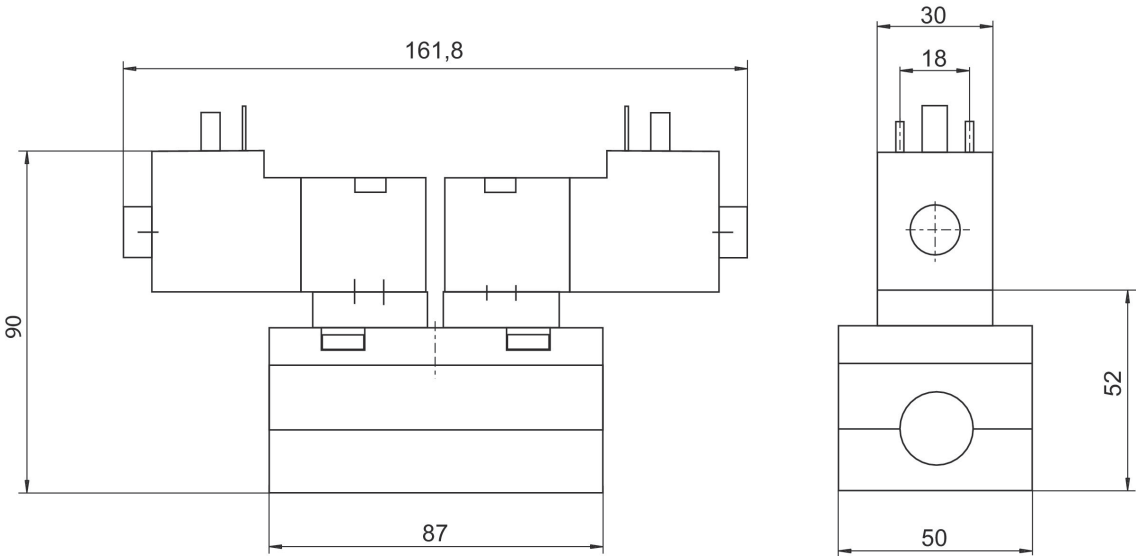
Flow: 2700 l/min  
Activation: Electrically  
Control pressure min./max.: 1.5 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar



|  | Switching principle  | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6                        | 14                  | 14                   | Internal | 5812290190 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6                        | 14                  | 14                   | Internal | 5812291190 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6                        | 14                  | 14                   | External | 5812292190 |
|  | 5/2, double solenoid | 24 V DC             | -10 % / +10 %        | 6                        | 14                  | 14                   | External | 5812293190 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812290190 |
| with throttle | 5812291190 |
|               | 5812292190 |
| with throttle | 5812293190 |

Dimensions



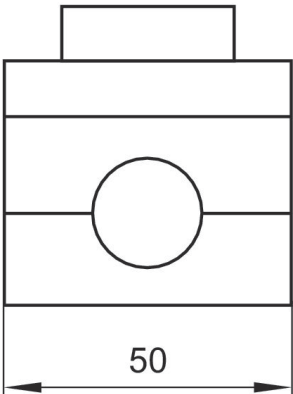
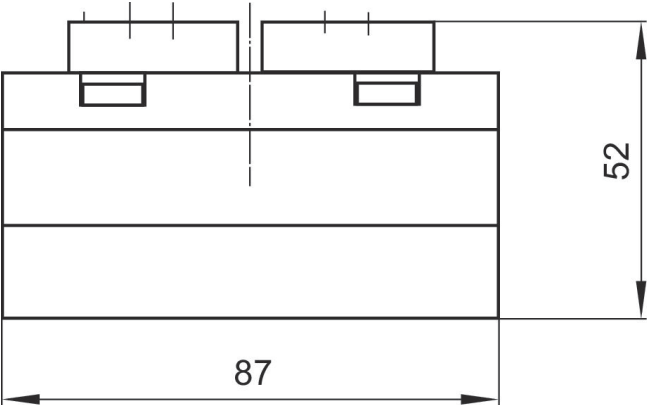
5/3-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, ATEX

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle     | Pilot              | Part No.   |
|--|-------------------------|--------------------|------------|
|  | 5/3, closed center      | External, Internal | 5812480100 |
|  | 5/3, exhausted center   | External, Internal | 5812580100 |
|  | 5/3, pressurized center | External, Internal | 5812780100 |

Dimensions



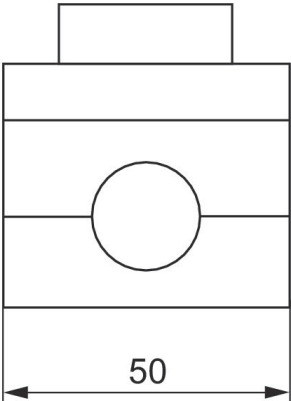
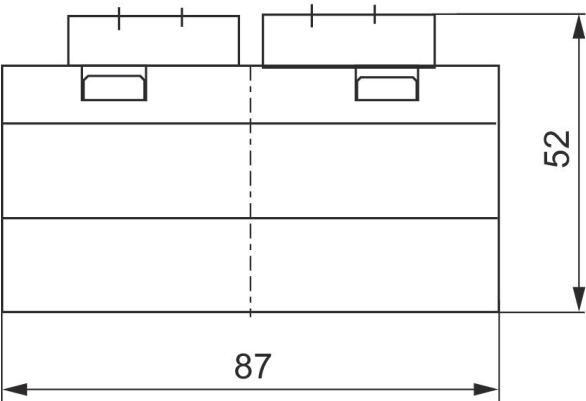
5/3-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Double Solenoid, -15...50 °C

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: -0.95 bar ... 10 bar



|  | Switching principle     | Pilot              | Part No.   |
|--|-------------------------|--------------------|------------|
|  | 5/3, closed center      | External, Internal | 5812480080 |
|  | 5/3, exhausted center   | External, Internal | 5812580080 |
|  | 5/3, pressurized center | External, Internal | 5812780080 |

Dimensions



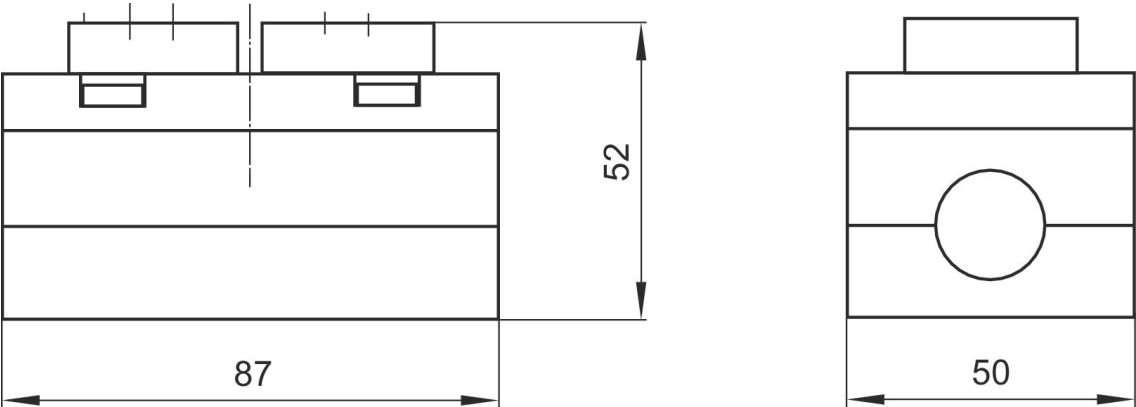
5/3-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve, Double Solenoid, -20...70 °C

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 16 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle     | Pilot              | Throttle      | Part No.   |
|--|-------------------------|--------------------|---------------|------------|
|  | 5/3, closed center      | External, Internal |               | 5812480000 |
|  | 5/3, closed center      | Internal           | with throttle | 5812481000 |
|  | 5/3, exhausted center   | External, Internal |               | 5812580000 |
|  | 5/3, exhausted center   | External, Internal | with throttle | 5812581000 |
|  | 5/3, pressurized center | External, Internal |               | 5812780000 |
|  | 5/3, pressurized center | External, Internal | with throttle | 5812781000 |

Dimensions





5/3-directional valve, Series 581, size 2, LED

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar

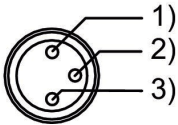
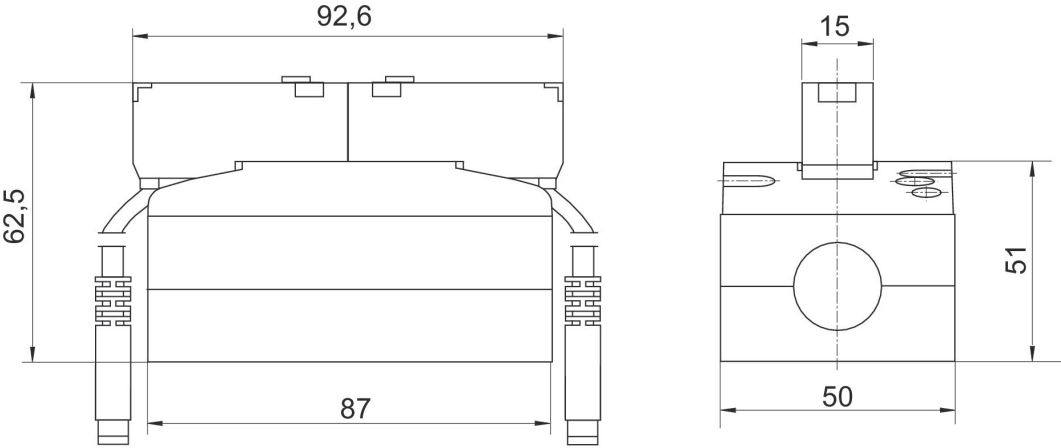


|  | Switching principle     | Operational voltage | Voltage tolerance DC | Cable length L [m] | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------|--------------------------|---------------------|----------------------|------------|
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812460160 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812461160 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812462160 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812463160 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812560160 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812561160 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812562160 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812563160 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812760160 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812761160 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812762160 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.5                | 2.2                      | 14                  | 28                   | 5812763160 |

| Pilot    | Throttle      | Part No.   |
|----------|---------------|------------|
| Internal |               | 5812460160 |
| Internal | with throttle | 5812461160 |
| External |               | 5812462160 |
| External | with throttle | 5812463160 |
| Internal |               | 5812560160 |
| Internal | with throttle | 5812561160 |
| External |               | 5812562160 |

| Pilot    | Throttle      | Part No.   |
|----------|---------------|------------|
| External | with throttle | 5812563160 |
| Internal |               | 5812760160 |
| Internal | with throttle | 5812761160 |
| External |               | 5812762160 |
| External | with throttle | 5812763160 |

Dimensions



Pin assignment 1) brown (+24 V) 2) green/yellow (ground) 3) blue (0 V)

5/3-directional valve, Series 581, size 2

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 50 °C  
Medium temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 10 bar

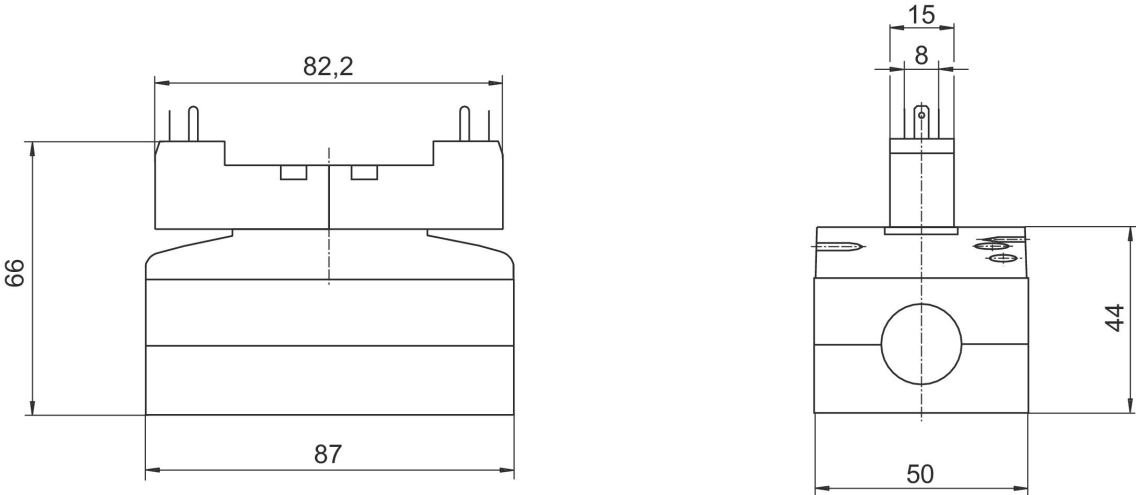


|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812460130 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812461130 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812462130 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812463130 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812560130 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812561130 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812562130 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812563130 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812760130 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | Internal | 5812761130 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812762130 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 2                        | 14                  | 28                   | External | 5812763130 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812460130 |
| with throttle | 5812461130 |
|               | 5812462130 |
| with throttle | 5812463130 |
|               | 5812560130 |
| with throttle | 5812561130 |
|               | 5812562130 |

| Throttle      | Part No.   |
|---------------|------------|
| with throttle | 5812563130 |
|               | 5812760130 |
| with throttle | 5812761130 |
|               | 5812762130 |
| with throttle | 5812763130 |

Dimensions



5/3-directional valve, Series 581, size 2, closed center

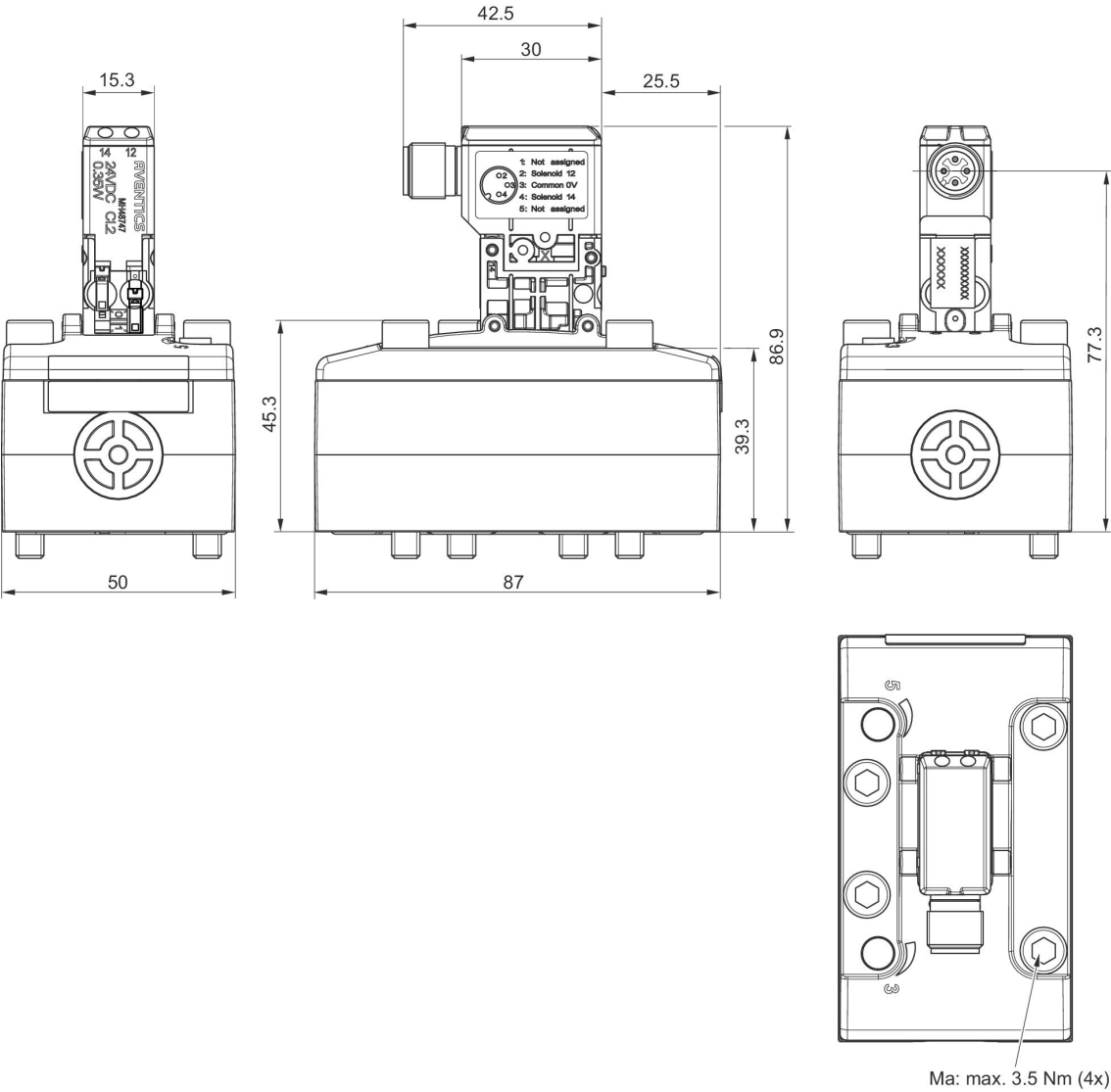
Flow: 4100 l/min  
Activation: Electrically  
Control pressure min./max.: 3.2 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|---------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812422720 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812422710 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812420720 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812420710 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812423720 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812423710 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812421720 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812421710 |

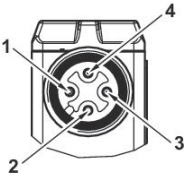
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812422720 |
|               | with detent     | 5812422710 |
|               | without detent  | 5812420720 |
|               | with detent     | 5812420710 |
| with throttle | without detent  | 5812423720 |
| with throttle | with detent     | 5812423710 |
| with throttle | without detent  | 5812421720 |
| with throttle | with detent     | 5812421710 |

Dimensions



5812422720, 5812422710, 5812420720, 5812420710, 5812423720, 5812423710, 5812421720, 5812421710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

5/3-directional valve, Series 581, size 2, exhausted center

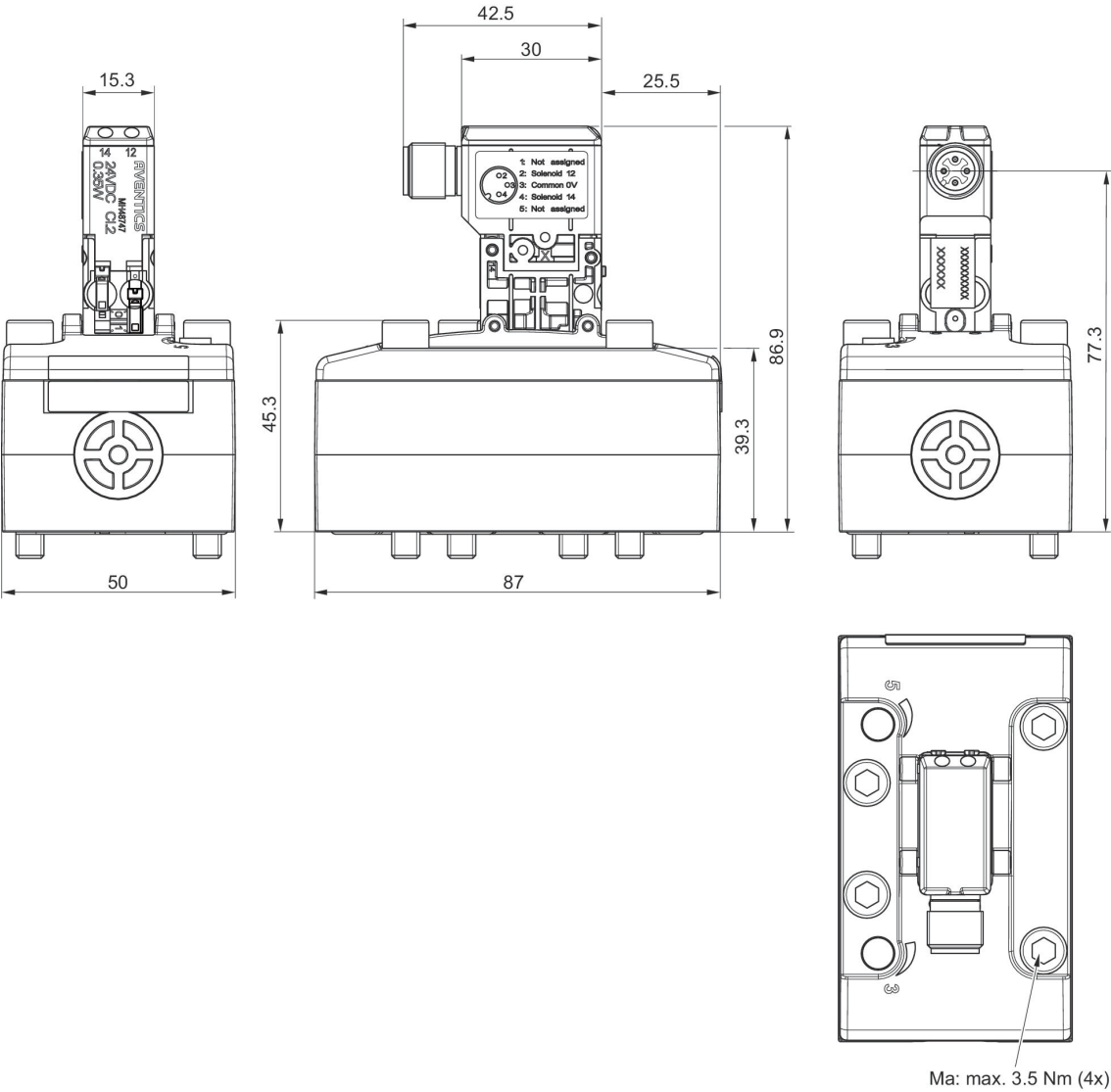
Flow: 4100 l/min  
Activation: Electrically  
Control pressure min./max.: 3.2 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle   | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812522720 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812522710 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812520720 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812520710 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812523720 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812523710 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812521720 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812521710 |

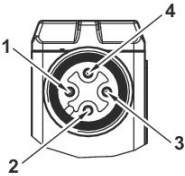
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812522720 |
|               | with detent     | 5812522710 |
|               | without detent  | 5812520720 |
|               | with detent     | 5812520710 |
| with throttle | without detent  | 5812523720 |
| with throttle | with detent     | 5812523710 |
| with throttle | without detent  | 5812521720 |
| with throttle | with detent     | 5812521710 |

Dimensions



5812522720, 5812522710, 5812520720, 5812520710, 5812523720, 5812523710, 5812521720, 5812521710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14



5/3-directional valve, Series 581, size 2, pressurized center

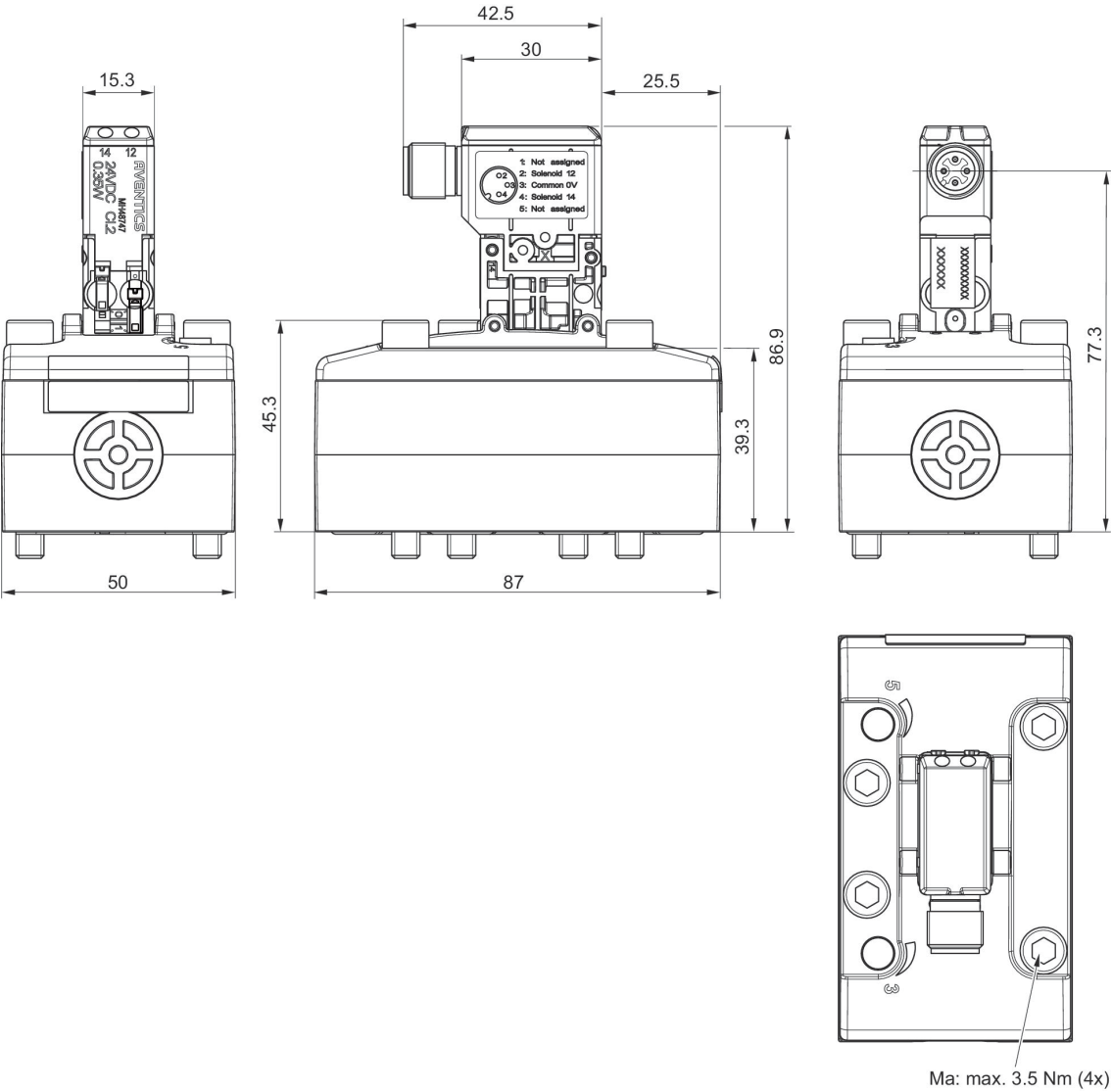
Flow: 4100 l/min  
Activation: Electrically  
Control pressure min./max.: 3.2 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -10 °C ... 60 °C  
Medium temperature min./max.: -10 °C ... 60 °C  
Working pressure min./max.: 10 bar



|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812722720 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812722710 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812720720 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812720710 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812723720 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | External | 5812723710 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812721720 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 0.35                     | 15                  | 35                   | Internal | 5812721710 |

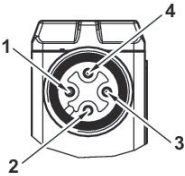
| Throttle      | Manual override | Part No.   |
|---------------|-----------------|------------|
|               | without detent  | 5812722720 |
|               | with detent     | 5812722710 |
|               | without detent  | 5812720720 |
|               | with detent     | 5812720710 |
| with throttle | without detent  | 5812723720 |
| with throttle | with detent     | 5812723710 |
| with throttle | without detent  | 5812721720 |
| with throttle | with detent     | 5812721710 |

Dimensions



5812722720, 5812722710, 5812720720, 5812720710, 5812723720, 5812723710, 5812721720, 5812721710

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

### 5/3-directional valve, Series 581, size 2, closed center

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

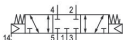
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



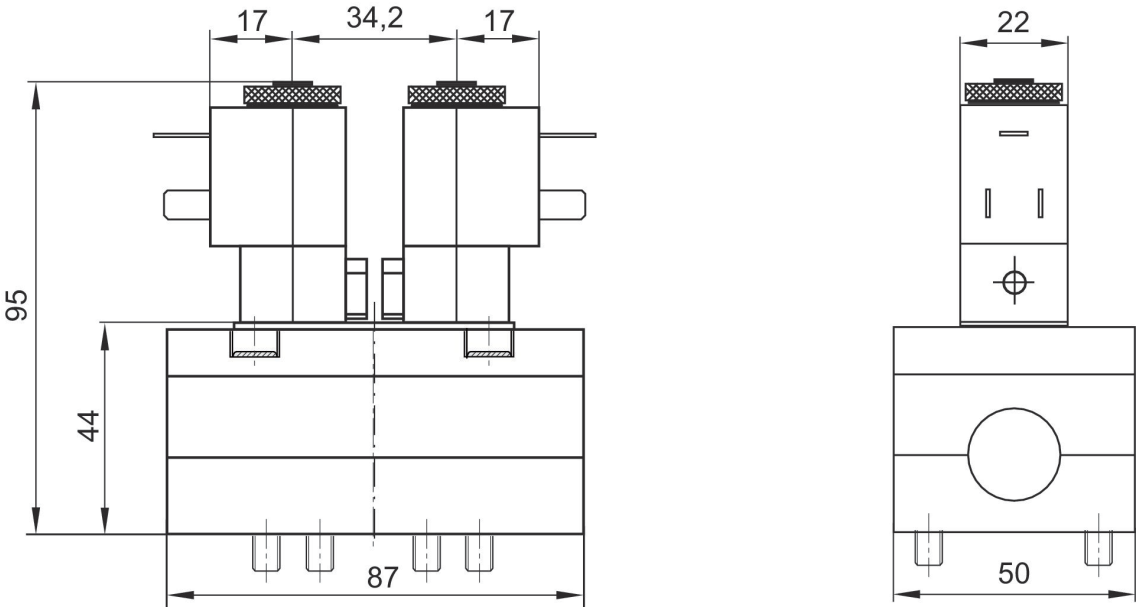
|  | Switching principle | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|---------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center  | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812420500 |
|  | 5/3, closed center  | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812420200 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812420100 |
|  | 5/3, closed center  | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812420600 |
|  | 5/3, closed center  | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812420300 |
|  | 5/3, closed center  | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812420400 |
|  | 5/3, closed center  |                     |                      |                          | 19                  | 42                   | Internal | 5812420000 |
|  | 5/3, closed center  | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812421500 |
|  | 5/3, closed center  | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812421200 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812421100 |
|  | 5/3, closed center  | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812421600 |
|  | 5/3, closed center  | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812421300 |
|  | 5/3, closed center  | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812421400 |
|  | 5/3, closed center  |                     |                      |                          | 19                  | 42                   | Internal | 5812421000 |
|  | 5/3, closed center  | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812422500 |
|  | 5/3, closed center  | 24 V AC             |                      |                          | 19                  | 42                   | External | 5812422200 |
|  | 5/3, closed center  | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812422600 |
|  | 5/3, closed center  | 110 V AC            |                      |                          | 19                  | 42                   | External | 5812422300 |

|                                                                                  | Switching principle | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|---------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center  | 230 V AC            |                      |                          | 19                  | 42                   | External | 5812422400 |
|  | 5/3, closed center  |                     |                      |                          | 19                  | 42                   | External | 5812422000 |
|  | 5/3, closed center  | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812423500 |
|  | 5/3, closed center  | 24 V AC             |                      |                          | 19                  | 42                   | External | 5812423200 |
|  | 5/3, closed center  | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812423100 |
|  | 5/3, closed center  | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812423600 |
|  | 5/3, closed center  | 110 V AC            |                      |                          | 19                  | 42                   | External | 5812423300 |
|  | 5/3, closed center  | 230 V AC            |                      |                          | 19                  | 42                   | External | 5812423400 |
|  | 5/3, closed center  |                     |                      |                          | 19                  | 42                   | External | 5812423000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812420500 |
|               | 5812420200 |
|               | 5812420100 |
|               | 5812420600 |
|               | 5812420300 |
|               | 5812420400 |
|               | 5812420000 |
| with throttle | 5812421500 |
| with throttle | 5812421200 |
| with throttle | 5812421100 |
| with throttle | 5812421600 |
| with throttle | 5812421300 |
| with throttle | 5812421400 |
| with throttle | 5812421000 |
|               | 5812422500 |
|               | 5812422200 |
|               | 5812422600 |
|               | 5812422300 |
|               | 5812422400 |
|               | 5812422000 |
| with throttle | 5812423500 |
| with throttle | 5812423200 |
| with throttle | 5812423100 |
| with throttle | 5812423600 |

| Throttle      | Part No.   |
|---------------|------------|
| with throttle | 5812423300 |
| with throttle | 5812423400 |
| with throttle | 5812423000 |

Dimensions



The pilot valves can be loosened and turned through 180°.

### 5/3-directional valve, Series 581, size 2, exhausted center

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

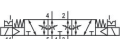
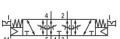
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



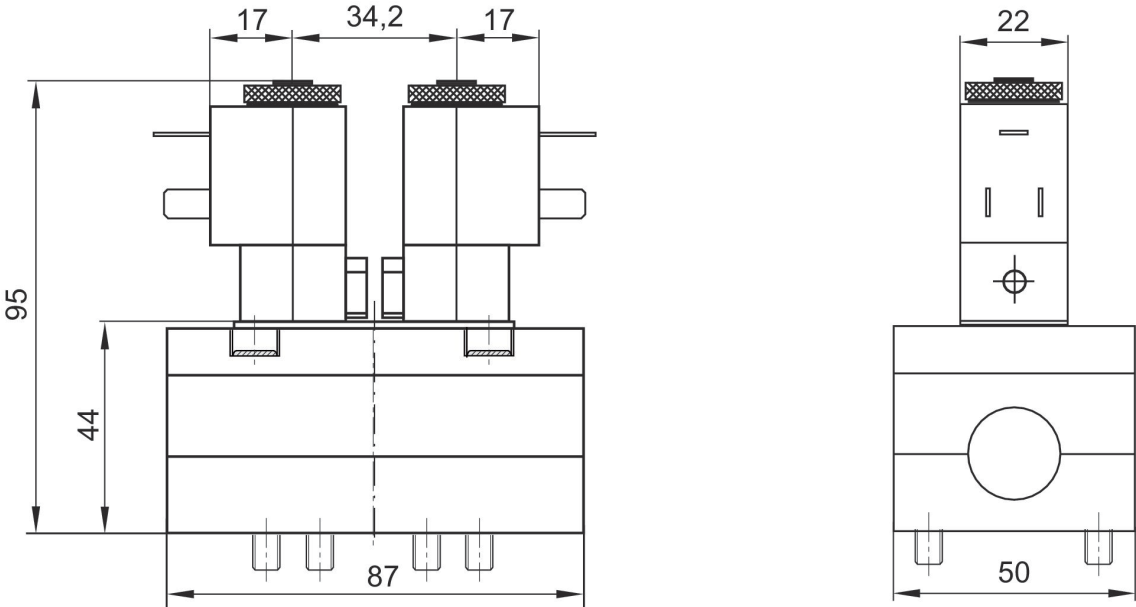
|  | Switching principle   | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, exhausted center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812520500 |
|  | 5/3, exhausted center | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812520200 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812520100 |
|  | 5/3, exhausted center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812520600 |
|  | 5/3, exhausted center | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812520300 |
|  | 5/3, exhausted center | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812520400 |
|  | 5/3, exhausted center |                     |                      |                          | 19                  | 42                   | Internal | 5812520000 |
|  | 5/3, exhausted center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812521500 |
|  | 5/3, exhausted center | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812521200 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812521100 |
|  | 5/3, exhausted center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812521600 |
|  | 5/3, exhausted center | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812521300 |
|  | 5/3, exhausted center | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812521400 |
|  | 5/3, exhausted center |                     |                      |                          | 19                  | 42                   | Internal | 5812521000 |
|  | 5/3, exhausted center | 12 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812522500 |
|  | 5/3, exhausted center | 24 V AC             |                      |                          | 30                  | 74                   | External | 5812522200 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812522100 |
|  | 5/3, exhausted center | 48 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812522600 |

|                                                                                  | Switching principle   | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|-----------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, exhausted center | 110 V AC            |                      |                          | 30                  | 74                   | External | 5812522300 |
|  | 5/3, exhausted center | 230 V AC            |                      |                          | 30                  | 74                   | External | 5812522400 |
|  | 5/3, exhausted center | 24 V AC             |                      |                          | 30                  | 74                   | External | 5812522000 |
|  | 5/3, exhausted center | 12 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812523500 |
|  | 5/3, exhausted center | 24 V AC             |                      |                          | 30                  | 74                   | External | 5812523200 |
|  | 5/3, exhausted center | 24 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812523100 |
|  | 5/3, exhausted center | 48 V DC             | -10 % / +10 %        | 5                        | 30                  | 74                   | External | 5812523600 |
|  | 5/3, exhausted center | 110 V AC            |                      |                          | 30                  | 74                   | External | 5812523300 |
|  | 5/3, exhausted center | 230 V AC            |                      |                          | 30                  | 74                   | External | 5812523400 |
|  | 5/3, exhausted center |                     |                      |                          | 30                  | 74                   | External | 5812523000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812520500 |
|               | 5812520200 |
|               | 5812520100 |
|               | 5812520600 |
|               | 5812520300 |
|               | 5812520400 |
|               | 5812520000 |
| with throttle | 5812521500 |
| with throttle | 5812521200 |
| with throttle | 5812521100 |
| with throttle | 5812521600 |
| with throttle | 5812521300 |
| with throttle | 5812521400 |
| with throttle | 5812521000 |
|               | 5812522500 |
|               | 5812522200 |
|               | 5812522100 |
|               | 5812522600 |
|               | 5812522300 |
|               | 5812522400 |
|               | 5812522000 |
| with throttle | 5812523500 |
| with throttle | 5812523200 |

| Throttle      | Part No.   |
|---------------|------------|
| with throttle | 5812523100 |
| with throttle | 5812523600 |
| with throttle | 5812523300 |
| with throttle | 5812523400 |
| with throttle | 5812523000 |

Dimensions



The pilot valves can be loosened and turned through 180°.



### 5/3-directional valve, Series 581, size 2, pressurized center

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 10 bar

Duty cycle: 100 %

Type: Spool valve

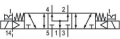
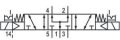
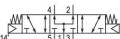
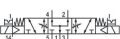
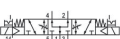
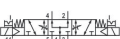
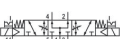
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar



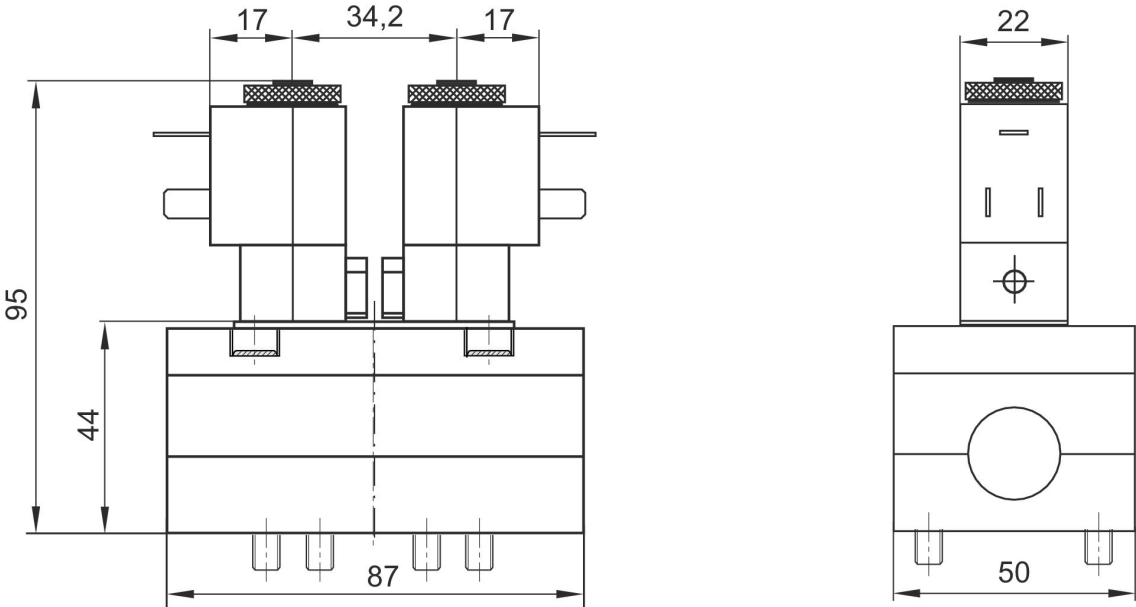
|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812720500 |
|  | 5/3, pressurized center | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812720200 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812720100 |
|  | 5/3, pressurized center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812720600 |
|  | 5/3, pressurized center | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812720300 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812720400 |
|  | 5/3, pressurized center |                     |                      |                          | 19                  | 42                   | Internal | 5812720000 |
|  | 5/3, pressurized center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812721500 |
|  | 5/3, pressurized center | 24 V AC             |                      |                          | 19                  | 42                   | Internal | 5812721200 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812721100 |
|  | 5/3, pressurized center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | Internal | 5812721600 |
|  | 5/3, pressurized center | 110 V AC            |                      |                          | 19                  | 42                   | Internal | 5812721300 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 19                  | 42                   | Internal | 5812721400 |
|  | 5/3, pressurized center |                     |                      |                          | 19                  | 42                   | Internal | 5812721000 |
|  | 5/3, pressurized center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812722500 |
|  | 5/3, pressurized center | 24 V AC             |                      |                          | 19                  | 42                   | External | 5812722200 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812722100 |
|  | 5/3, pressurized center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812722600 |

|                                                                                  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 110 V AC            |                      |                          | 19                  | 42                   | External | 5812722300 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 19                  | 42                   | External | 5812722400 |
|  | 5/3, pressurized center | 24 V AC             |                      |                          | 19                  | 42                   | External | 5812722000 |
|  | 5/3, pressurized center | 12 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812723500 |
|  | 5/3, pressurized center | 24 V AC             |                      |                          | 19                  | 42                   | External | 5812723200 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812723100 |
|  | 5/3, pressurized center | 48 V DC             | -10 % / +10 %        | 5                        | 19                  | 42                   | External | 5812723600 |
|  | 5/3, pressurized center | 110 V AC            |                      |                          | 19                  | 42                   | External | 5812723300 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 19                  | 42                   | External | 5812723400 |
|  | 5/3, pressurized center |                     |                      |                          | 19                  | 42                   | External | 5812723000 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812720500 |
|               | 5812720200 |
|               | 5812720100 |
|               | 5812720600 |
|               | 5812720300 |
|               | 5812720400 |
|               | 5812720000 |
| with throttle | 5812721500 |
| with throttle | 5812721200 |
| with throttle | 5812721100 |
| with throttle | 5812721600 |
| with throttle | 5812721300 |
| with throttle | 5812721400 |
| with throttle | 5812721000 |
|               | 5812722500 |
|               | 5812722200 |
|               | 5812722100 |
|               | 5812722600 |
|               | 5812722300 |
|               | 5812722400 |
|               | 5812722000 |
| with throttle | 5812723500 |
| with throttle | 5812723200 |

| Throttle      | Part No.   |
|---------------|------------|
| with throttle | 5812723100 |
| with throttle | 5812723600 |
| with throttle | 5812723300 |
| with throttle | 5812723400 |
| with throttle | 5812723000 |

Dimensions



The pilot valves can be loosened and turned through 180°.

**5/3-directional valve, Series 581, size 2, Max. control pressure: 10 bar**

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 10 bar

Duty cycle: 100 %

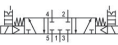
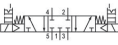
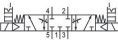
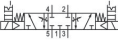
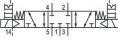
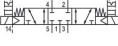
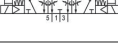
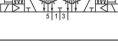
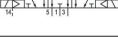
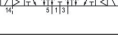
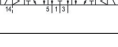
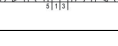
Type: Spool valve

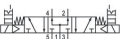
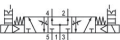
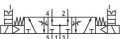
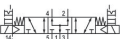
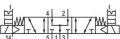
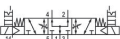
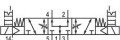
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 10 bar

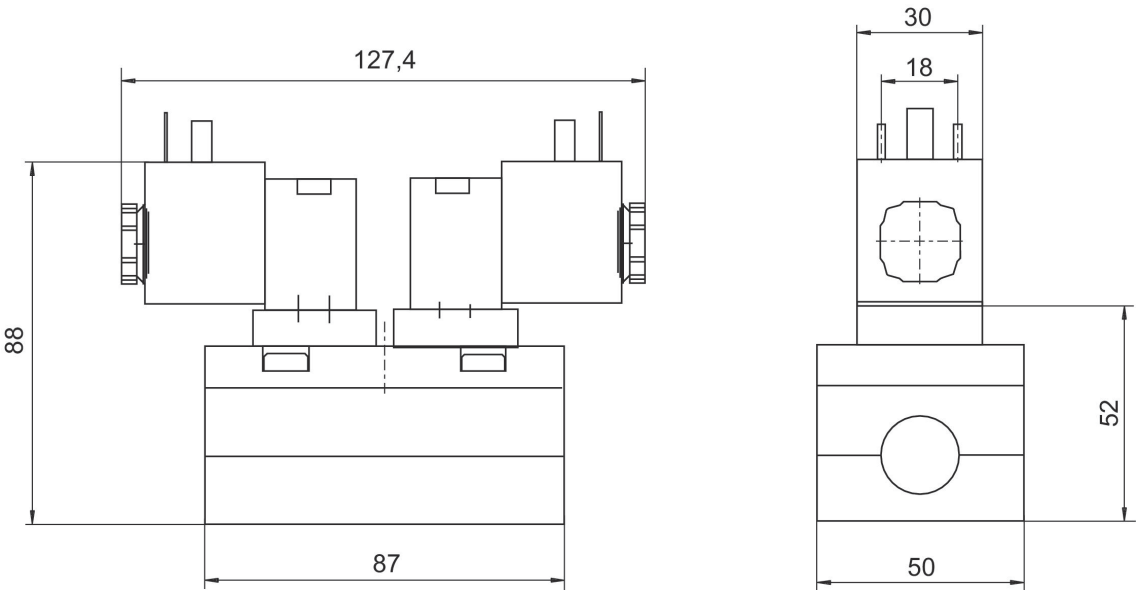


|                                                                                    | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812490650 |
|    | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812490450 |
|    | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812491650 |
|   | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812491450 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812492650 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812492450 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812493650 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812493450 |
|  | 5/3, exhaust-ed center  | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812590650 |
|  | 5/3, exhaust-ed center  | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812590450 |
|  | 5/3, exhaust-ed center  | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812591650 |
|  | 5/3, exhaust-ed center  | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812591450 |
|  | 5/3, exhaust-ed center  | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812592650 |
|  | 5/3, exhaust-ed center  | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812592450 |
|  | 5/3, exhaust-ed center  | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812593650 |
|  | 5/3, exhaust-ed center  | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812593450 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812790650 |

|                                                                                  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812790450 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | Internal | 5812791650 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812791450 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812792650 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812792450 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 2                        | 17                  | 36                   | External | 5812793650 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812793450 |

| Throttle      | Compatibility index | Part No.   |
|---------------|---------------------|------------|
|               | 14                  | 5812490650 |
|               | 14                  | 5812490450 |
| with throttle | 14                  | 5812491650 |
| with throttle | 14                  | 5812491450 |
|               | 14                  | 5812492650 |
|               | 14                  | 5812492450 |
| with throttle | 14                  | 5812493650 |
| with throttle | 14                  | 5812493450 |
|               | 14                  | 5812590650 |
|               | 14                  | 5812590450 |
| with throttle | 14                  | 5812591650 |
| with throttle | 14                  | 5812591450 |
|               | 14                  | 5812592650 |
|               | 14                  | 5812592450 |
| with throttle | 14                  | 5812593650 |
| with throttle | 14                  | 5812593450 |
|               | 14                  | 5812790650 |
|               | 14                  | 5812790450 |
| with throttle | 14                  | 5812791650 |
| with throttle | 14                  | 5812791450 |
|               | 14                  | 5812792650 |
|               | 14                  | 5812792450 |
| with throttle | 14                  | 5812793650 |
| with throttle | 14                  | 5812793450 |

Dimensions



**5/3-directional valve, Series 581, size 2, Max. control pressure: 16 bar**

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 16 bar

Duty cycle: 100 %

Type: Spool valve

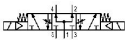
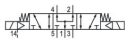
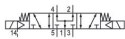
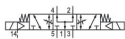
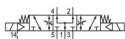
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 16 bar



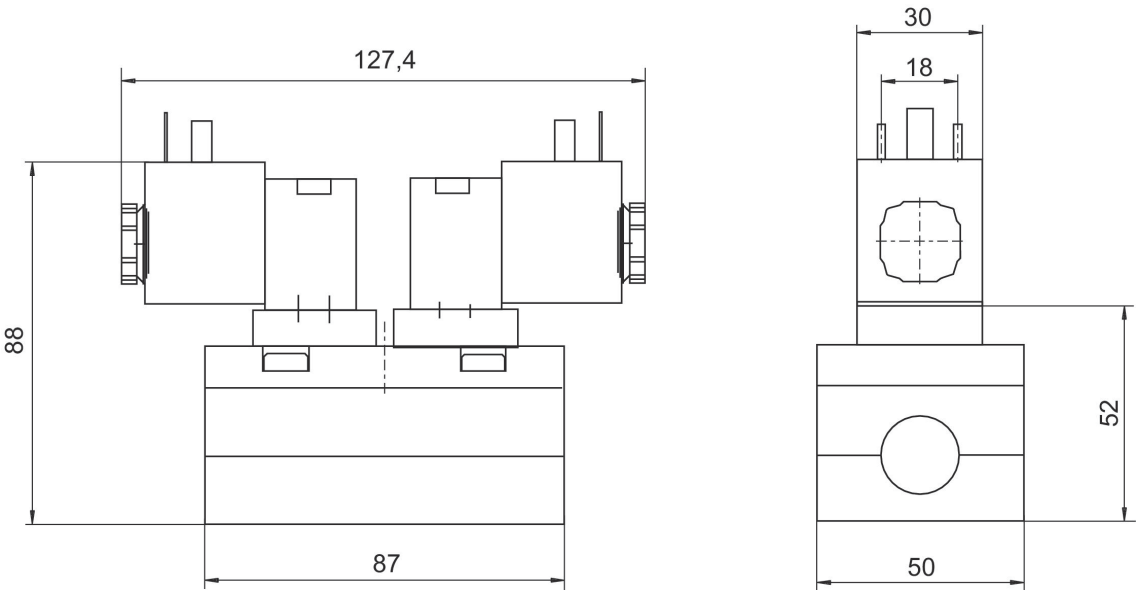
|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812490530 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812490430 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812491530 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812491430 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812492530 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812492430 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812493530 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812493430 |
|  | 5/3, exhausted center   | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812590530 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812590430 |
|  | 5/3, exhausted center   | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812591530 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812591430 |
|  | 5/3, exhausted center   | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812592530 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812592430 |
|  | 5/3, exhausted center   | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812593530 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812593430 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812790530 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812790430 |

|                                                                                  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812791530 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812791430 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812792530 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812792430 |
|  | 5/3, pressurized center | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812793530 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812793430 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812490530 |
|               | 5812490430 |
| with throttle | 5812491530 |
| with throttle | 5812491430 |
|               | 5812492530 |
|               | 5812492430 |
| with throttle | 5812493530 |
| with throttle | 5812493430 |
|               | 5812590530 |
|               | 5812590430 |
| with throttle | 5812591530 |
| with throttle | 5812591430 |
|               | 5812592530 |
|               | 5812592430 |
| with throttle | 5812593530 |
| with throttle | 5812593430 |
|               | 5812790530 |
|               | 5812790430 |
| with throttle | 5812791530 |
| with throttle | 5812791430 |
|               | 5812792530 |
|               | 5812792430 |
| with throttle | 5812793530 |
| with throttle | 5812793430 |



Dimensions



### 5/3-directional valve, Series 581, size 2, 24 V DC / 42 V AC

Flow: 2100 l/min

Activation: Electrically

Control pressure min./max.: 3 bar ... 16 bar

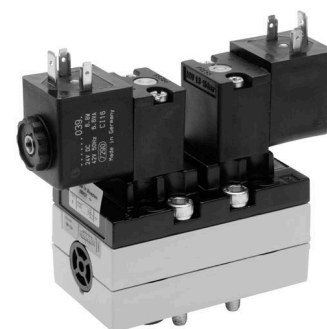
Duty cycle: 100 %

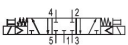
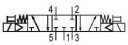
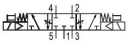
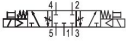
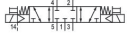
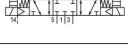
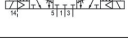
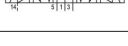
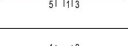
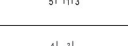
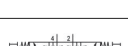
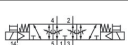
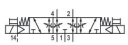
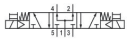
Type: Spool valve

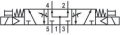
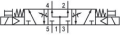
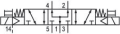
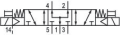
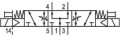
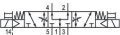
Ambient temperature min./max.: -15 °C ... 50 °C

Medium temperature min./max.: -15 °C ... 50 °C

Working pressure min./max.: 16 bar

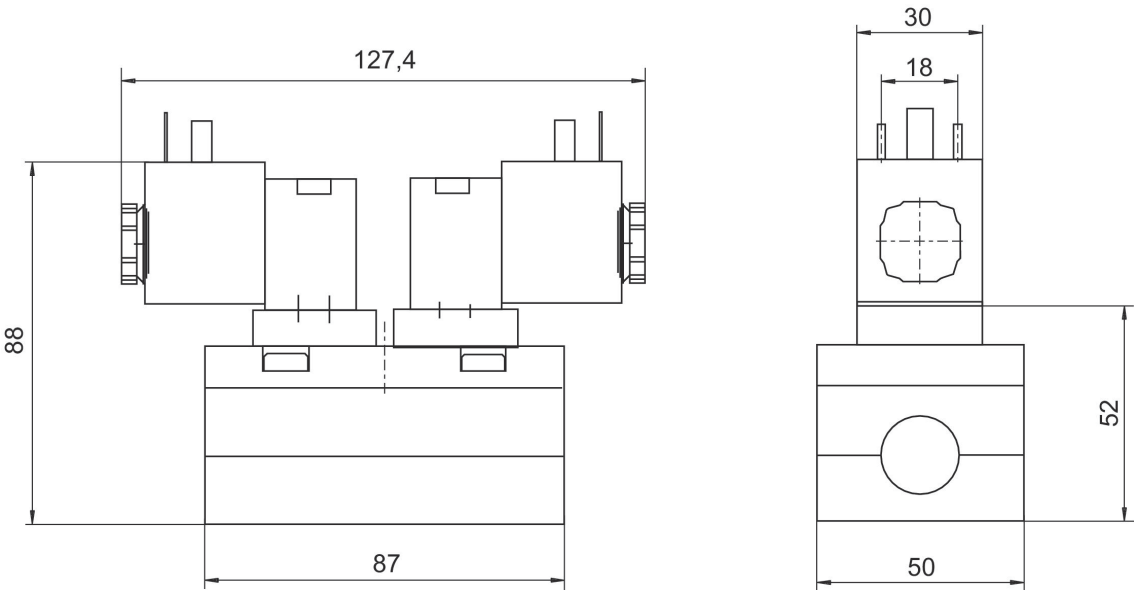


|                                                                                    | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|------------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|    | 5/3, closed center      | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812490540 |
|    | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812490440 |
|    | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812491540 |
|   | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812491440 |
|  | 5/3, closed center      | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812492540 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812492440 |
|  | 5/3, closed center      | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812493540 |
|  | 5/3, closed center      | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812493440 |
|  | 5/3, exhausted center   | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812590540 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812590440 |
|  | 5/3, exhausted center   | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812591540 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812591440 |
|  | 5/3, exhausted center   | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812592540 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812592440 |
|  | 5/3, exhausted center   | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812593540 |
|  | 5/3, exhausted center   | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812593440 |
|  | 5/3, pressurized center | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812790540 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812790440 |

|                                                                                  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|----------------------------------------------------------------------------------|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, pressurized center | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | Internal | 5812791540 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | Internal | 5812791440 |
|  | 5/3, pressurized center | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812792540 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812792440 |
|  | 5/3, pressurized center | 24 V DC / 42 V AC   | -10 % / +10 %        | 6.7                      | 17                  | 36                   | External | 5812793540 |
|  | 5/3, pressurized center | 230 V AC            |                      |                          | 17                  | 36                   | External | 5812793440 |

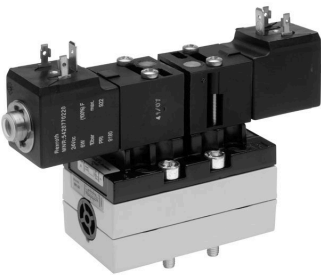
| Throttle      | Part No.   |
|---------------|------------|
|               | 5812490540 |
|               | 5812490440 |
| with throttle | 5812491540 |
| with throttle | 5812491440 |
|               | 5812492540 |
|               | 5812492440 |
| with throttle | 5812493540 |
| with throttle | 5812493440 |
|               | 5812590540 |
|               | 5812590440 |
| with throttle | 5812591540 |
| with throttle | 5812591440 |
|               | 5812592540 |
|               | 5812592440 |
| with throttle | 5812593540 |
| with throttle | 5812593440 |
|               | 5812790540 |
|               | 5812790440 |
| with throttle | 5812791540 |
| with throttle | 5812791440 |
|               | 5812792540 |
|               | 5812792440 |
| with throttle | 5812793540 |
| with throttle | 5812793440 |

Dimensions



5/3-directional valve, Series 581, size 2

Flow: 2100 l/min  
Activation: Electrically  
Control pressure min./max.: 3 bar ... 10 bar  
Duty cycle: 100 %  
Type: Spool valve  
Ambient temperature min./max.: -15 °C ... 50 °C  
Medium temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 10 bar

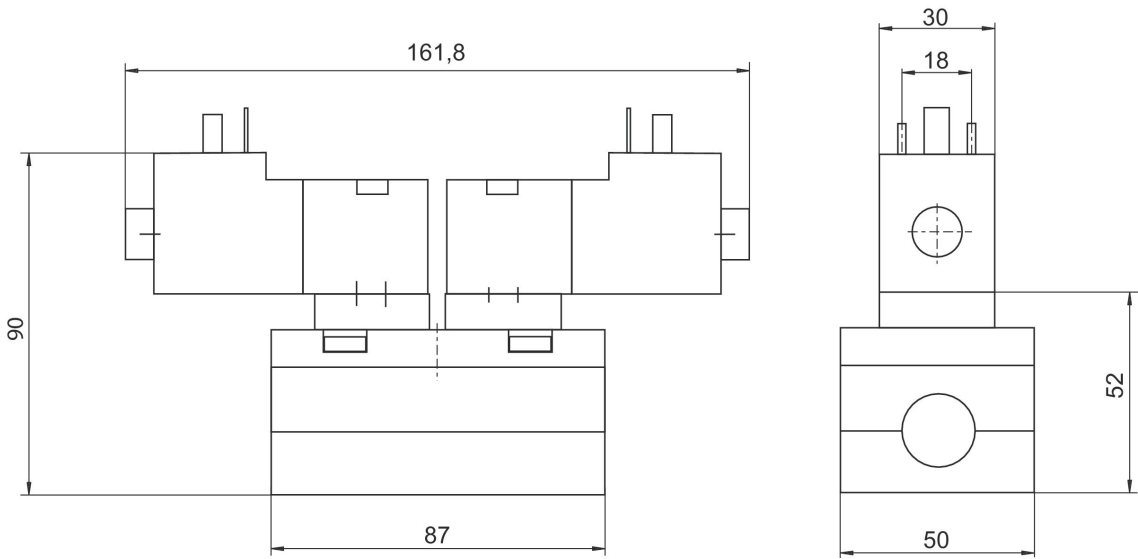


|  | Switching principle     | Operational voltage | Voltage tolerance DC | Power consumption DC [W] | Switch-on time [ms] | Switch-off time [ms] | Pilot    | Part No.   |
|--|-------------------------|---------------------|----------------------|--------------------------|---------------------|----------------------|----------|------------|
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812490190 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812491190 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812492190 |
|  | 5/3, closed center      | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812493190 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812590190 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812591190 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812592190 |
|  | 5/3, exhaust-center     | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812593190 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812790190 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | Internal | 5812791190 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812792190 |
|  | 5/3, pressurized-center | 24 V DC             | -10 % / +10 %        | 6                        | 17                  | 36                   | External | 5812793190 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812490190 |
| with throttle | 5812491190 |
|               | 5812492190 |
| with throttle | 5812493190 |
|               | 5812590190 |
| with throttle | 5812591190 |
|               | 5812592190 |
| with throttle | 5812593190 |
|               | 5812790190 |
| with throttle | 5812791190 |

| Throttle      | Part No.   |
|---------------|------------|
|               | 5812792190 |
| with throttle | 5812793190 |

Dimensions



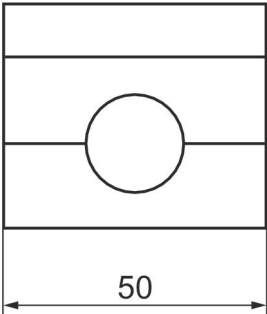
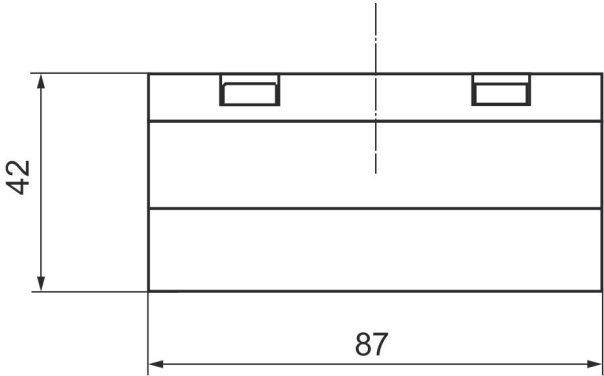
5/2-directional valve, Series 581, size 2, Single Air Pilot

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 3 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle     | Throttle      | Part No.   |
|--|-------------------------|---------------|------------|
|  | 5/2, with spring return |               | 5812130000 |
|  | 5/2, with spring return | with throttle | 5812131000 |

Dimensions



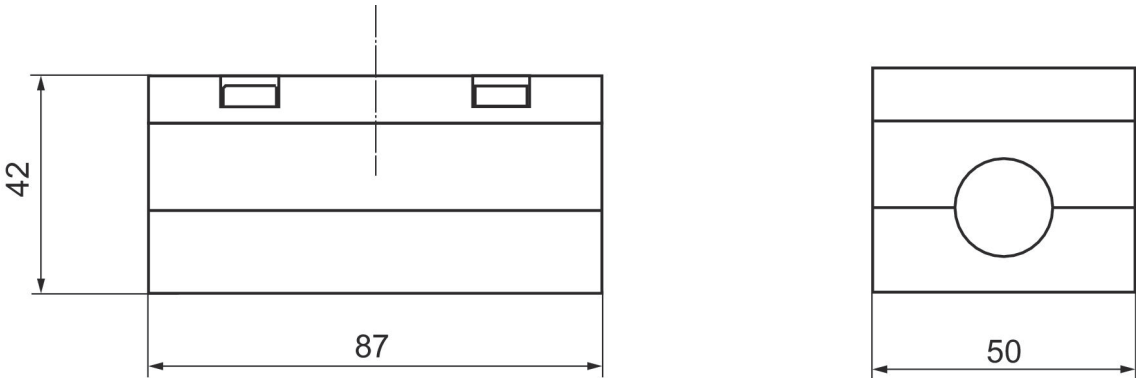
5/2-directional valve, Series 581, size 2, Single Air Pilot

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle         | Throttle      | Part No.   |
|--|-----------------------------|---------------|------------|
|  | 5/2, with air spring return |               | 5812630000 |
|  | 5/2, with air spring return | with throttle | 5812631000 |

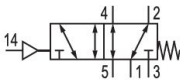
Dimensions





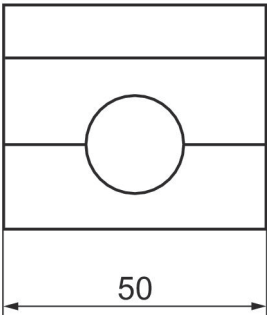
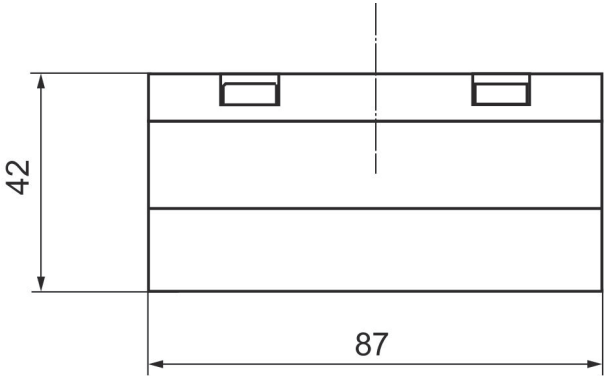
5/2-directional valve, Series 581, size 2, Single Air Pilot, ATEX

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 3 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



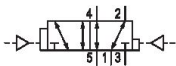
| Switching principle     | Part No.   |
|-------------------------|------------|
| 5/2, with spring return | 5812130100 |

Dimensions



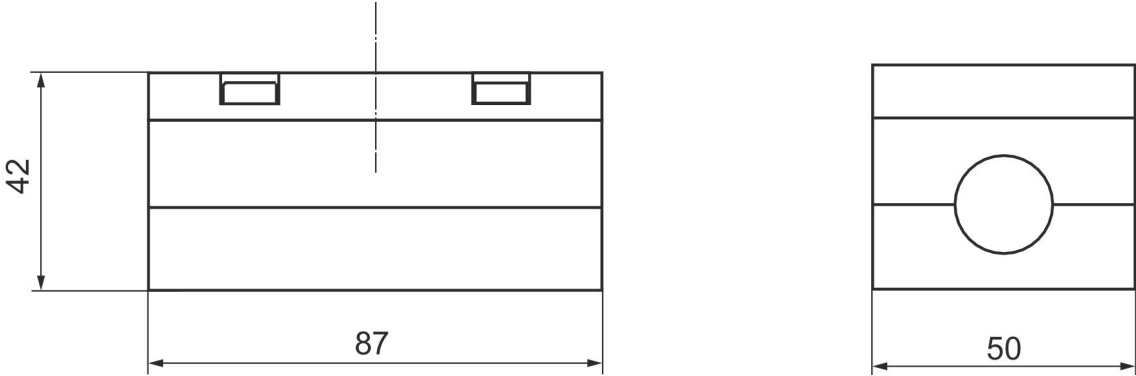
5/2-directional valve, Series 581, size 2, Single Air Pilot, ATEX

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 2.7 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



| Switching principle         | Part No.   |
|-----------------------------|------------|
| 5/2, with air spring return | 5812630100 |

Dimensions



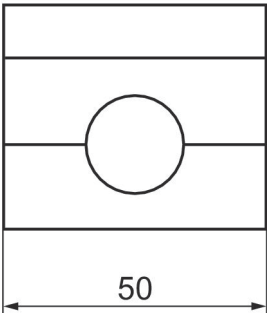
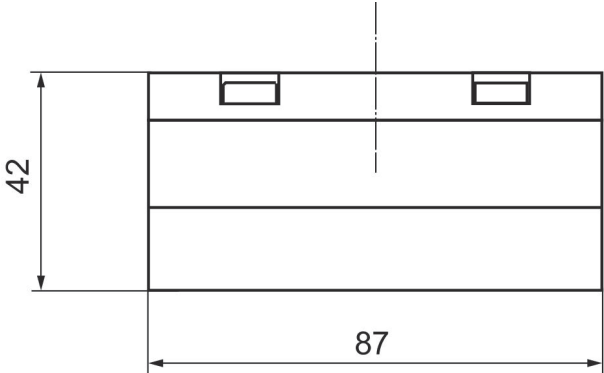
5/2-directional valve, Series 581, size 2, Double Air Pilot

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle  | Throttle      | Part No.   |
|--|----------------------|---------------|------------|
|  | 5/2, double solenoid |               | 5812230000 |
|  | 5/2, double solenoid | with throttle | 5812231000 |

Dimensions



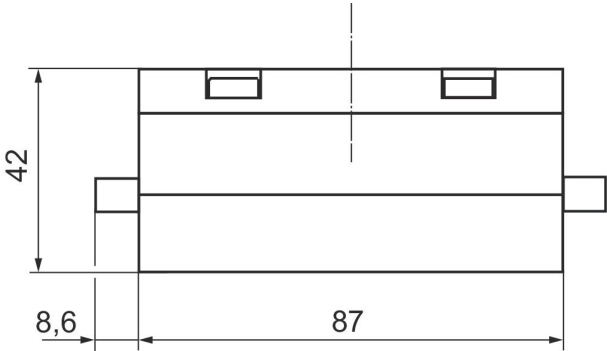
5/2-directional valve, Series 581, size 2, Double Air Pilot

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar

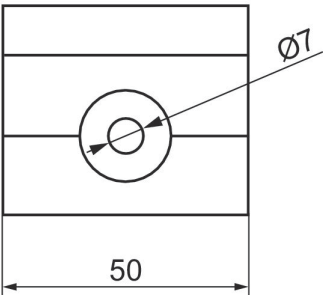


|  | Switching principle  | Throttle      | Part No.   |
|--|----------------------|---------------|------------|
|  | 5/2, double solenoid |               | 5812330000 |
|  | 5/2, double solenoid | with throttle | 5812331000 |

Dimensions

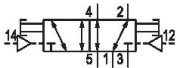


With manual override



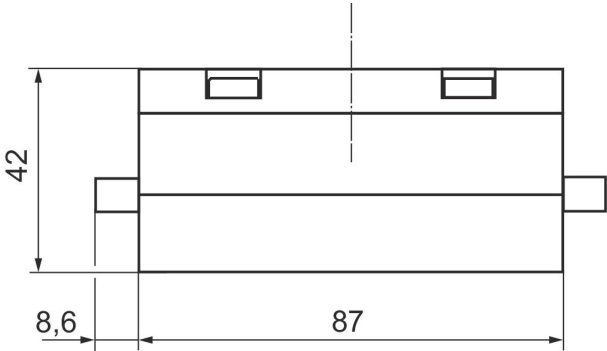
5/2-directional valve, Series 581, size 2, Double Air Pilot, ATEX

Flow: 2700 l/min  
Activation: Pneumatically  
Control pressure min./max.: 1.5 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar

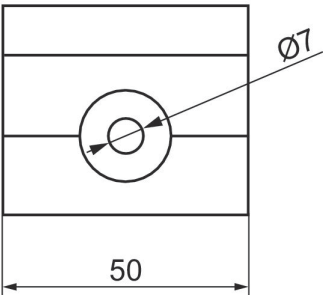


| Switching principle  | Part No.   |
|----------------------|------------|
| 5/2, double solenoid | 5812330100 |

Dimensions



With manual override



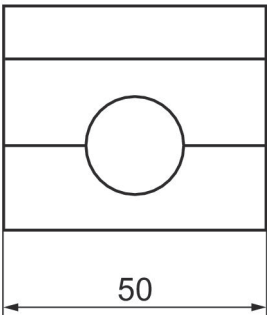
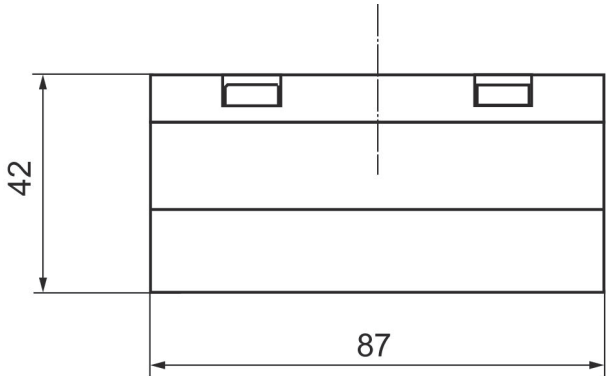
5/3-directional valve, Series 581, size 2

Flow: 2100 l/min  
Activation: Pneumatically  
Control pressure min./max.: 3 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|  | Switching principle     | Throttle      | Part No.   |
|--|-------------------------|---------------|------------|
|  | 5/3, closed center      |               | 5812430000 |
|  | 5/3, closed center      | with throttle | 5812431000 |
|  | 5/3, exhaust-center     |               | 5812530000 |
|  | 5/3, pressurized-center | with throttle | 5812531000 |
|  | 5/3, pressurized-center |               | 5812730000 |
|  | 5/3, pressurized-center | with throttle | 5812731000 |

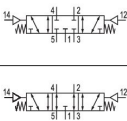
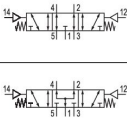
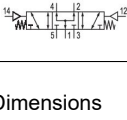
Dimensions



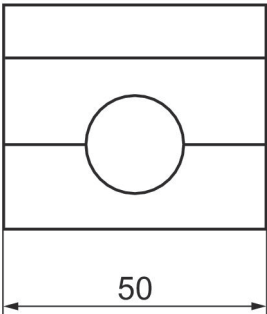
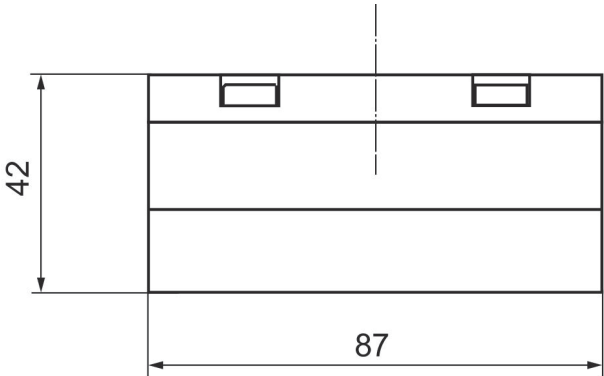
5/3-directional valve, Series 581, size 2 ATEX

Flow: 2100 l/min  
Activation: Pneumatically  
Control pressure min./max.: 3 bar ... 16 bar  
Type: Spool valve  
Ambient temperature min./max.: -20 °C ... 70 °C  
Medium temperature min./max.: -20 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 16 bar



|                                                                                   | Switching principle     | Part No.   |
|-----------------------------------------------------------------------------------|-------------------------|------------|
|   | 5/3, closed center      | 5812430100 |
|   | 5/3, exhausted center   | 5812530100 |
|  | 5/3, pressurized center | 5812730100 |

Dimensions



Coil, Series CO1, Form B, industry

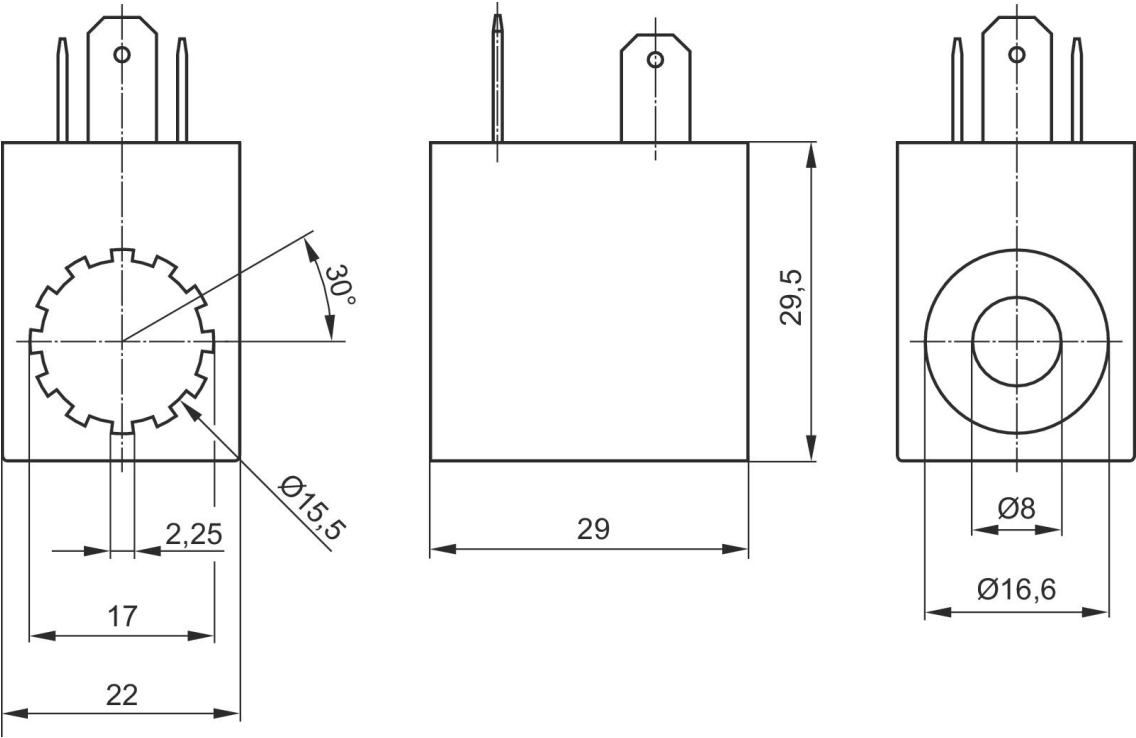
Coil width: 22 mm  
Electrical connection 2, thread size: Form B, industry  
Ambient temperature min./max.: 50 °C



| Operational voltage DC | Operational voltage AC at 50 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC [W] | Holding power AC 50 Hz [VA] | Switch-on power AC 50 Hz [VA] | Part No.   |
|------------------------|---------------------------------|----------------------|----------------------------|--------------------------|-----------------------------|-------------------------------|------------|
| 12 V                   |                                 |                      |                            | 5                        |                             |                               | 0498317405 |
| 24 V                   |                                 | -10 % / +10 %        |                            | 5                        |                             |                               | 0498317502 |
| 24 V                   |                                 | -10 % / +10 %        |                            | 2                        |                             |                               | 0498318800 |
| 48 V                   |                                 |                      |                            | 5                        |                             |                               | 0498317618 |
| 110 V                  |                                 | -10 % / +10 %        |                            | 5                        |                             |                               | 0498317707 |
| 220 V                  |                                 | -10 % / +10 %        |                            | 5                        |                             |                               | 0498317804 |
|                        | 24 V                            |                      | -10 % / +10 %              |                          | 8                           | 10                            | 0498316905 |
|                        | 48 V                            |                      | -10 % / +10 %              |                          | 8                           | 10                            | 0498317006 |
|                        | 110 V                           |                      | -10 % / +10 %              |                          | 8                           | 10                            | 0498317103 |
|                        | 230 V                           |                      | -10 % / +10 %              |                          | 8                           | 10                            | 0498322506 |

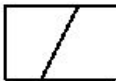


Dimensions



Coil, Series CO1, with cable, ATEX

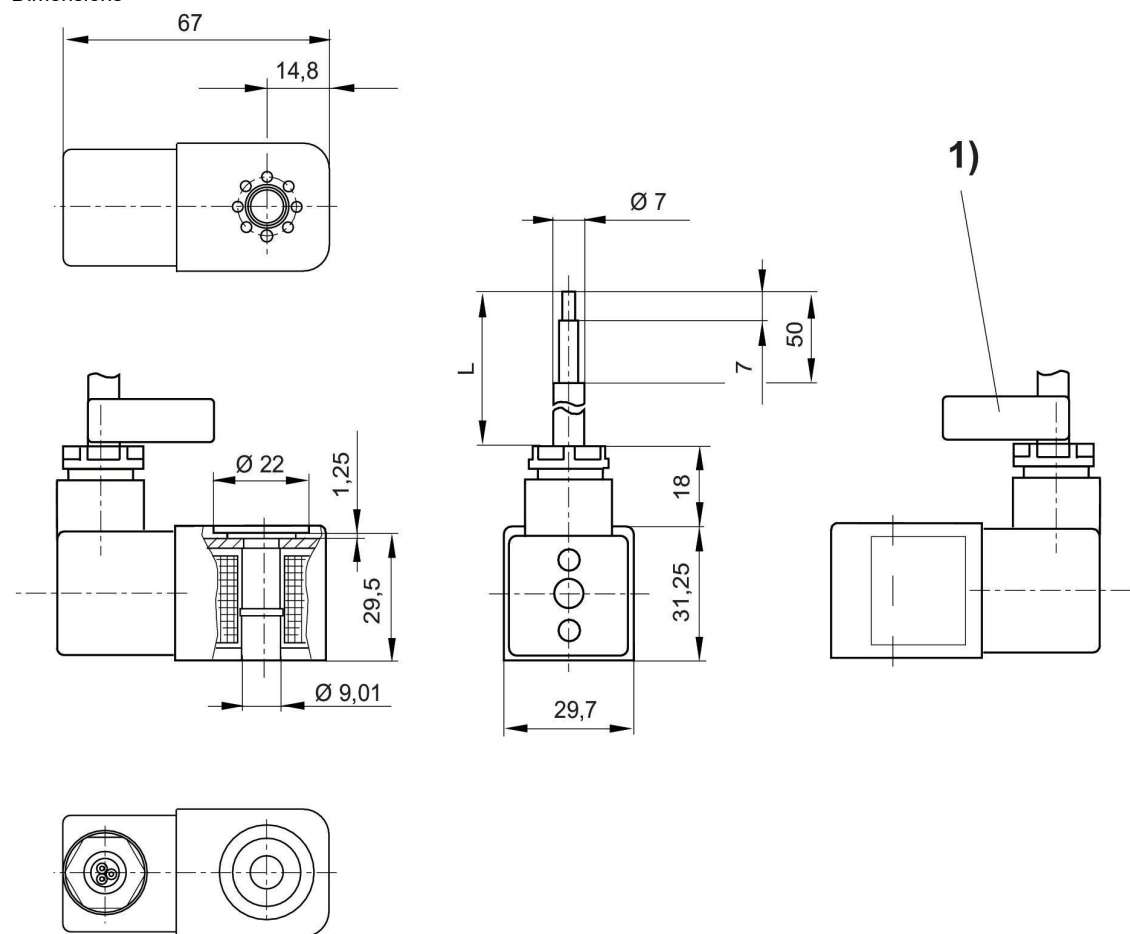
Coil width: 30 mm  
Ambient temperature min./max.: -20 °C ... 50 °C



| Operational voltage DC | Operational voltage AC at 50 Hz | Operational voltage AC at 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC [W] | Holding power AC 50 Hz [VA] | Switch-on power AC 50 Hz [VA] | Part No.   |
|------------------------|---------------------------------|---------------------------------|----------------------|----------------------------|--------------------------|-----------------------------|-------------------------------|------------|
|                        | 230 V                           | 230 V                           |                      | -10 % / +10 %              |                          | 3                           | 3.1                           | 1827414297 |
|                        | 230 V                           | 230 V                           |                      | -10 % / +10 %              |                          | 3                           | 3.1                           | 1827414298 |
|                        | 110 V                           | 110 V                           |                      | -10 % / +10 %              |                          | 2.9                         | 3                             | 1827414299 |
| 24 V                   |                                 |                                 | -10 % / +10 %        |                            | 3.25                     |                             |                               | 1827414303 |
| 24 V                   |                                 |                                 | -10 % / +10 %        |                            | 3.25                     |                             |                               | 1827414304 |

| Cable length [m] | Compatibility index | Part No.   |
|------------------|---------------------|------------|
| 3                | 14                  | 1827414297 |
| 10               | 14                  | 1827414298 |
| 3                | 14                  | 1827414299 |
| 3                | 14                  | 1827414303 |
| 10               | 14                  | 1827414304 |

Dimensions

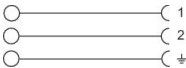


L = cable length

1) Cable ID band with serial number

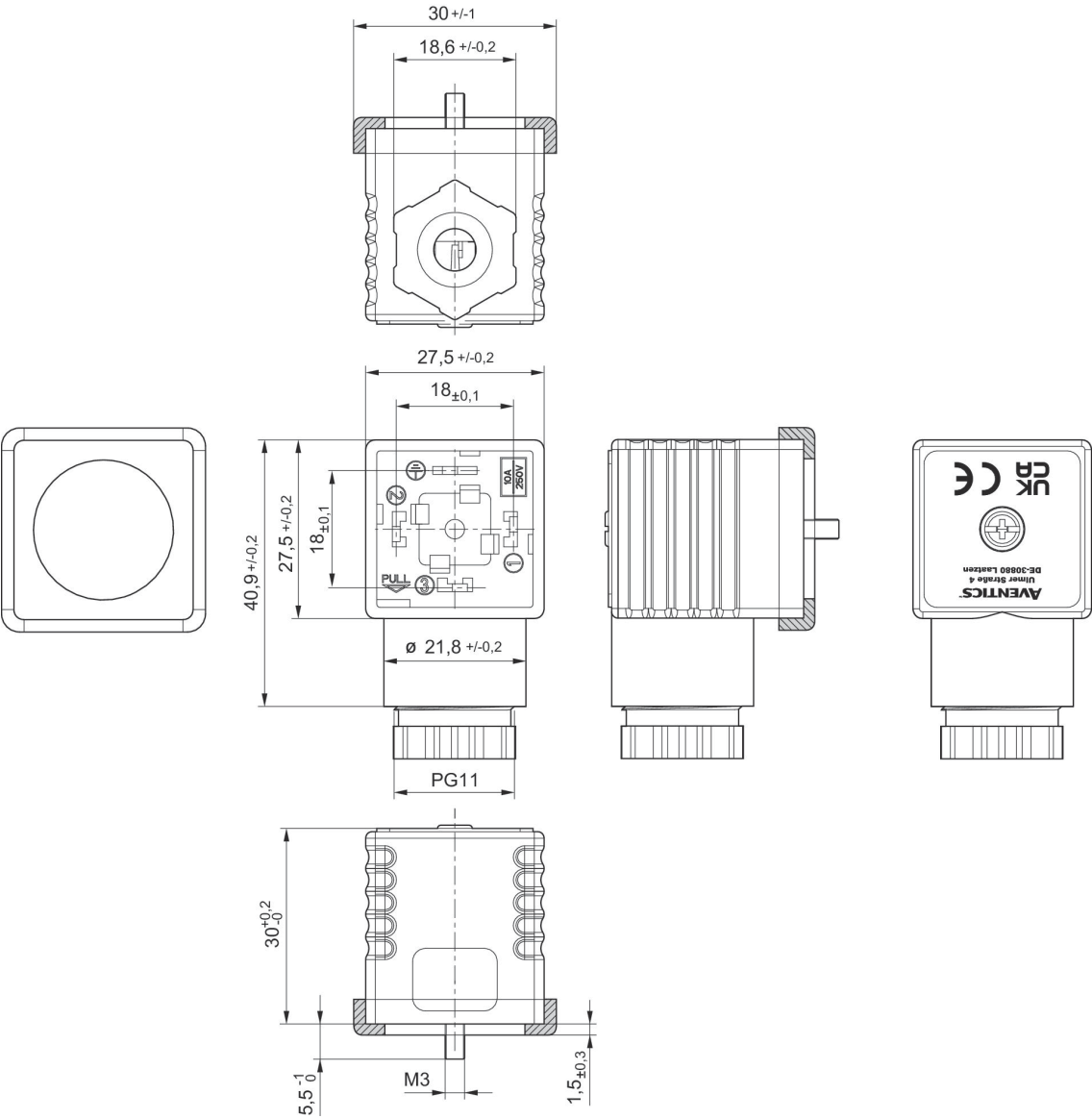
Valve plug connector, series CON-VP, Form A, 300 V DC / 250 V AC, 2-pin

Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Max. current [A] | Contact assignment | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|------------------|--------------------|----------------------------|----------------------------|------------|
| 300 V DC / 250 V AC | 10               | 2+E                | 4                          | 9.5                        | 1834484048 |

Dimensions



Profile seal

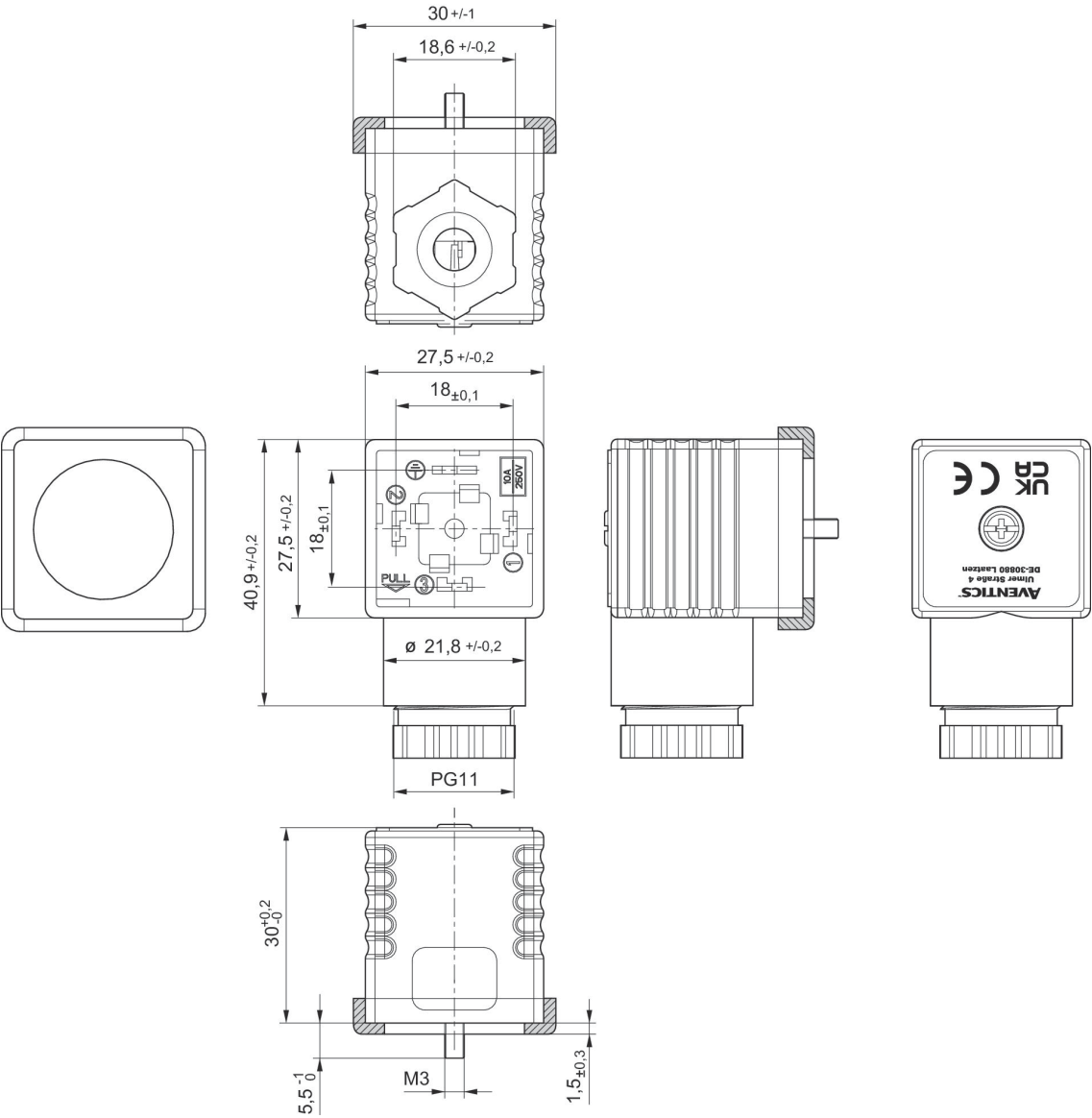
Valve plug connector, series CON-VP, Form A, 300 V DC / 250 V AC, 3-pin

Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Max. current [A] | Contact assignment | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|------------------|--------------------|----------------------------|----------------------------|------------|
| 300 V DC / 250 V AC | 10               | 3+E                | 4                          | 9.5                        | 1834484059 |

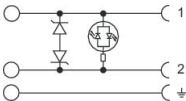
Dimensions



Profile seal

Valve plug connector, series CON-VP, Form A, 24 V AC/DC, Flat gasket

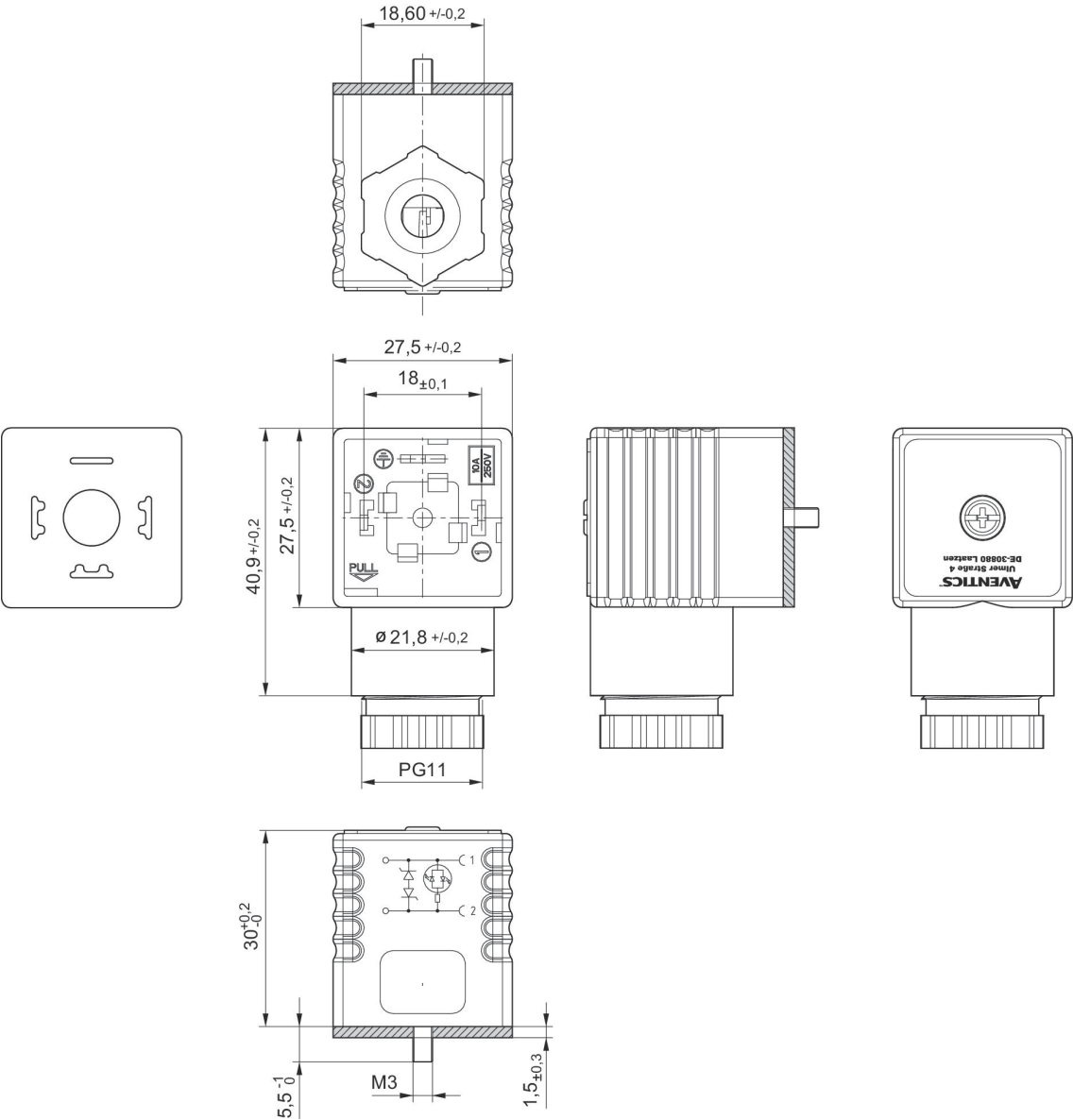
Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|--------------------|------------------|--------------------|--------------------|----------------------------|----------------------------|------------|
| 24 V AC/DC          | 2 Z-diodes         | 1.5              | 2+E                | Yellow             | 4                          | 9.5                        | 1834484101 |



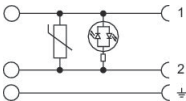
Dimensions



Profile seal

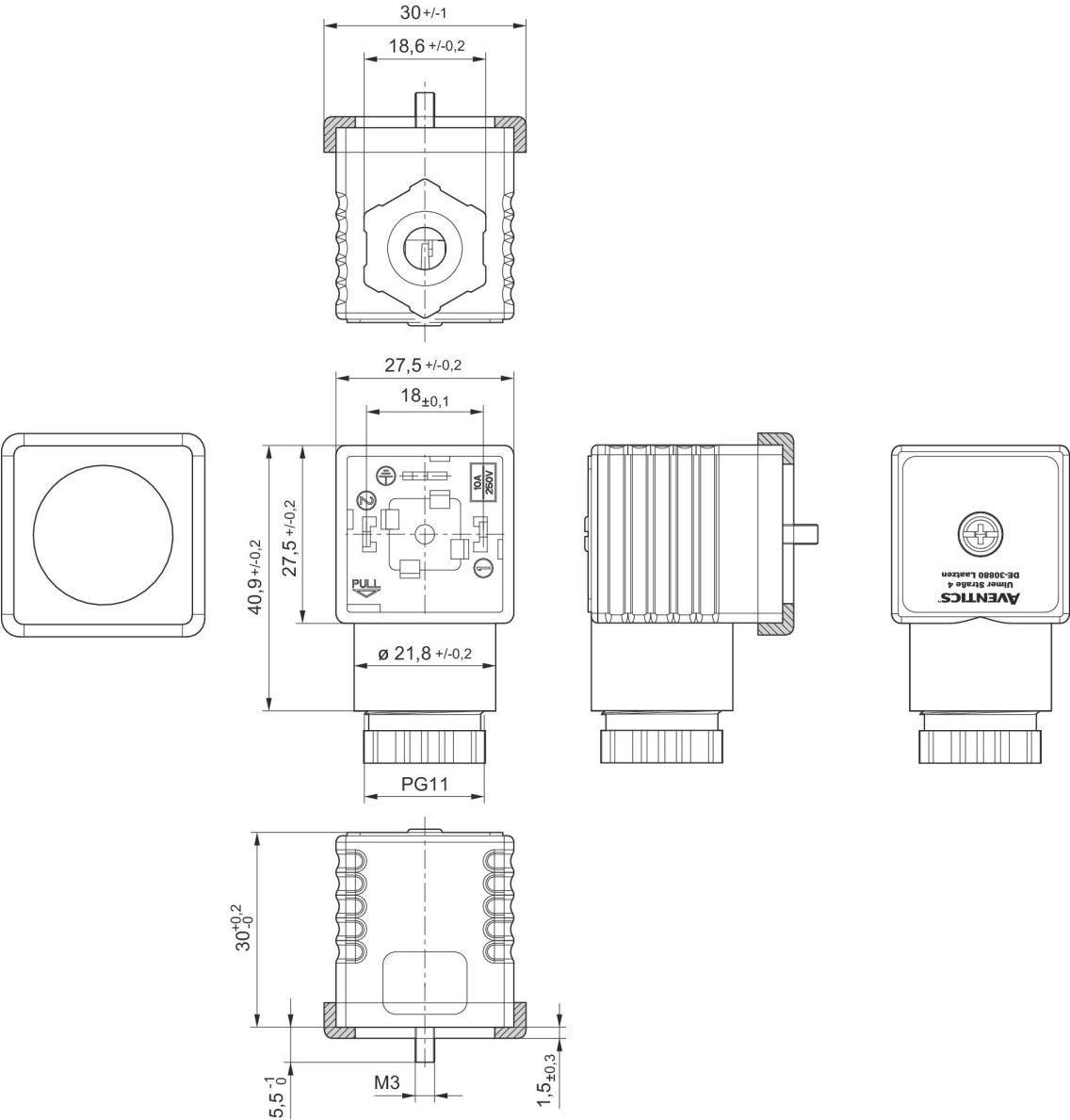
Valve plug connector, series CON-VP, Form A, 24 V AC/DC, Profile seal

Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protec- tive circuit | Max. current [A] | Contact as- signment | LED sta- tus display | min. suit- able cable Ø [mm] | max. suit- able cable Ø [mm] | Part No.   |
|---------------------|----------------------|------------------|----------------------|----------------------|------------------------------|------------------------------|------------|
| 24 V AC/DC          | Varistor             | 1.5              | 2+E                  | Green                | 4                            | 9.5                          | 8941016102 |

Dimensions



Profile seal

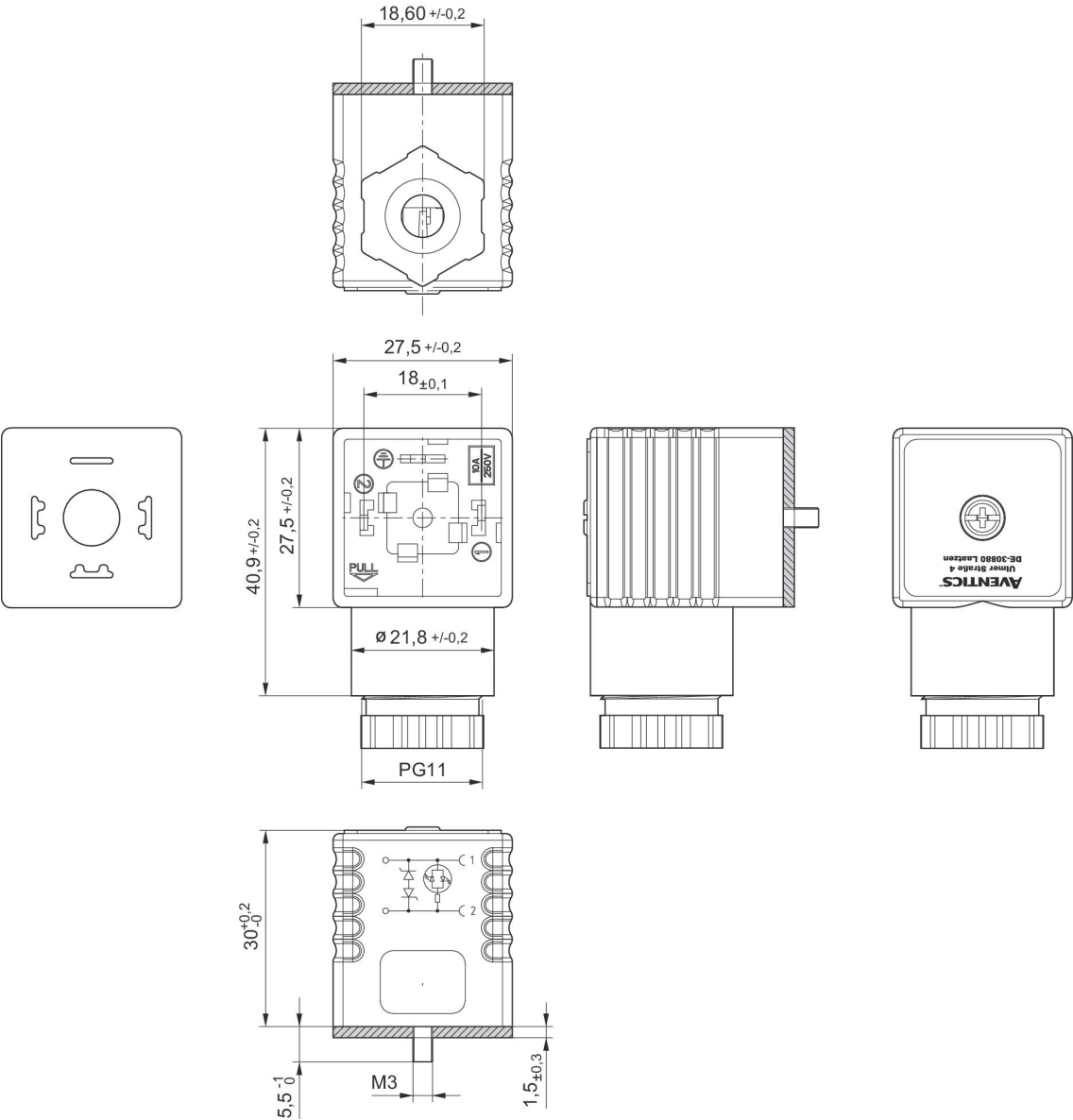
Valve plug connector, series CON-VP, form A, 115/230 V AC/DC

Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



|  | Operational voltage | Protec-<br>tive circuit | Contact as-<br>signment | LED sta-<br>tus display | min. suit-<br>able cable Ø<br>[mm] | max. suit-<br>able cable Ø<br>[mm] | Part No.   |
|--|---------------------|-------------------------|-------------------------|-------------------------|------------------------------------|------------------------------------|------------|
|  | 115 V AC/DC         | Varistor                | 2+E                     | Red                     | 6.5                                | 9.5                                | 1834484102 |
|  | 230 V AC/DC         | Varistor                | 2+E                     | Red                     | 6.5                                | 9.5                                | 1834484103 |

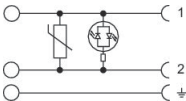
Dimensions



Profile seal

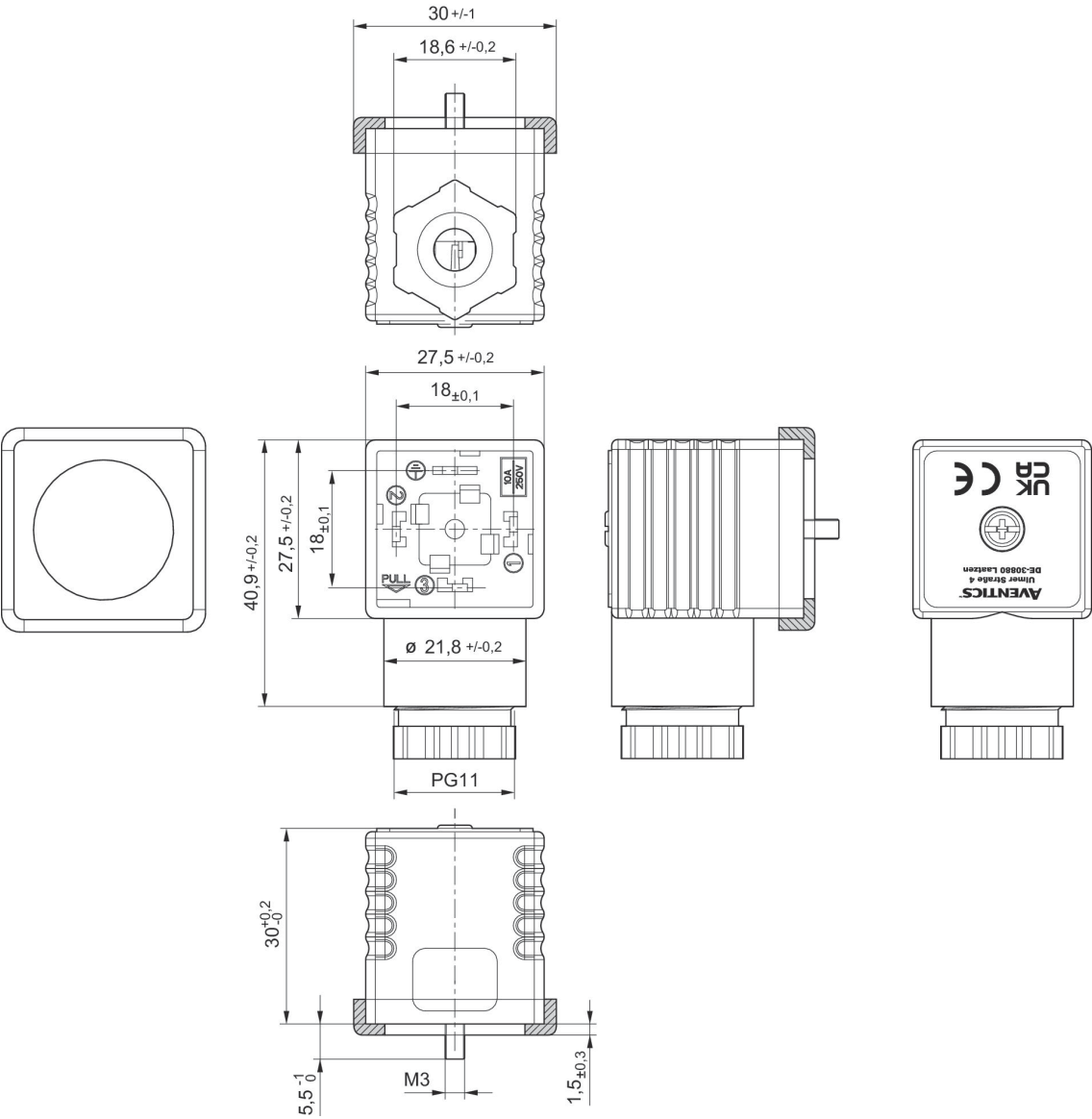
Valve plug connector, series CON-VP, Form A, 230 V AC/DC, Profile seal

Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protective circuit | Contact assignment | LED status display | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|--------------------|--------------------|--------------------|----------------------------|----------------------------|------------|
| 230 V AC/DC         | Varistor           | 2+E                | Green              | 6.5                        | 9.5                        | 8941016112 |

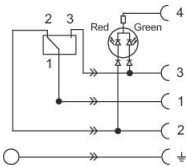
Dimensions



Profile seal

Valve plug connector, series CON-VP, Form A, 24 V DC

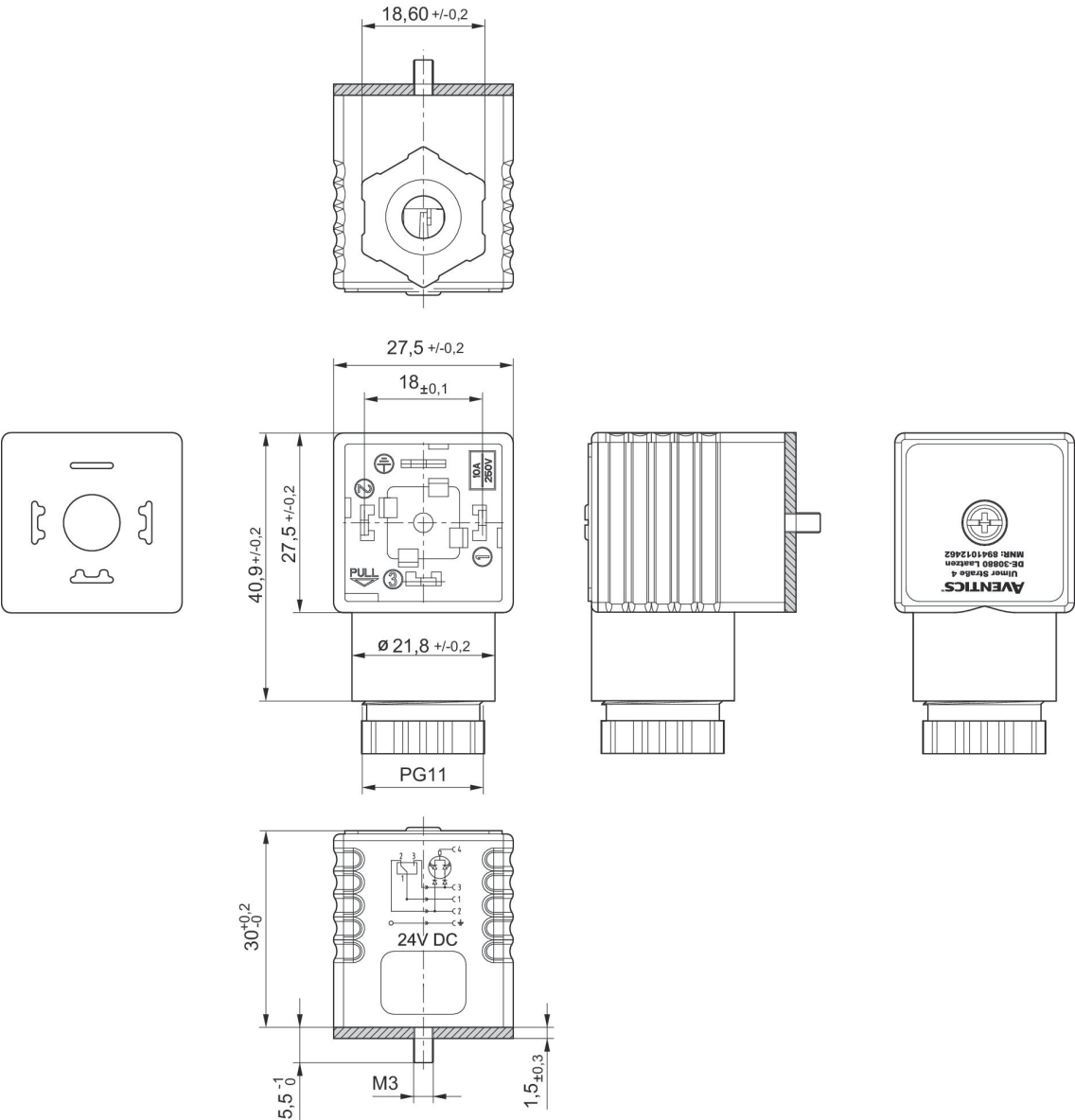
Electrical connection 1: EN 175301-803, form A  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|--------------------|------------------|--------------------|--------------------|----------------------------|----------------------------|------------|
| 24 V DC             | 2 diodes (1 A)     | 1                | 3+E                | green/red          | 4                          | 9.5                        | 8941012462 |



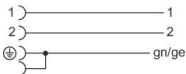
Dimensions



Profile seal

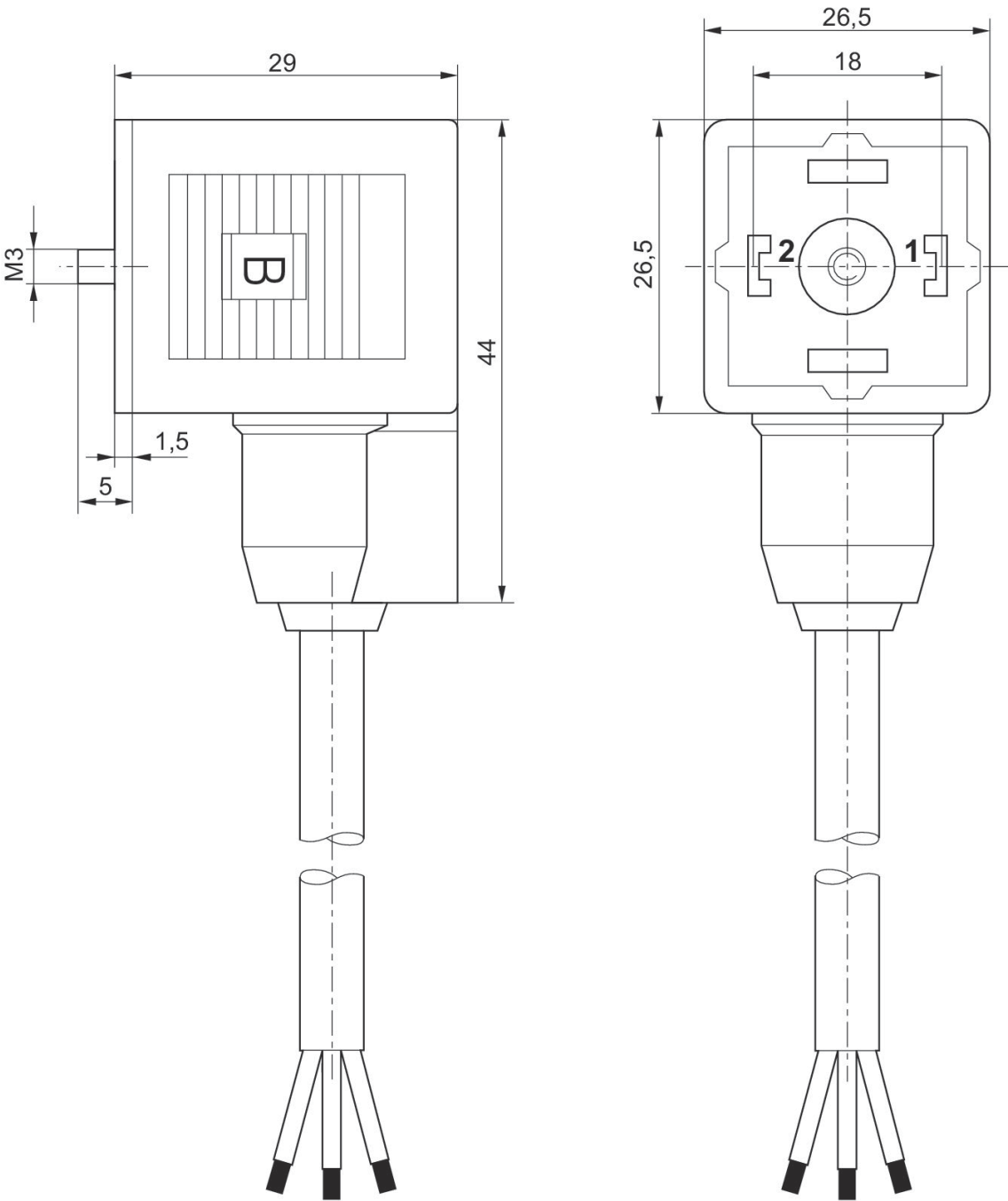
Valve plug connector with cable series CON-VP, Form A

Electrical connection 1: Socket ... form A ... 2+E ... angled  
Electrical connection 2: open cable ends ... 3-pin  
Shielding: unshielded  
Ambient temperature min./max.: -20 °C ... 80 °C



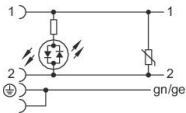
| Operational voltage | Contact assignment | Cable-Ø [mm] | Cable length [m] | Part No.   |
|---------------------|--------------------|--------------|------------------|------------|
| 230 V AC/DC         | 2+E                | 5.9          | 3                | 1834484160 |

Dimensions



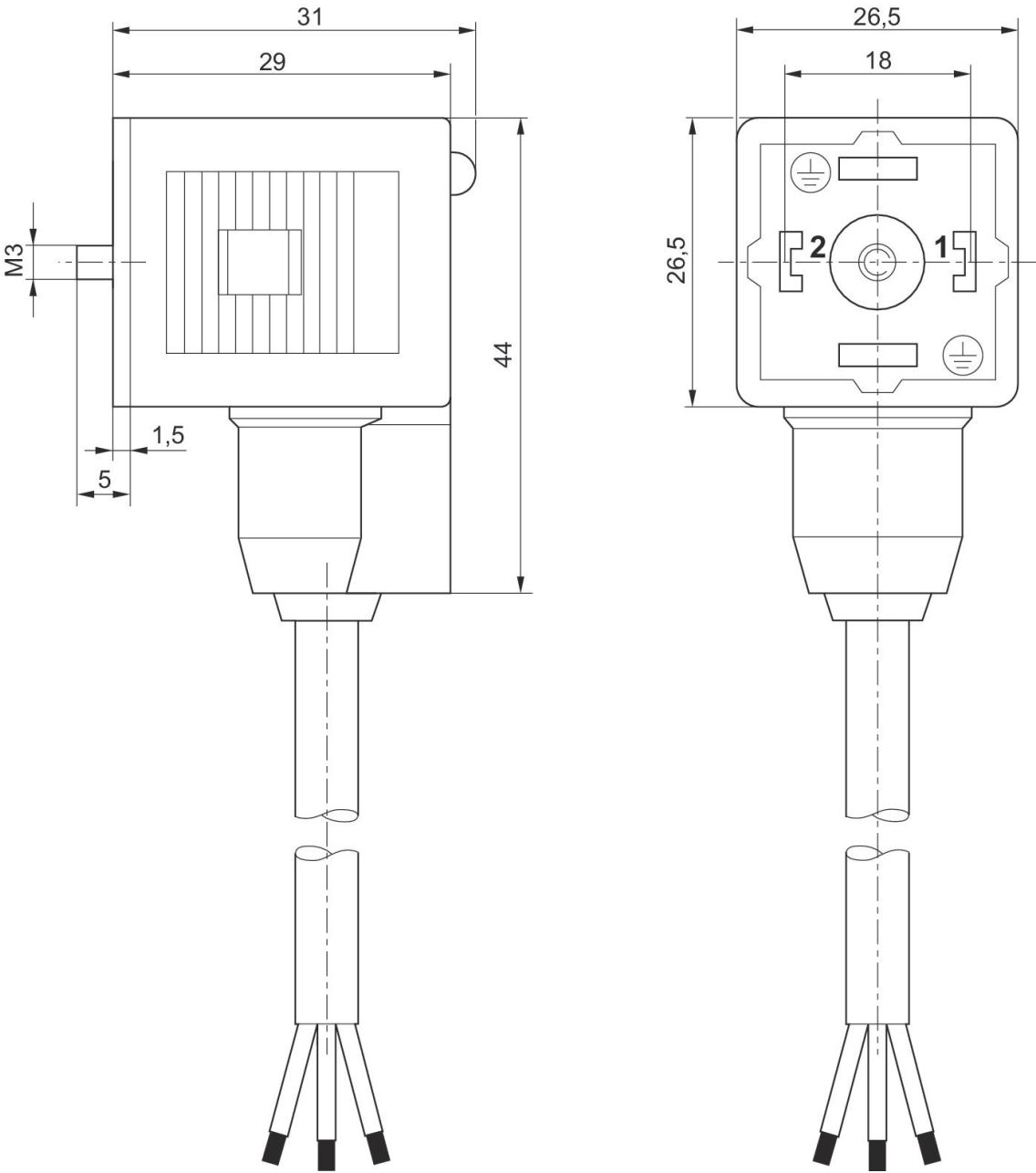
Valve plug connector with cable series CON-VP, Form A

Electrical connection 1: Socket ... form A ... 2+E ... angled  
Electrical connection 2: open cable ends ... 3-pin  
Shielding: unshielded  
Protective circuit: Varistor  
Ambient temperature min./max.: -20 °C ... 80 °C



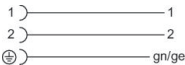
| Operational voltage | Protective circuit | Contact assignment | LED status display | Cable-Ø [mm] | Cable length [m] | Part No.   |
|---------------------|--------------------|--------------------|--------------------|--------------|------------------|------------|
| 24 V AC/DC          | Z-diode            | 2+E                | Yellow             | 5.9          | 3                | 1834484162 |
| 24 V AC/DC          | Z-diode            | 2+E                | Yellow             | 5.9          | 5                | 1834484163 |
| 230 V AC/DC         | Varistor           | 2+E                | Red                | 5.9          | 3                | 1834484164 |
| 230 V AC/DC         | Varistor           | 2+E                | Red                | 5.9          | 5                | 1834484165 |

Dimensions



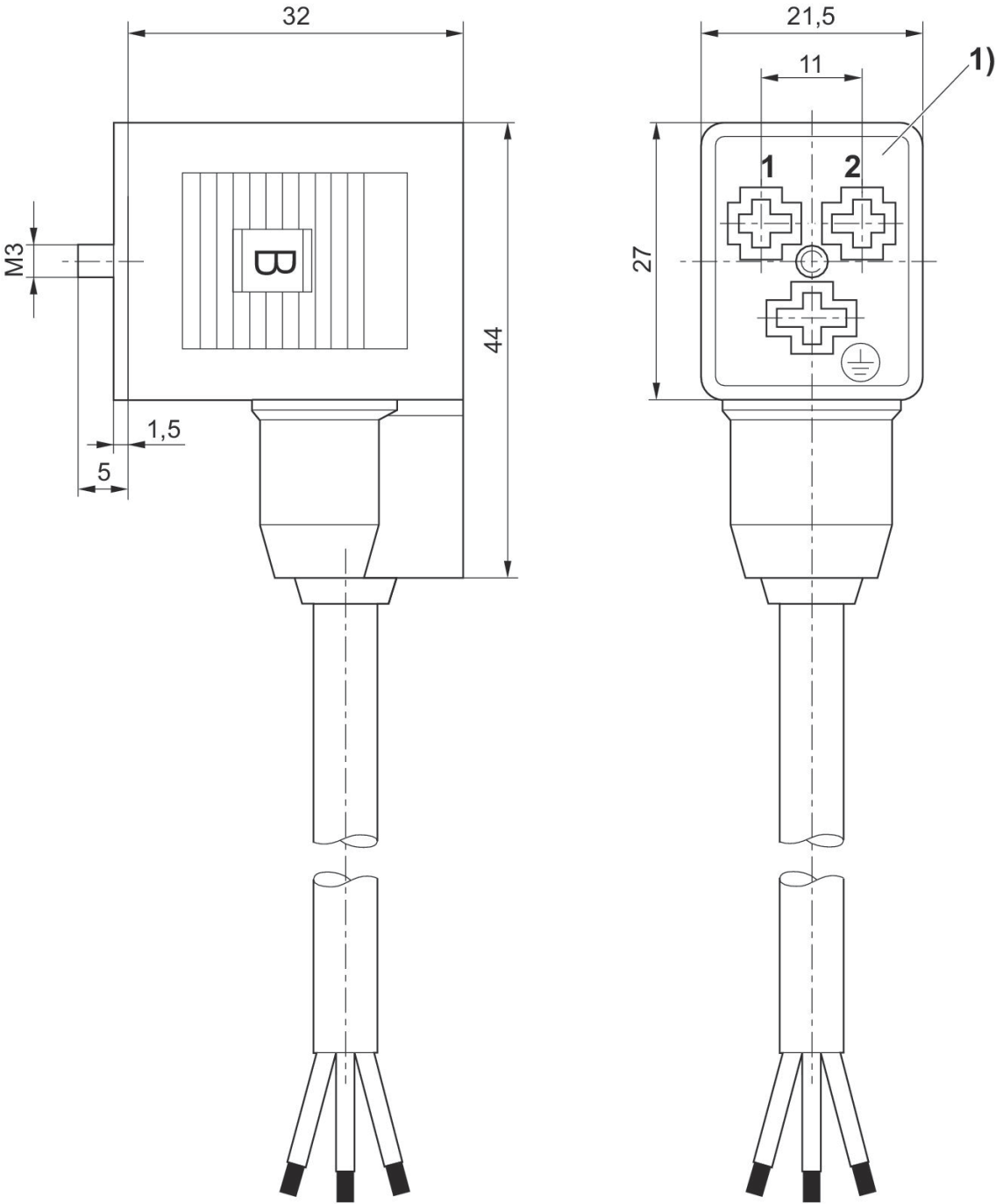
Valve plug connector with cable series CON-VP, Form B industry, 0° female insert

Electrical connection 1: Socket ... Form B, industry ... 2+E  
Electrical connection 2: open cable ends ... 3-pin  
Ambient temperature min./max.: -20 °C ... 80 °C



| Max. current [A] | Contact as-<br>signment | Cable-Ø [mm] | Cable length [m] | Part No.   |
|------------------|-------------------------|--------------|------------------|------------|
| 4                | 2+E                     | 5.9          | 3                | 8946201912 |

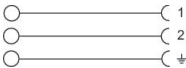
Dimensions



1) 0° female insert

Valve plug connector, series CON-VP, Form B, industry, 300 V DC / 250 V AC

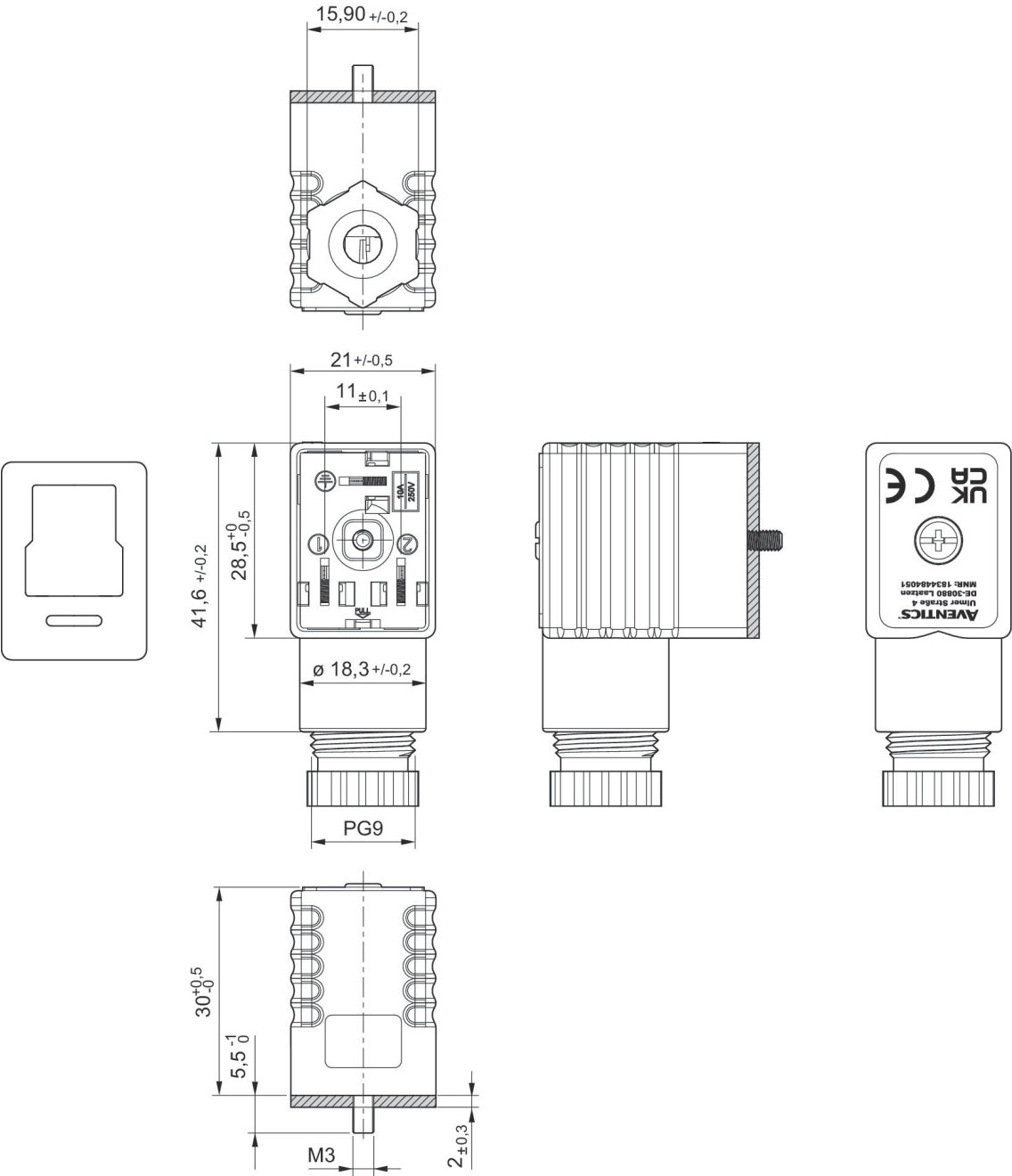
Electrical connection 1: Form B, industry  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Max. current [A] | Contact assignment | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|------------------|--------------------|----------------------------|----------------------------|------------|
| 300 V DC / 250 V AC | 10               | 2+E                | 4                          | 8                          | 1834484051 |



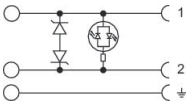
Dimensions



Profile seal

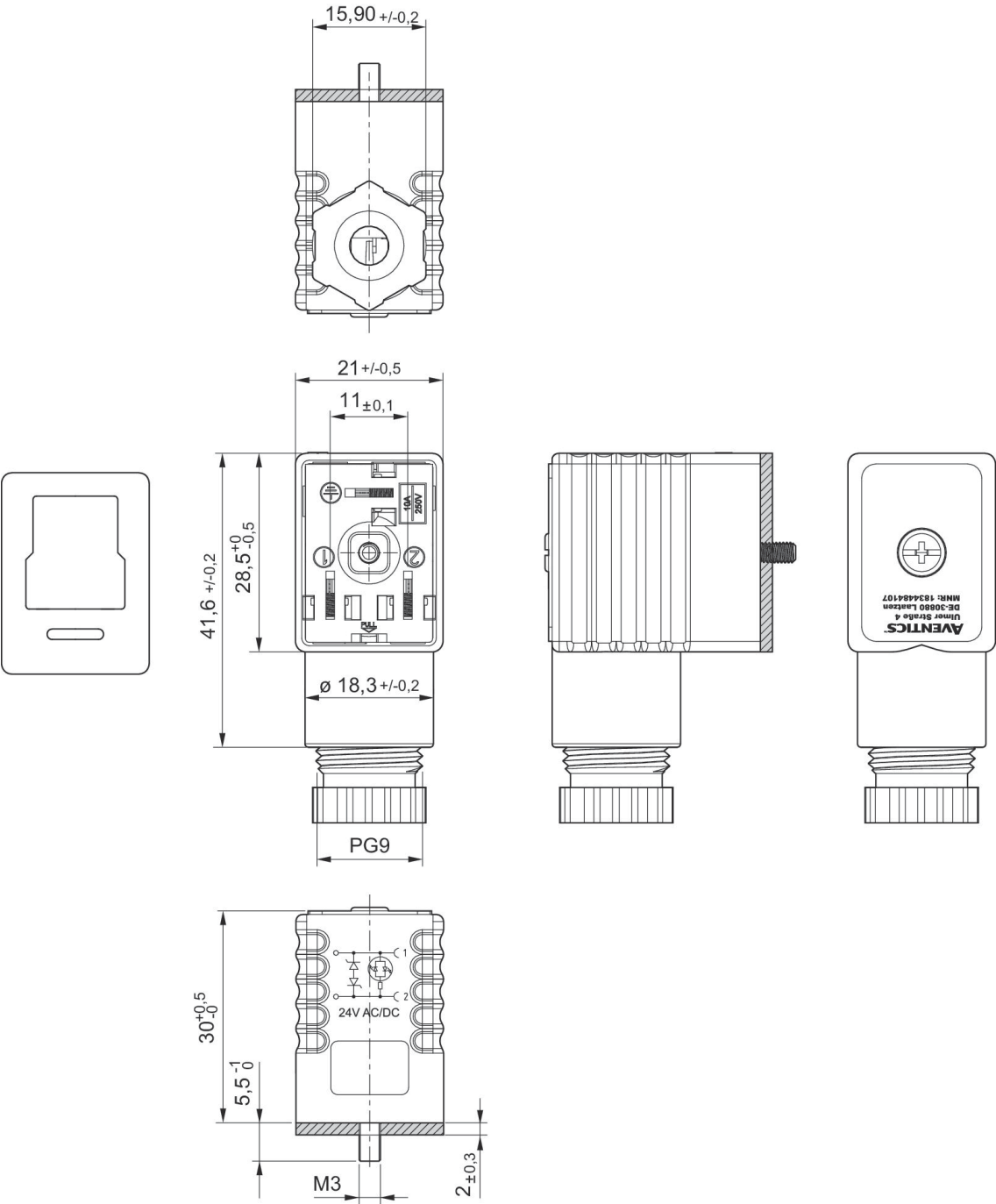
Valve plug connector, series CON-VP, Form B, industry, 24 V AC/DC

Electrical connection 1: Form B, industry  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protec-tive circuit | Max. current [A] | Contact as-signment | LED sta-tus display | min. suit-able cable Ø [mm] | max. suit-able cable Ø [mm] | Part No.   |
|---------------------|---------------------|------------------|---------------------|---------------------|-----------------------------|-----------------------------|------------|
| 24 V AC/DC          | 2 Z-diodes          | 1.5              | 2+E                 | Yellow              | 4                           | 8                           | 1834484107 |

Dimensions



Profile seal

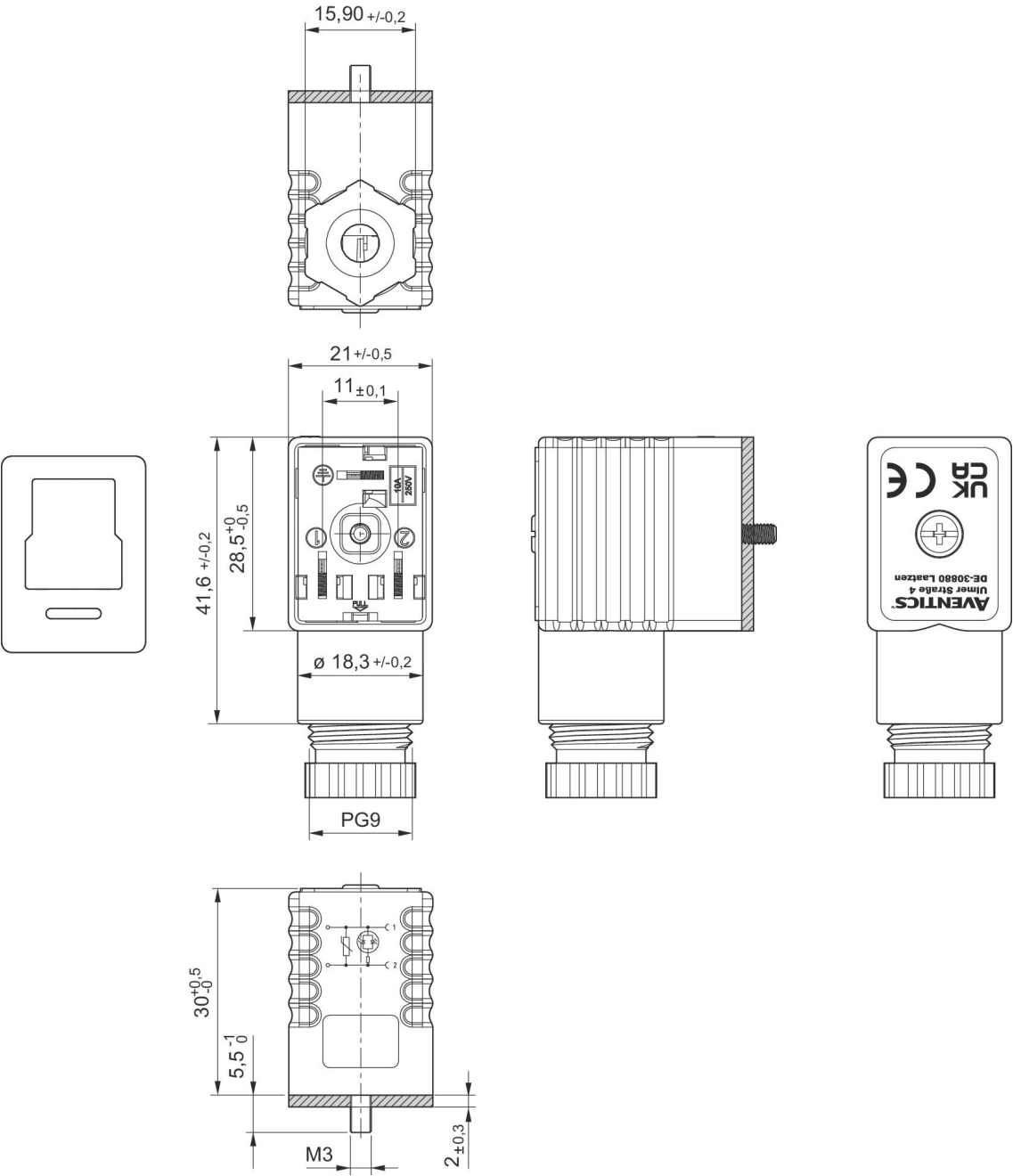
Valve plug connector, series CON-VP, Form B, industry, 115/230 V AC/DC

Electrical connection 1: Form B, industry  
Ambient temperature min./max.: -40 °C ... 90 °C



|  | Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|--|---------------------|--------------------|------------------|--------------------|--------------------|----------------------------|----------------------------|------------|
|  | 115 V AC/DC         | Varistor           | 1.5              | 2+E                | Red                | 4                          | 8                          | 1834484108 |
|  | 230 V AC/DC         | Varistor           | 1.5              | 2+E                | Red                | 4                          | 8                          | 1834484109 |

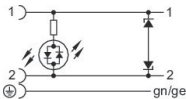
Dimensions



Profile seal

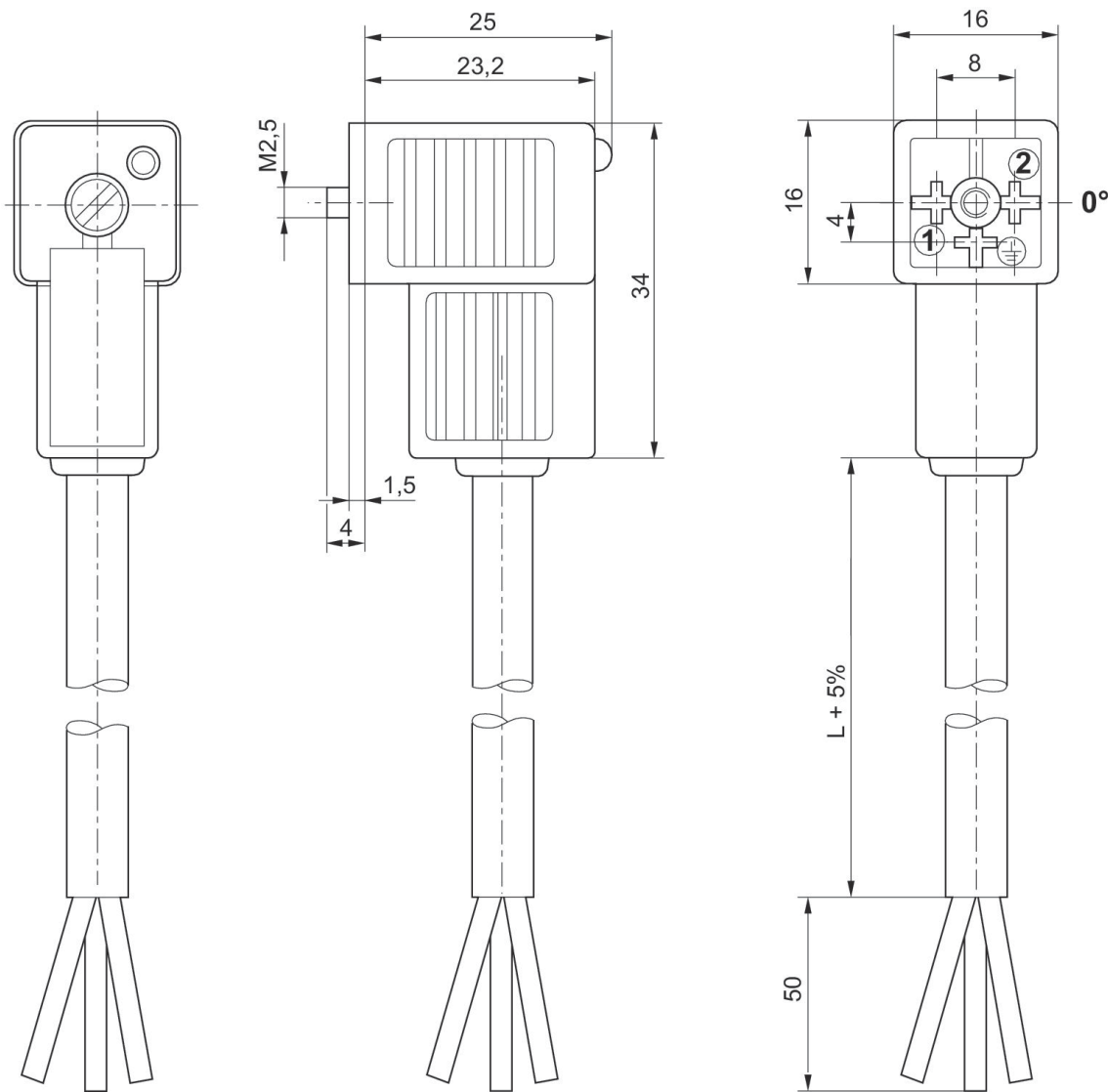
Valve plug connector, series CON-VP, 0° female insert

Electrical connection 1: Socket ... form C ... 2+E  
Electrical connection 2: open cable ends ... 3-pin  
Protective circuit: Z-diode  
Ambient temperature min./max.: -20 °C ... 80 °C



|  | Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | Cable-Ø [mm] | Cable length [m] | Part No.   |
|--|---------------------|--------------------|------------------|--------------------|--------------------|--------------|------------------|------------|
|  | 230 V AC/DC         |                    | 6                | 2+E                |                    | 5.9          | 3                | 1834484212 |
|  | 230 V AC/DC         |                    | 6                | 2+E                |                    | 5.9          | 5                | 1834484214 |
|  | 24 V AC/DC          | Z-diode            | 6                | 2+E                | Yellow             | 5.9          | 3                | 1834484204 |
|  | 24 V AC/DC          | Z-diode            | 6                | 2+E                | Yellow             | 5.9          | 5                | 1834484206 |
|  | 230 V AC/DC         | Varistor           | 6                | 2+E                | Yellow             | 5.9          | 3                | 1834484208 |
|  | 230 V AC/DC         | Varistor           | 6                | 2+E                | Yellow             | 5.9          | 5                | 1834484210 |

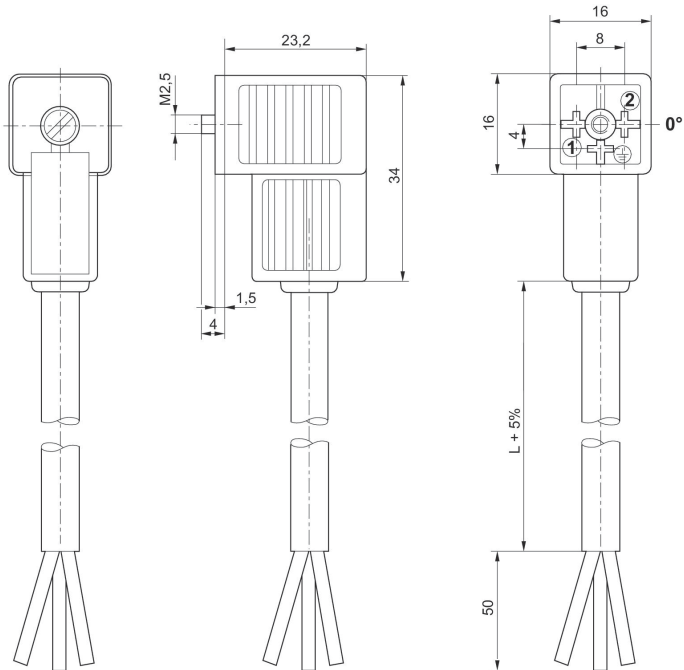
Dimensions



0° female insert

1834484212, 1834484214

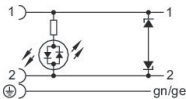
Dimensions





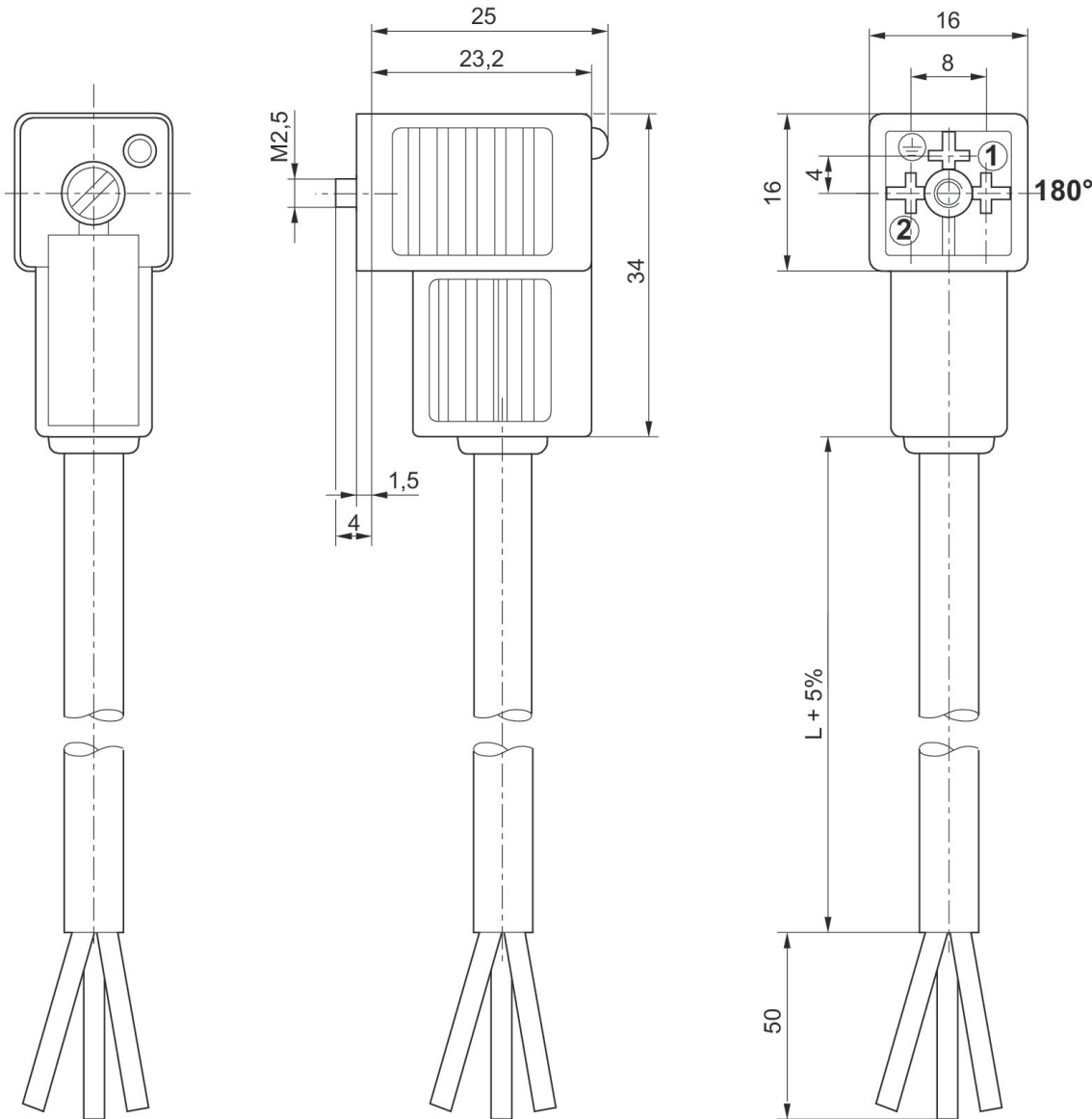
Valve plug connector with cable series CON-VP,, 180° female insert

Electrical connection 1: Socket ... form C ... 2+E  
Electrical connection 2: open cable ends ... 3-pin  
Protective circuit: Z-diode  
Ambient temperature min./max.: -20 °C ... 80 °C



|  | Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | Cable-Ø [mm] | Cable length [m] | Part No.   |
|--|---------------------|--------------------|------------------|--------------------|--------------------|--------------|------------------|------------|
|  | 230 V AC/DC         |                    | 6                | 2+E                |                    | 5.9          | 3                | 1834484213 |
|  | 230 V AC/DC         |                    | 6                | 2+E                |                    | 5.9          | 5                | 1834484215 |
|  | 24 V AC/DC          | Z-diode            | 6                | 2+E                | Yellow             | 5.9          | 3                | 1834484205 |
|  | 24 V AC/DC          | Z-diode            | 6                | 2+E                | Yellow             | 5.9          | 5                | 1834484207 |
|  | 230 V AC/DC         | Varistor           | 6                | 2+E                | Yellow             | 5.9          | 3                | 1834484209 |
|  | 230 V AC/DC         | Varistor           | 6                | 2+E                | Yellow             | 5.9          | 5                | 1834484211 |
|  | 24 V AC/DC          | Z-diode            | 6                | 2+E                | Yellow             | 5.9          | 10               | 1834484236 |

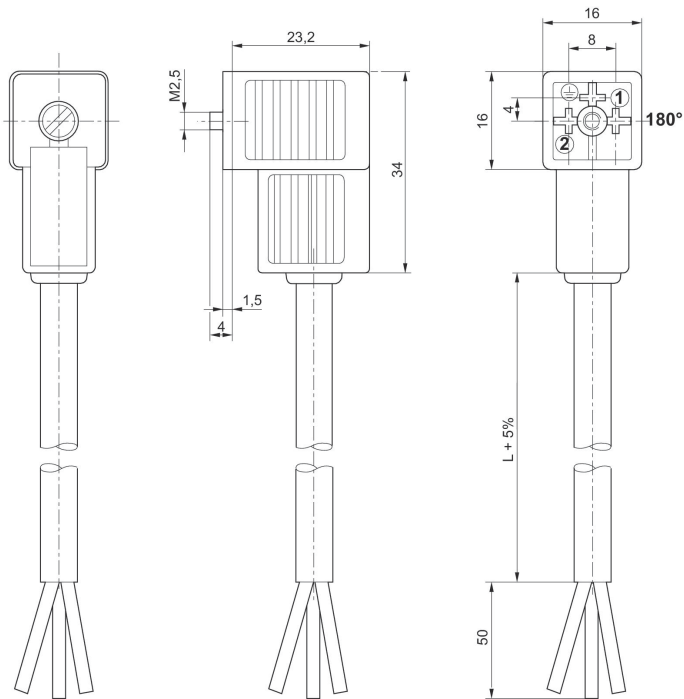
Dimensions



180° female insert

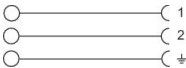
1834484213, 1834484215

Dimensions



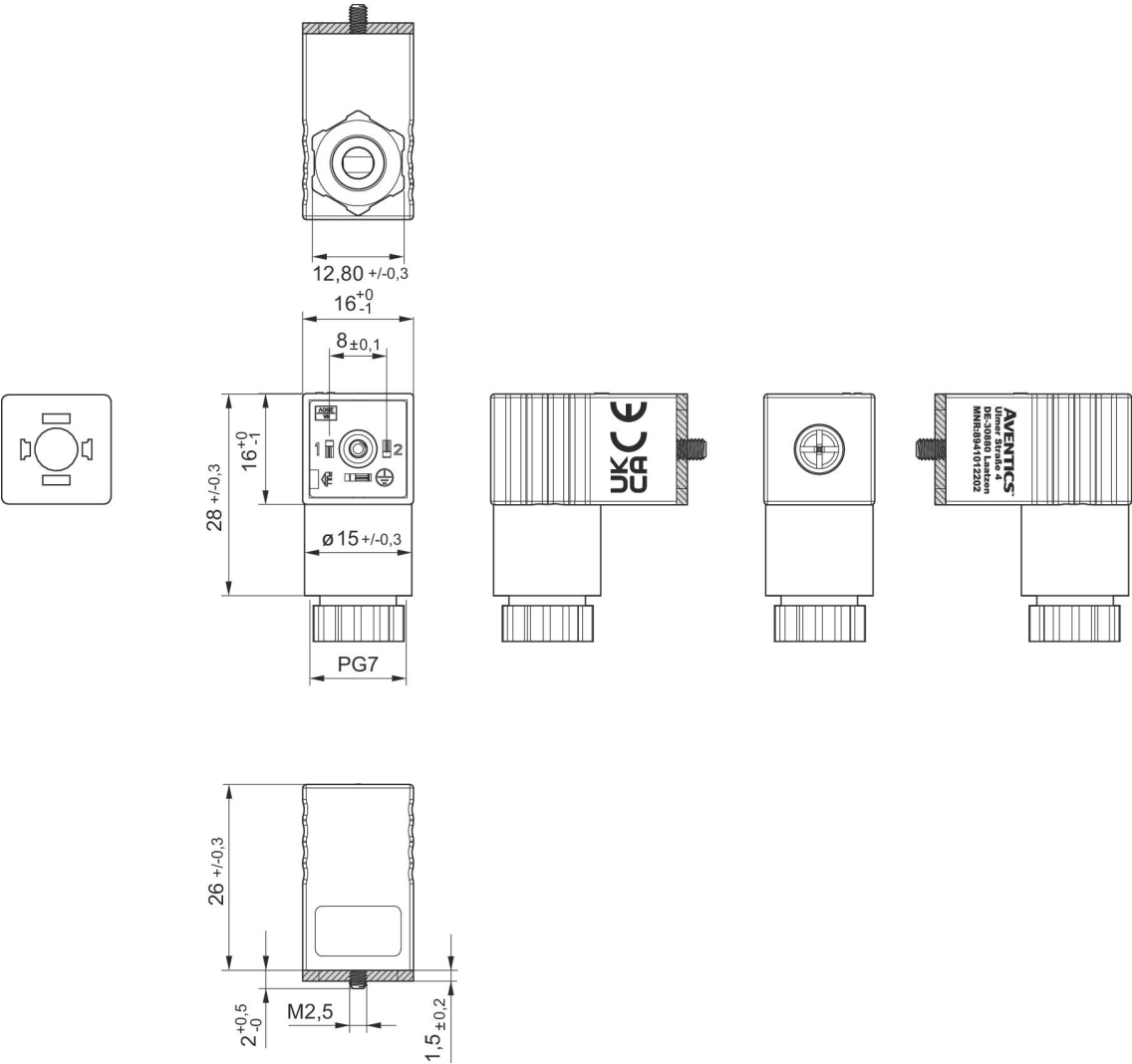
Valve plug connector, series CON-VP, form C, 300 V DC / 250 V AC

Electrical connection 1: EN 175301-803, form C  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Max. current [A] | Contact assignment | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|------------------|--------------------|----------------------------|----------------------------|------------|
| 300 V DC / 250 V AC | 6                | 2+E                | 4                          | 6                          | 8941012202 |

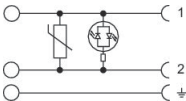
Dimensions



Profile seal

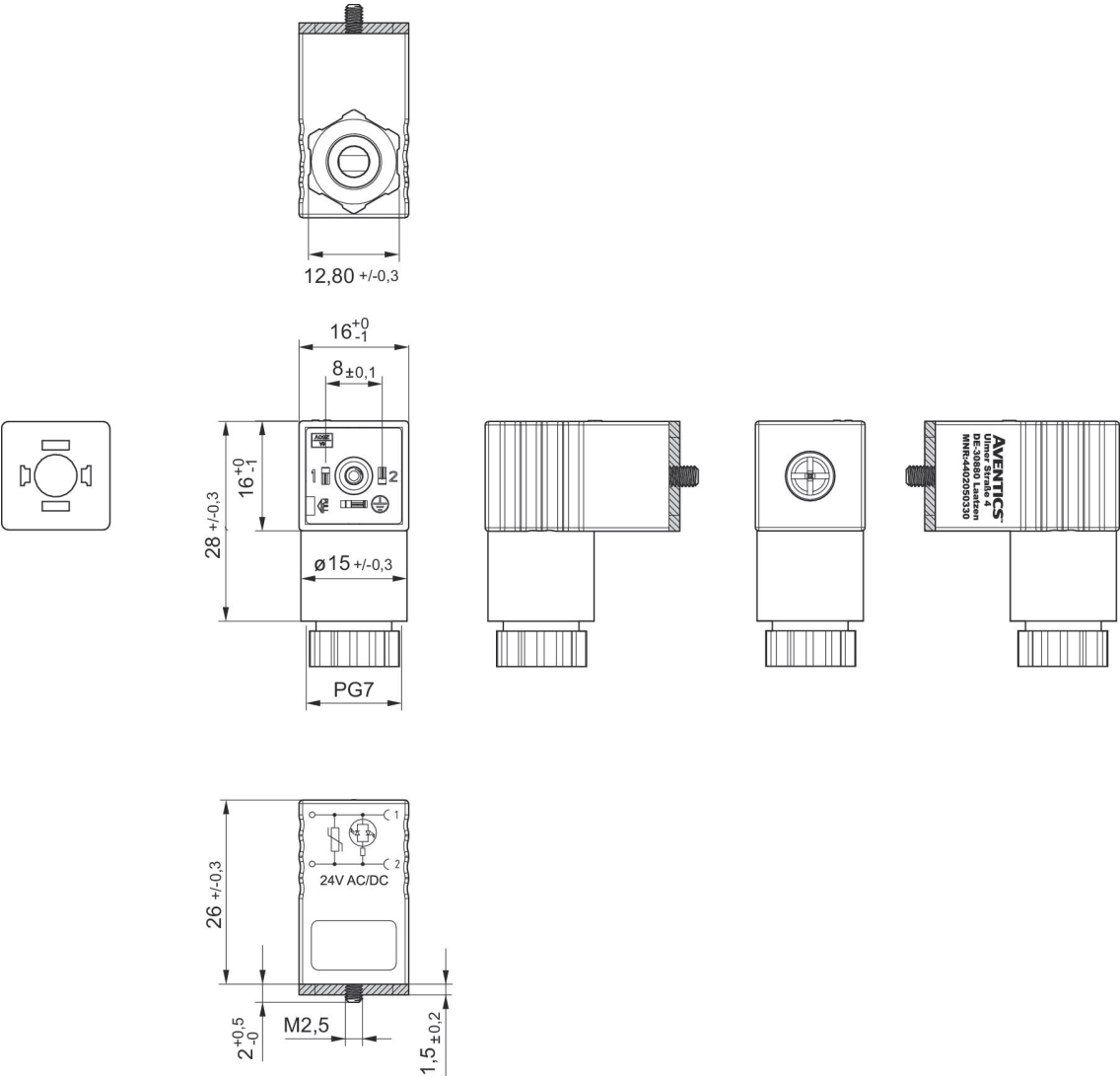
Valve plug connector, series CON-VP, form C, 24 V AC/DC

Electrical connection 1: EN 175301-803, form C  
Ambient temperature min./max.: -40 °C ... 90 °C



| Operational voltage | Protective circuit | Max. current [A] | Contact assignment | LED status display | min. suitable cable Ø [mm] | max. suitable cable Ø [mm] | Part No.   |
|---------------------|--------------------|------------------|--------------------|--------------------|----------------------------|----------------------------|------------|
| 24 V AC/DC          | Varistor           | 1.5              | 2+E                | Green              | 4                          | 6                          | 4402050330 |

Dimensions

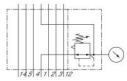
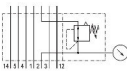


Profile seal

Pressure regulator

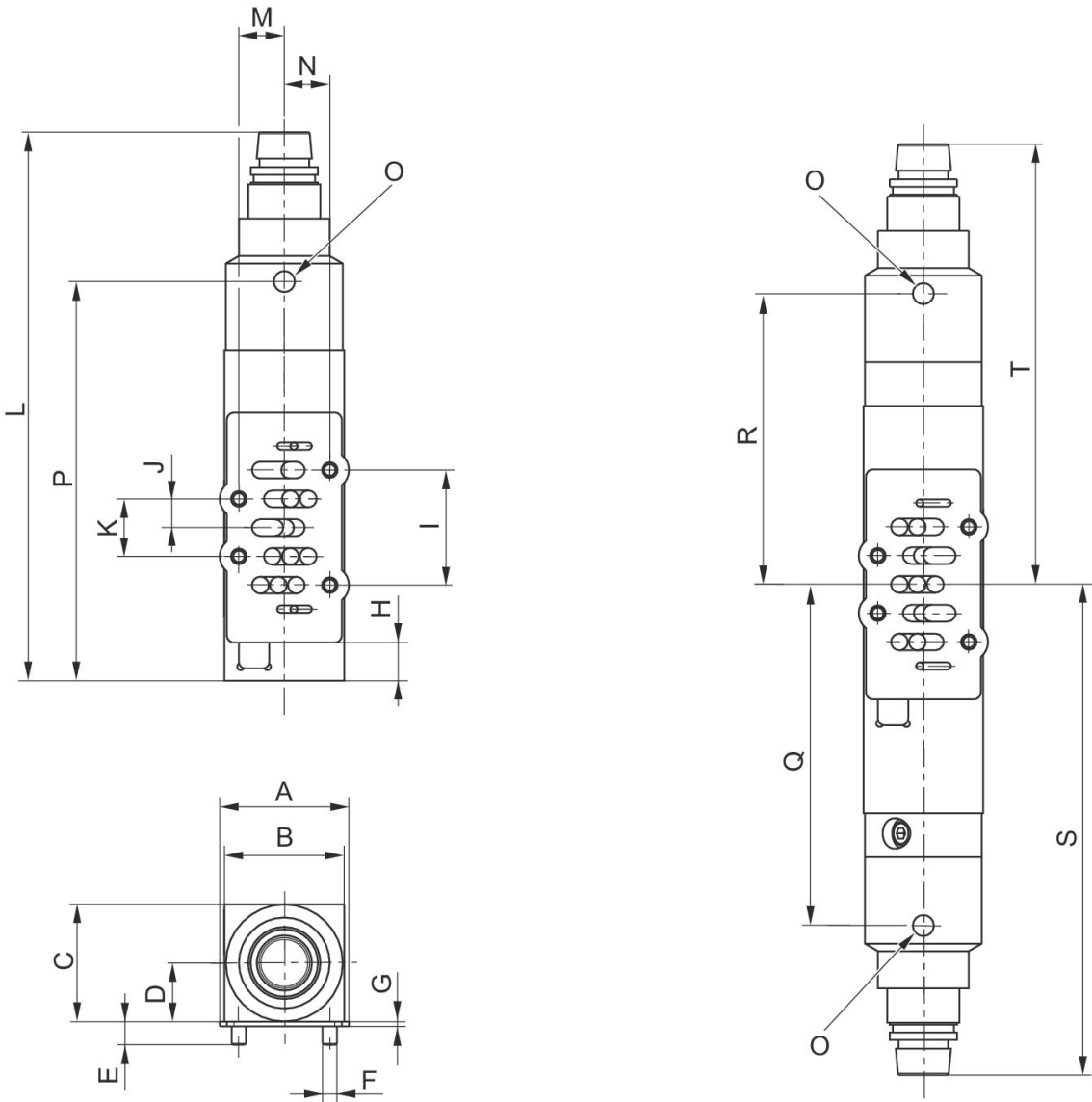
Ambient temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 12 bar



|                                                                                    | Con-<br>trolled port | Nominal flow<br>[l/min] | Min. regula-<br>tion range<br>[bar] | Max. regula-<br>tion range<br>[bar] | Part No.   |
|------------------------------------------------------------------------------------|----------------------|-------------------------|-------------------------------------|-------------------------------------|------------|
|    | 1                    | 1050                    | 0.5                                 | 8                                   | R422103092 |
|    | 2                    | 1070                    | 0.5                                 | 8                                   | R422103093 |
|   | 2, 4                 | 1070                    | 0.5                                 | 8                                   | R422103094 |
|  | 1                    | 1050                    | 0.5                                 | 8                                   | R422103095 |



Dimensions



| Part No.   | A  | B  | C     | D     | E    | F  | G | H     | I  |
|------------|----|----|-------|-------|------|----|---|-------|----|
| R422103092 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | 15.90 | 48 |
| R422103093 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | 15.90 | 48 |
| R422103094 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | –     | 48 |
| R422103095 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | –     | 48 |

| Part No.   | J  | K  | L      | M  | N  | O     | P      | Q      | R      |
|------------|----|----|--------|----|----|-------|--------|--------|--------|
| R422103092 | 12 | 24 | 228.90 | 19 | 19 | G 1/8 | 166.58 | –      | –      |
| R422103093 | 12 | 24 | 247.20 | 19 | 19 | G 1/8 | 183.84 | –      | –      |
| R422103094 | 12 | 24 | –      | 19 | 19 | G 1/8 | –      | 142.34 | 121.34 |
| R422103095 | 12 | 24 | –      | 19 | 19 | G 1/8 | –      | –      | –      |

| Part No.   | S      | T      |
|------------|--------|--------|
| R422103092 | –      | –      |
| R422103093 | –      | –      |
| R422103094 | 204.66 | 183.66 |
| R422103095 | –      | –      |

Blanking piece

Ambient temperature min./max.: -20 °C ... 70 °C



| Weight [kg] | Material | Part No.   |
|-------------|----------|------------|
| 0.025       | Brass    | 5802530000 |

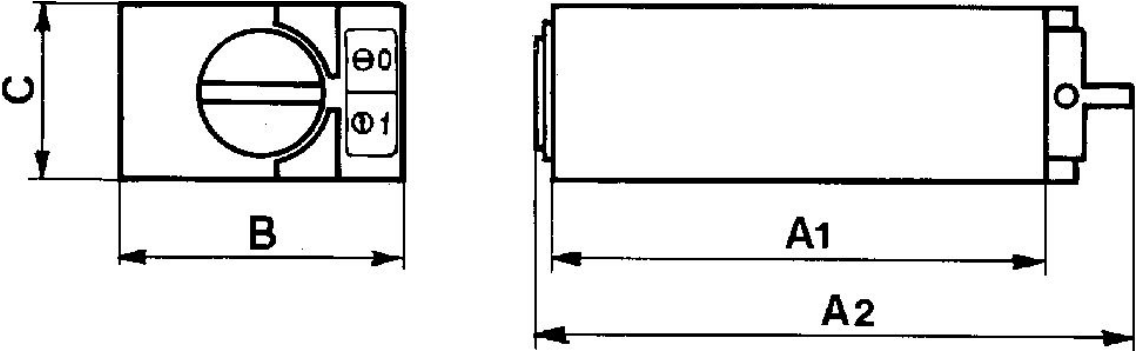
Stop plate to exchange valve

Ambient temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: -0.95 bar ... 10 bar



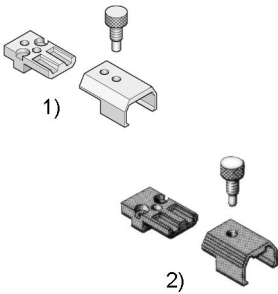
| Weight [kg] | Material | Part No.   |
|-------------|----------|------------|
| 0.329       | Aluminum | 5802590000 |

Dimensions



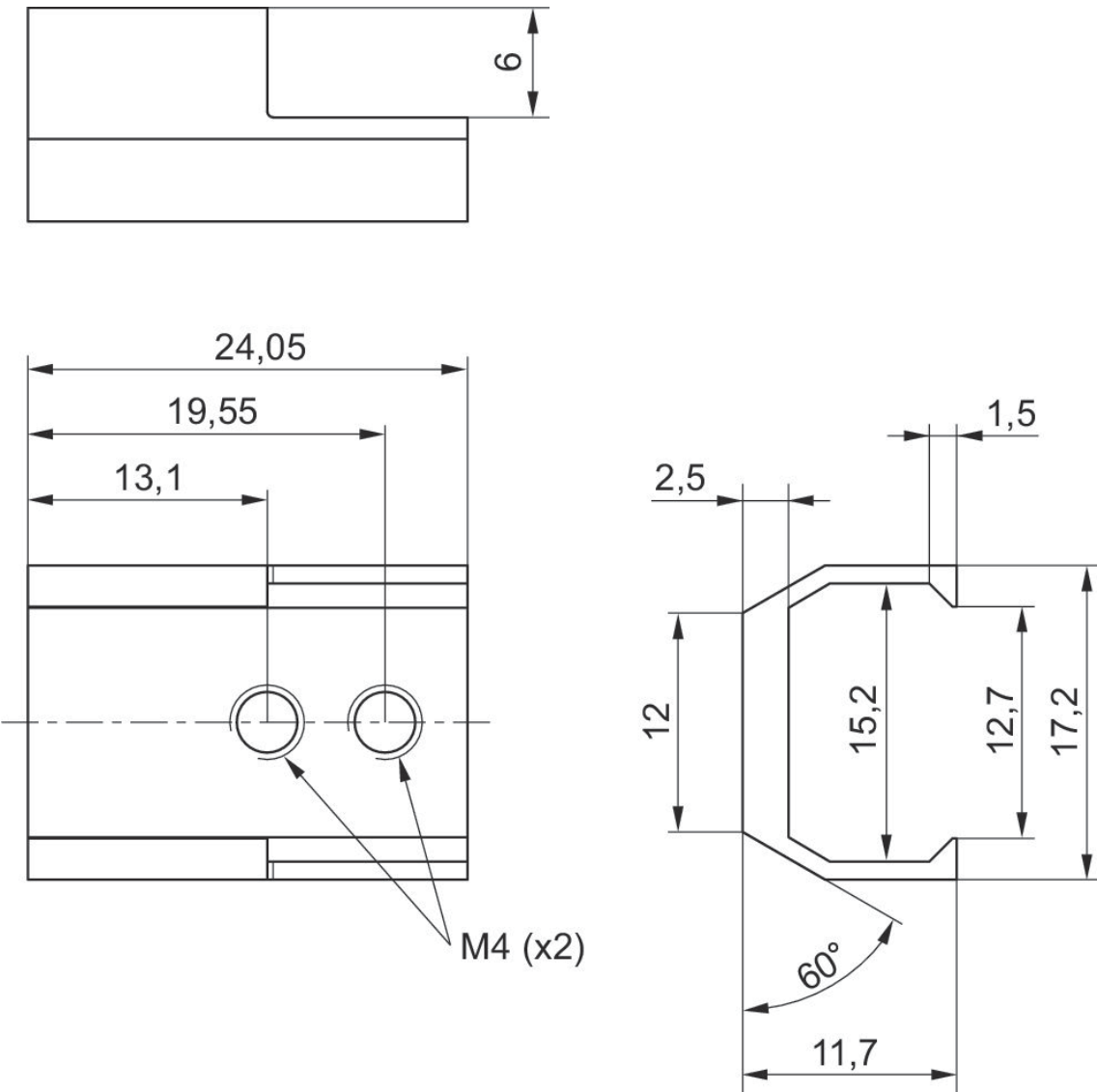
| Part No.   | A1 | A2  | B  | C  |
|------------|----|-----|----|----|
| 5802590000 | 87 | 104 | 50 | 28 |

Control unit for manual override



| Type                                                                | Weight [kg] | Part No.   |
|---------------------------------------------------------------------|-------------|------------|
| for double-sided electrically actuated valves, 15 pilot valve width | 0.03        | 0493835718 |

Dimensions



Blanking piece



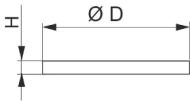
| Type           | Type  | Weight [kg] | Part No.   |
|----------------|-------|-------------|------------|
| Blanking piece | ISO 1 | 0.009       | R432038306 |
| Blanking piece | ISO 2 | 0.009       | R432037662 |
| Blanking piece | ISO 3 | 0.02        | R432037663 |

Separator set

Ambient temperature min./max.: -20 °C ... 70 °C



| Type | Type         | Delivery unit [piece] | Weight [kg] | Material | Part No.   |
|------|--------------|-----------------------|-------------|----------|------------|
| b    | ISO 1, ISO 2 | 3                     | 0.017       | Brass    | 5802880000 |



| Part No.   | D    | H   |
|------------|------|-----|
| 5801880000 | 13,2 | 2   |
| 5802880000 | 17,2 | 2   |
| 5803880000 | 20,5 | 2,2 |
| 5804880000 | 24,5 | 2,2 |



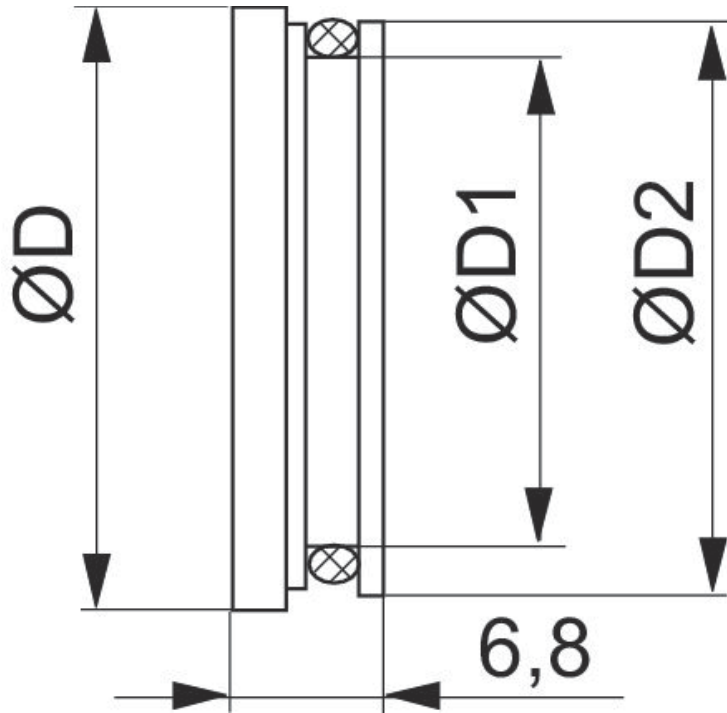
Blanking piece

Ambient temperature min./max.: -15 °C ... 80 °C



| Type                  | Type  | Weight [kg] | Material | Part No.   |
|-----------------------|-------|-------------|----------|------------|
| Blanking piece, ISO 2 | ISO 2 | 0.011       | Aluminum | 1820220023 |

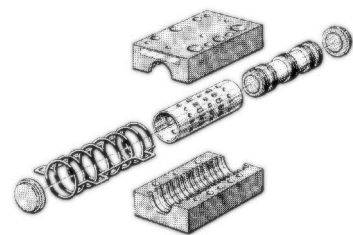
Dimensions



| Part No.                 | Ø D  | Ø D1 | Ø D2 |
|--------------------------|------|------|------|
| 1820220021               | 16.6 | 11.8 | 15.8 |
| 1820220023               | 23   | 14.3 | 18.2 |
| 1820A20013               | 29.3 | 23.8 | 27.7 |
| RepeatColumn tablefooter |      |      |      |

valve housing, without cover

Ambient temperature min./max.: -20 °C ... 70 °C



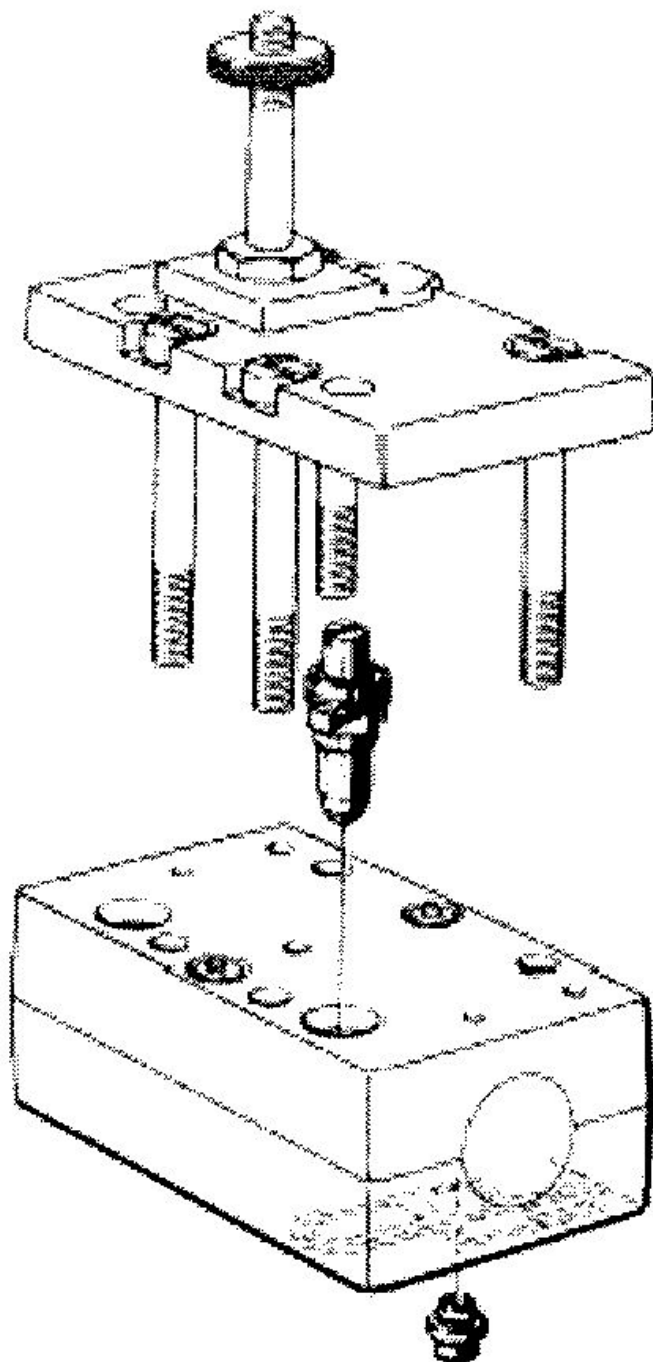
| Type                                                         | Weight [kg] | Material | Part No.   |
|--------------------------------------------------------------|-------------|----------|------------|
| 5/2-directional valve, mono-stable                           | 0.255       | Aluminum | 5812100000 |
| 5/2-directional valve, double solenoid                       | 0.4         | Aluminum | 5812200000 |
| 5/2-directional valve, double solenoid, with manual override | 0.4         | Aluminum | 5812300000 |
| 5/3-directional valve, closed center                         | 0.26        | Aluminum | 5812400000 |
| 5/3-directional valve, exhausted center                      | 0.26        | Aluminum | 5812500000 |
| 5/2-way solenoid valve, with differential piston             | 0.27        | Aluminum | 5812600000 |
| 5/3-directional valve, pressurized center                    | 0.26        | Aluminum | 5812700000 |

throttle insert for flow control in 3/5



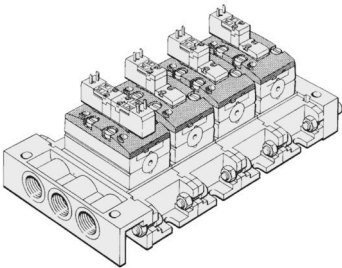
| Weight [kg] | Part No.   |
|-------------|------------|
| 0.025       | 5812001000 |

Vertically mounted



valve cover, with or without pilot valve

Ambient temperature min./max.: -10 °C ... 50 °C



| Type                                   | Weight [kg] | Part No.   |
|----------------------------------------|-------------|------------|
| 5/2-directional valve, single solenoid | 0.085       | 0493842706 |
| 2x3/2-, 5/2-, 5/3-directional valve    | 0.08        | 0493842803 |
| 5/2-directional valve, mono-stable     | 1           | 5812010000 |
| 2x3/2-, 5/2-, 5/3-directional valve    | 1           | 5812020000 |
| 5/2-directional valve, mono-stable     | 0.17        | 5812050000 |
| 2x3/2-, 5/2-, 5/3-directional valve    | 0.18        | 5812060000 |
| all                                    | 0.241       | 5812080000 |

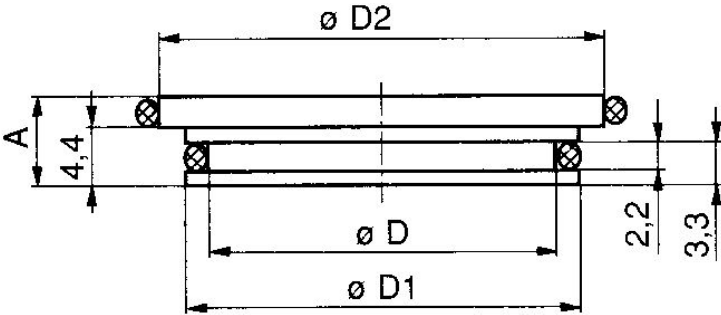
Blanking piece, Subbases ISO 5599-1

Ambient temperature min./max.: -25 °C ... 70 °C  
Working pressure min./max.: -0.95 bar ... 10 bar



| Type  | Material | Part No.   |
|-------|----------|------------|
| ISO 1 | Brass    | 8985049012 |
| ISO 2 | Brass    | 8985049022 |
| ISO 3 | Brass    | 8985049032 |

Dimensions



| Part No.    |       | A   | D    | D1   | D2   |
|-------------|-------|-----|------|------|------|
| 8985049012  | ISO 1 | 6.2 | 12.2 | 14.8 | 16.5 |
| 8985049022  | ISO 2 | 6.2 | 15.7 | 18.3 | 23   |
| 8985049032  | ISO 3 | 6.9 | 25.1 | 27.7 | 30   |
| tablefooter |       |     |      |      |      |

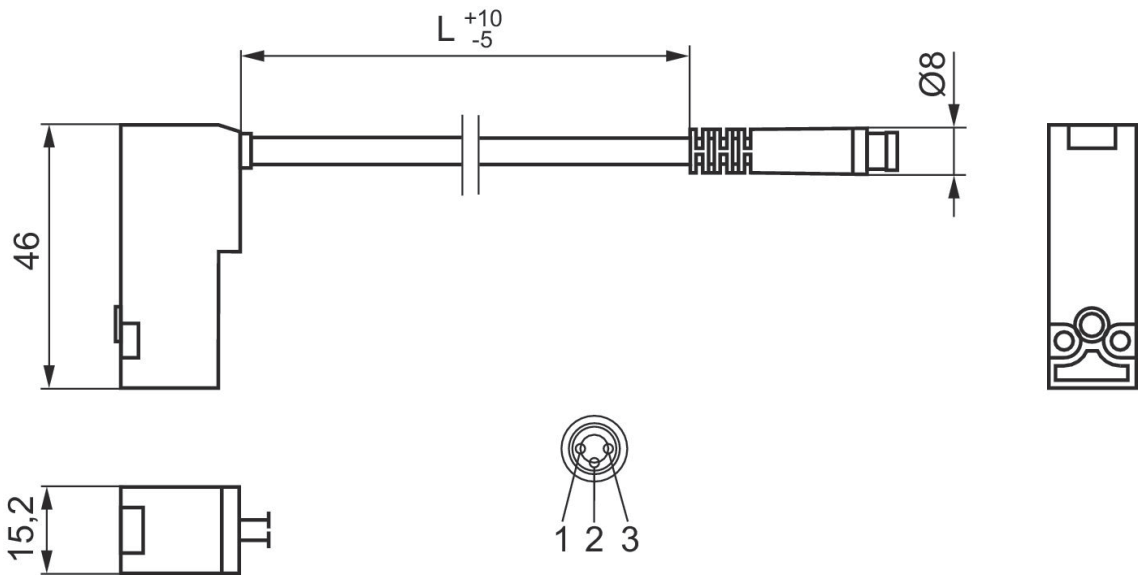
Pilot valve with cable

Activation: Electrically  
Duty cycle: 100 %  
Ambient temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 0 bar ... 10 bar



| Switching principle | Operational voltage | Cable length L [m] | Power consumption DC [W] | Switch-on time [ms] | Manual override | Part No.   |
|---------------------|---------------------|--------------------|--------------------------|---------------------|-----------------|------------|
| 3/2                 | 24 V DC             | 0.2                | 2.2                      | 15                  | without detent  | 0493833308 |
| 3/2                 | 24 V DC             | 0.35               | 2.2                      | 15                  | without detent  | 0493832506 |
| 3/2                 | 24 V DC             | 0.5                | 2.2                      | 15                  | without detent  | 0493833103 |
| 3/2                 | 24 V DC             | 5                  | 2.2                      | 15                  | without detent  | 0493838601 |

Dimensions



Pin assignment 1) +24 V 2) ground 3) 0 V

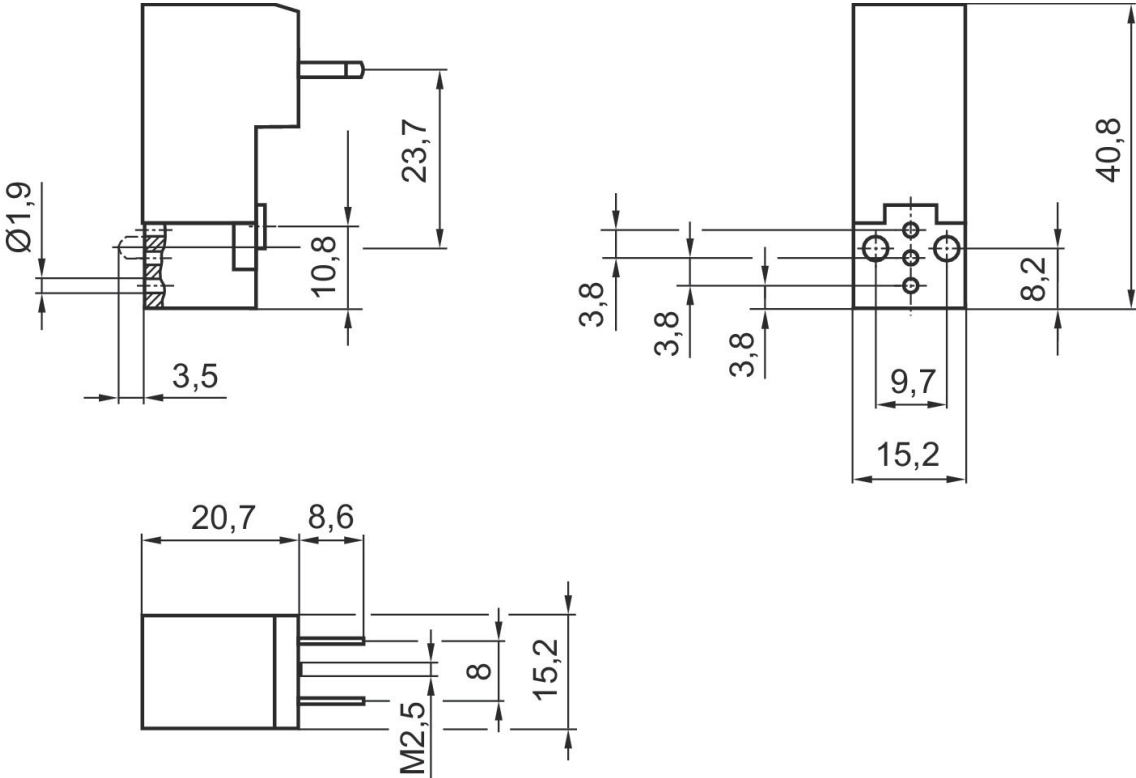
Pilot valve

Activation: Electrically  
Duty cycle: 100 %  
Ambient temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 0 bar ... 10 bar



| Switching principle | Operational voltage | Power consumption DC [W] | Manual override | Part No.   |
|---------------------|---------------------|--------------------------|-----------------|------------|
| 3/2                 | 24 V DC             | 2                        | without detent  | 0493833502 |

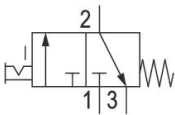
Dimensions





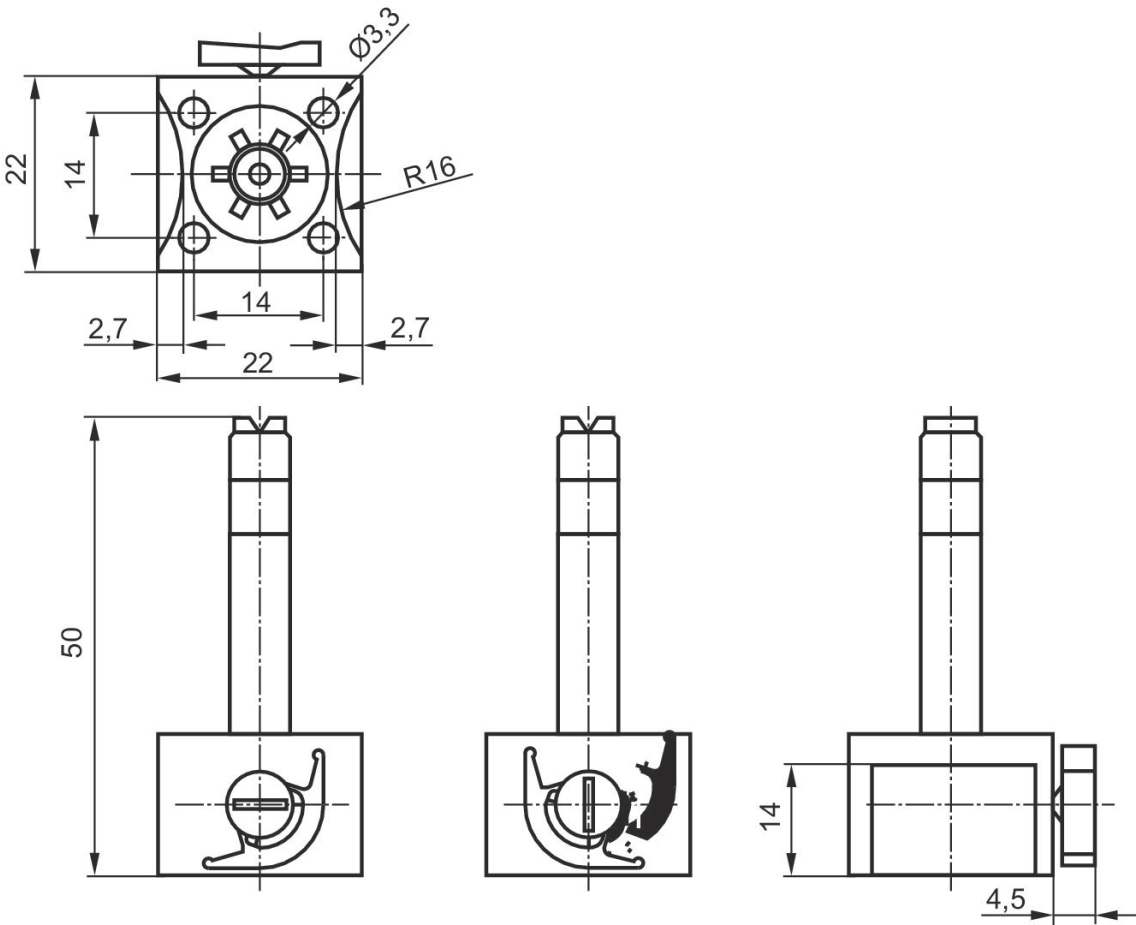
Pilot valve

Activation: Electrically  
Duty cycle: 100 %  
Ambient temperature min./max.: -15 °C ... 50 °C  
Working pressure min./max.: 0 bar ... 10 bar



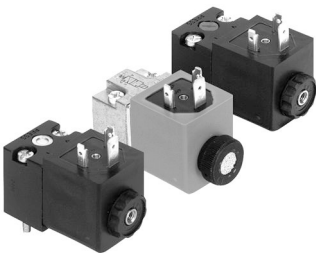
| Operational voltage | Power consumption DC [W] | Part No.   |
|---------------------|--------------------------|------------|
|                     | 5                        | 0493818805 |
| 24 V DC             | 2                        | 0493818902 |

Dimensions



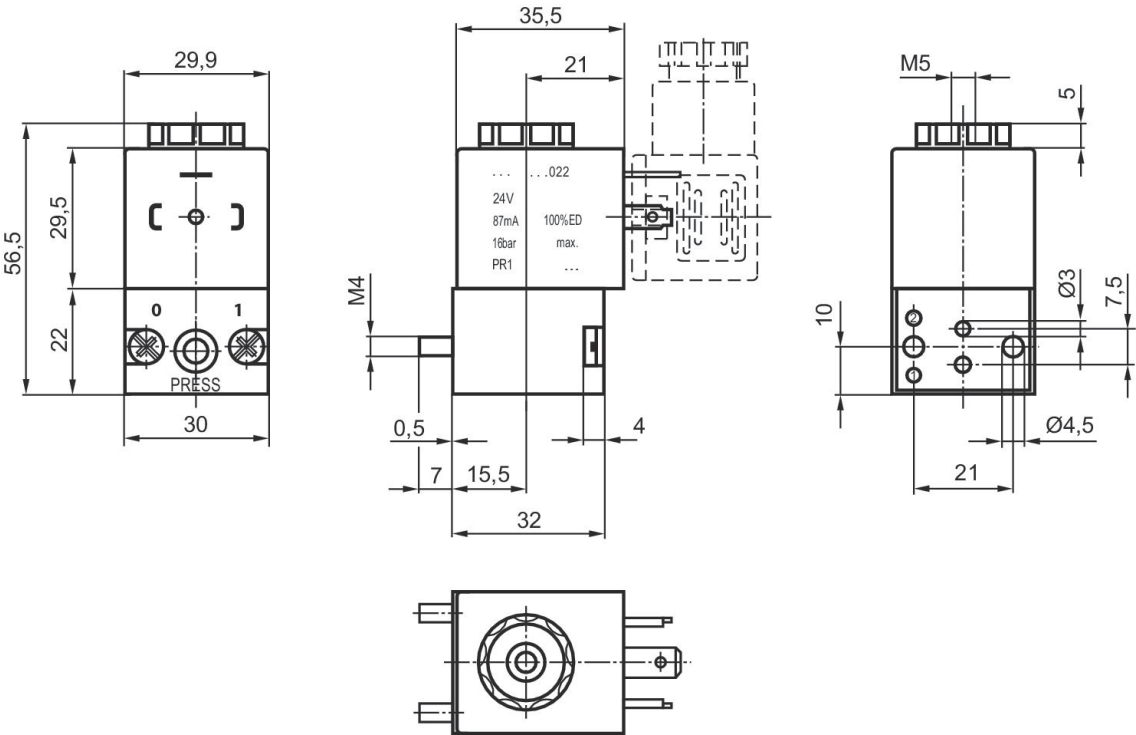
Pilot valve

Activation: Electrically  
Duty cycle: 100 %  
Ambient temperature min./max.: -10 °C ... 50 °C



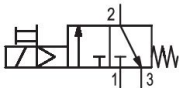
|  | Voltage tolerance DC | Power consumption DC [W] | Part No.   |
|--|----------------------|--------------------------|------------|
|  |                      |                          | 5428110080 |
|  | -10 % / +10 %        | 2                        | 5420890020 |
|  | -10 % / +10 %        | 6.7                      | 5420850020 |
|  |                      |                          | 5428150080 |
|  | -10 % / +10 %        | 2                        | 5420890030 |
|  | -10 % / +10 %        | 2                        | 5420890070 |
|  | -10 % / +10 %        | 2                        | 5420890080 |
|  |                      |                          | 5428110020 |
|  |                      |                          | 5428110040 |
|  |                      |                          | 5428110070 |

Dimensions



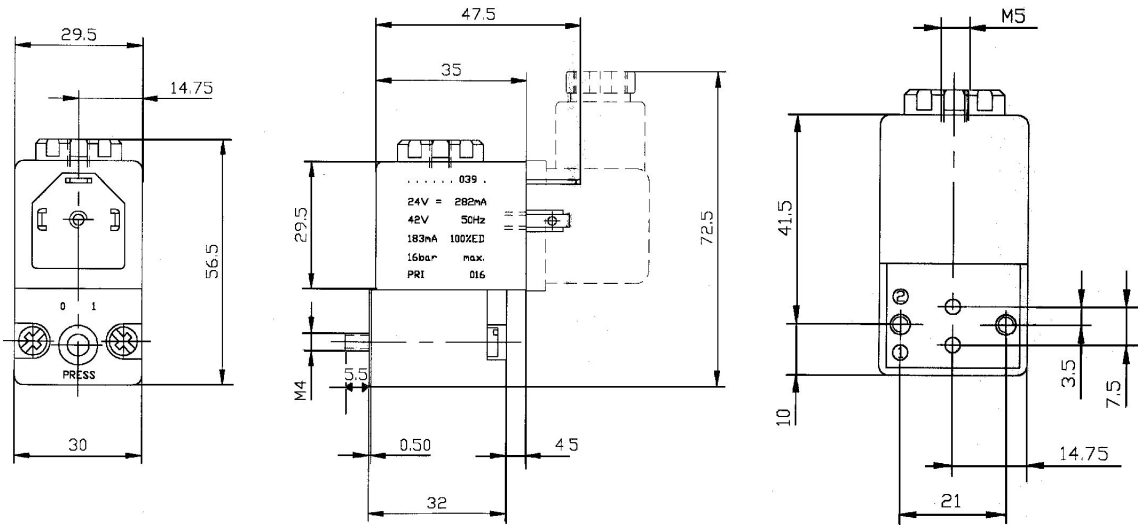
3/2-directional valve

Activation: Electrically  
Ambient temperature min./max.: -10 °C ... 50 °C  
Working pressure min./max.: 0 bar ... 16 bar

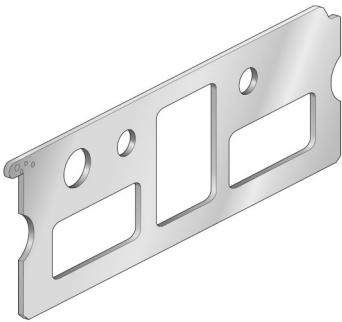


| Operational voltage | Power consumption DC [W] | Voltage tolerance DC | Manual override | Part No.   |
|---------------------|--------------------------|----------------------|-----------------|------------|
| 24 V DC             | 6.7                      | -10 % / +10 %        | without detent  | 5420800390 |
| 230 V AC            |                          |                      | without detent  | 5428200380 |
| 110 V AC            |                          |                      | without detent  | 5428200370 |

Dimensions



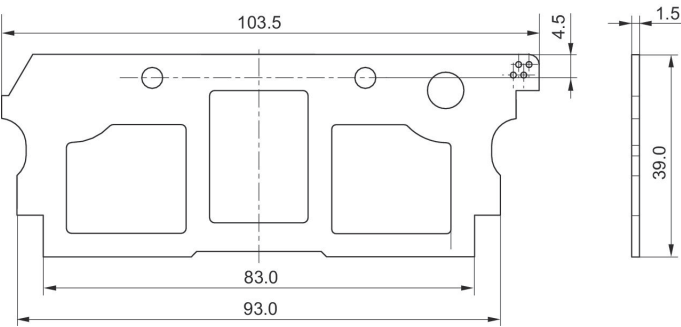
Transition plate, Series 355, ISO 2



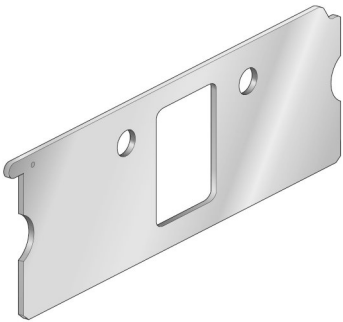
| Type                           | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|--------------------------------|-------------------------------|-------------------------------|----------|
| Port 1, 3, 5 and 12 or 14 open | -10                           | 60                            | 88135508 |

88135508

Dimensions



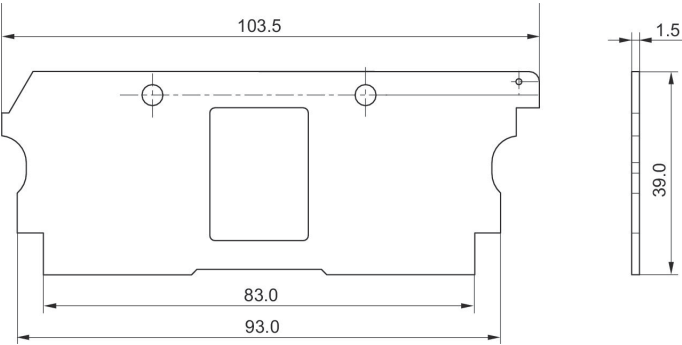
Transition plate, Series 355, ISO 2



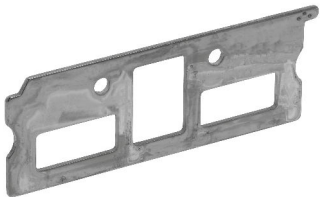
| Type        | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|-------------|------------|-------------------------------|-------------------------------|----------|
| Port 1 open | ISO 2      | -10                           | 60                            | 88135513 |

88135513

Dimensions



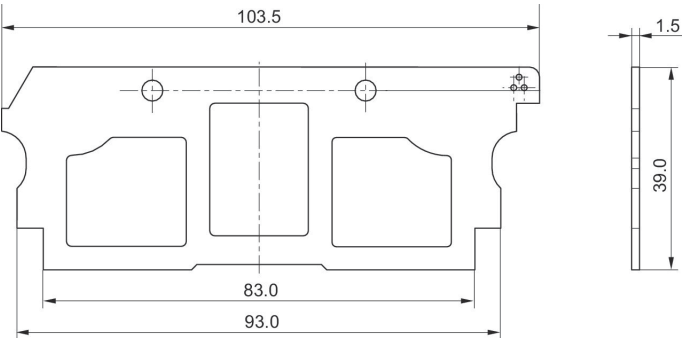
Transition plate, Series 355, ISO 2



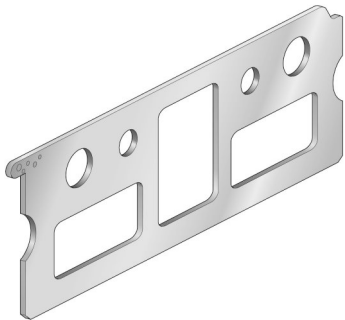
| Type              | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|-------------------|------------|-------------------------------|-------------------------------|----------|
| Port 1, 3, 5 open | ISO 2      | -10                           | 60                            | 88135507 |

88135507

Dimensions

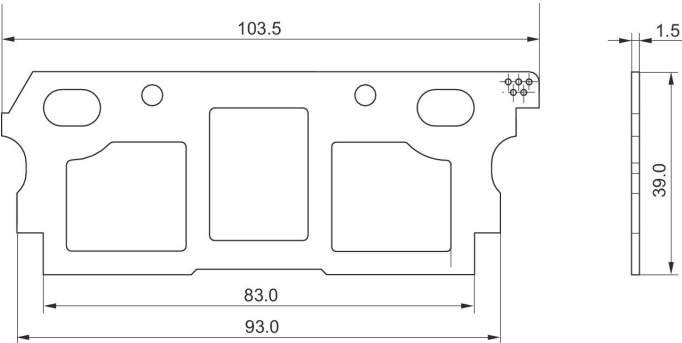


Transition plate, Series 355, ISO 2



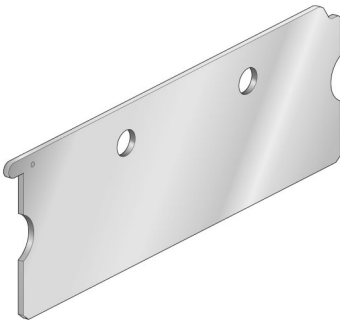
| Type                         | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|------------------------------|------------|-------------------------------|-------------------------------|----------|
| Port 1, 3, 5 and 12, 14 open | ISO 2      | -10                           | 60                            | 88135509 |

88135509





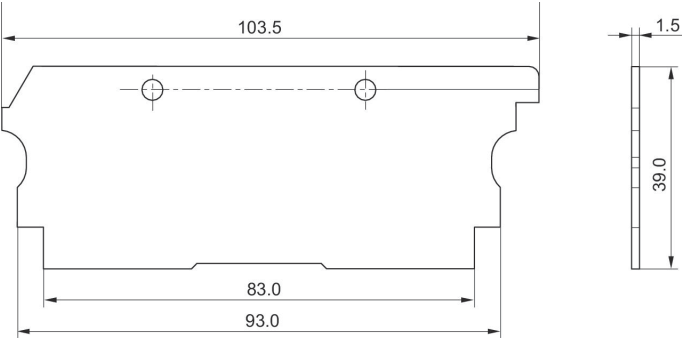
Transition plate, Series 355, ISO 2



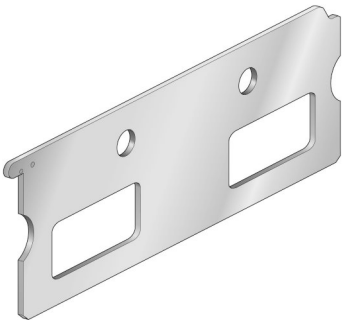
| Type           | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|----------------|------------|-------------------------------|-------------------------------|----------|
| Blanking plate | ISO 2      | -10                           | 60                            | 88135506 |

88135506

Dimensions



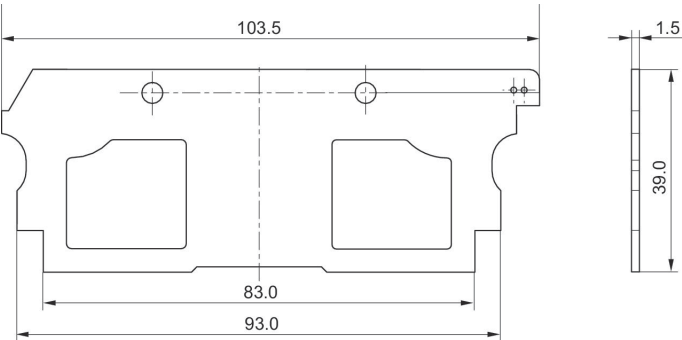
Transition plate, Series 355, ISO 2



| Type           | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No. |
|----------------|------------|-------------------------------|-------------------------------|----------|
| Port 3, 5 open | ISO 2      | -10                           | 60                            | 88135511 |

88135511

Dimensions

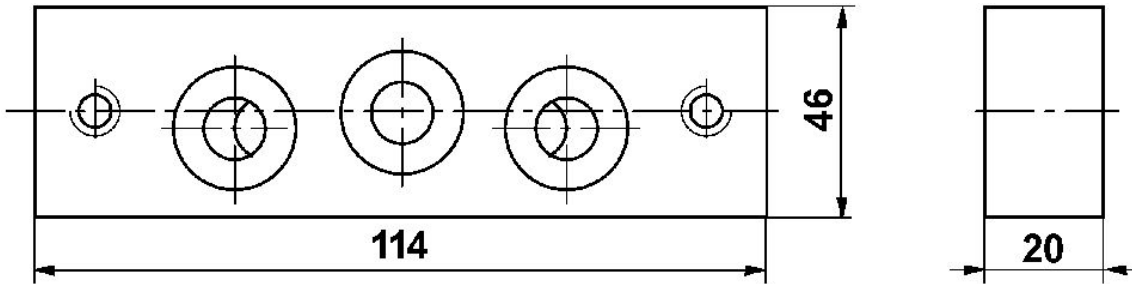


Transition plate, ISO 1, ISO 2



| Frame size   | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|--------------|-------------------------------|-------------------------------|------------|
| ISO 1, ISO 2 | -20                           | 70                            | 5802520000 |

Dimensions

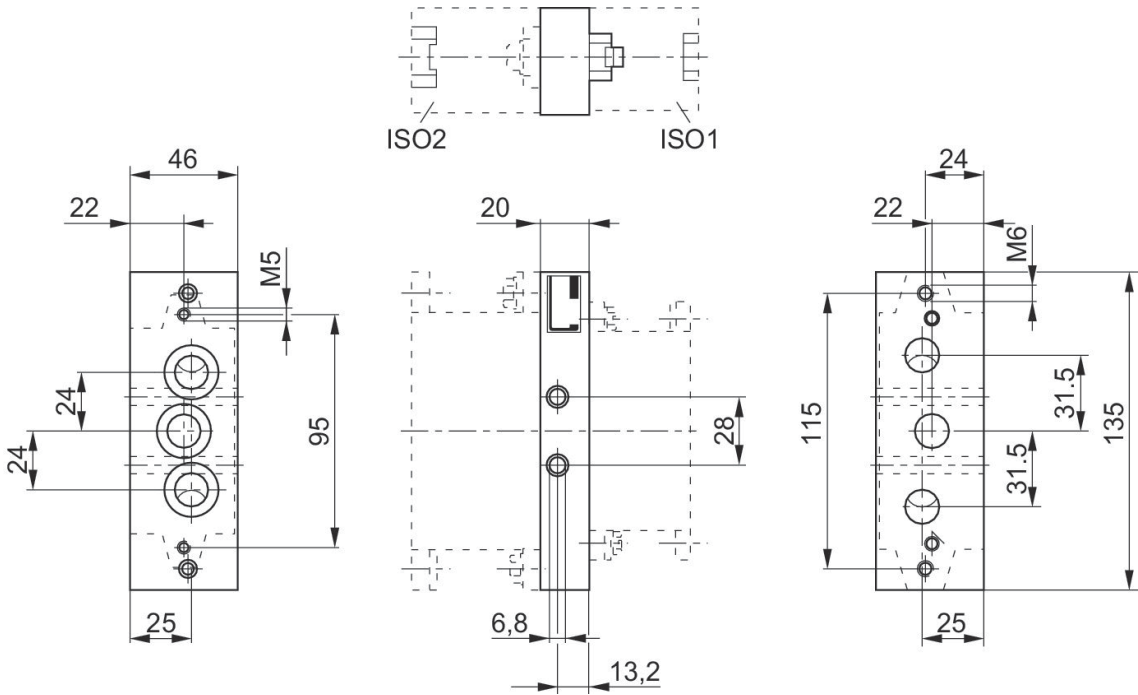


Transition plate, ISO 1 > ISO 2



| Frame size    | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|---------------|-------------------------------|-------------------------------|------------|
| ISO 1 > ISO 2 | -15                           | 70                            | 1825503164 |

Dimensions

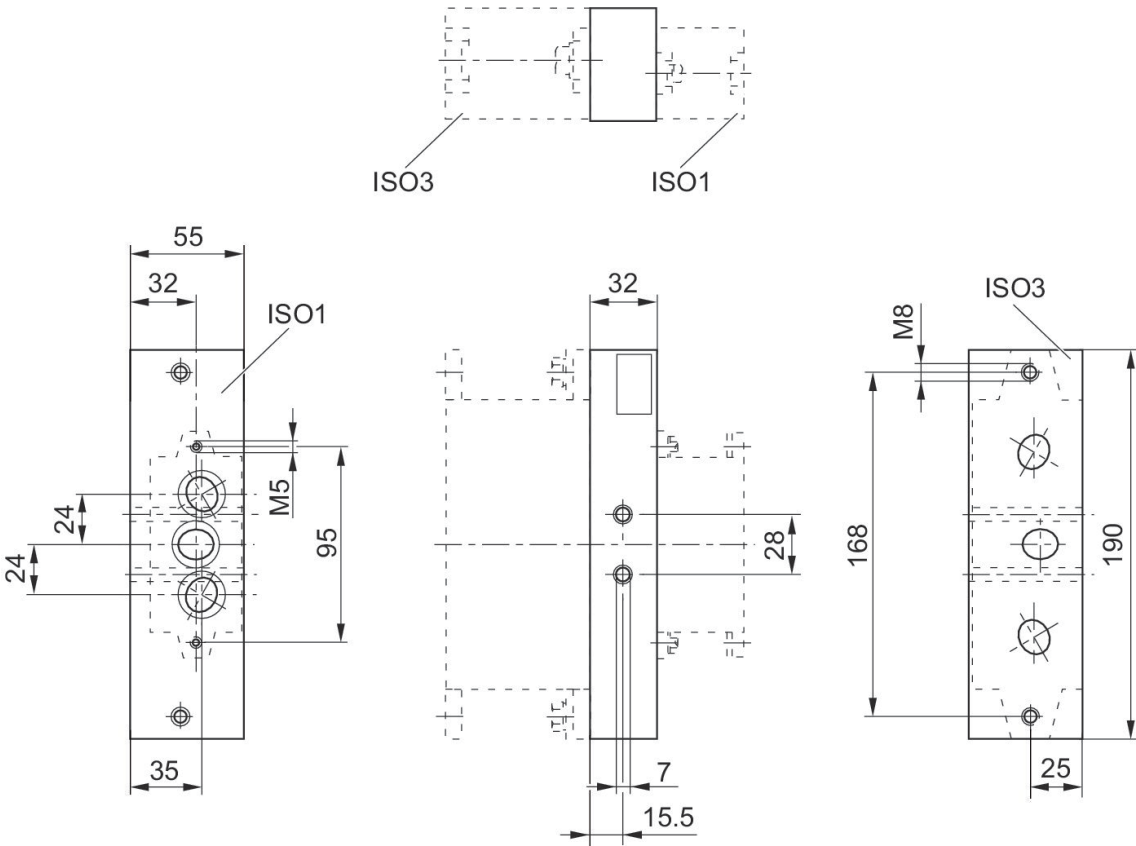


Transition plate, ISO 1 > ISO 3



| Frame size    | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|---------------|-------------------------------|-------------------------------|------------|
| ISO 1 > ISO 3 | -15                           | 70                            | 1825503166 |

Dimensions

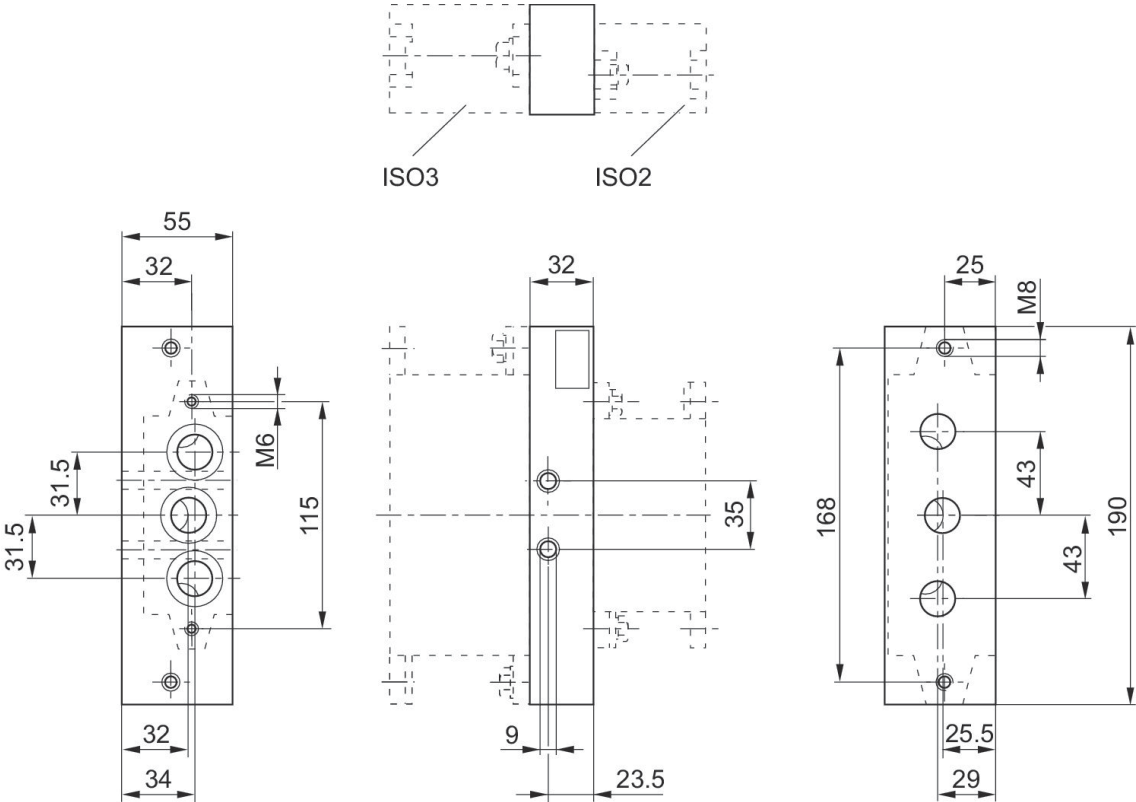


Transition plate, ISO 2 > ISO 3



| Frame size    | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|---------------|-------------------------------|-------------------------------|------------|
| ISO 2 > ISO 3 | -15                           | 70                            | 1825503165 |

Dimensions

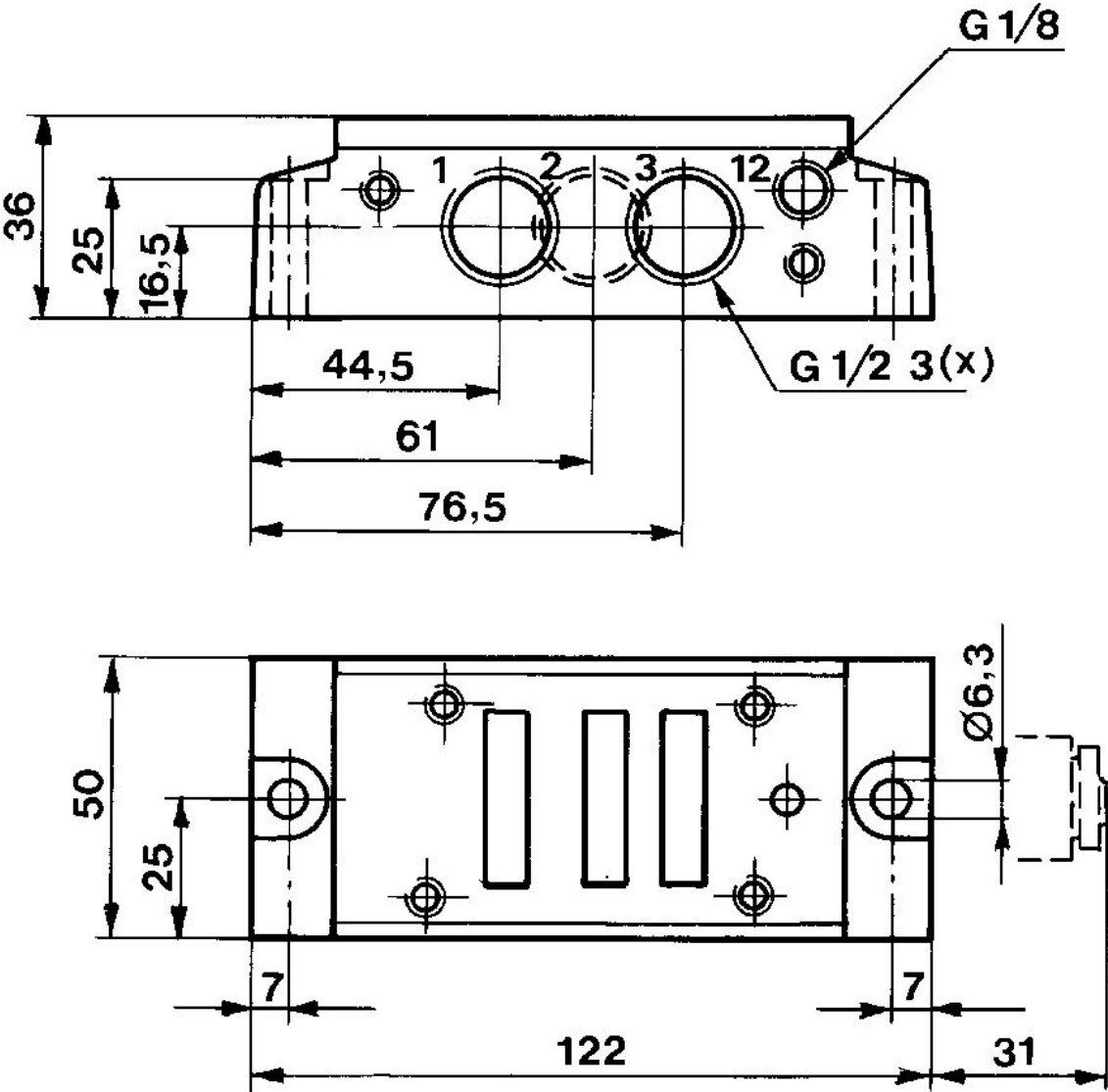


Single subbase, for soft-start valve



| Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| -20                           | 70                            | G 1/2                           | G 1/2                            | G 1/2                              | G 1/8                               | 1                              | 5834710000 |

Dimensions

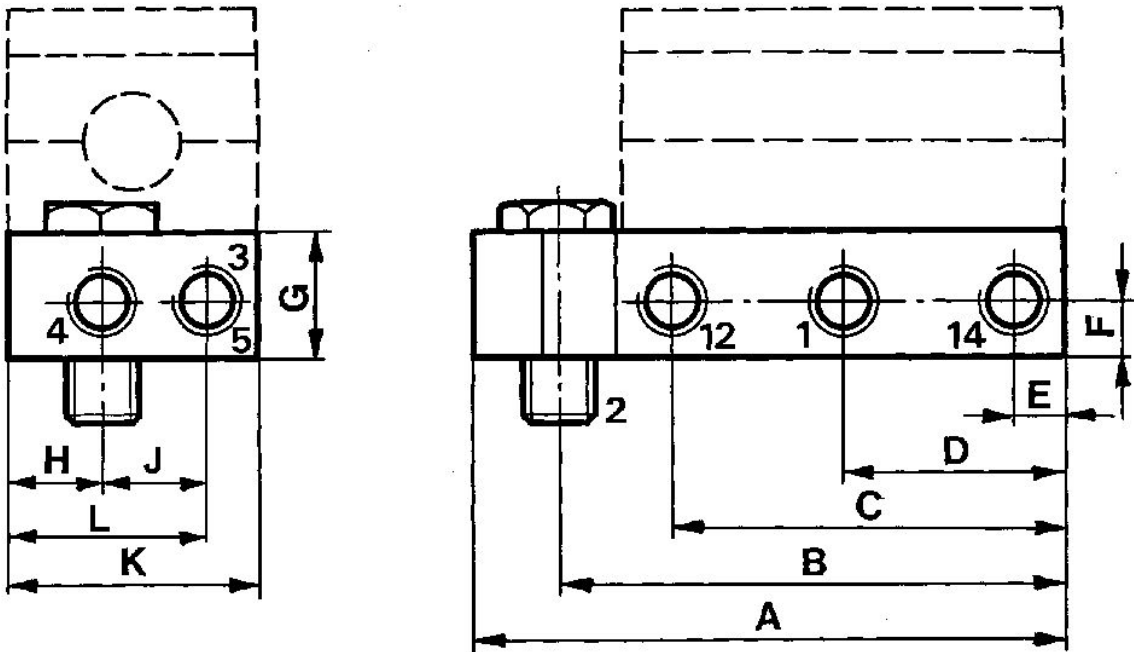


Subbase, for direct mounting of ISO valves on cylinders



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 5802690000 |

Dimensions



| Part No.   | 1, 4, 3, (5) | 2*           | 12, 14 | A    | B     | C    | D    | E    | F  |
|------------|--------------|--------------|--------|------|-------|------|------|------|----|
| 5801690000 | G 1/8        | G 1/8, G 1/4 | G 1/8  | 93.5 | 80    | 62   | 35   | 8    | 9  |
| 5802690000 | G 3/8        | G 3/8        | G 1/8  | 127  | 109.5 | 81.5 | 46.5 | 11.5 | 13 |

| G  | H  | J  | K  | L    |
|----|----|----|----|------|
| 20 | 15 | 17 | 40 | 32   |
| 32 | 29 | 26 | 60 | 46.5 |

\* Two different threaded banjo bolts are supplied with 5801690000 to be used with different cylinders.

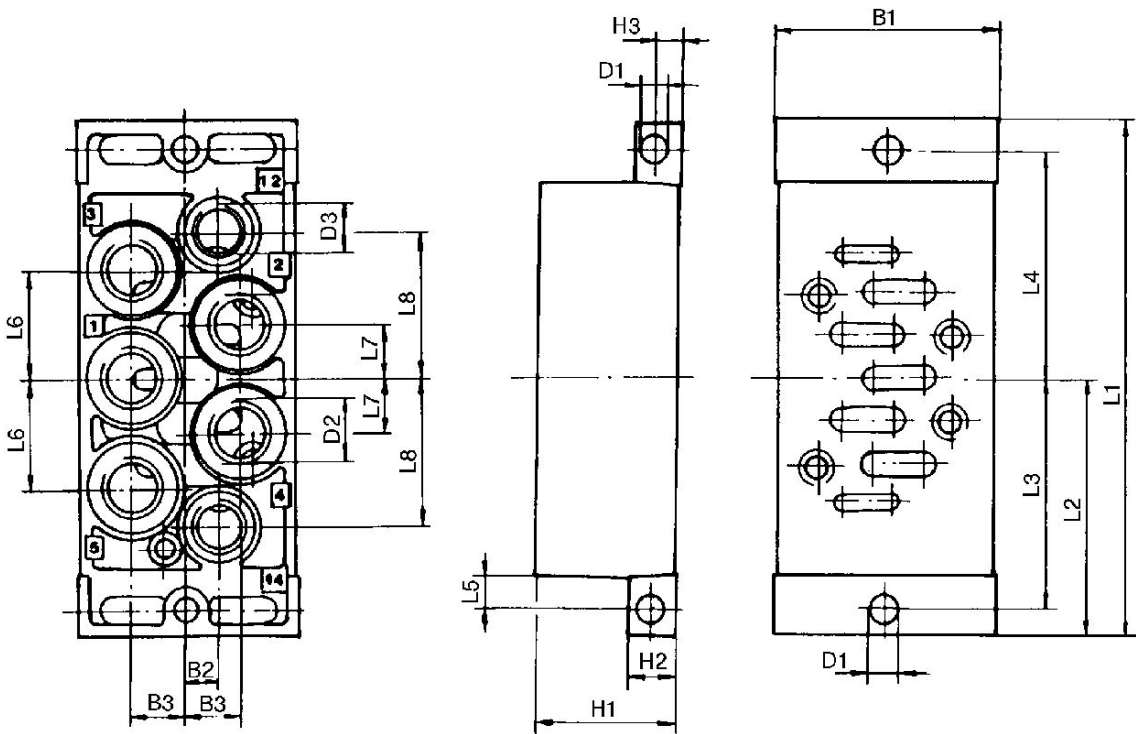


Single subbase, thread connections on the bottom



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 1      | -25                           | 70                            | G 1/4                           | G 1/4                            | G 1/4                              | G 1/8                               | 1                              | 1825503201 |
| ISO 2      | -25                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 1                              | 1825503202 |
| ISO 3      | -25                           | 70                            | G 1/2                           | G 1/2                            | G 1/2                              | G 1/8                               | 1                              | 1825503203 |

Dimensions

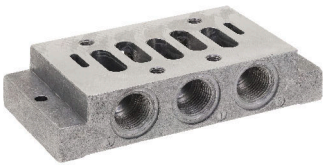


| Part No.   |       | B1 | B2 | B3   | D1  | D2 *) | D3 *) | H1 | H2 |
|------------|-------|----|----|------|-----|-------|-------|----|----|
| 1825503201 | ISO 1 | 46 | 7  | 11.5 | 5.5 | G 1/4 | G 1/8 | 30 | 10 |
| 1825503202 | ISO 2 | 56 | 8  | 13.5 | 6.6 | G 3/8 | G 1/8 | 35 | 13 |
| 1825503203 | ISO 3 | 77 | 10 | 17   | 6.6 | G 1/2 | G 1/8 | 32 | 18 |

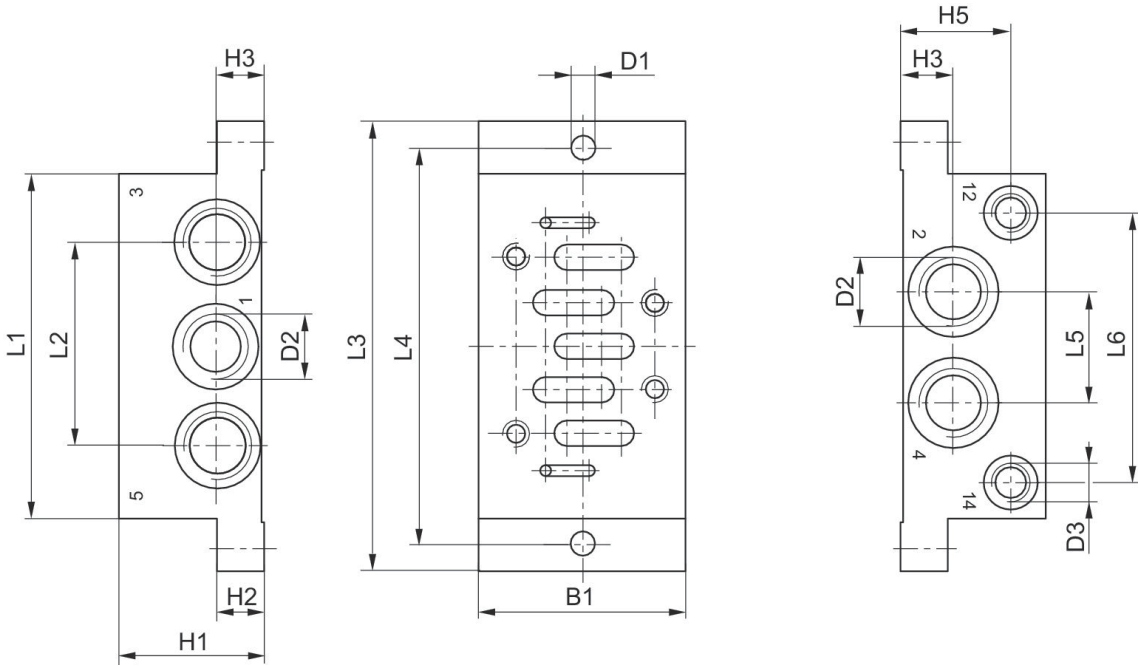
| Part No.   | H3  | L1  | L2   | L3 | L4 | L5  | L6 | L7   | L8   |
|------------|-----|-----|------|----|----|-----|----|------|------|
| 1825503201 | 5   | 110 | 55   | 49 | 49 | 7   | 23 | 11,5 | 31   |
| 1825503202 | 6,5 | 124 | 62   | 56 | 56 | 8,5 | 28 | 14   | 36,5 |
| 1825503203 | 9   | 149 | 74.5 | 68 | 68 | 8.5 | 34 | 17   | 45   |

\*) Ports

Single subbase, thread connections on the side



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -25                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 1                              | 1825503146 |

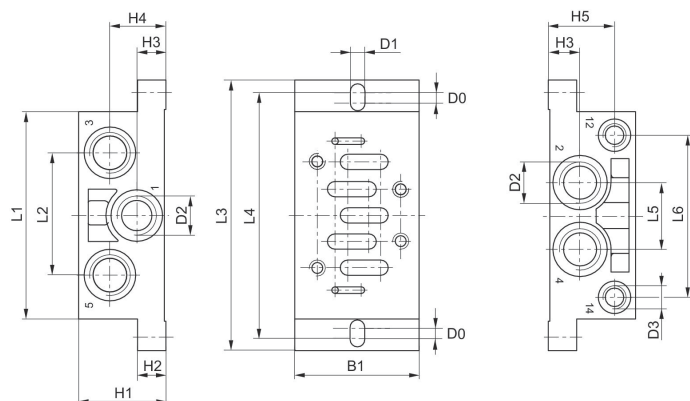


| Part No.   | ISO 3 | B1 | H1 | H2 | H3 | H5 | D1  | D2 *) | D3 *) |
|------------|-------|----|----|----|----|----|-----|-------|-------|
| 1825503149 | ISO 3 | 71 | 32 | 18 | 17 | 22 | 6.6 | G 1/2 | G 1/8 |

| Part No.   | L1  | L2 | L3  | L4  | L5 | L6 |
|------------|-----|----|-----|-----|----|----|
| 1825503149 | 119 | 68 | 149 | 136 | 32 | 90 |

\*) Ports

## Dimensions

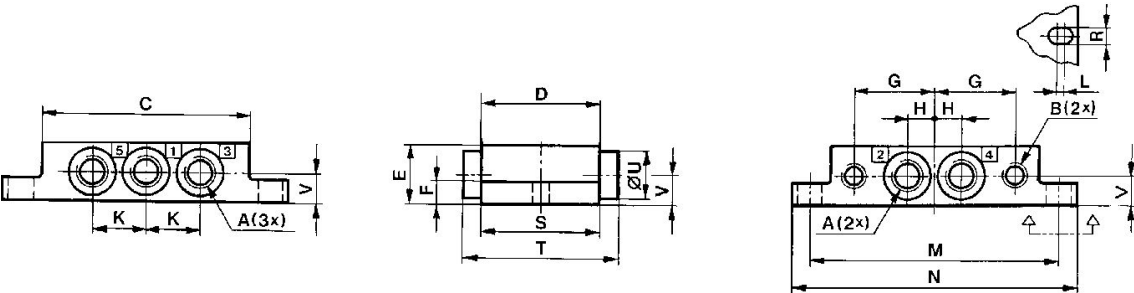


Single subbase, ports on side



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 1/4                           | G 1/4                            | G 1/4                              | G 1/8                               | 1                              | 5802710000 |
| ISO 2      | -20                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 1                              | 5802740000 |

Dimensions



| Part No.   | A *)  | B *)  | C   | D  | E  | F  | G    | H    | K  |
|------------|-------|-------|-----|----|----|----|------|------|----|
| 5801710000 | G 1/8 | G 1/8 | 70  | 40 | 20 | 8  | 26.5 | 9    | 18 |
| 5801740000 | G 1/4 | G 1/8 | 70  | 40 | 23 | 11 | 31.5 | 11.5 | 23 |
| 5802710000 | G 1/4 | G 1/8 | 86  | 52 | 23 | 8  | 34   | 12   | 24 |
| 5802740000 | G 3/8 | G 1/8 | 86  | 50 | 30 | 13 | 39   | 15   | 30 |
| 5803710000 | G 3/8 | G 1/8 | 118 | 65 | 32 | 10 | 45   | 16   | 32 |
| 5804710000 | G 1/2 | G 1/8 | 142 | 76 | 37 | 10 | 55.5 | 20   | 40 |

| L | M   | N   | R   | S  | T  | U  | V    |
|---|-----|-----|-----|----|----|----|------|
| 2 | 84  | 96  | 5.4 | 40 | –  | –  | 10   |
| 2 | 96  | 110 | 5.4 | 46 | 64 | 21 | 12   |
| 2 | 102 | 115 | 6.4 | 52 | –  | –  | 11.5 |
| 2 | 111 | 124 | 6.4 | 56 | 80 | 27 | 16   |
| 2 | 138 | 153 | 8.4 | 65 | –  | –  | 17.5 |
| 2 | 175 | 190 | 8.4 | 76 | –  | –  | 21   |

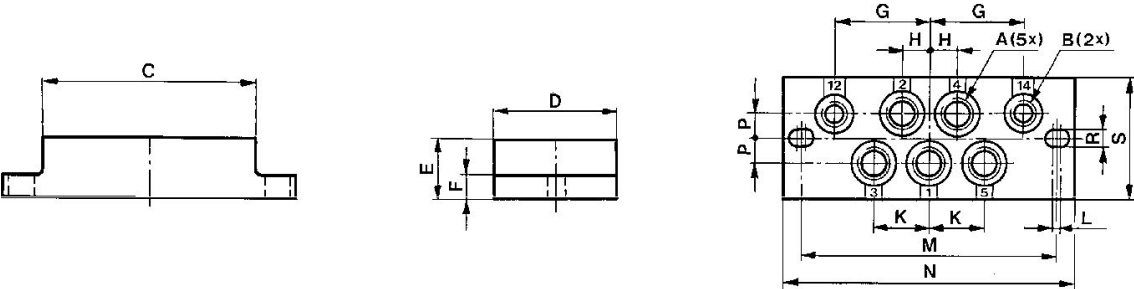
\*) Ports

Single subbase, ports on bottom



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 1/4                           | G 1/4                            | G 1/4                              | G 1/8                               | 1                              | 5802700000 |

Dimensions



| Part No.   | A *) | B *) | C   | D  | E  | F  | G    | H  | K  |
|------------|------|------|-----|----|----|----|------|----|----|
| 5801700000 | G1/8 | G1/8 | 70  | 40 | 20 | 8  | 26.5 | 9  | 18 |
| 5801800000 | Ø 6  | Ø 4  | 70  | 40 | 20 | 8  | 26.5 | 9  | 18 |
| 5802700000 | G1/4 | G1/8 | 86  | 52 | 22 | 8  | 34   | 12 | 24 |
| 5802800000 | Ø 8  | Ø 6  | 86  | 52 | 22 | 8  | 34   | 12 | 24 |
| 5803700000 | G3/8 | G1/8 | 118 | 65 | 32 | 10 | 45   | 16 | 32 |
| 5804700000 | G1/2 | G1/8 | 142 | 76 | 37 | 10 | 55.5 | 20 | 40 |

| L | M   | N   | P  | R   | S  |
|---|-----|-----|----|-----|----|
| 2 | 84  | 96  | 8  | 5.4 | 40 |
| 2 | 84  | 96  | 8  | 5.4 | 40 |
| 2 | 102 | 115 | 10 | 6.4 | 52 |
| 2 | 102 | 115 | 10 | 6.4 | 52 |
| 2 | 138 | 153 | 11 | 8.4 | 65 |
| 2 | 175 | 190 | 13 | 8.4 | 76 |

\*) Ports

Intermediate plate for separate air supply, ports 2 and 4 on bottom



| Type                                       | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Part No.   |
|--------------------------------------------|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------|
| Intermediate plate for separate air supply | ISO 2      | -20                           | 70                            | G 1/4                           | G 1/4                            | G 1/4                              | G 1/8                               | 5802670000 |
| Intermediate plate for separate air supply | ISO 2      | -20                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 5802680000 |

| Max. number of valve positions | Part No.   |
|--------------------------------|------------|
| 1                              | 5802670000 |
| 1                              | 5802680000 |

| Part No.   | ISO   | A     | B     | C     | D     | E  | F    | G    | H    |
|------------|-------|-------|-------|-------|-------|----|------|------|------|
| 5801670000 | ISO 1 | G 1/8 | G 1/4 | G 1/4 | G 1/8 | 22 | 28.5 | 9.5  | 29.5 |
| 5801680000 | ISO 1 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 40   | 12.5 | 26.5 |
| 5802670000 | ISO 2 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 39   | 13.5 | 38   |
| 5802680000 | ISO 2 | G 3/8 | G 1/2 | G 1/2 | G 1/8 | 36 | 52   | 17   | 33   |

| Part No.   | J    | K   | L  | M  | N  | P  | Q  | R    | V   |
|------------|------|-----|----|----|----|----|----|------|-----|
| 5801670000 | 14.5 | 100 | 25 | 27 | 43 | 41 | 14 | 27.5 | 72  |
| 5801680000 | 20   | 122 | 30 | 34 | 43 | 49 | 15 | 34   | 94  |
| 5802670000 | 20   | 122 | 28 | 34 | 56 | 49 | 15 | 34   | 94  |
| 5802680000 | 22   | 156 | 37 | 39 | 56 | 59 | 20 | 40   | 118 |

| Part No.   | X   | Z  | AA |
|------------|-----|----|----|
| 5801670000 | 5.4 | 7  | 8  |
| 5801680000 | 6.4 | 8  | 10 |
| 5802670000 | 6.4 | 8  | 18 |
| 5802680000 | 8.4 | 10 | 33 |

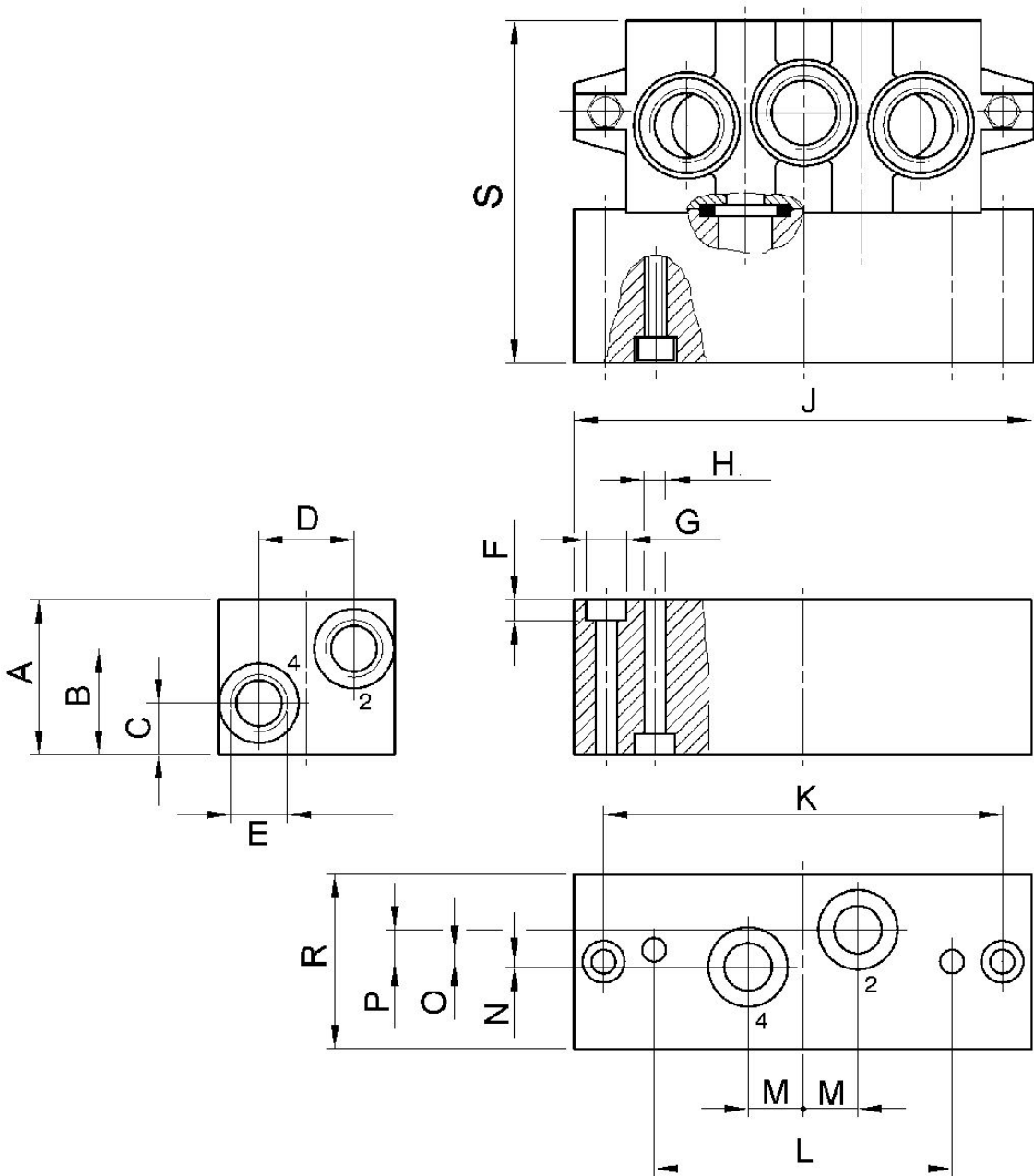


Angle subplate



| Compressed air connection output | Connection direction | Part No.   |
|----------------------------------|----------------------|------------|
| G 3/8                            | On the side          | 1825503204 |

Dimensions



| Part No.   | A  | B  | C  | D  | E     | F   | G    | H     | J   |
|------------|----|----|----|----|-------|-----|------|-------|-----|
| 1825503170 | 37 | 25 | 12 | 22 | G 1/4 | 5,7 | Ø 10 | Ø 5,5 | 110 |
| 1825503204 | 40 | 26 | 14 | 29 | G 3/8 | 6,8 | Ø 11 | Ø 6,6 | 135 |
| 1825503205 | 45 | 29 | 17 | 36 | G 1/2 | 9   | Ø 15 | Ø 9   | 190 |

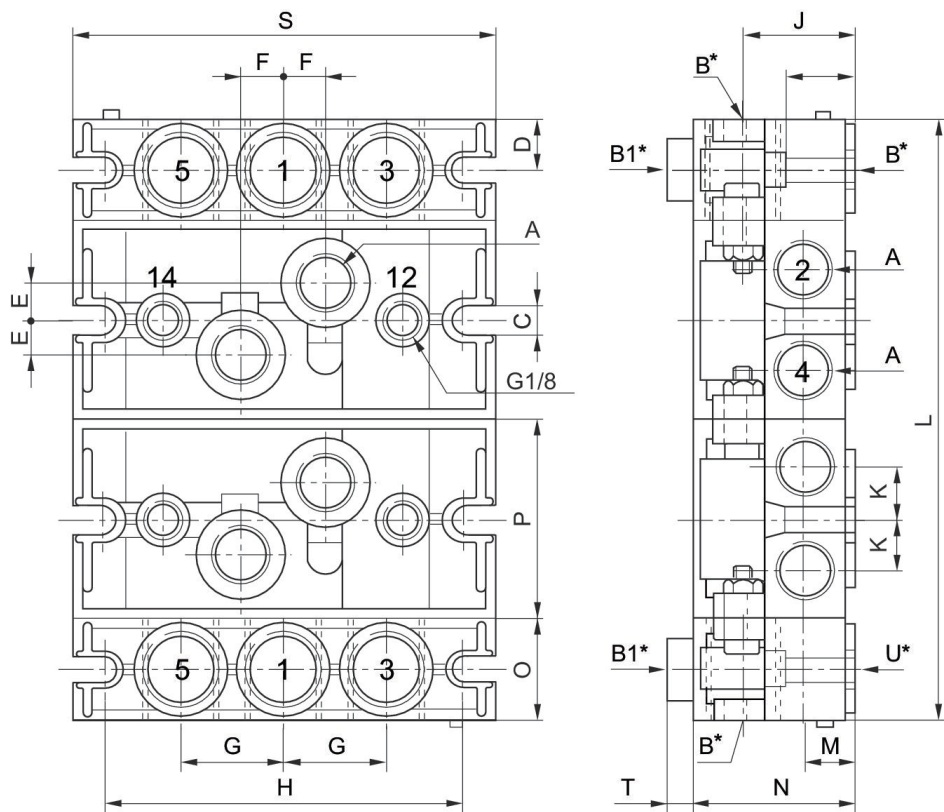
| K   | L   | M  | N   | O | P   | R  | S  |
|-----|-----|----|-----|---|-----|----|----|
| 95  | 71  | 13 | 1,5 | 3 | 7,5 | 42 | 81 |
| 115 | 86  | 15 | 5   | 3 | 6   | 55 | 85 |
| 168 | 130 | 19 | 6   | 3 | 8   | 70 | 99 |

Base plate, Ports 2 and 4 side or bottom



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection output | Compressed air connection, exhaust | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|----------------------------------|------------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 3/8                           | G 3/8                            | G 3/8                              | G 1/8                               | 1                              | 5802500000 |

Dimensions



| Part No.   |       | A         | B         | B1        | C   | D    | E   | F  | G  |
|------------|-------|-----------|-----------|-----------|-----|------|-----|----|----|
| 5801500000 | ISO 1 | 2 x G 1/4 | 3 x G 3/8 | 3 x G 1/4 | 5.5 | 11   | 5.5 | 9  | 22 |
| 5802500000 | ISO 2 | 2 x G 3/8 | 3 x G 1/2 | 3 x G 3/8 | 6.5 | 14.5 | 10  | 12 | 29 |

| Part No.   | H   | J  | K  | L           | M  | N    | O  | P    | R  |
|------------|-----|----|----|-------------|----|------|----|------|----|
| 5801500000 | 92  | 24 | 12 | n x 43 + 44 | 12 | 36   | 22 | 45.7 | 17 |
| 5802500000 | 102 | 32 | 15 | n x 56 + 58 | 15 | 45.7 | 29 | 56   | 20 |

| Part No.   | S   | T |
|------------|-----|---|
| 5801500000 | 106 | 8 |
| 5802500000 | 120 | 7 |

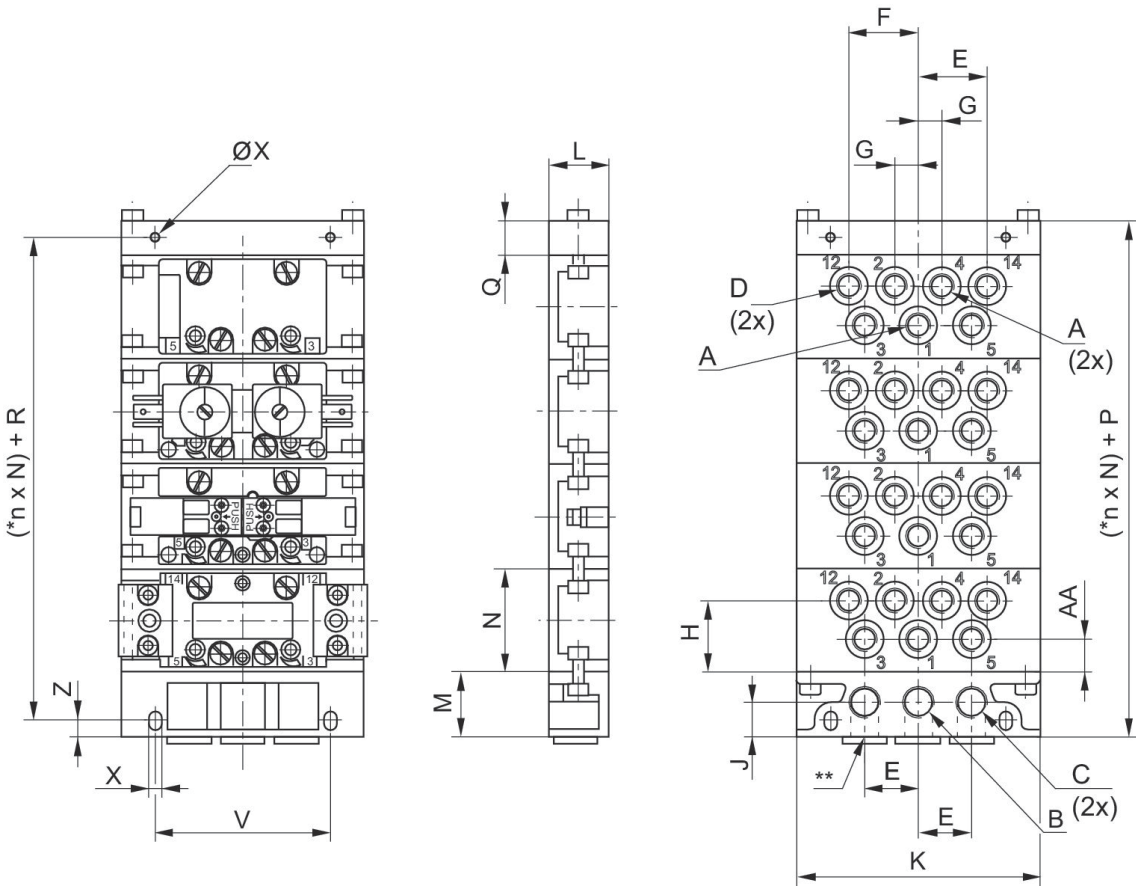
n = number of subbases

Base plate, ports 2 and 4 on bottom



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection output | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 1/4                            | G 1/8                               | 1                              | 5802720000 |
| ISO 2      | -20                           | 70                            | G 3/8                            | G 1/8                               | 1                              | 5802750000 |

Dimensions



\* n = Number of subbases. \*\* Alternative port openings, closed with plugs

| Part No.   | * |       | A     | B     | C     | D     | E  | F    | G    |
|------------|---|-------|-------|-------|-------|-------|----|------|------|
| 5801720000 | a | ISO 1 | G 1/8 | G 1/4 | G 1/4 | G 1/8 | 22 | 28.5 | 9.5  |
| 5801750000 | b | ISO 1 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 40   | 12.5 |
| 5802720000 | b | ISO 2 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 39   | 13.5 |
| 5802750000 | c | ISO 2 | G 3/8 | G 1/2 | G 1/2 | G 1/8 | 36 | 52   | 17   |
| 5803750000 | d | ISO 3 | G 1/2 | G 3/4 | G 3/4 | G 1/8 | 44 | 62   | 20.5 |

| H    | J    | K   | L  | M  | N  | P  | Q  | R    | V   |
|------|------|-----|----|----|----|----|----|------|-----|
| 29.5 | 14.5 | 100 | 25 | 27 | 43 | 41 | 14 | 27.5 | 72  |
| 26.5 | 20   | 122 | 30 | 34 | 43 | 49 | 15 | 34   | 94  |
| 38   | 20   | 122 | 30 | 34 | 56 | 49 | 15 | 34   | 94  |
| 33   | 22   | 156 | 37 | 39 | 56 | 59 | 20 | 40   | 118 |
| 42   | 24   | 190 | 40 | 44 | 71 | 64 | 20 | 45   | 146 |

| X   | Z  | AA |
|-----|----|----|
| 5.4 | 7  | 8  |
| 6.4 | 8  | 10 |
| 6.4 | 8  | 18 |
| 8.4 | 10 | 13 |
| 8.4 | 10 | —  |

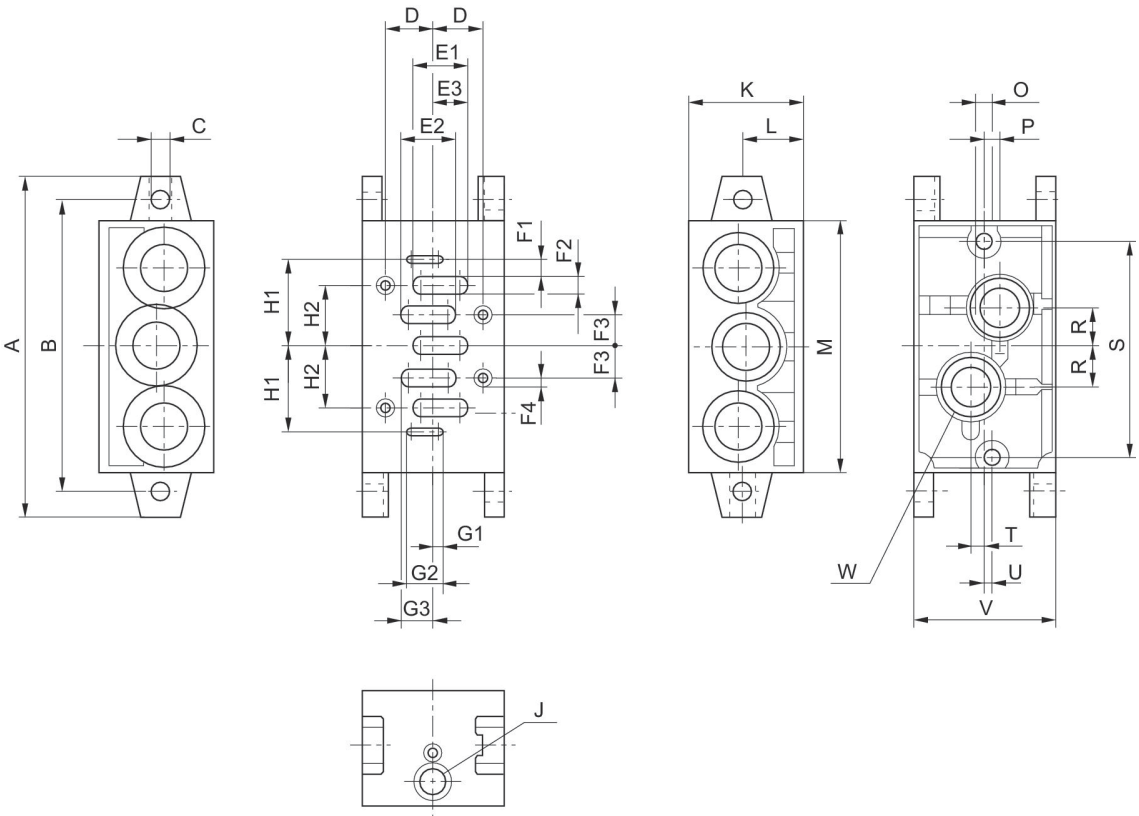
\* Intermediate plates designated with the same letters (a-d) can be mounted together without a transition plate.

Base plate, ports 2 and 4 on bottom



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection output | Compressed air connection pilot air | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|--------------------------------|------------|
| ISO 2      | -25                           | 70                            | G 3/8                            | G 1/8                               | 1                              | 1825503147 |

Dimensions



| Part No.   | A   | B   | C   | D  | E1   | E2   | E3    | F1 | F2  |
|------------|-----|-----|-----|----|------|------|-------|----|-----|
| 1825503144 | 110 | 95  | 5,5 | 14 | 16,5 | 16,5 | 11,25 | 3  | 4,5 |
| 1825503147 | 135 | 115 | 6,6 | 19 | 22   | 22   | 13,5  | 3  | 7   |
| 1825503150 | 190 | 168 | 9   | 24 | 29   | 29   | 16,5  | 4  | 10  |
| 8985041422 | 215 | 184 | 11  | —  | —    | —    | —     | —  | —   |

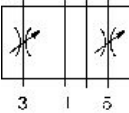
| F3 | F4 | G1 | G2   | G3    | H1   | H2 | J     | K  | L  |
|----|----|----|------|-------|------|----|-------|----|----|
| 9  | M5 | 3  | 13,5 | 11,25 | 26,5 | 18 | G 1/8 | 44 | 22 |
| 12 | M6 | 3  | 14,5 | 13,5  | 34   | 24 | G 1/8 | 45 | 24 |
| 16 | M8 | 4  | 17,5 | 16,5  | 45   | 32 | G 1/8 | 54 | 25 |
| —  | —  | —  | —    | —     | —    | —  | —     | 55 | 30 |

| M   | O  | P   | R  | S   | T   | U | V  | W     |
|-----|----|-----|----|-----|-----|---|----|-------|
| 85  | M5 | 7,5 | 13 | 71  | 1,5 | 3 | 43 | G 1/4 |
| 100 | M6 | 6   | 15 | 86  | 5   | 3 | 56 | G 3/8 |
| 140 | M8 | 8   | 19 | 130 | 6   | 3 | 71 | G 1/2 |
| 142 | M8 | 8   | 26 | —   | 9   | 3 | 82 | G 3/4 |

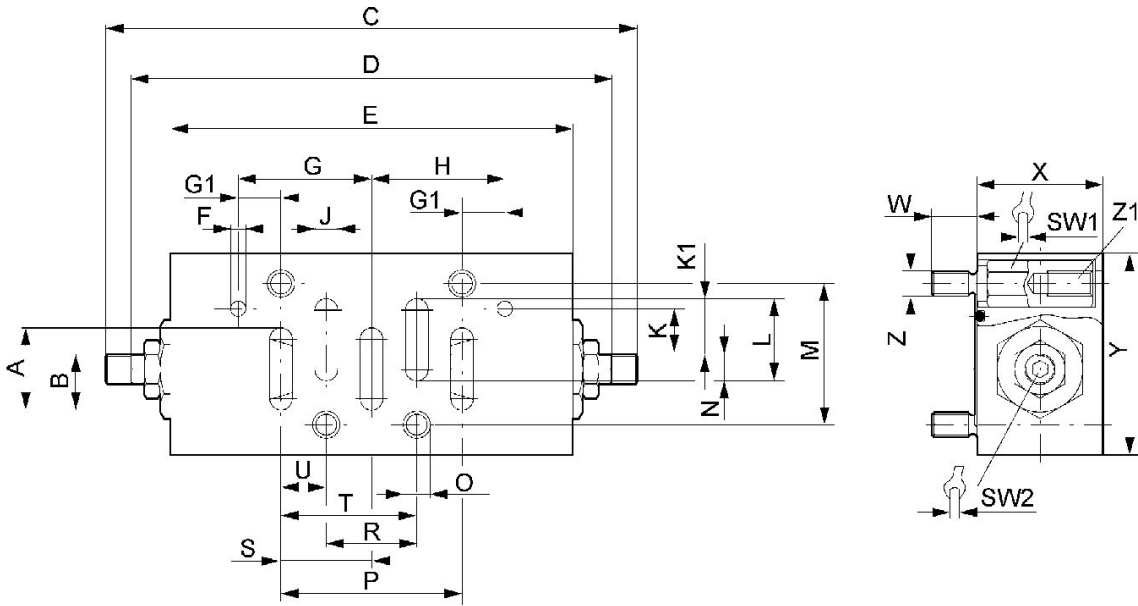


Throttle plate



|                                                                                  | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|----------------------------------------------------------------------------------|------------|-------------------------------|-------------------------------|------------|
|  | ISO 2      | 0                             | 80                            | 0821201024 |

Dimensions



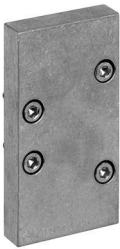
| Part No.   | A    | B    | C     | D     | E   | F | G    | G1  | H    |
|------------|------|------|-------|-------|-----|---|------|-----|------|
| 0821201023 | 16.3 | 11,1 | 105.6 | 95.6  | 80  | 3 | 26,5 | 8.5 | 26.5 |
| 0821201024 | 22   | 13,5 | 128.6 | 118.6 | 102 | 3 | 34   | 10  | 34   |
| 0821201025 | 29   | 16,5 | 189.9 | 169.9 | 140 | 4 | 45   | 13  | 45   |

| Part No.   | J   | K    | K1   | L    | M  | N    | O   | P  | R  |
|------------|-----|------|------|------|----|------|-----|----|----|
| 0821201023 | 4.5 | 9    | 10.8 | 16.3 | 28 | 5.5  | 5.2 | 36 | 18 |
| 0821201024 | 7   | 10   | 13.5 | 22   | 38 | 8.5  | 6.2 | 48 | 24 |
| 0821201025 | 10  | 11.5 | 16.5 | 29   | 48 | 12.5 | 8.2 | 64 | 32 |

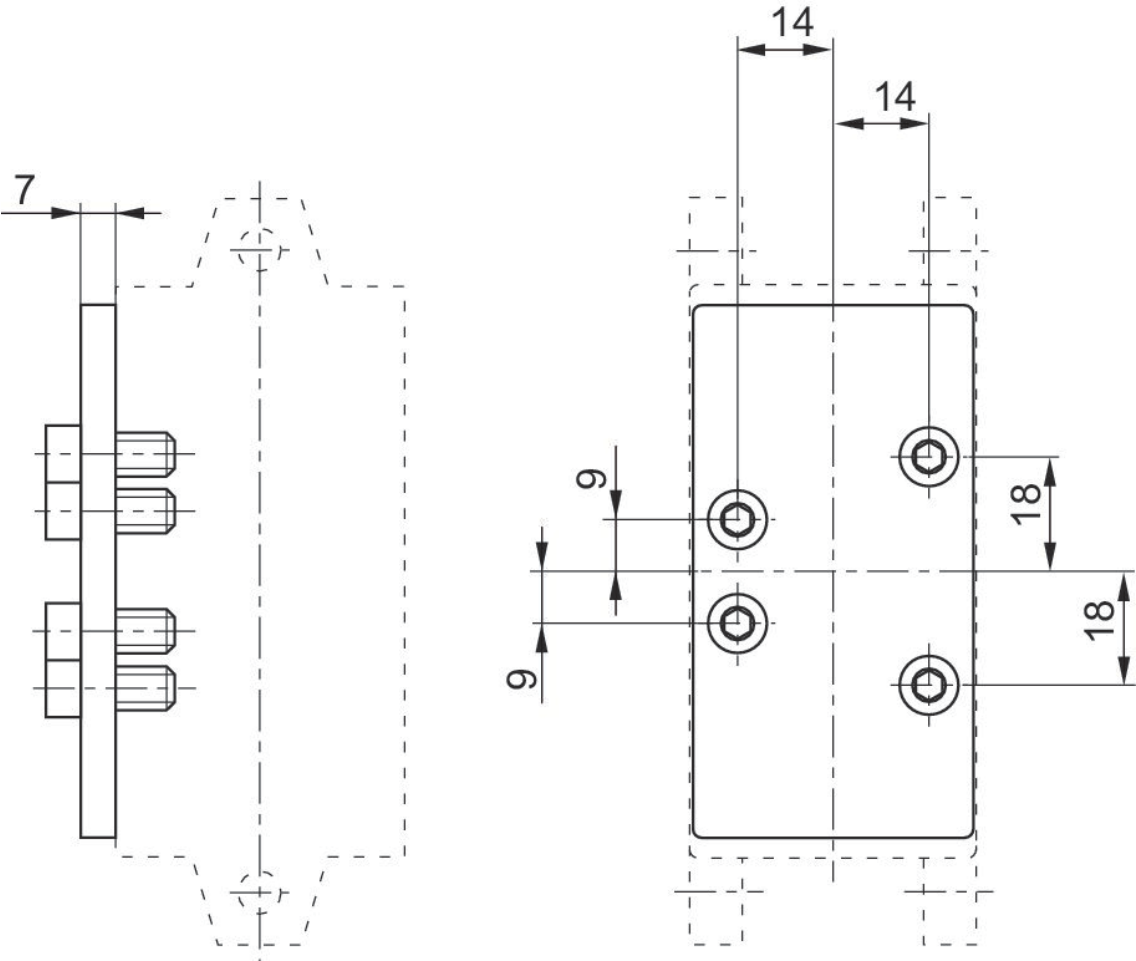
| Part No.   | S  | SW1 | SW2 | T  | U  | W  | X  | Y  | Z  |
|------------|----|-----|-----|----|----|----|----|----|----|
| 0821201023 | 18 | 8   | 3   | 27 | 9  | 9  | 25 | 40 | M5 |
| 0821201024 | 24 | 9   | 3   | 36 | 12 | 9  | 25 | 55 | M6 |
| 0821201025 | 32 | 11  | 4   | 48 | 16 | 14 | 35 | 70 | M8 |

| Part No.   | Weight | Z1    |
|------------|--------|-------|
| 0821201023 |        | M5-9  |
| 0821201024 |        | M6-10 |
| 0821201025 |        | M8-14 |

Blanking plate



| Type           | Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|----------------|------------|-------------------------------|-------------------------------|------------|
| Blanking plate | ISO 2      | 0                             | 80                            | 1825503176 |
| Gasket ISO 2   |            | 0                             | 80                            | 1821A15032 |

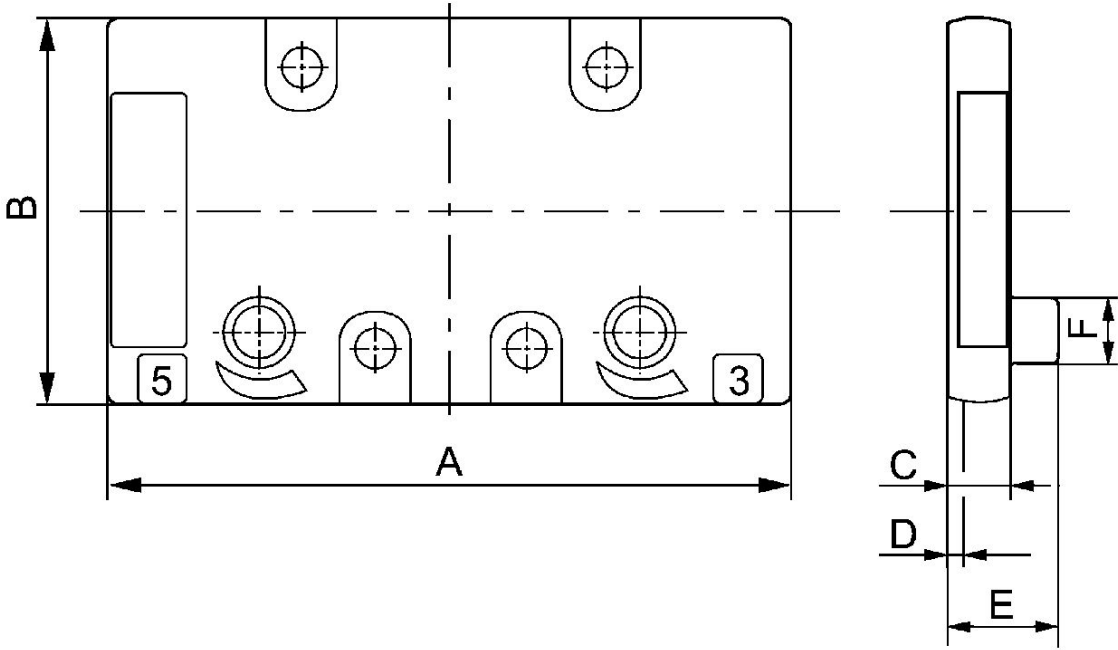


Blanking plate



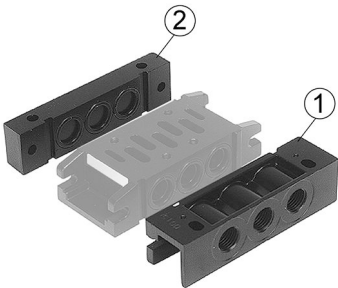
| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Max. number of valve positions | Part No.   |
|------------|-------------------------------|-------------------------------|--------------------------------|------------|
| ISO 2      | -20                           | 70                            | 1                              | 5802870000 |

Dimensions



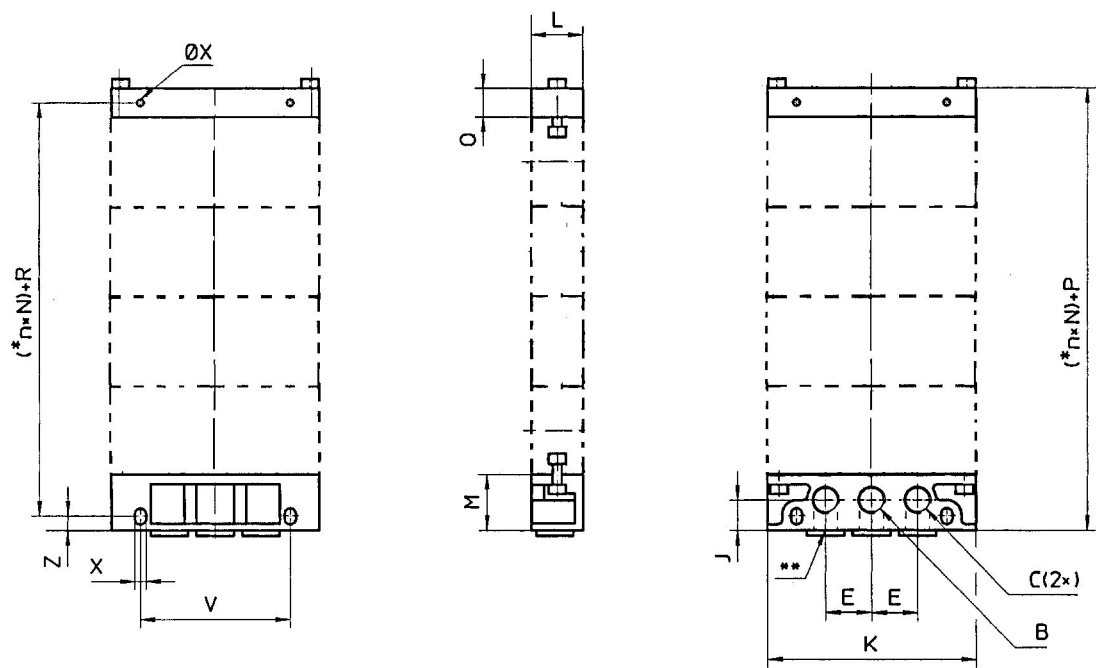
| Part No.   | A     | B    | C  | D | E  | F  |
|------------|-------|------|----|---|----|----|
| 5801870000 | 69    | 39   | 7  | 2 | –  | –  |
| 5802870000 | 86.4  | 49.4 | 9  | 2 | –  | –  |
| 5803870000 | 116.5 | 63.5 | 10 | 2 | 15 | 12 |
| 5804870000 | 142.5 | 74.5 | 10 | 2 | 20 | 15 |

End plate left, End plate right



| Frame size   | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|--------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 1, ISO 2 | -20                           | 70                            | G 3/8                           | G 3/8                              | 5802850000 |
| ISO 1, ISO 2 | -20                           | 70                            |                                 |                                    | 5802860000 |

Dimensions

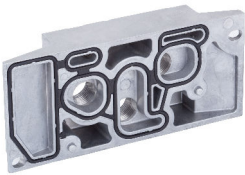


\* n = Number of subbases. \*\* Alternative port openings, closed with plugs

| Part No.   |               | B     | C     | E  | J    | K   | L  | M  | P  |
|------------|---------------|-------|-------|----|------|-----|----|----|----|
| 5801850000 | ISO 1         | G 1/4 | G 1/4 | 22 | 14.5 | 100 | 25 | 27 | 41 |
| 5801860000 | ISO 1         | -     | -     | -  | -    | 100 | 25 | -  | 41 |
| 5802850000 | ISO 1 , ISO 2 | G 3/8 | G 3/8 | 27 | 20   | 122 | 30 | 34 | 49 |
| 5802860000 | ISO 1 , ISO 2 | -     | -     | -  | -    | 122 | 29 | -  | 49 |
| 5803850000 | ISO 2 , ISO 3 | G 1/2 | G 1/2 | 36 | 22   | 156 | 37 | 39 | 59 |
| 5803860000 | ISO 2 , ISO 3 | -     | -     | -  | -    | 156 | 37 | -  | 59 |
| 5804850000 | ISO 3 , ISO 4 | G 3/4 | G 3/4 | 44 | 24   | 190 | 42 | 44 | 64 |
| 5804860000 | ISO 3 , ISO 4 | -     | -     | -  | -    | 190 | 42 | -  | 64 |

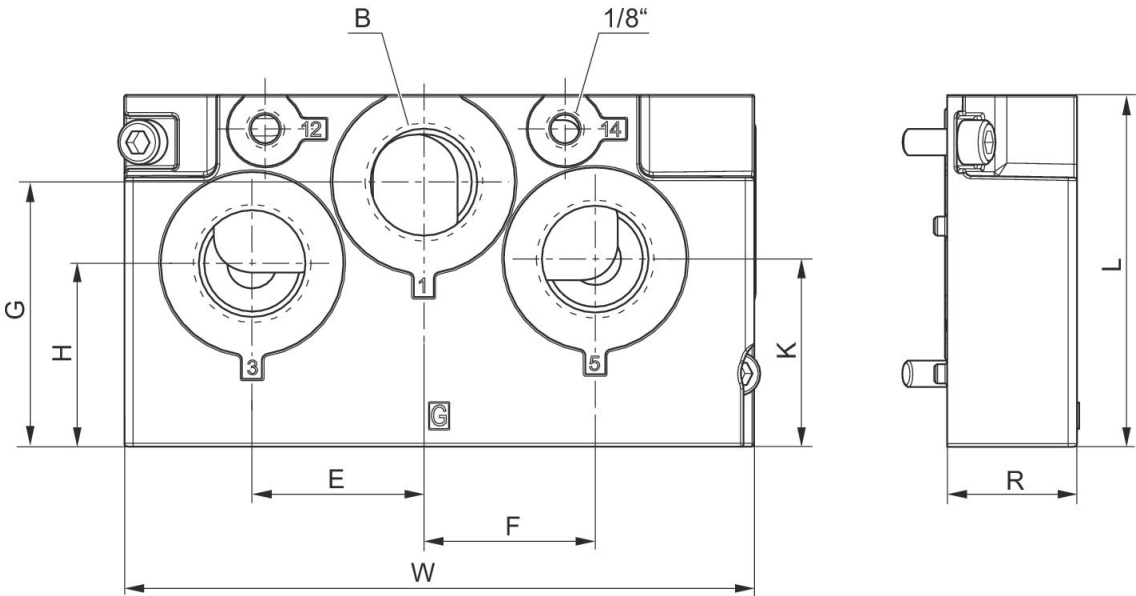
| Q  | R    | V   | X   | Z  | Weight |
|----|------|-----|-----|----|--------|
| -  | 27.5 | 72  | 5.4 | 7  |        |
| 14 | 27.5 | 72  | 5.4 | -  |        |
| -  | 34   | 94  | 6.4 | 8  |        |
| 15 | 34   | 94  | 6.4 | -  |        |
| -  | 40   | 118 | 8.4 | 10 |        |
| 20 | 40   | 118 | 8.4 | -  |        |
| -  | 45   | 146 | 8.4 | 10 |        |
| 20 | 45   | 146 | 8.4 | -  |        |

End plate right



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 1      | -15                           | 70                            | G 3/8                           | G 3/8                              | R432037651 |
| ISO 2      | -15                           | 70                            | G 3/4                           | G 3/4                              | R432037653 |
| ISO 3      | -15                           | 70                            | G 1                             | G 1                                | R432037655 |

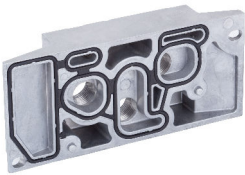
Dimensions



| Part No.   | B   | E  | F  | G    | H    | J  | K    | R    | L    |
|------------|-----|----|----|------|------|----|------|------|------|
| R432037651 | 3/8 | 23 | 18 | 15.5 | 30   | 20 | 37.5 | 25   | 60.6 |
| R432037653 | 3/4 | 39 | 39 | 60   | 41.5 | 38 | 42.5 | 29.5 | 79.7 |
| R432037655 | 1   | 49 | 49 | 76   | 53   | 32 | 53   | 36   | 100  |

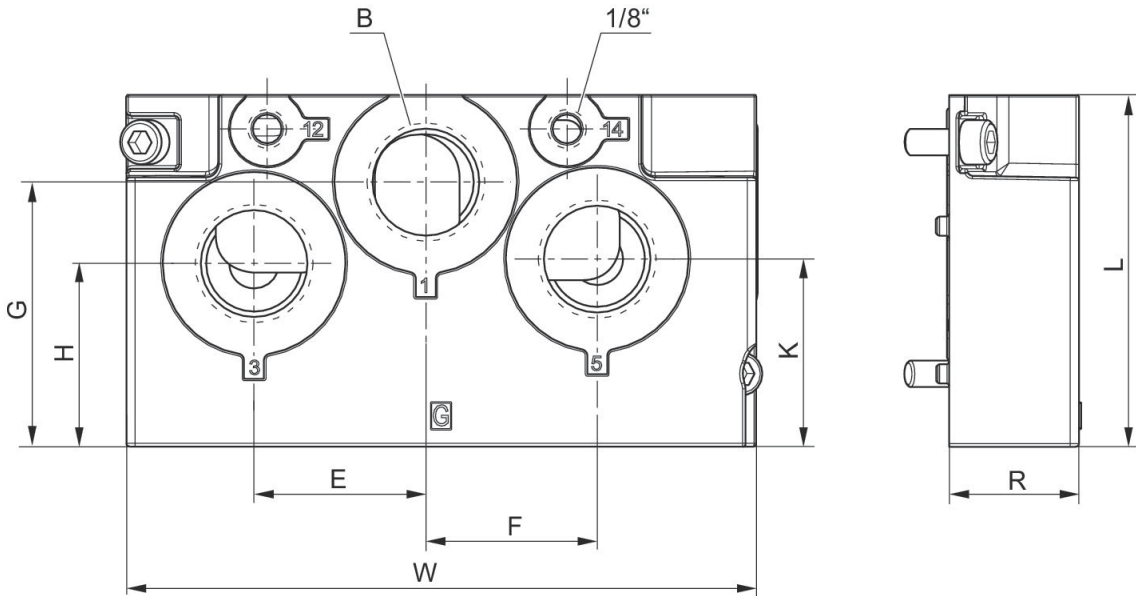
| W   |
|-----|
| 135 |
| 143 |
| 164 |

End plate right, Inch version



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 1      | -15                           | 70                            | 3/8 NPT                         | 3/8 NPT                            | R432037652 |
| ISO 2      | -15                           | 70                            | 3/4 NPT                         | 3/4 NPT                            | R432037654 |
| ISO 3      | -15                           | 70                            | 1 NPT                           | 1 NPT                              | R432037656 |

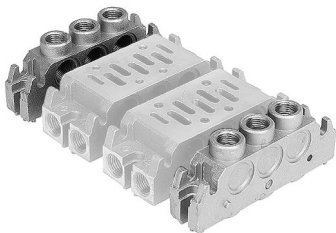
Dimensions



| Part No.   | E  | F  | G    | H    | J  | K    | W   |
|------------|----|----|------|------|----|------|-----|
| R432037652 | 23 | 18 | 15.5 | 30   | 20 | 37.5 | 135 |
| R432037654 | 39 | 39 | 60   | 41.5 | 38 | 42.5 | 143 |
| R432037656 | 49 | 49 | 76   | 53   | 32 | 53   | 53  |

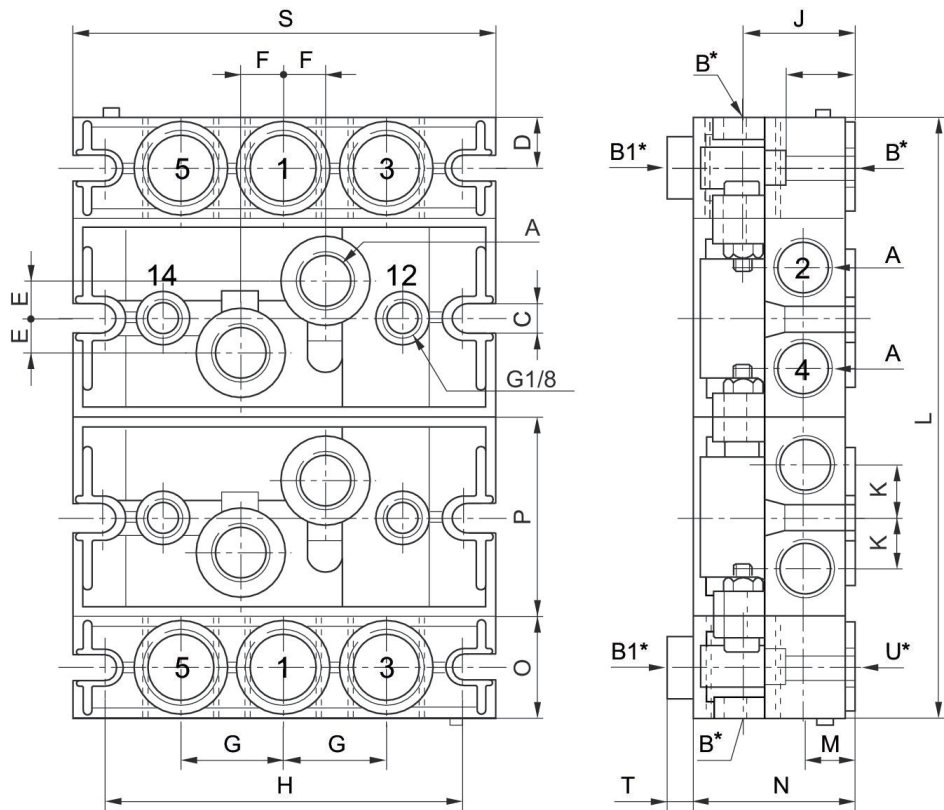


End plate left, End plate right



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 2      | -20                           | 70                            | G 1/2                           | G 1/2                              | 5802510000 |

Dimensions



| Part No.   |       | A         | B*        | B1*       | C   | D    | E   | F  | G  |
|------------|-------|-----------|-----------|-----------|-----|------|-----|----|----|
| 5801510000 | ISO 1 | 2 x G 1/4 | 3 x G 3/8 | 3 x G 1/4 | 5.5 | 11   | 5.5 | 9  | 22 |
| 5802510000 | ISO 2 | 2 x G 3/8 | 3 x G 1/2 | 3 x G 1/4 | 6.5 | 14.5 | 10  | 12 | 29 |

| Part No.   | H   | J  | K  | L           | M  | N  | O  | P    | R  |
|------------|-----|----|----|-------------|----|----|----|------|----|
| 5801510000 | 92  | 24 | 12 | n x 43 + 44 | 12 | 36 | 22 | 45.7 | 17 |
| 5802510000 | 102 | 32 | 15 | n x 56 + 58 | 15 | 43 | 29 | 56   | 20 |

| Part No.   | S   | T | U*        |
|------------|-----|---|-----------|
| 5801510000 | 106 | 8 | 3 x G 3/8 |
| 5802510000 | 120 | 7 | 3 x G 1/2 |

n = number of subbases

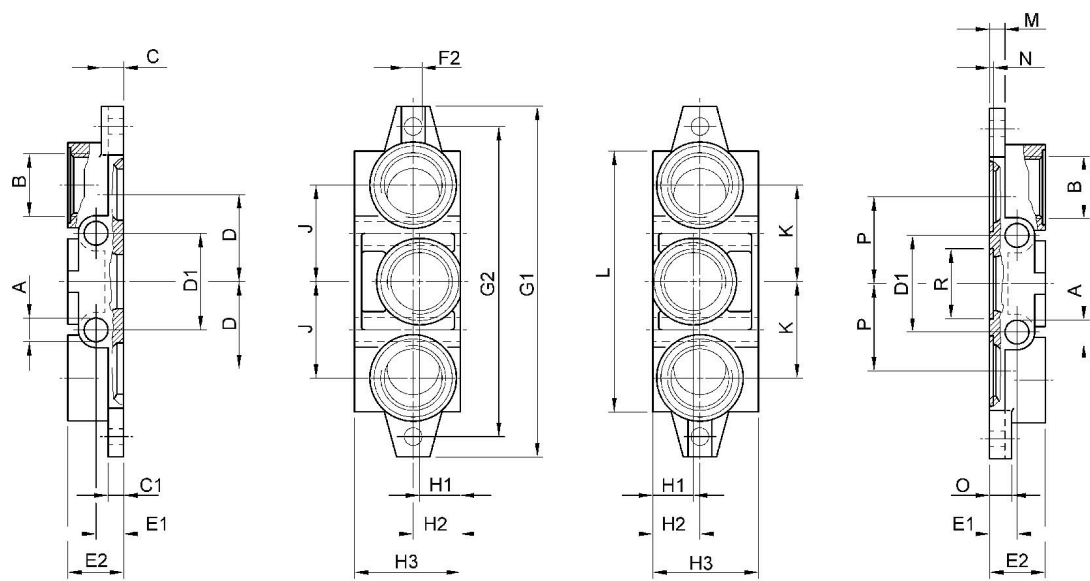
\*Dimensions B, B1, and U are prepared with threaded connections but must be drilled through as required for the desired porting configuration.

End plate left, End plate right



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 2      | -15                           | 70                            | G 1/2                           | G 1/2                              | 1825503148 |

Dimensions



| Part No.   | A  | B     | C  | C1 | D    | D1 | E1 | E2 | F2    |
|------------|----|-------|----|----|------|----|----|----|-------|
| 1825503145 | 7  | G 3/8 | 8  | 6  | 24   | 28 | 11 | 22 | Ø 5,5 |
| 1825503148 | 9  | G 1/2 | 11 | 8  | 31,5 | 35 | 13 | 26 | Ø 6,6 |
| 1825503151 | 12 | G 1   | 12 | 8  | 47   | 52 | 15 | 32 | Ø 9   |
| 8985041442 | 12 | G 1   | 19 | 12 | 54   | 56 | 15 | 30 | Ø 11  |

| G1  | G2  | H1 | H2 | H3 | J  | K  | L   | M  | N   |
|-----|-----|----|----|----|----|----|-----|----|-----|
| 110 | 95  | 22 | 22 | 46 | 28 | 28 | 85  | 6  | 2   |
| 135 | 115 | 23 | 24 | 47 | 34 | 34 | 100 | 8  | 2   |
| 190 | 168 | 22 | 25 | 56 | 52 | 52 | 140 | 8  | 2,7 |
| 215 | 148 | 30 | 30 | 58 | 54 | 54 |     | 12 | 2,7 |

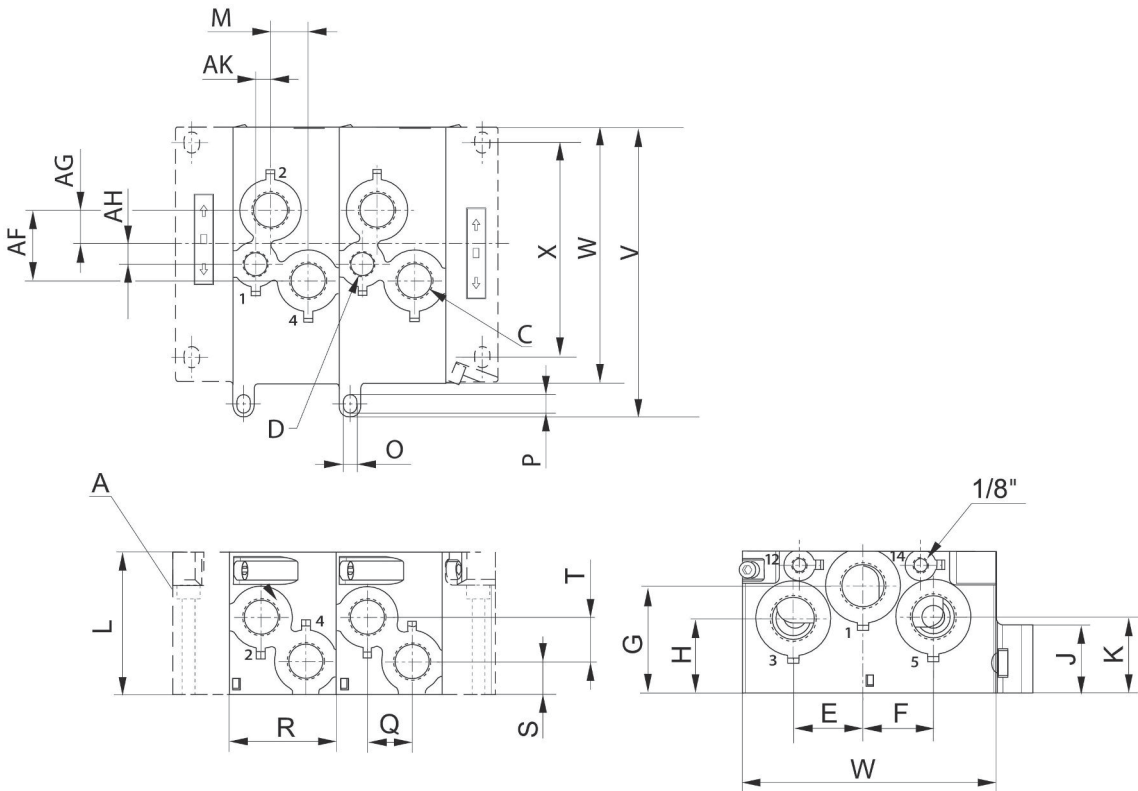
| O  | P    | R      |
|----|------|--------|
| 8  | 24   | Ø 22,1 |
| 11 | 31,5 | Ø 28,7 |
| 12 | 47   | Ø 38   |
| 19 | 54   | Ø 44,1 |

Base plate



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection output | Part No.   |
|------------|-------------------------------|-------------------------------|----------------------------------|------------|
| ISO 1      | -20                           | 70                            | G 3/8                            | R432037639 |
| ISO 2      | -20                           | 70                            | G 1/2                            | R432037641 |
| ISO 3      | -20                           | 70                            | G 3/4                            | R432037643 |

Dimensions



A = left and right end plates in two versions

| Part No.   | A     | D     | C     | AF   | AG   | AH   | AK   | E  | F  |
|------------|-------|-------|-------|------|------|------|------|----|----|
| R432037639 | G 1/4 | -     | G 3/8 | 23.8 | 11.8 | -    | -    | 23 | 18 |
| R432037641 | G 1/2 | G 3/8 | G 1/2 | 39.5 | 19   | 11   | 8.2  | 39 | 39 |
| R432037643 | G 3/4 | G 1/2 | G 3/4 | 46.3 | 25.1 | 11.2 | 15.8 | 49 | 49 |

| G    | H    | J  | K    | L    | M    | O   | P   | R    | Q  |
|------|------|----|------|------|------|-----|-----|------|----|
| 15,5 | 30   | 20 | 37,5 | 60.6 | 12   | 5.5 | 8.5 | 45   | 18 |
| 60   | 41,5 | 38 | 42,5 | 79.7 | 21   | 5.5 | 9.3 | 59.5 | 25 |
| 76   | 53   | 32 | 53   | 100  | 22.5 | 6.3 | 9.3 | 80   | 38 |

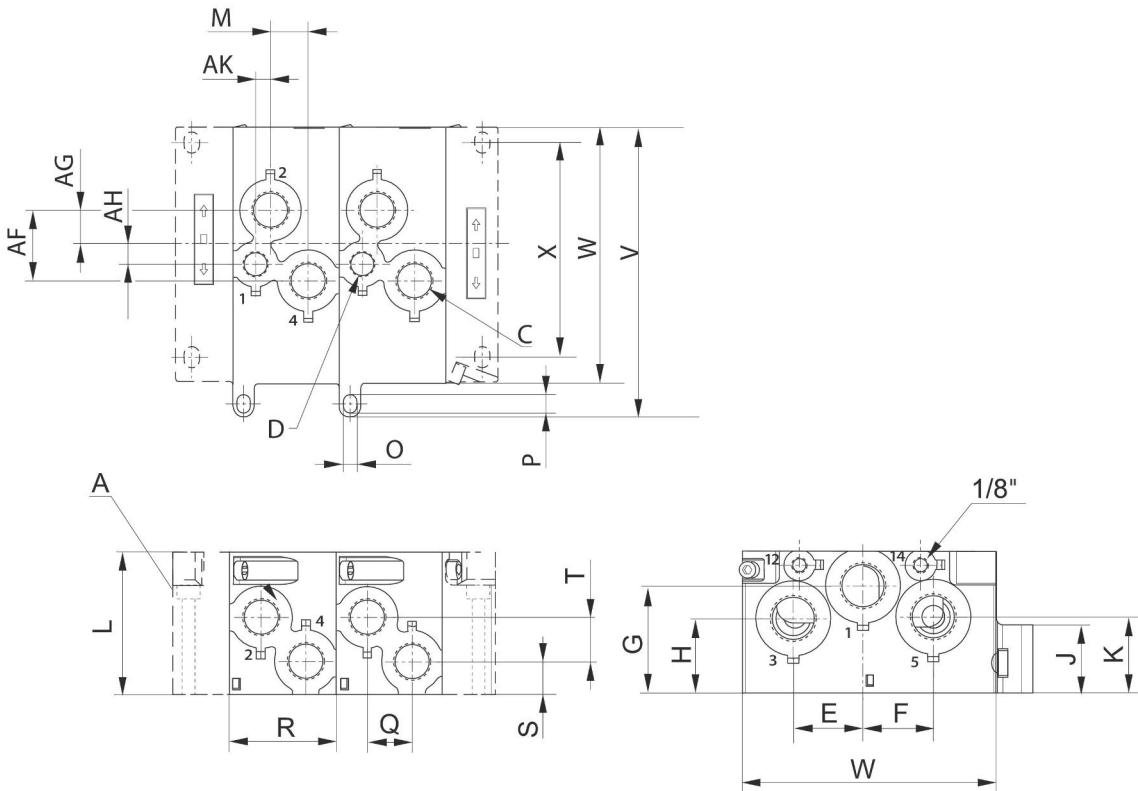
| S    | T    | X     | W   | V     |
|------|------|-------|-----|-------|
| 13.3 | 14.7 | 102,5 | 135 | 150   |
| 18   | 24.8 | 119,6 | 143 | 162,5 |
| 24.5 | 20.5 | 99    | 164 | 183   |

ISO 5599-1, Base and end plates, Inch version



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection output | Part No.   |
|------------|-------------------------------|-------------------------------|----------------------------------|------------|
| ISO 1      | -20                           | 70                            | 3/8 NPT                          | R432037640 |
| ISO 2      | -20                           | 70                            | 1/2 NPT                          | R432037642 |
| ISO 3      | -20                           | 70                            | 3/4 NPT                          | R432037644 |

Dimensions



A = left and right end plates in two versions

| Part No.   | A       | D       | C       | F    | G    | H    | K    | L    | M    |
|------------|---------|---------|---------|------|------|------|------|------|------|
| R432037640 | 1/4 NPT | -       | 3/8 NPT | 23.8 | 11.8 | -    | -    | 60.6 | 12   |
| R432037642 | 1/2 NPT | 3/8 NPT | 1/2 NPT | 39.5 | 19   | 11   | 8.2  | 79.7 | 21   |
| R432037644 | 3/4 NPT | 1/2 NPT | 3/4 NPT | 46.3 | 25.1 | 11.2 | 15.8 | 100  | 22.5 |

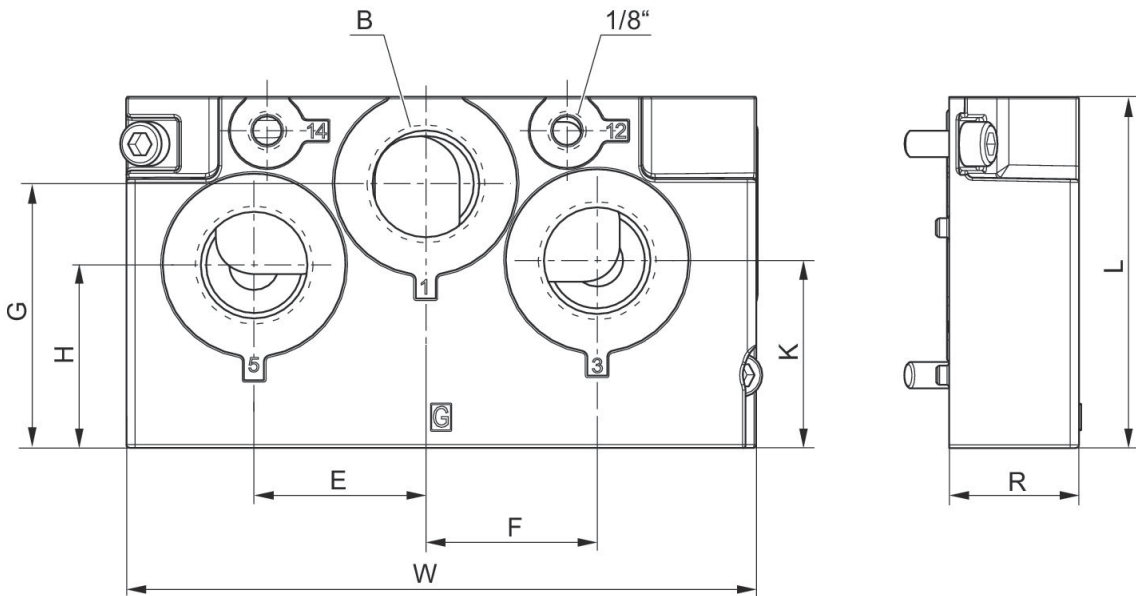
| Part No.   | O   | P   | R    | Q  | S    | T    |
|------------|-----|-----|------|----|------|------|
| R432037640 | 5.5 | 8.5 | 45   | 18 | 13.3 | 14.7 |
| R432037642 | 5.5 | 9.3 | 59.5 | 25 | 18   | 24.8 |
| R432037644 | 6.3 | 9.3 | 80   | 38 | 24.5 | 20.5 |



End plate left



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 1      | -15                           | 70                            | G 3/8                           | G 3/8                              | R432037645 |
| ISO 2      | -15                           | 70                            | G 3/4                           | G 3/4                              | R432037647 |
| ISO 3      | -15                           | 70                            | G 1                             | G 1                                | R432037649 |



| Part No.   | B   | E  | F  | G    | H    | J  | K    | L    | R  |
|------------|-----|----|----|------|------|----|------|------|----|
| R432037645 | 3/8 | 23 | 18 | 15.5 | 30   | 20 | 37.5 | 60.6 | 25 |
| R432037647 | 3/4 | 39 | 39 | 60   | 41.5 | 38 | 42.5 | 79.7 | 32 |
| R432037649 | 1   | 49 | 49 | 76   | 53   | 32 | 53   | 100  | 37 |

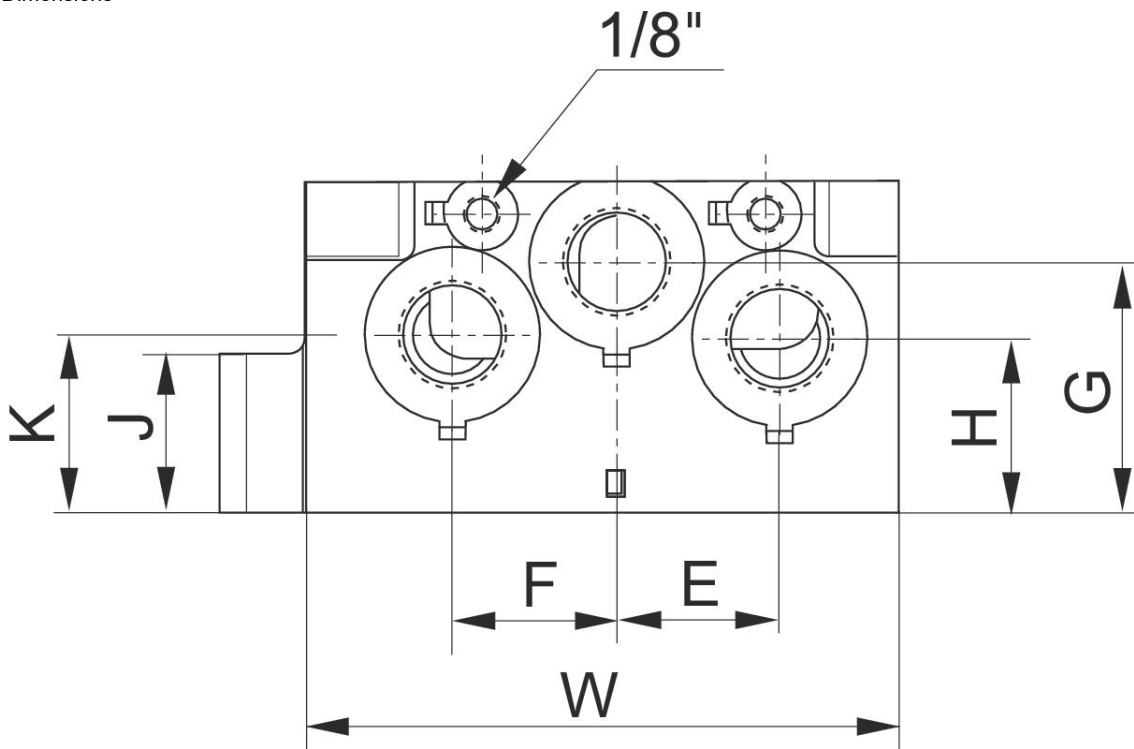
| W   |
|-----|
| 135 |
| 143 |
| 164 |

End plate left, Inch version



| Frame size | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Compressed air connection input | Compressed air connection, exhaust | Part No.   |
|------------|-------------------------------|-------------------------------|---------------------------------|------------------------------------|------------|
| ISO 1      | -15                           | 70                            | 3/8 NPT                         | 3/8 NPT                            | R432037646 |
| ISO 2      | -15                           | 70                            | 3/4 NPT                         | 3/4 NPT                            | R432037648 |
| ISO 3      | -15                           | 70                            | 1 NPT                           | 1 NPT                              | R432037650 |

Dimensions

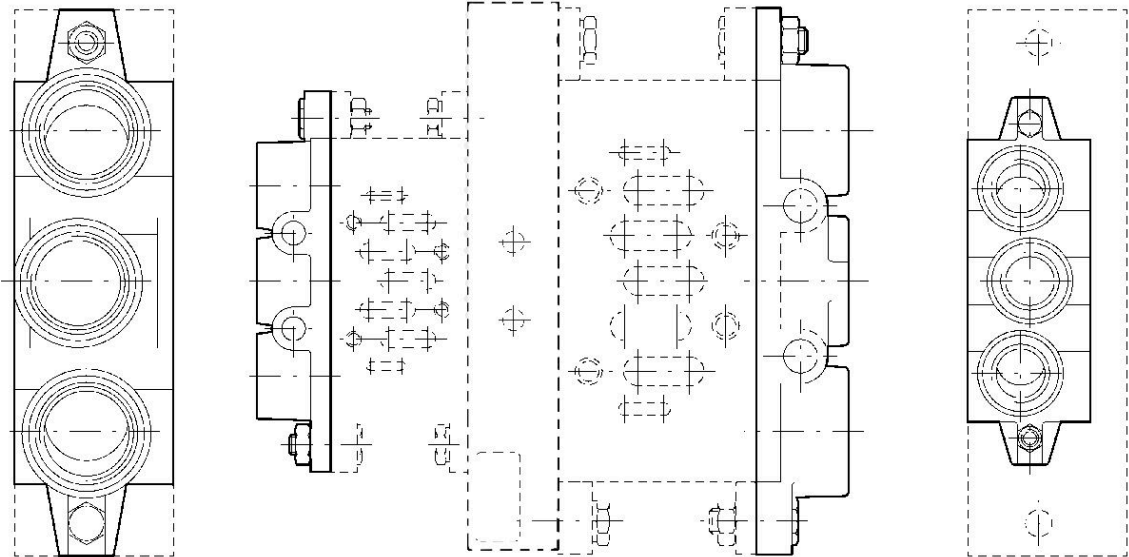


| Part No.   | E  | F  | G    | H    | J  | K    | W   |
|------------|----|----|------|------|----|------|-----|
| R432037646 | 23 | 18 | 15.5 | 30   | 20 | 37.5 | 135 |
| R432037648 | 39 | 39 | 60   | 41.5 | 38 | 42.5 | 143 |
| R432037650 | 49 | 49 | 76   | 53   | 32 | 53   | 164 |

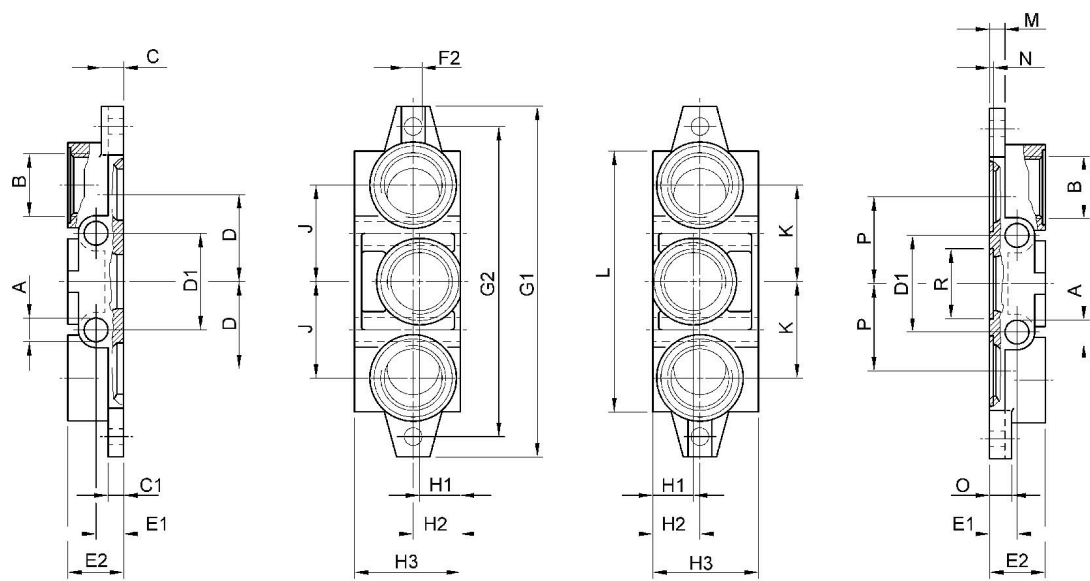
End plates for adapter plate



| Frame size   | Min. ambient temperature [°C] | Max. ambient temperature [°C] | Part No.   |
|--------------|-------------------------------|-------------------------------|------------|
| ISO 1, ISO 2 | -15                           | 70                            | 1825503244 |
| ISO 1, ISO 3 | -15                           | 70                            | 1825503243 |
| ISO 2, ISO 3 | -15                           | 70                            | 1825503245 |



Dimensions



|       | A  | B     | C  | C1 | D    | D1 | E1 | E2 | F2    |
|-------|----|-------|----|----|------|----|----|----|-------|
| ISO 1 | 7  | G 3/8 | 8  | 6  | 24   | 28 | 11 | 22 | Ø 5,5 |
| ISO 2 | 9  | G 1/2 | 11 | 8  | 31,5 | 35 | 13 | 26 | Ø 6,6 |
| ISO 3 | 12 | G 1   | 12 | 8  | 47   | 52 | 15 | 32 | Ø 9   |

| G1  | G2  | H1 | H2 | H3 | J  | K  | L   | M | N   |
|-----|-----|----|----|----|----|----|-----|---|-----|
| 110 | 95  | 22 | 22 | 46 | 28 | 28 | 85  | 6 | 2   |
| 135 | 115 | 23 | 24 | 47 | 34 | 34 | 100 | 8 | 2   |
| 190 | 168 | 22 | 25 | 56 | 52 | 52 | 140 | 8 | 2,7 |

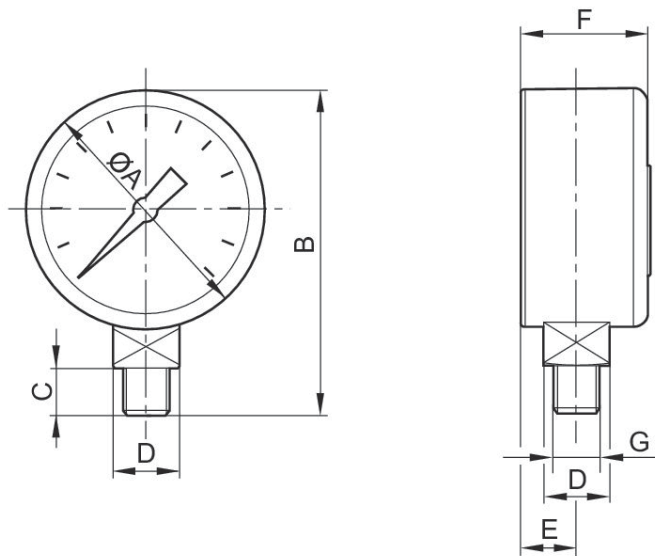
| O  | P    | R      |
|----|------|--------|
| 8  | 24   | Ø 22,1 |
| 11 | 31,5 | Ø 28,7 |
| 12 | 47   | Ø 38   |

Pressure gauge, Series PG1-ROU

Ambient temperature min./max.: -40 °C ... 60 °C  
Working pressure min./max.: 0 bar

|                                                                                   | Type                        | Nominal diameter [mm] | Port  | Min. main scale range of appli- cation [bar] | Max. main scale range of appli- cation [bar] | Min. main scale dis- play range [bar] | Max. main scale dis- play range [bar] | Part No.   |
|-----------------------------------------------------------------------------------|-----------------------------|-----------------------|-------|----------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------------|------------|
|  | Bourdon tube pressure gauge | 50                    | R 1/8 | 0                                            | 10                                           | 0                                     | 12                                    | 8901703200 |

Dimensions



Dimensions in mm

| Part No.   | Compressed air connection | Nominal diameter | Ø A | B    | C  | D    | F    | E  |
|------------|---------------------------|------------------|-----|------|----|------|------|----|
| 8901703200 | R 1/8                     | 50 mm            | 50  | 66.5 | 10 | SW14 | 27,5 | 10 |

Pressure gauge, Series PG1-SAS

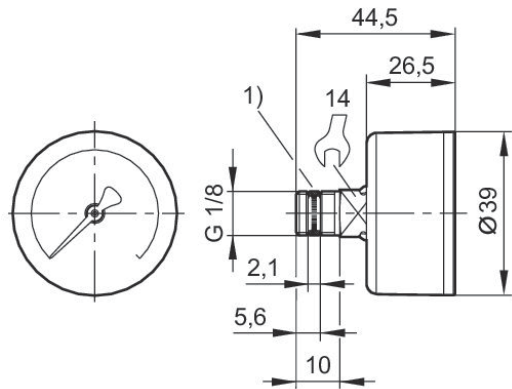
Ambient temperature min./max.: -40 °C ... 60 °C  
Working pressure min./max.: 0 bar



|  | Type                        | Nominal diameter [mm] | Port  | Min. main scale range of appli-cation [bar] | Max. main scale range of appli-cation [bar] | Min. main scale dis-play range [bar] | Max. main scale dis-play range [bar] | Part No.   |
|--|-----------------------------|-----------------------|-------|---------------------------------------------|---------------------------------------------|--------------------------------------|--------------------------------------|------------|
|  | Bourdon tube pressure gauge | 40                    | G 1/8 | 0                                           | 8                                           | 0                                    | 10                                   | R412003857 |

R412003857

Dimensions in mm



1) Gasket thread

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control valves



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