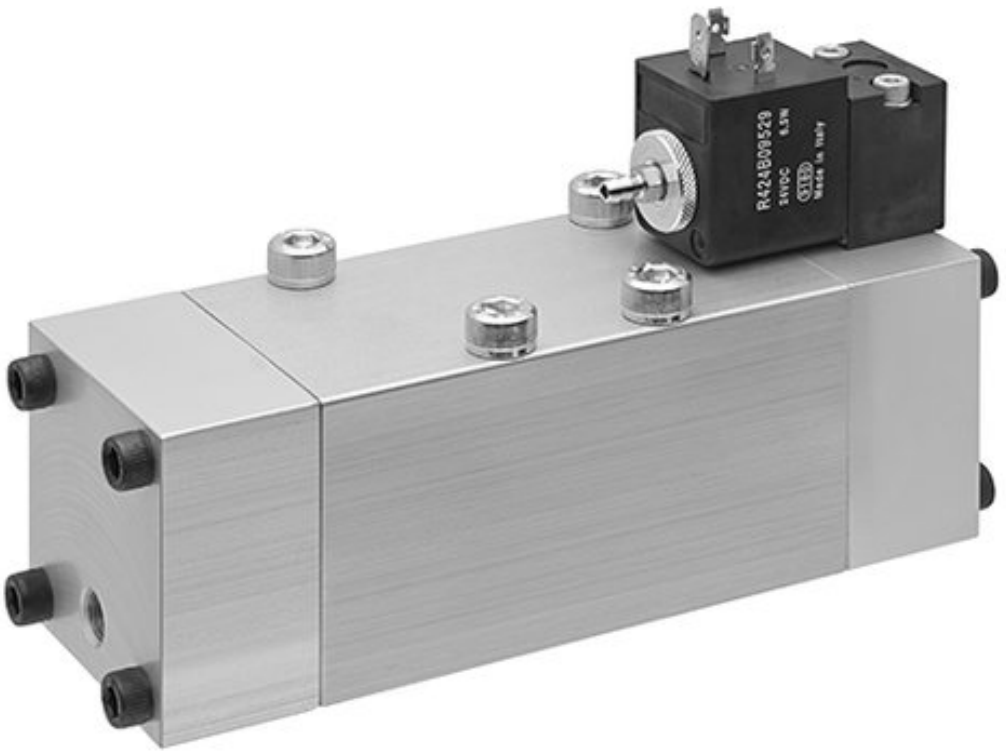
Series HV30



AVENTICS™ Series HV30

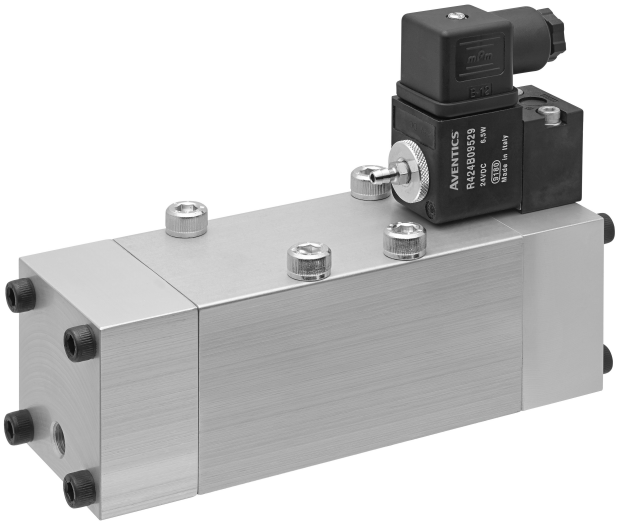
EMERSON.

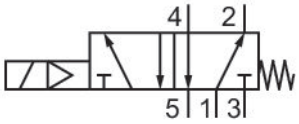
5/2-directional valve, Series HV30

R424B11120

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.





Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4300 l/min

Switching principle
5/2

Working pressure min.
3.5 bar

Working pressure max
9 bar

DC operating voltage
24 V

Voltage tolerance DC
-10% / +10%

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Sealing principle
Soft Seal

Pilot
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Poppet valve

Frame size
ISO 3

Connection type
Plate connection

Blocking principle
Single base plate principle

Control pressure min.
3.5 bar

Control pressure max.
9 bar

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Power consumption DC
6.7 W

Duty cycle
100 %

Typ. switch-on time
50 ms

Typ. switch-off time
80 ms

Pilot valve width
30x22 mm CNOMO

Protection class with connection
IP65

Mounting screw tightening torque
11 Nm

Weight
1.73 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R424B11120

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

Scope of delivery: incl. valve plug connector and pilot valve

Nominal flow Qn at 6 bar and Δp = 1 bar

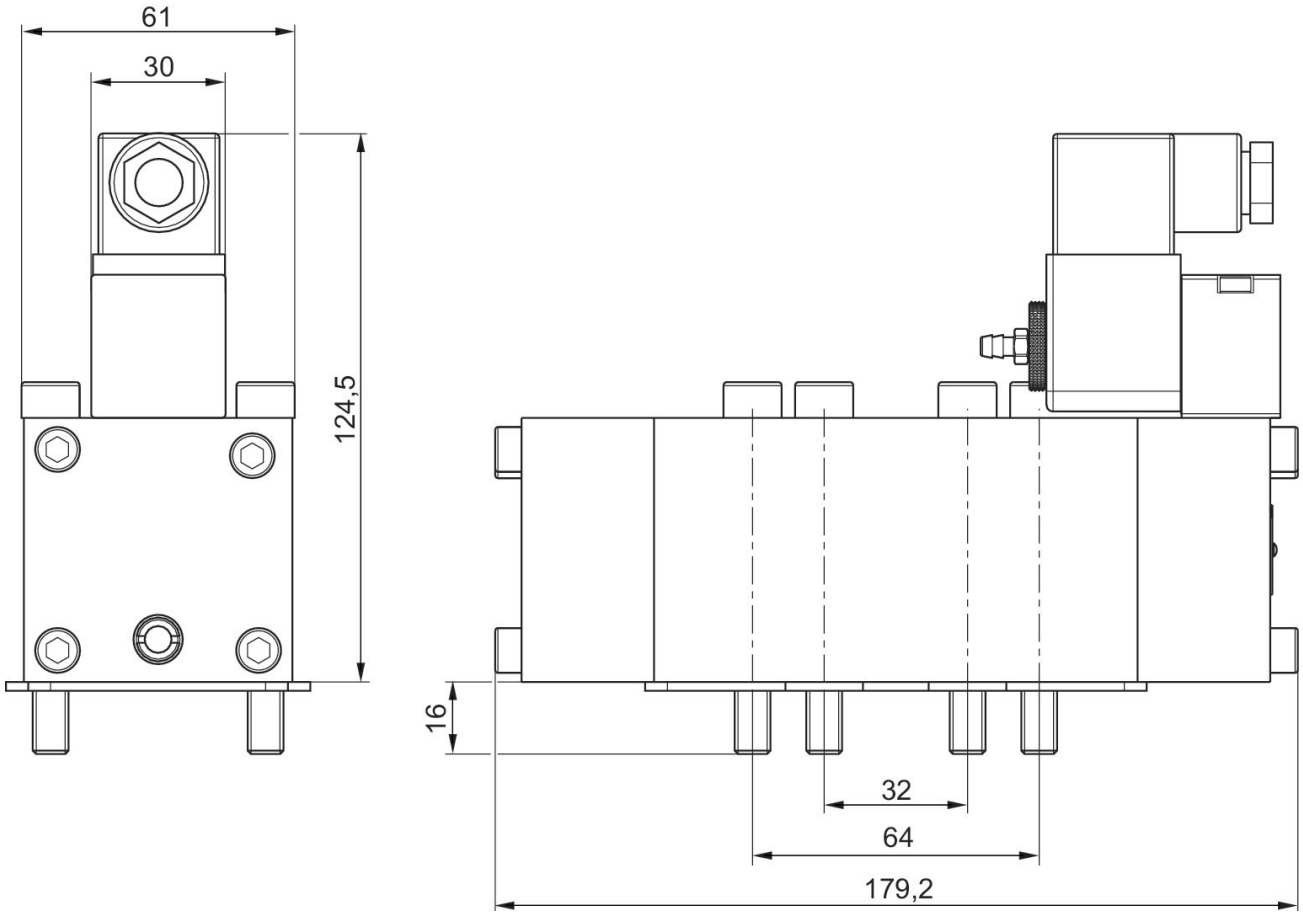
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm

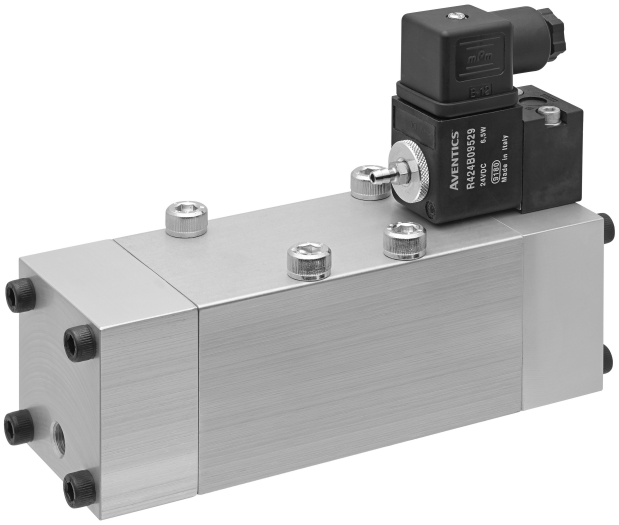


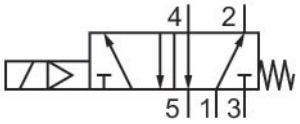
5/2-directional valve, Series HV30

R424B11927

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.





Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4300 l/min

Switching principle
5/2

Working pressure min.
3.5 bar

Working pressure max
9 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 V

Voltage tolerance AC 50 Hz
-10% / +10%

Voltage tolerance AC 60 Hz
-10% / +10%

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Sealing principle
Soft Seal

Pilot
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Poppet valve

Frame size
ISO 3

Connection type
Plate connection

Blocking principle
Single base plate principle

Control pressure min.
3.5 bar

Control pressure max.
9 bar

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Holding power AC 50 Hz
4.2 VA

Holding power AC 60 Hz
4.2 VA

Switch-on power AC 50 Hz
5 VA

Switch-on power AC 60 Hz
5 VA

Duty cycle
100 %

Typ. switch-on time
50 ms

Typ. switch-off time
80 ms

Pilot valve width
30x22 mm CNOMO

Protection class with connection
IP65

Mounting screw tightening torque
11 Nm

Weight
1.73 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R424B11927

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

Scope of delivery: incl. valve plug connector and pilot valve

Nominal flow Qn at 6 bar and Δp = 1 bar

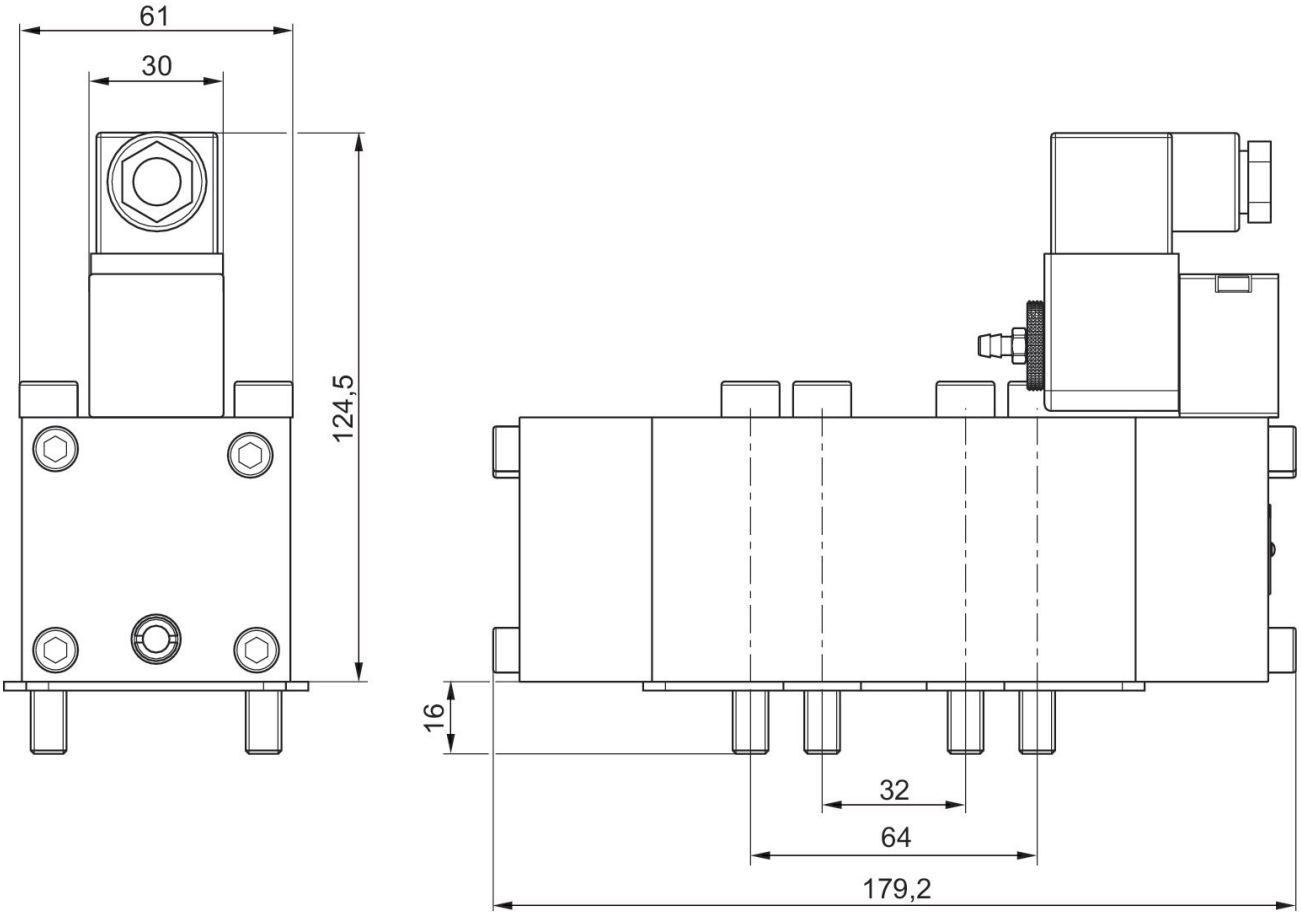
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm

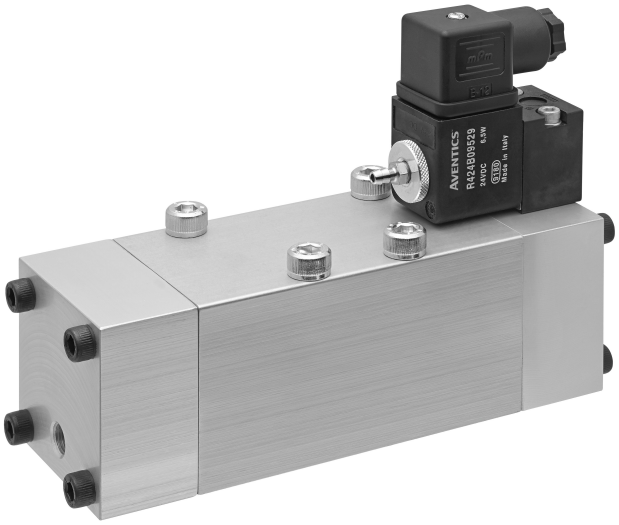


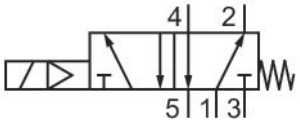
5/2-directional valve, Series HV30

R424B11848

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.





Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4300 l/min

Switching principle
5/2

Working pressure min.
3.5 bar

Working pressure max
9 bar

Operational voltage AC at 50 Hz
230 V

Operational voltage AC at 60 Hz
230 V

Voltage tolerance AC 50 Hz
-10% / +10%

Voltage tolerance AC 60 Hz
-10% / +10%

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Sealing principle
Soft Seal

Pilot
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Poppet valve

Frame size
ISO 3

Connection type
Plate connection

Blocking principle
Single base plate principle

Control pressure min.
3.5 bar

Control pressure max.
9 bar

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Holding power AC 50 Hz
4.2 VA

Holding power AC 60 Hz
4.2 VA

Switch-on power AC 50 Hz
5 VA

Switch-on power AC 60 Hz
5 VA

Duty cycle
100 %

Typ. switch-on time
50 ms

Typ. switch-off time
80 ms

Pilot valve width
30x22 mm CNOMO

Protection class with connection
IP65

Mounting screw tightening torque
11 Nm

Weight
1.73 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R424B11848

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

Scope of delivery: incl. valve plug connector and pilot valve

Nominal flow Qn at 6 bar and Δp = 1 bar

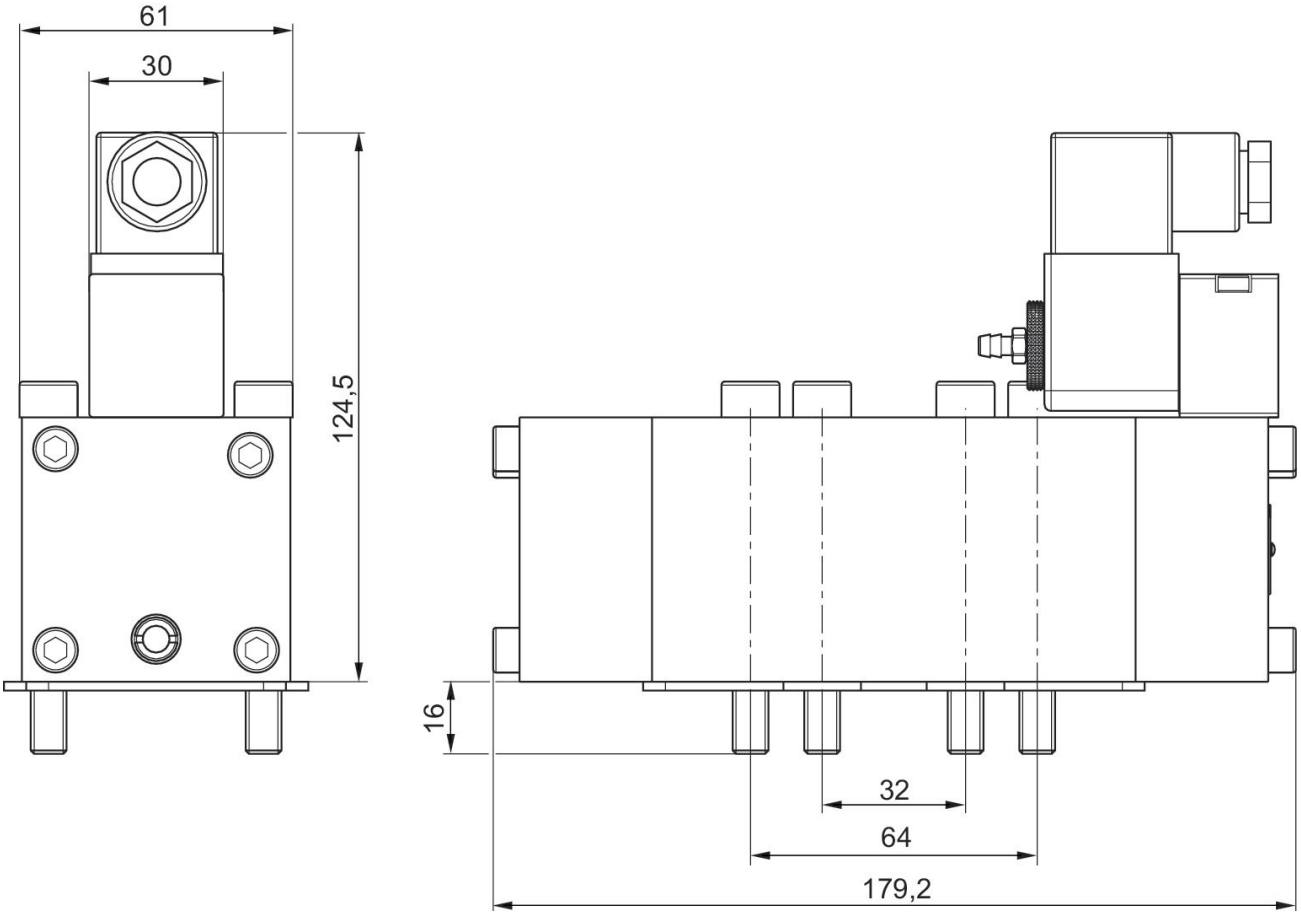
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm

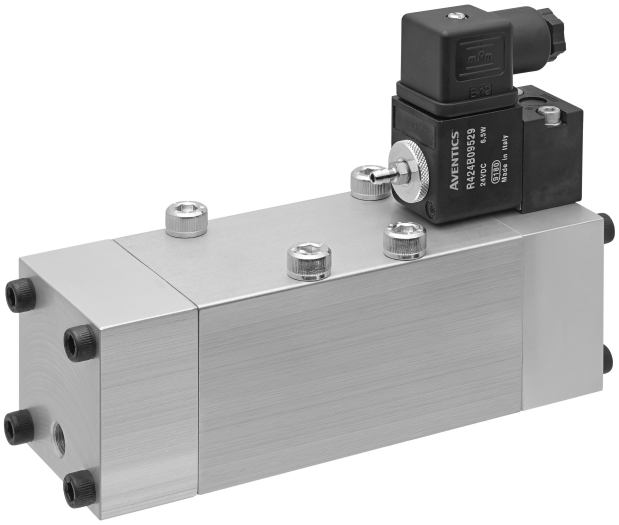


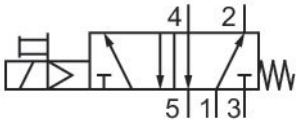
5/2-directional valve, Series HV30

R424B12986

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.





Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4300 l/min

Switching principle
5/2

Working pressure min.
3.5 bar

Working pressure max
9 bar

DC operating voltage
24 V

Voltage tolerance DC
-10% / +10%

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Sealing principle
Soft Seal

Pilot
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Poppet valve

Frame size
ISO 3

Connection type
Plate connection

Blocking principle
Single base plate principle

Control pressure min.
3.5 bar

Control pressure max.
9 bar

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Power consumption DC
6.7 W

Duty cycle
100 %

Typ. switch-on time
50 ms

Typ. switch-off time
80 ms

Pilot valve width
30x22 mm CNOMO

Protection class with connection
IP65

Mounting screw tightening torque
11 Nm

Weight
1.73 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R424B12986

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

Scope of delivery: incl. valve plug connector and pilot valve

Nominal flow Qn at 6 bar and Δp = 1 bar

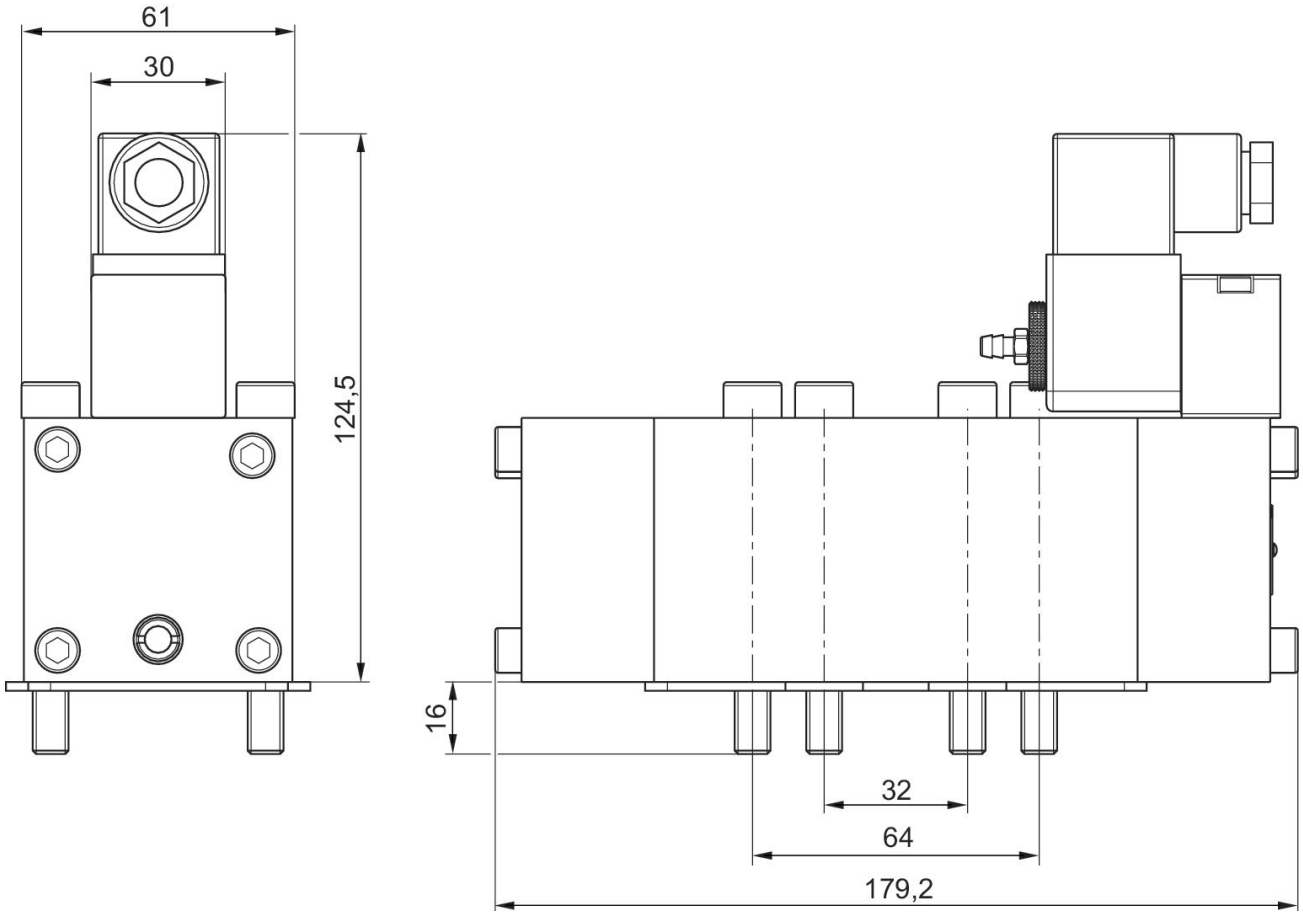
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm

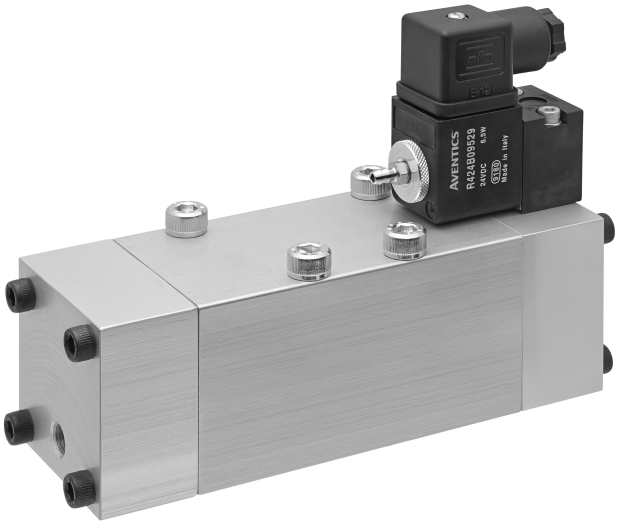


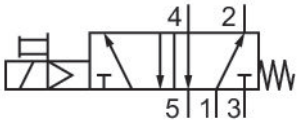
5/2-directional valve, Series HV30

R424B12987

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.





Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4300 l/min

Switching principle
5/2

Working pressure min.
3.5 bar

Working pressure max
9 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 V

Voltage tolerance AC 50 Hz
-10% / +10%

Voltage tolerance AC 60 Hz
-10% / +10%

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Sealing principle
Soft Seal

Pilot
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Poppet valve

Frame size
ISO 3

Connection type
Plate connection

Blocking principle
Single base plate principle

Control pressure min.
3.5 bar

Control pressure max.
9 bar

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Holding power AC 50 Hz
4.2 VA

Holding power AC 60 Hz
4.2 VA

Switch-on power AC 50 Hz
5 VA

Switch-on power AC 60 Hz
5 VA

Duty cycle
100 %

Typ. switch-on time
50 ms

Typ. switch-off time
80 ms

Pilot valve width
30x22 mm CNOMO

Protection class with connection
IP65

Mounting screw tightening torque
11 Nm

Weight
1.73 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
R424B12987

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

Scope of delivery: incl. valve plug connector and pilot valve

Nominal flow Qn at 6 bar and Δp = 1 bar

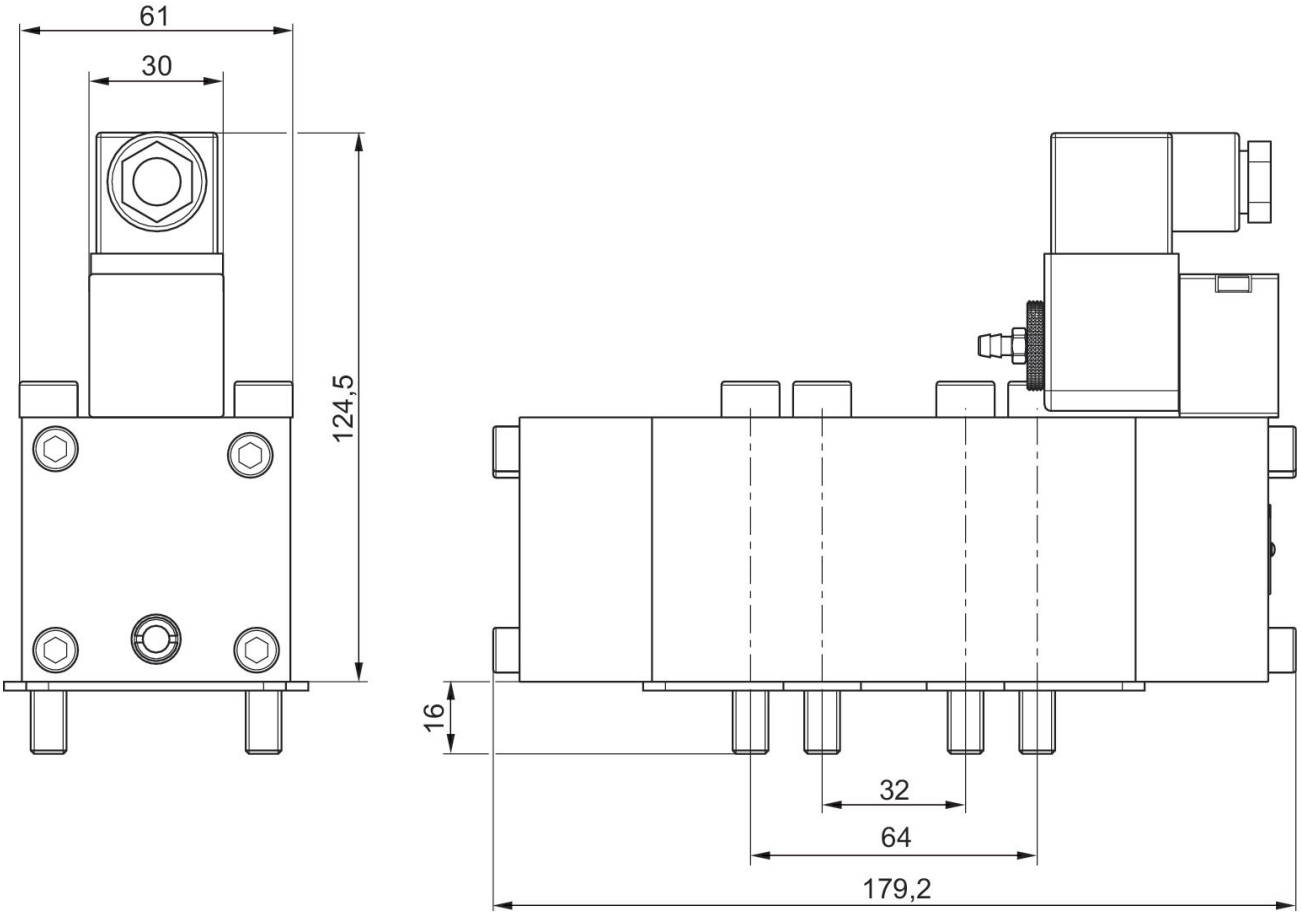
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



Single subbase, thread connections on the bottom

- standard ISO 5599-1
- Frame size ISO 3
- Compressed air connection output G 1/2
- Reversed pressure supply permissible

Standards	ISO 5599-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-25 ... 70 °C
Medium temperature min./max.	-25 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Direction of pneumatic port (1)	Down
Direction of pneumatic port (3,5)	Down
Direction of pneumatic port (2,4)	Down
Direction of pneumatic port (12)	Down
Direction of pneumatic port (14)	Down
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Weight	0.416 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
1825503203	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [X]
1825503203	G 1/2	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
1825503203	G 1/8

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

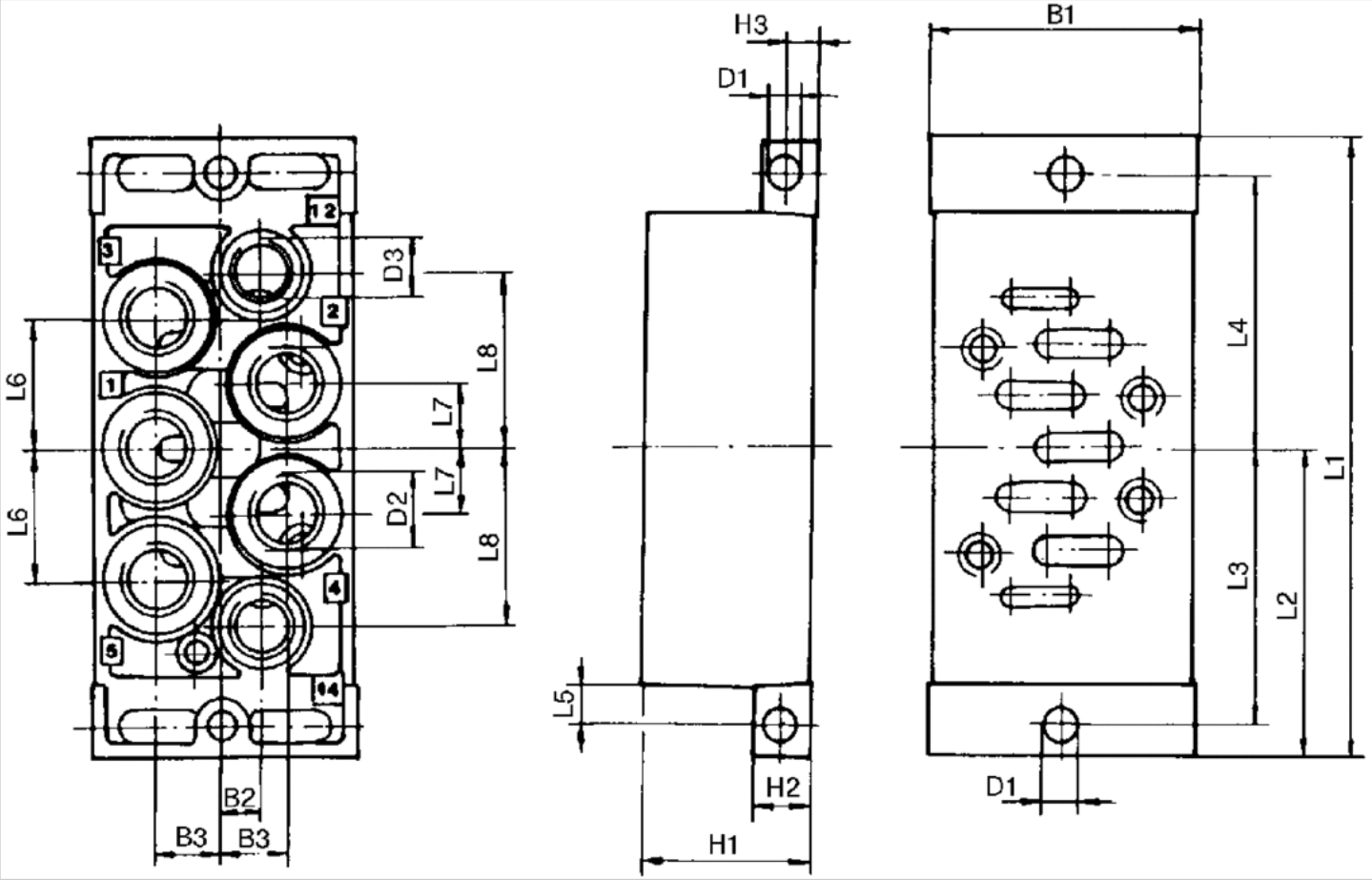
For use with HV series valves, the ambient temperature is -25 °C...200 °C and the medium temperature is -25 °C...120 °C.
Reversed pressure supply is not permitted for HV series valves.

Technical information

Material	
Base plate	Die-cast aluminum

Dimensions

Dimensions



Dimensions

Part No.	Frame size	B1	B2	B3	D1	D2 *)	D3 *)	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7	L8
1825503203	ISO 3	77	10	17	6.6	G 1/2	G 1/8	32	18	9	149	74.5	68	68	8.5	34	17	45

*) Ports

Single subbase, thread connections on the side

- standard ISO 5599-1
- Frame size ISO 3
- Compressed air connection output G 1/2
- Reversed pressure supply permissible

Standards	ISO 5599-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-25 ... 70 °C
Medium temperature min./max.	-25 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Grid dimension	71 mm
Direction of pneumatic port (1)	On the side
Direction of pneumatic port (3,5)	On the side
Direction of pneumatic port (2,4)	On the side
Direction of pneumatic port (12)	On the side
Direction of pneumatic port (14)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Weight	0.34 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
1825503149	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [X]
1825503149	G 1/2	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
1825503149	G 1/8

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

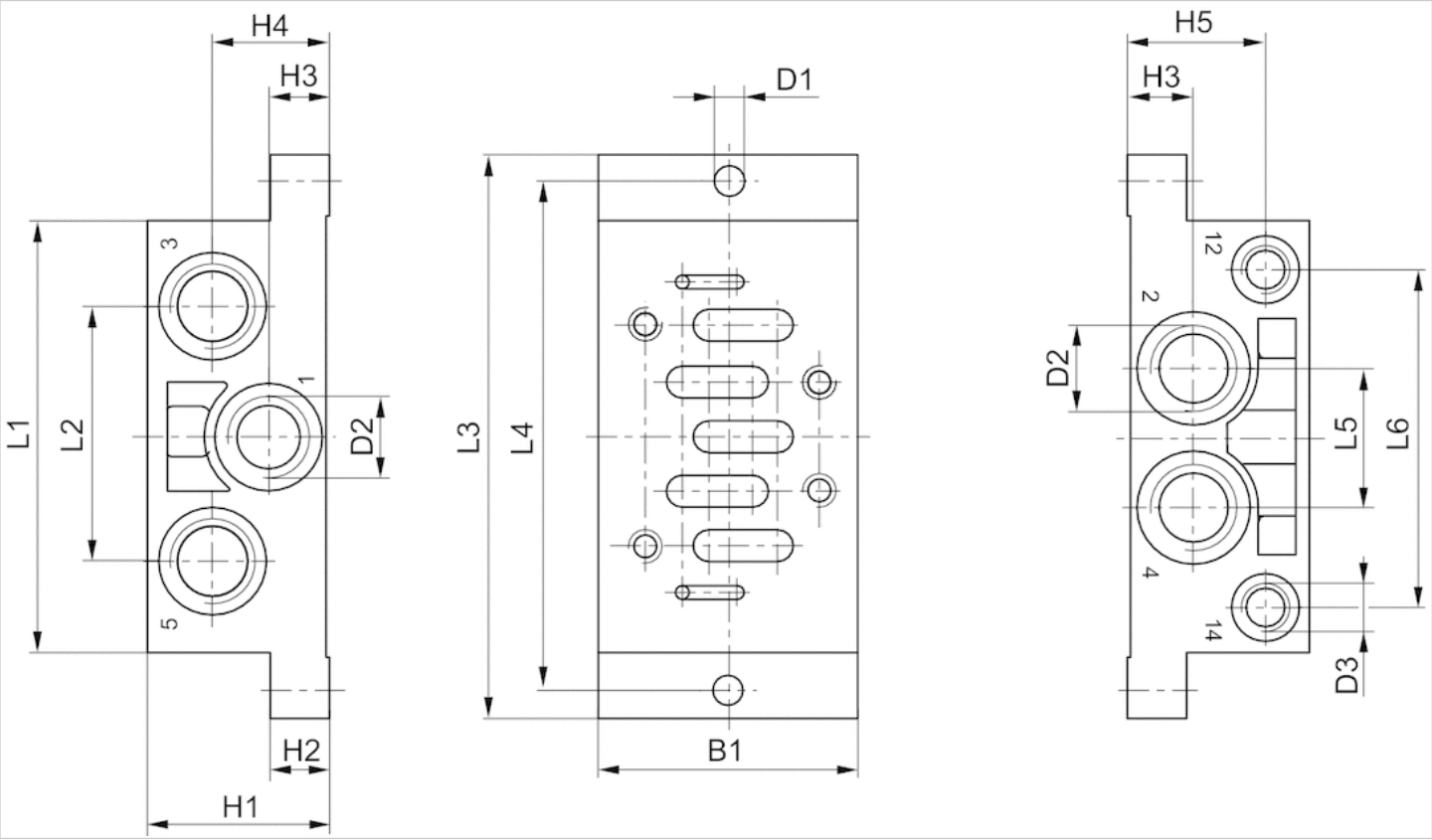
For use with HV series valves, the ambient temperature is -25 °C...200 °C and the medium temperature is -25 °C...120 °C.
Reversed pressure supply is not permitted for HV series valves.

Technical information

Material	
Housing	Die-cast aluminum
Base plate	Die-cast aluminum

Dimensions

Fig. 1



Dimensions

Part No.	Frame size	B1	H1	H2	H3	H4	H5	D1	D2 *)	D3 *)	L1	L2	L3	L4	L5	L6
1825503149	ISO 3	71	32	18	17	17	22	6.6	G 1/2	G 1/8	119	68	149	136	32	90

*) Ports

Base plate

- standard ISO 5599-1
- Frame size ISO 3
- Compressed air connection output G 1/2

Standards	ISO 5599-1
Working pressure min./max.	3.5 ... 10 bar
Ambient temperature min./max.	10 ... 200 °C
Medium temperature min./max.	10 ... 120 °C
Medium	Compressed air
Direction of pneumatic port (1)	On the side
Direction of pneumatic port (3,5)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Mounting screw	hexagon head
Weight	1 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
R424B12368	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]
R424B12368	G 1/2

Delivery incl. seal and mounting screw

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

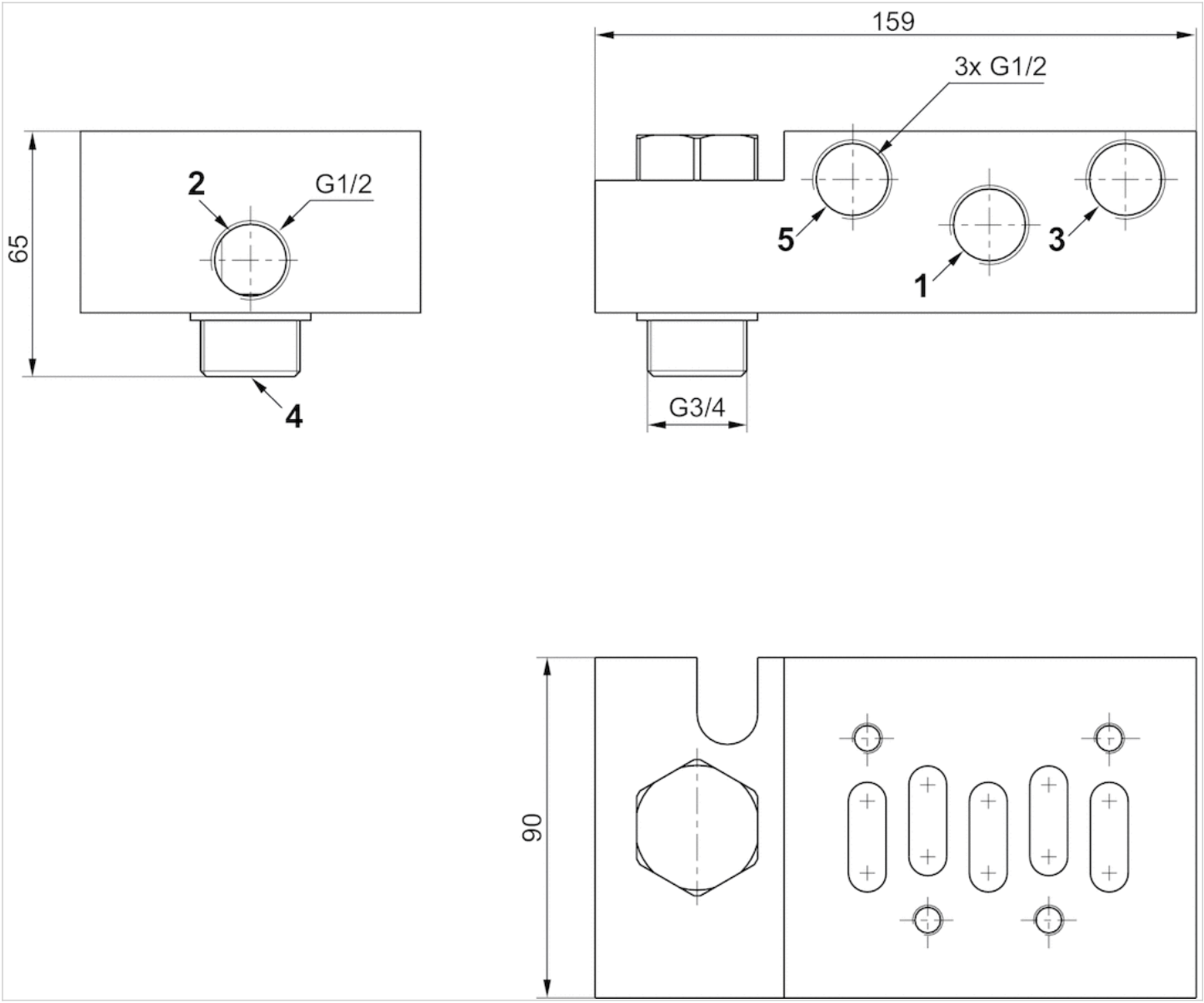
Can be mounted directly to a crust breaking cylinder (Ø 160 and Ø 200) with integrated ISO 5599-1, size 3 valve. Optimized for the metalworking industry.

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions in mm



Base plate

- standard ISO 5599-1
- Frame size ISO 3
- Compressed air connection output G 3/4 1/2-14 NPTF 3/4-14 PTF

Standards	ISO 5599-1
Working pressure min./max.	3.5 ... 10 bar
Ambient temperature min./max.	10 ... 200 °C
Medium temperature min./max.	10 ... 120 °C
Medium	Compressed air
Direction of pneumatic port (1)	On the side
Direction of pneumatic port (3,5)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Mounting screw	M8
Weight	0.54 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
R432009166	G 3/4	G 3/4
R432015308	1/2-14 NPTF	1/2-14 NPTF
R432015309	3/4-14 PTF	3/4-14 PTF

Part No.	Compressed air connection Exhaust [3 / 5]
R432009166	G 3/4
R432015308	1/2-14 NPTF
R432015309	3/4-14 PTF

Technical information

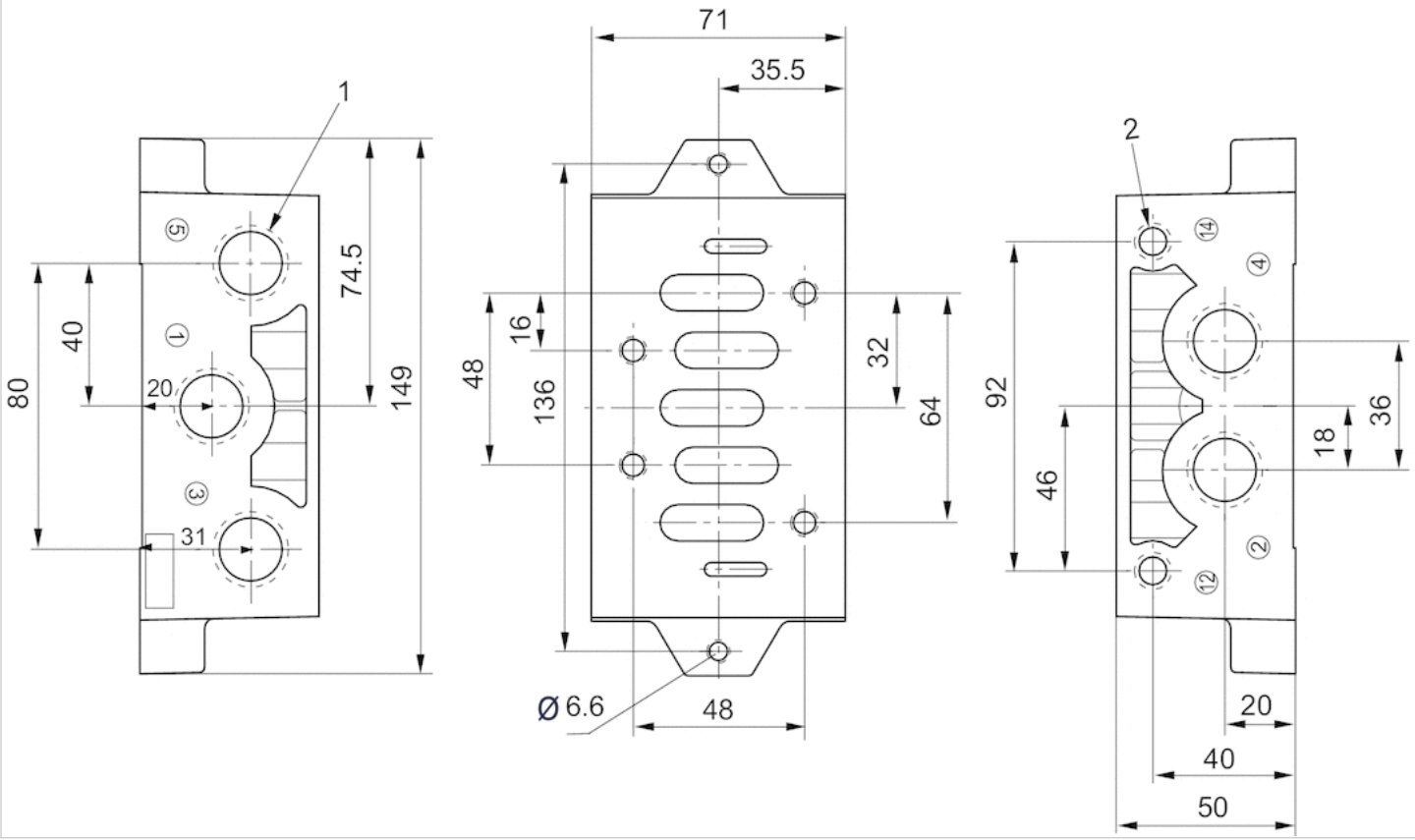
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum

Dimensions

Dimensions in mm



1) Connections [1 ,3 ,5, 2, 4]
2) Connections [12, 14] G 1/8

Pilot valve, Series HV30

R424B12522

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.

Technical data

Industry
Industrial

Activation
Electrically

Working pressure min.
2 bar

Working pressure max
10 bar

DC operating voltage
24 V

Voltage tolerance DC
-10% / +10%

Frame size
ISO 3

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
5 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Power consumption DC
2.4 W

Duty cycle
100 %

Connector standard
CNOMO / NFE 49-003-1

Protection class with connection
IP65

Weight
0.18 kg

Housing material
polyphenylene sulfide

Seal material
Fluorocaoutchouc

Part No.
R424B12522

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

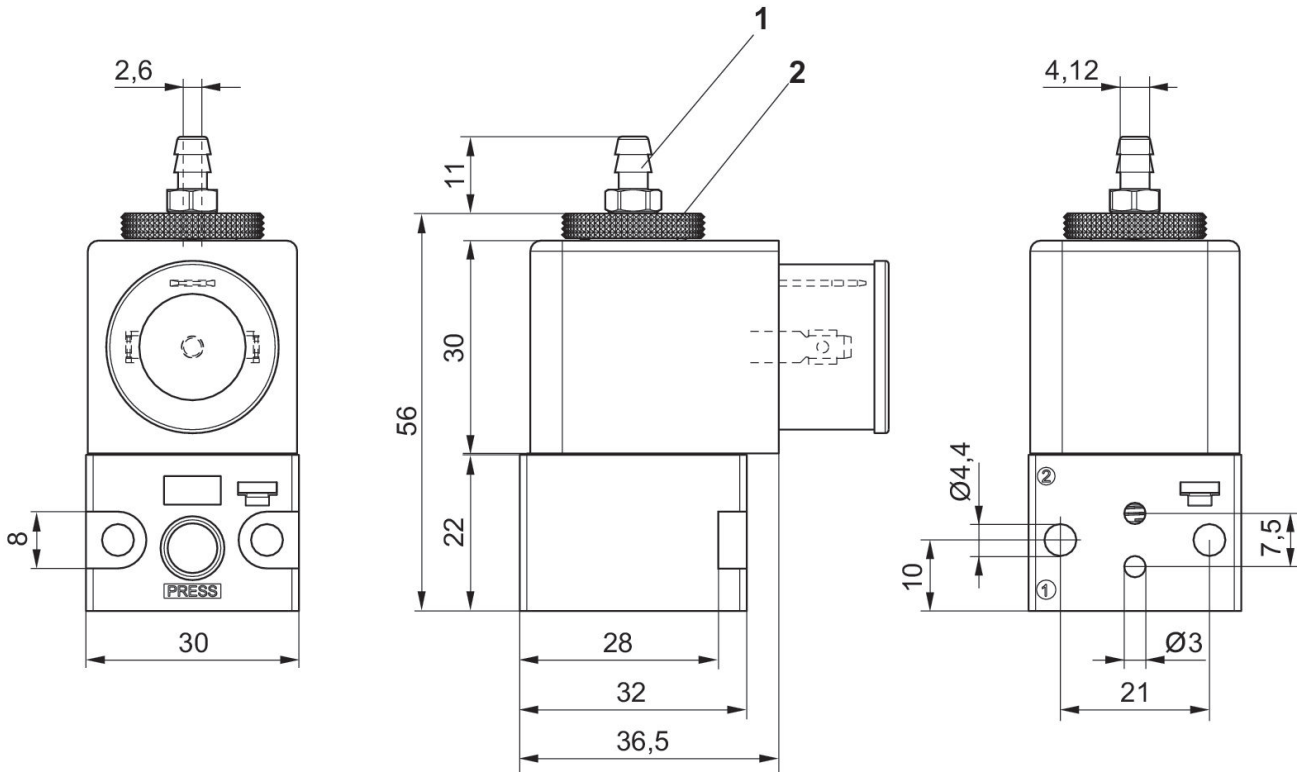
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



1) Tightening torque: 0.8 Nm ±0.01
2) Tightening torque: 0.4 Nm ±0.01
Scope of delivery: Pressure connection, fluoropolymer tubing Ø6x1

Pilot valve, Series HV30

R424B13057

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.

Technical data

Industry
Industrial

Activation
Electrically

Working pressure min.
2 bar

Working pressure max
10 bar

DC operating voltage
24 V

Frame size
ISO 3

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
5 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Power consumption DC
6.5 W

Duty cycle
100 %

Connector standard
CNOMO / NFE 49-003-1

Protection class with connection
IP65

Weight
0.18 kg

Housing material
polyphenylene sulfide

Seal material
Fluorocaoutchouc

Part No.
R424B13057

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

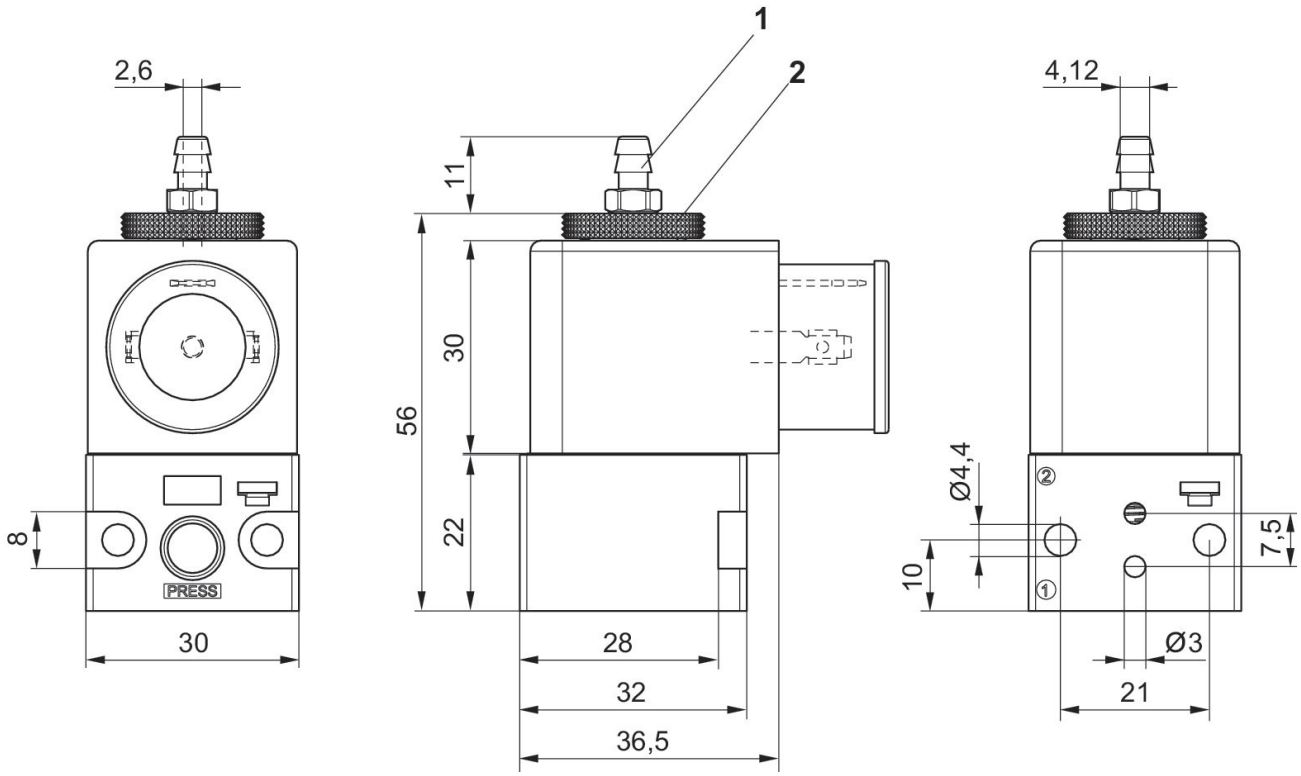
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



1) Tightening torque: 0.8 Nm ±0.01
2) Tightening torque: 0.4 Nm ±0.01
Scope of delivery: Pressure connection, fluoropolymer tubing Ø6x1

Pilot valve, Series HV30

R424B12523

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.

Technical data

Industry
Industrial

Activation
Electrically

Working pressure min.
2 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 V

Voltage tolerance AC 50 Hz
-10% / +10%

Voltage tolerance AC 60 Hz
-10% / +10%

Frame size
ISO 3

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
5 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Holding power AC 50 Hz
5 VA

Holding power AC 60 Hz
4.2 VA

Duty cycle
100 %

Connector standard
CNOMO / NFE 49-003-1

Protection class with connection
IP65

Weight
0.18 kg

Housing material
polyphenylene sulfide

Seal material
Fluorocaoutchouc

Part No.
R424B12523

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

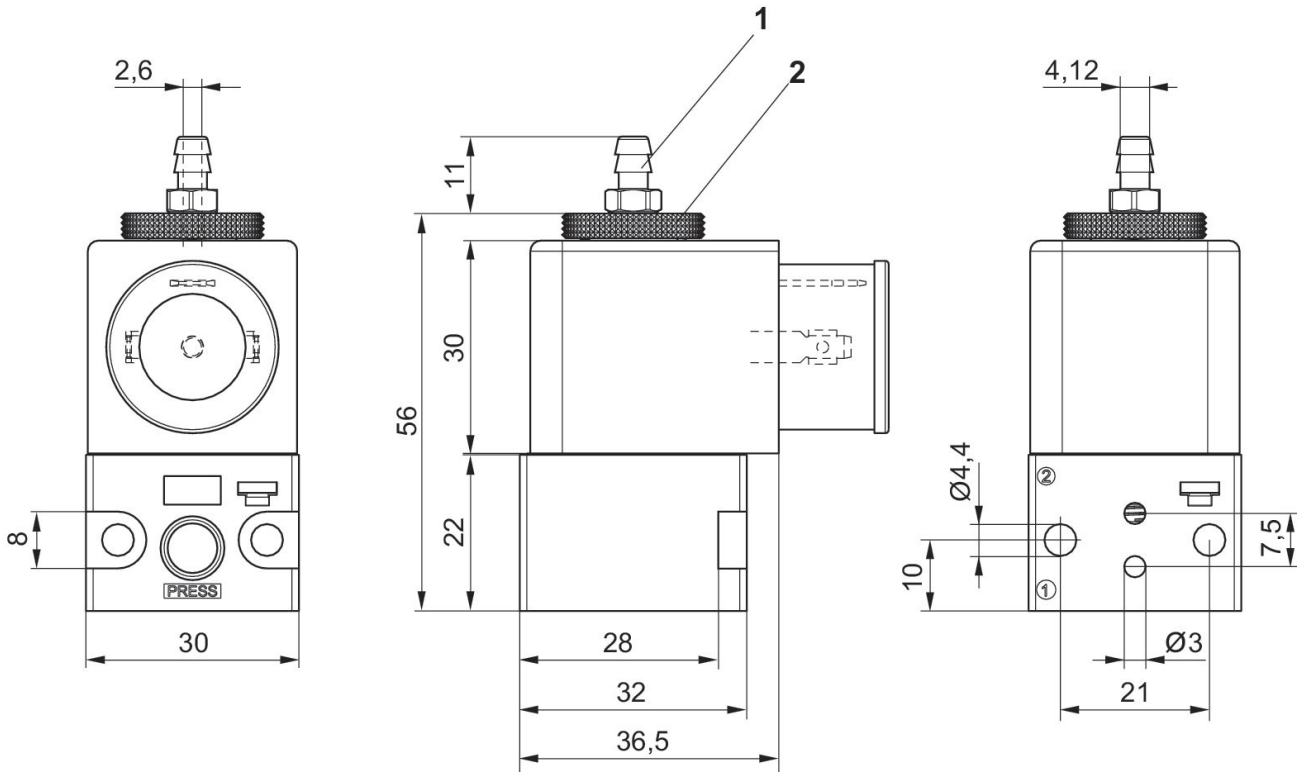
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



1) Tightening torque: 0.8 Nm ±0.01
2) Tightening torque: 0.4 Nm ±0.01
Scope of delivery: Pressure connection, fluoropolymer tubing Ø6x1

Pilot valve, Series HV30

R424B13058

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.

Technical data

Industry
Industrial

Activation
Electrically

Working pressure min.
2 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 V

Frame size
ISO 3

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
5 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Holding power AC 50 Hz
5 VA

Holding power AC 60 Hz
4.2 VA

Duty cycle
100 %

Connector standard
CNOMO / NFE 49-003-1

Protection class with connection
IP65

Weight
0.18 kg

Housing material
polyphenylene sulfide

Seal material
Fluorocaoutchouc

Part No.
R424B13058

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

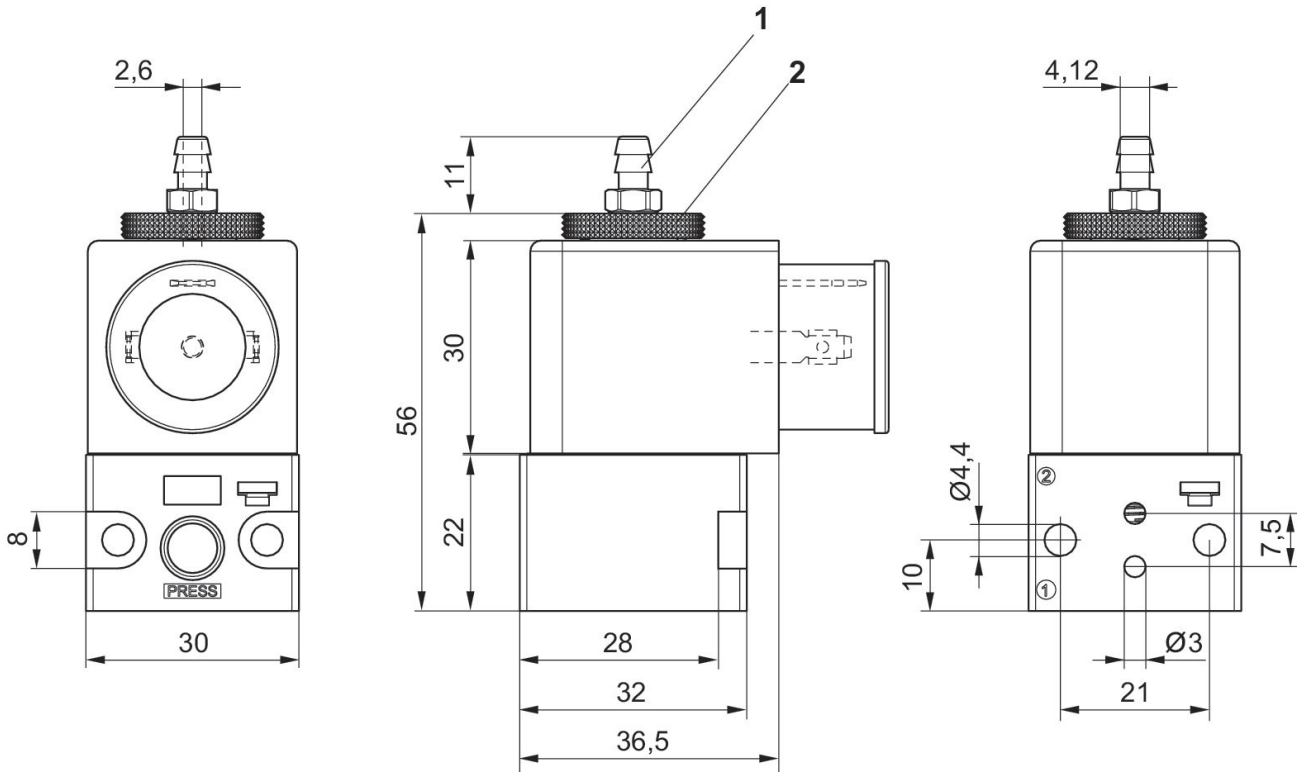
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



1) Tightening torque: 0.8 Nm ±0.01
2) Tightening torque: 0.4 Nm ±0.01
Scope of delivery: Pressure connection, fluoropolymer tubing Ø6x1

Pilot valve, Series HV30

R424B12524

General series information
Series HV30

- The AVENTICS Series HV30 complies with the valve standard ISO 5599-1. Due to the level of flow and robustness, especially on high ambient temperatures, HV30 is the perfect valve for Aluminium applications.

Technical data

Industry
Industrial

Activation
Electrically

Working pressure min.
2 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
230 V

Operational voltage AC at 60 Hz
230 V

Voltage tolerance AC 50 Hz
-10% / +10%

Voltage tolerance AC 60 Hz
-10% / +10%

Frame size
ISO 3

Min. ambient temperature
10 °C

Max. ambient temperature
120 °C

Min. medium temperature
10 °C

Max. medium temperature
120 °C

Medium
Compressed air

Max. particle size
5 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Power consumption DC
6 W

Holding power AC 50 Hz
5 VA

Holding power AC 60 Hz
4.2 VA

Duty cycle
100 %

Connector standard
CNOMO / NFE 49-003-1

Protection class with connection
IP65

Weight
0.18 kg

Housing material
polyphenylene sulfide

Seal material
Fluorocaoutchouc

Part No.
R424B12524

Technical information

Max. ambient temperature: +180 °C at 1 hour continuous operation and up to +200 °C at 15 hours standby operation

At an ambient temperature of over 120 °C, the duty cycle is reduced by 50%.

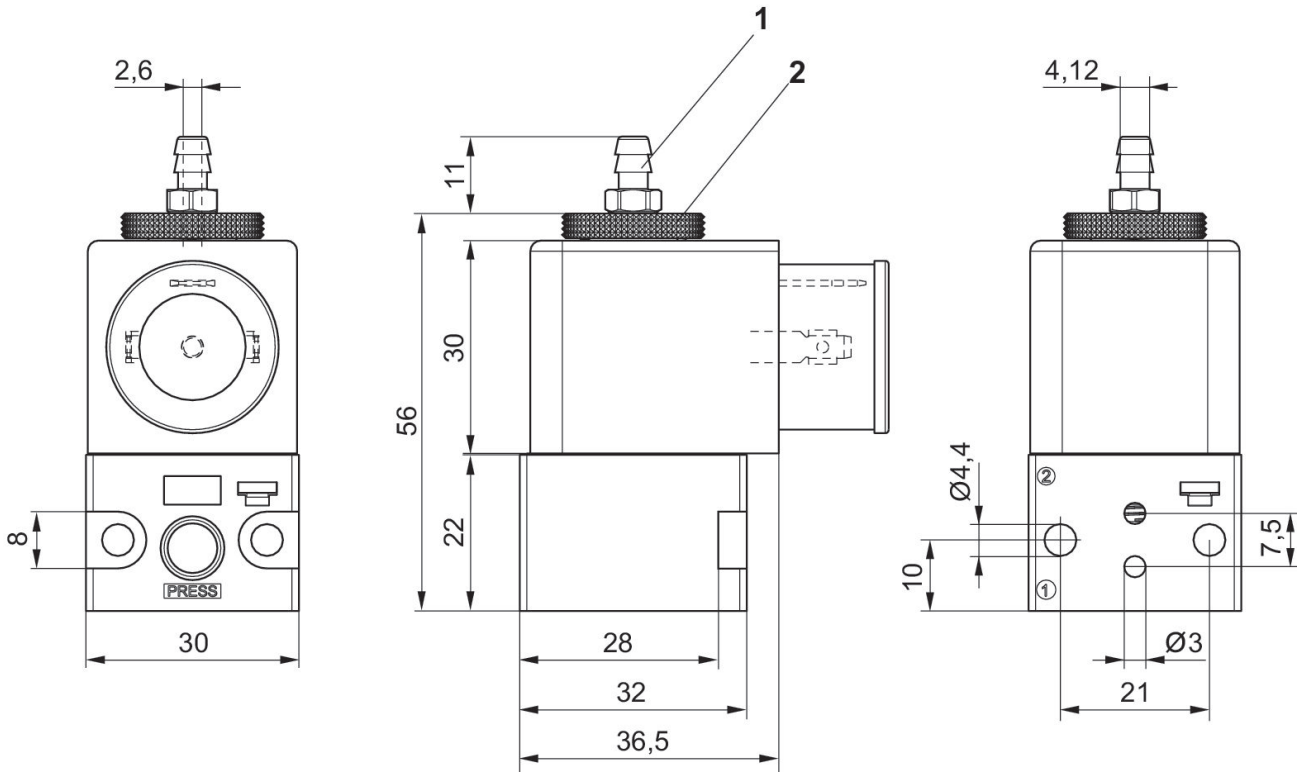
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

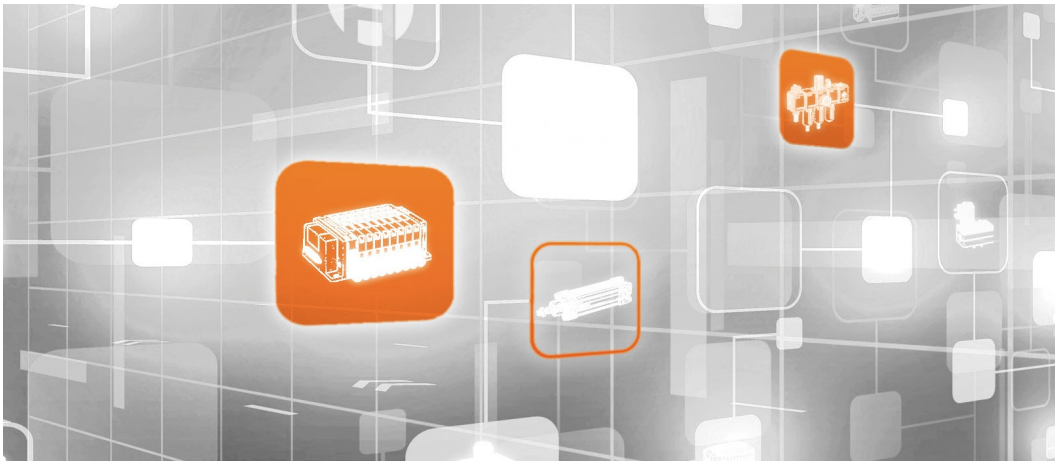
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions in mm



1) Tightening torque: 0.8 Nm ±0.01
2) Tightening torque: 0.4 Nm ±0.01
Scope of delivery: Pressure connection, fluoropolymer tubing Ø6x1

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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