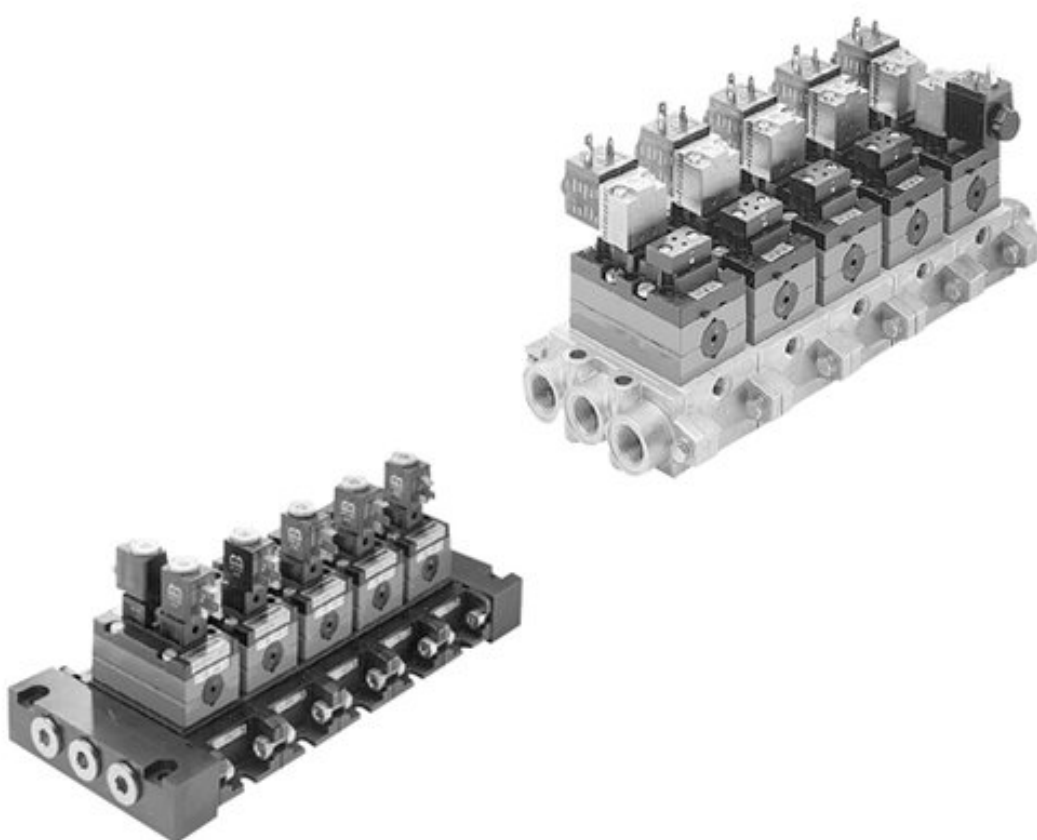


Series 581, size 2

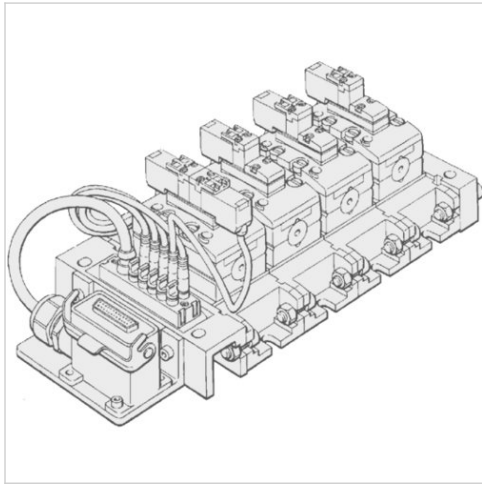


AVENTICS™ Series 581, size 2



Valve system, Series 581, size 2

- Configurable valve systems



Blocking principle
Standards
Working pressure min./max.
Ambient temperature min./max.
Medium
Max. particle size
Oil content of compressed air
Nominal flow Q_n
Number of valve positions max.
Protection class with connection
Voltage tolerance DC

Single base plate principle

ISO 5599-1, ISO 2

-0,95 ... 10 bar

-10 ... 50 °C

Compressed air

50 µm

0 ... 5 mg/m³

2200 l/min

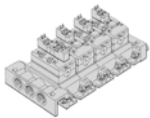
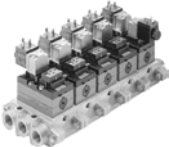
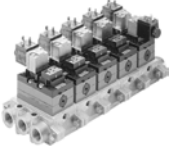
10

IP65 IP67

-10% / +10%

An example configuration is illustrated.
The delivered product may thus deviate from the illustration.

Overview of variants

	Version	You have the following options:
	15 mm pilot valve width	Compressed air connection output Base plate ISO 5599-1 manual override: without detent
	15 mm pilot valve width	Compressed air connection output Base plate ISO 5599-1 Electrical connection Single plug-in wiring electronic connection module and multiple cable manual override: without detent
	22 mm pilot valve width	Compressed air connection output Base plate ISO 5599-1 Electrical connection Single plug-in wiring Valve plug connector form B industry Manual override: with detent
	30 mm CNOMO pilot valve width	Compressed air connection output Base plate ISO 5599-1 Manual override: with detent
	30 mm CNOMO pilot valve width	Compressed air connection output Base plate ISO 5599-1 manual override: without detent
	Pneumatically operated	Compressed air connection output Base plate ISO 5599-1

Technical information

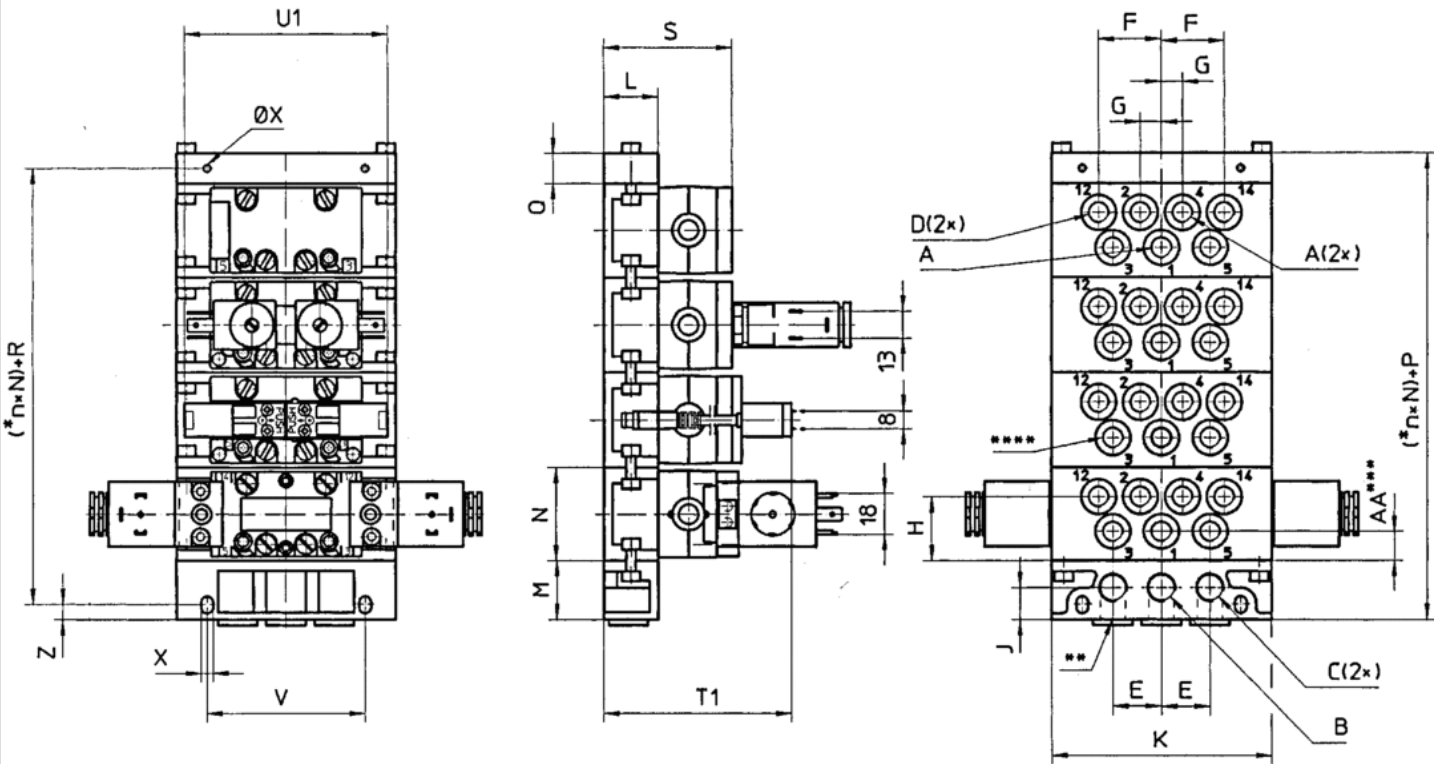
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Plug box	Polyamide fiber-glass reinforced
Seal	Acrylonitrile butadiene rubber

Dimensions

15 mm pilot valve width, electronic connection module and multiple cable, all ports on bottom



Base plate ISO 5599-1

* n = number of subbases.

** Alternative port openings, closed with plugs.

*** Only on subbases with separate intake.

**** Subbase 5801680000 can also be connected to port 3 and 5.

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

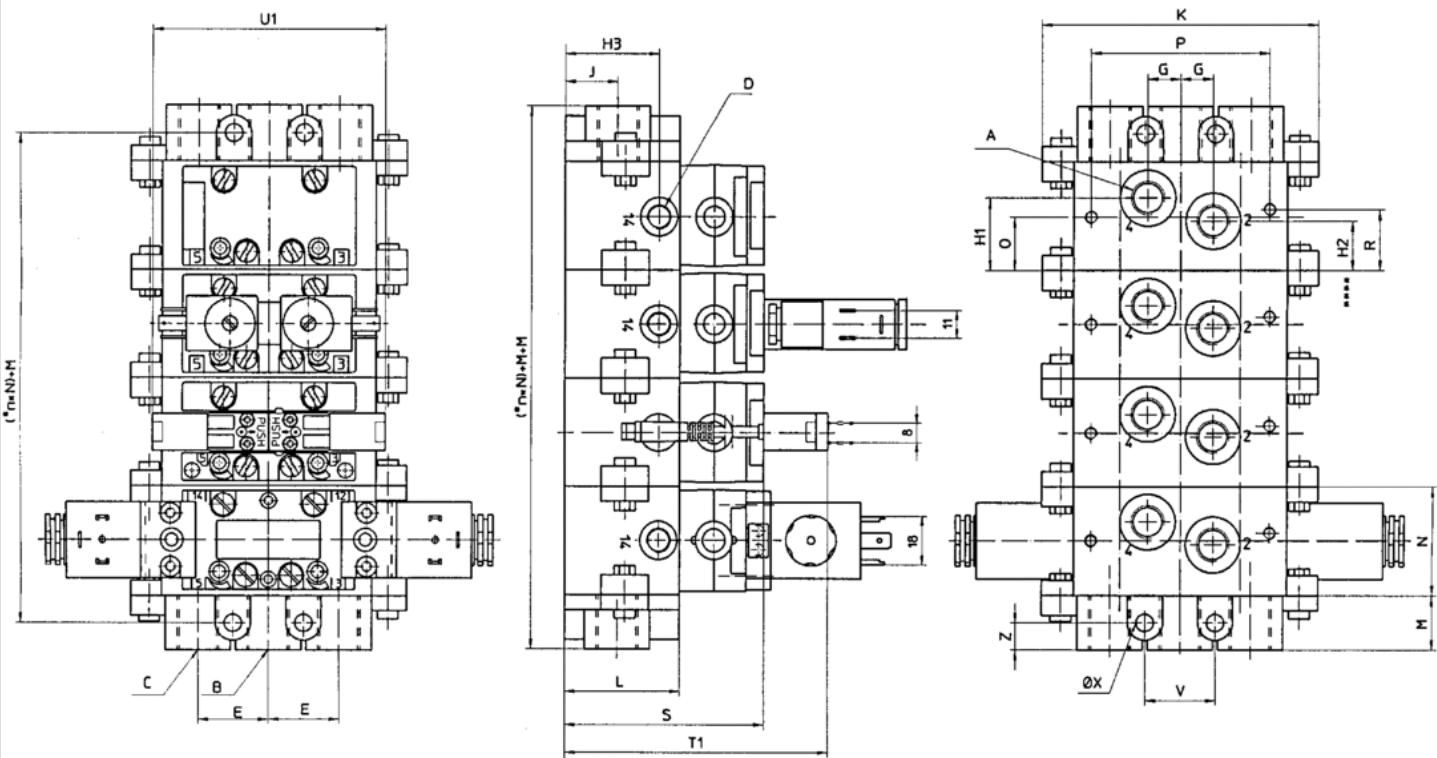
A	G 1/4	G 3/8	Ø 8
B	G 3/8	G 1/2	G 3/8
C	G 3/8	G 1/2	G 3/8

A	G 1/4	G 3/8	Ø 8
D	G 1/8	G 1/8	Ø 6
E	27	36	27
F	39	52	39
G	13.5	17	13.5
H	38	33	38
J	20	22	20
K	122	156	122
L	30	37	30
M	34	39	34
N	56	56	56
P (=M+Q)	49	59	49
Q	15	20	15
R (=Q/2+M-Z)	34	40	34
S	71	80	71
V	94	118	94
X	6.4	8.4	6.4
Z	8	10	10
AA	18	—	—
T1	105	114	105
U1	93	93	93

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

A	G 3/8
B	G 1/2
C	G 1/2
D	G 1/8
E	34
G	15

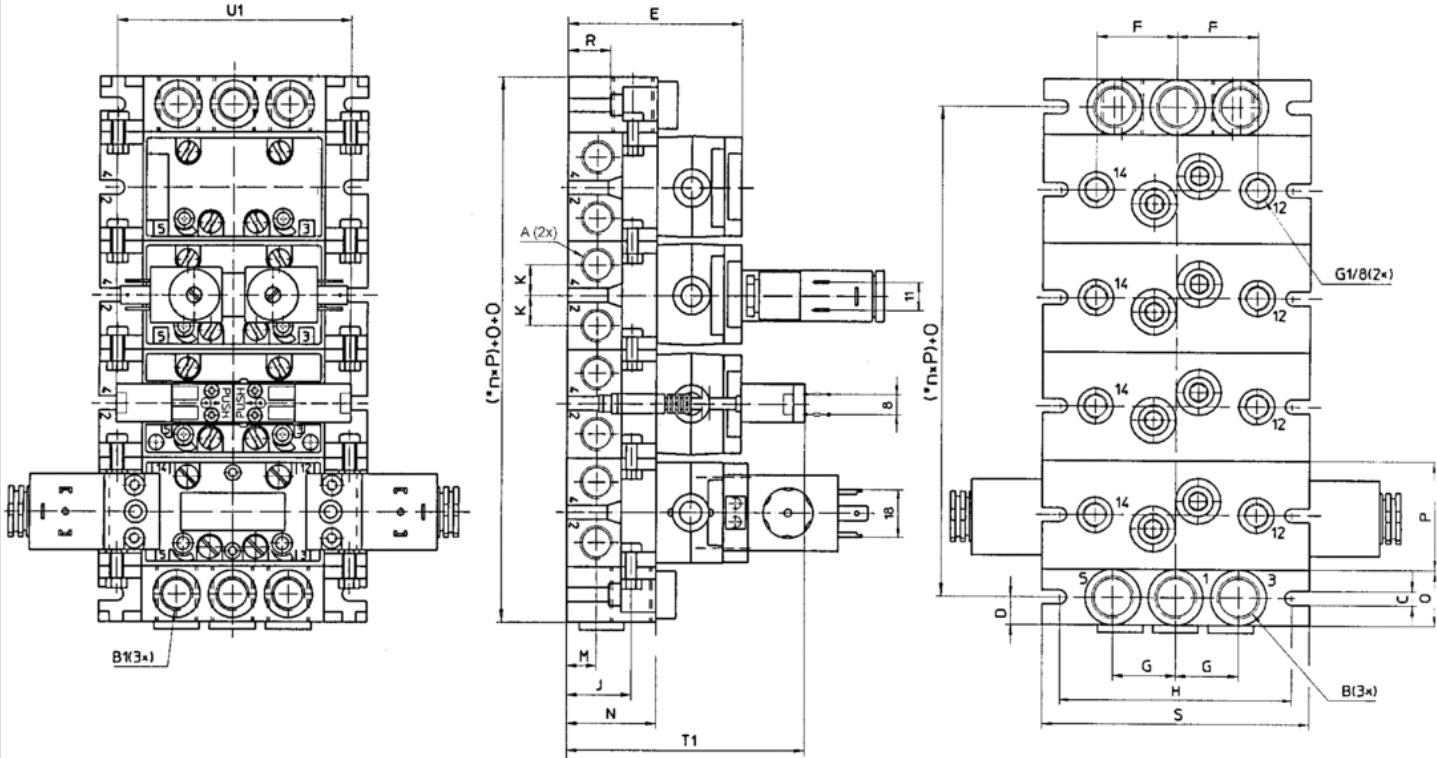
A	G 3/8
H1	34
H2	23
H3	38
J	23
K	135
L	47
M	26
N	56
P	86
Q	28
R	31
S	89
V	35
X	9
Z	13
T1	122
U1	93

* n = Number of subbases

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

Dimensions, ports 2 and 4 on side, ports 12 and 14 on bottom



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

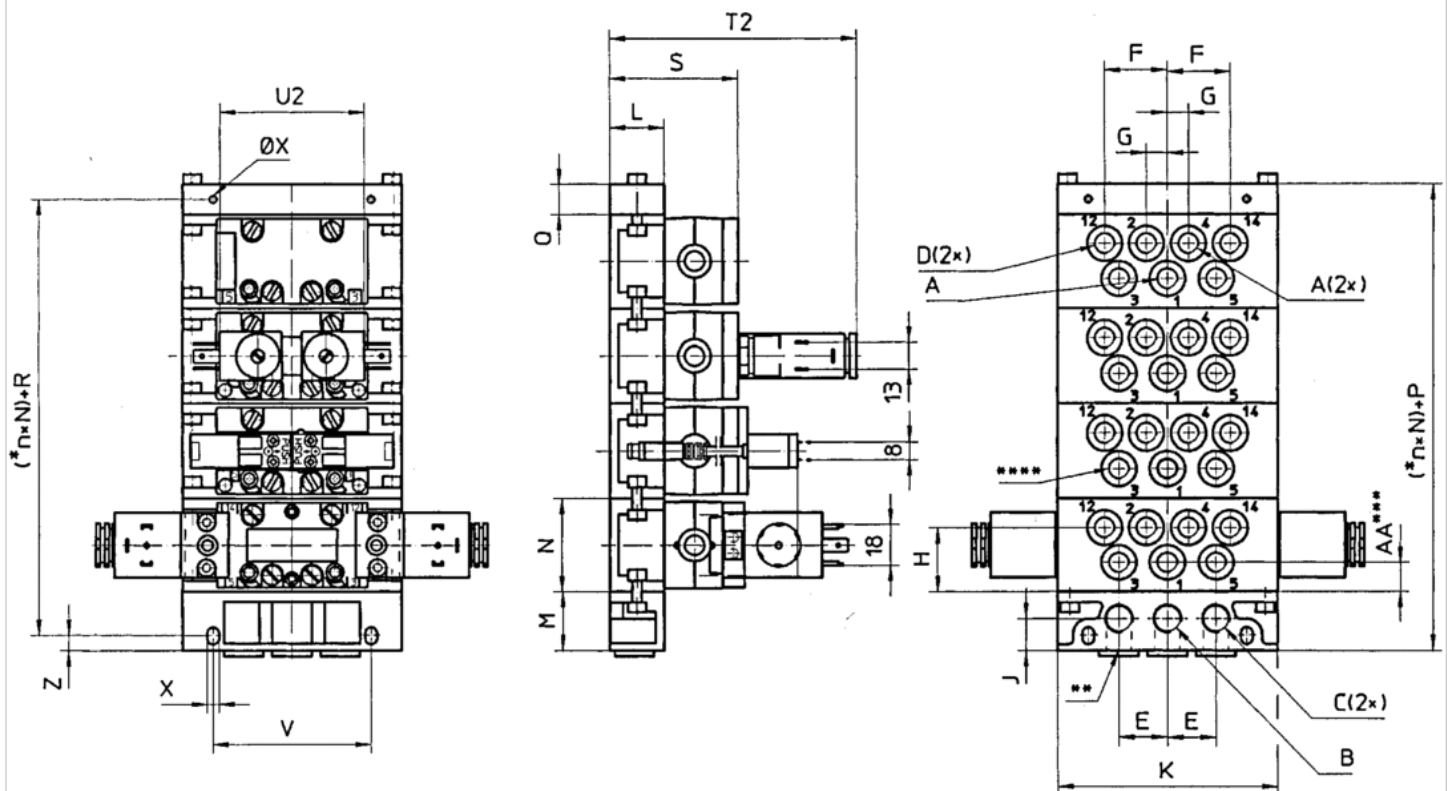
Dimensions

A	G 3/8
B	G 1/2
B1	G 3/8
C	6.5
D	14.5
E	85

A	G 3/8
F	34
G	29
H	102
J	32
R	20
K	15
M	15
N	43
O	29
P	56
S	120
T1	118
U1	93

Dimensions

22 mm pilot valve width, Valve plug connector without standard (form B industry), all ports on bottom



* n = number of subbases.

** Alternative port openings, closed with plugs.

*** Only on subbases with separate intake.

**** Subbase 5801680000 can also be connected to port 3 and 5.

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

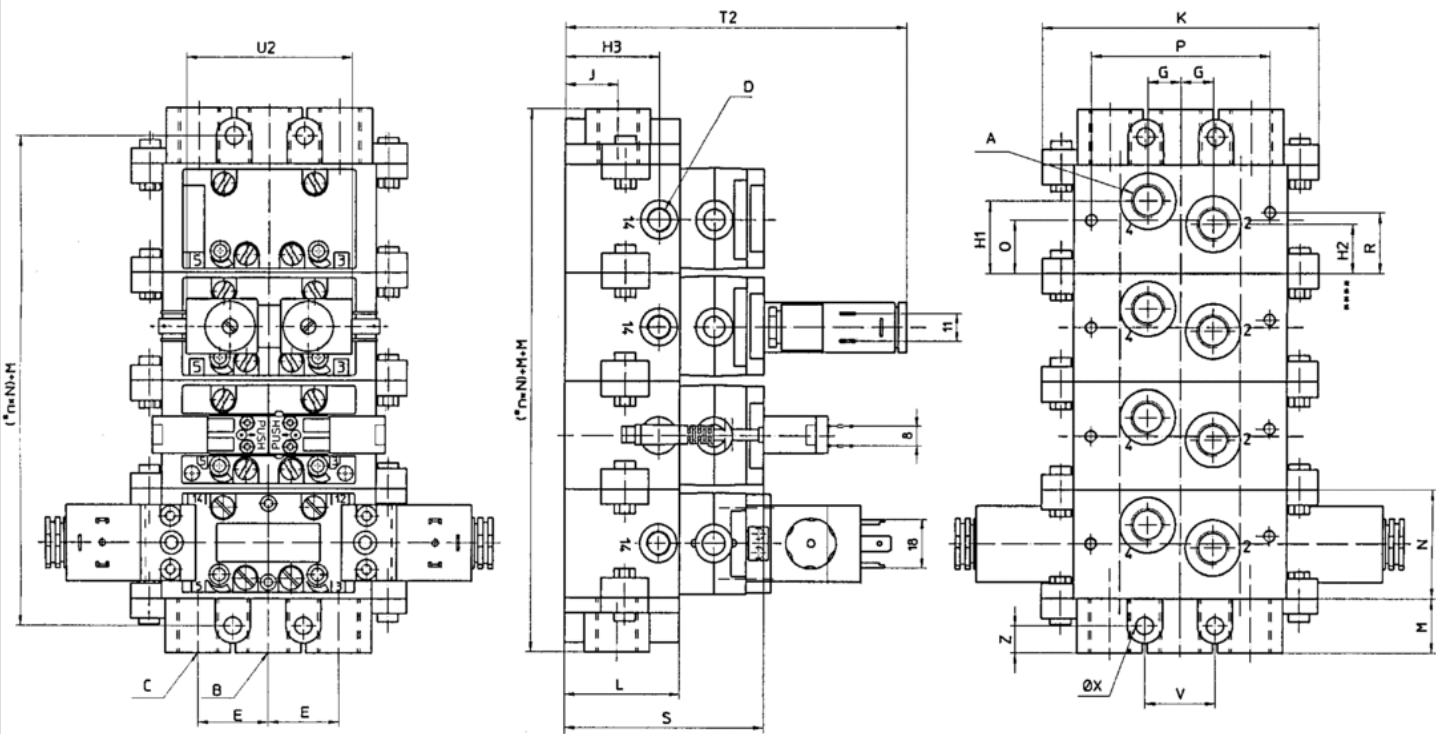
A	B	C	D	E	F	G	H	J	K	L	M	N	P (=M+Q)	Q	R (=Q/2+M-Z)	S	V	X
G 1/4	G 3/8	G 3/8	G 1/8	27	39	13.5	38	20	122	30	34	56	49	15	34	71	94	6.4
G 3/8	G 1/2	G 1/2	G 1/8	36	52	17	33	22	156	37	39	56	59	20	40	80	118	8.4
Ø 8	G 3/8	G 3/8	Ø 6	27	39	13.5	38	20	122	30	34	56	49	15	34	71	94	6.4

Z	AA	T2	U2
8	18	126	68
10	–	135	68
10	–	126	68

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

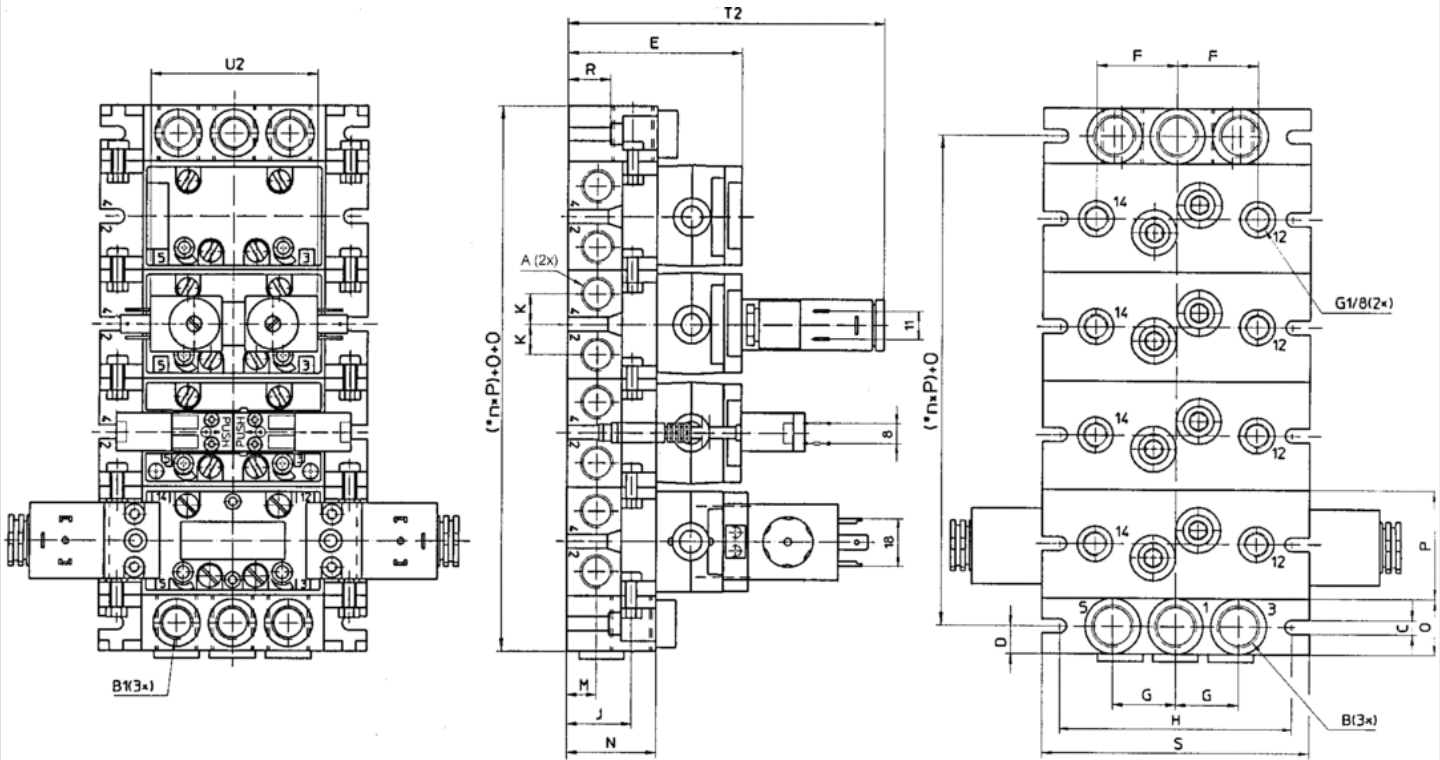
Dimensions

A	G 3/8
B	G 1/2
C	G 1/2
D	G 1/8
E	34
G	15

A	G 3/8
H1	34
H2	23
H3	38
J	23
K	135
L	47
M	26
N	56
P	86
Q	28
R	31
S	89
V	35
X	9
Z	13
T2	143
U2	68

Dimensions

Dimensions, ports 2 and 4 on side, ports 12 and 14 on bottom



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

A	G 3/8
B	G 1/2
B1	G 3/8
C	6.5
D	14.5
E	85

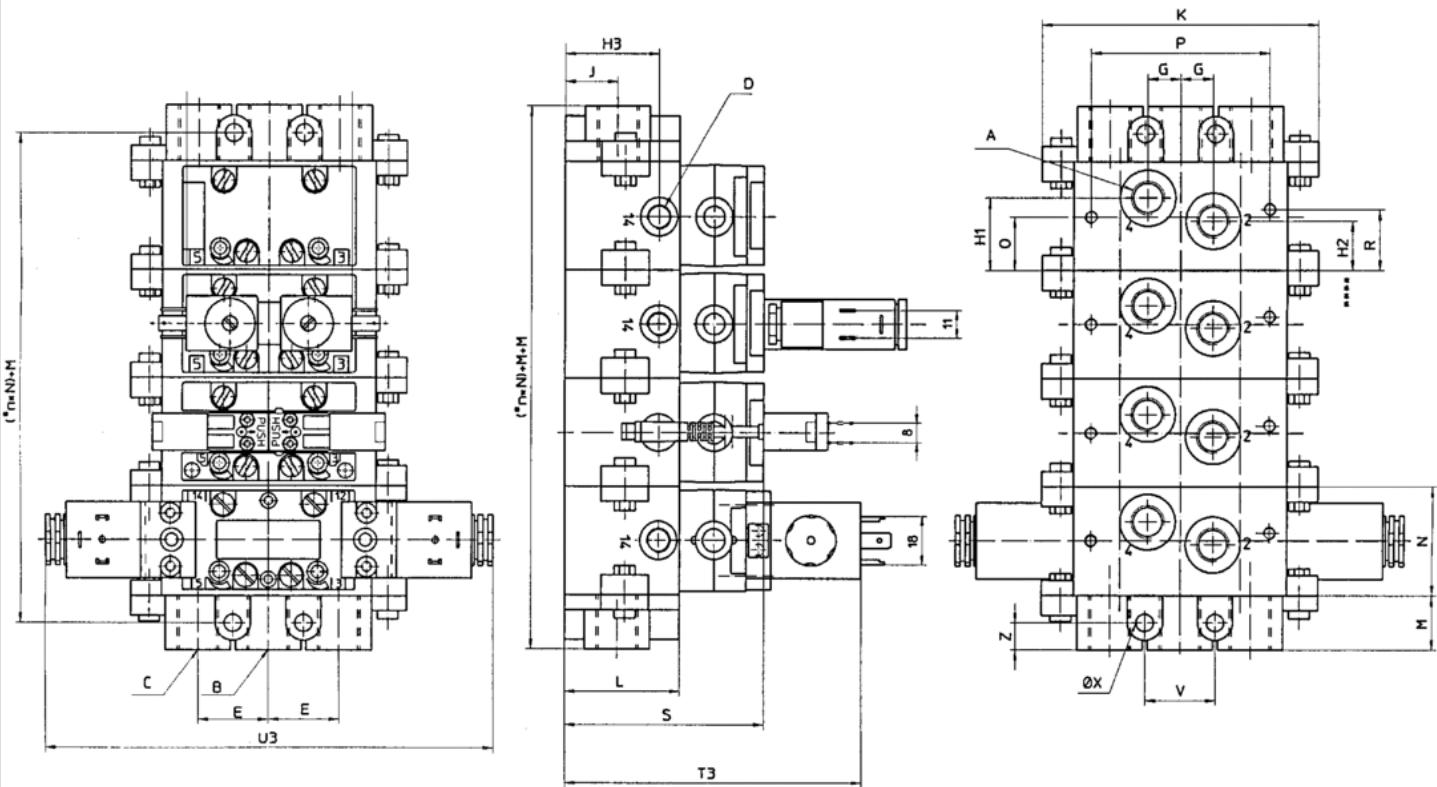
A	G 3/8
F	34
G	29
H	102
J	32
R	20
K	15
M	15
N	43
O	29
P	56
S	120
T2	139
U2	68

A	G 1/4	G 3/8	Ø 8
D	G 1/8	G 1/8	Ø 6
E	27	36	27
F	39	52	39
G	13.5	17	13.5
H	38	33	38
J	20	22	20
K	122	156	122
L	30	37	30
M	34	39	34
N	56	56	56
P (=M+Q)	49	59	49
Q	15	20	15
R (=Q/2+M-Z)	34	40	34
S	71	80	71
V	94	118	94
X	6.4	8.4	6.4
Z	8	10	10
AA	18	–	–
T3	114	121	114
U3	132	132	176

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

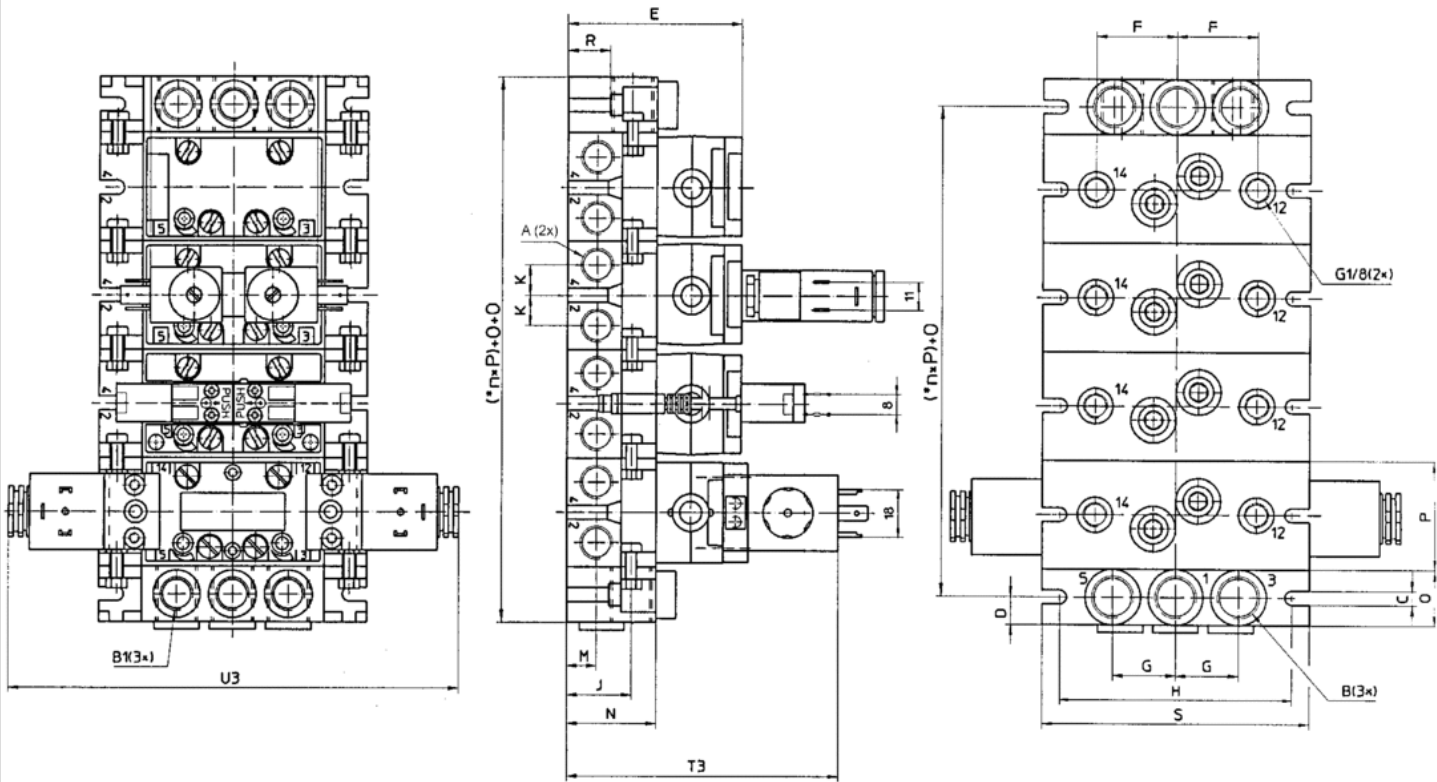
Dimensions

A	G 3/8
B	G 1/2
C	G 1/2
D	G 1/8
E	34
G	15

A	G 3/8
H1	34
H2	23
H3	38
J	23
K	135
L	47
M	26
N	56
P	86
Q	28
R	31
S	89
V	35
X	9
Z	13
T3	129
U3	132

Dimensions

Dimensions, ports 2 and 4 on side, ports 12 and 14 on bottom



* n = Number of subbases
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

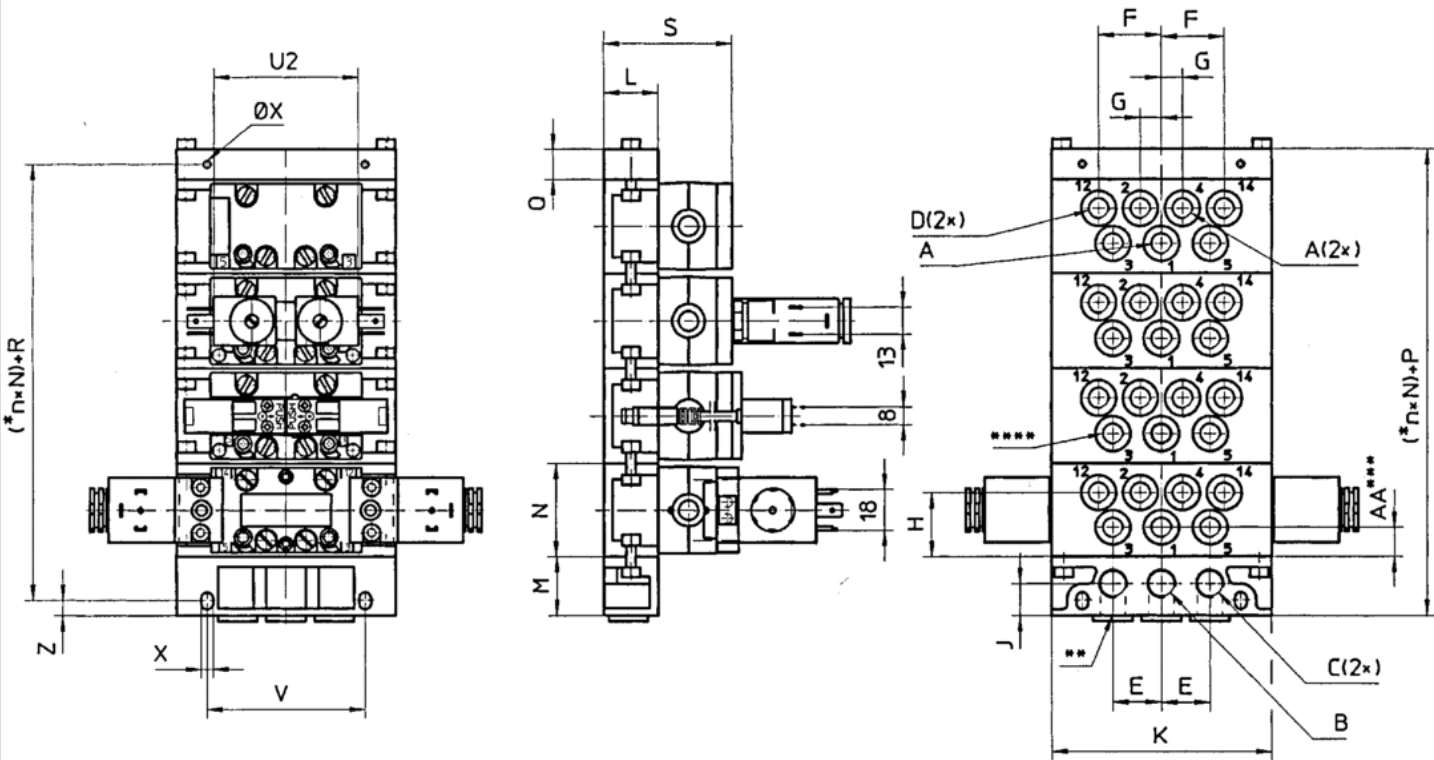
Dimensions

A	G 3/8
B	G 1/2
B1	G 3/8
C	6.5
D	14.5
E	85

A	G 3/8
F	34
G	29
H	102
J	32
R	20
K	15
M	15
N	43
O	29
P	56
S	120
T3	127
U3	132

Dimensions

Pneumatically operated, all ports on bottom



* n = number of subbases.
 ** Alternative port openings, closed with plugs.
 *** Only on subbases with separate intake.
 **** Subbase 5801680000 can also be connected to port 3 and 5.
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

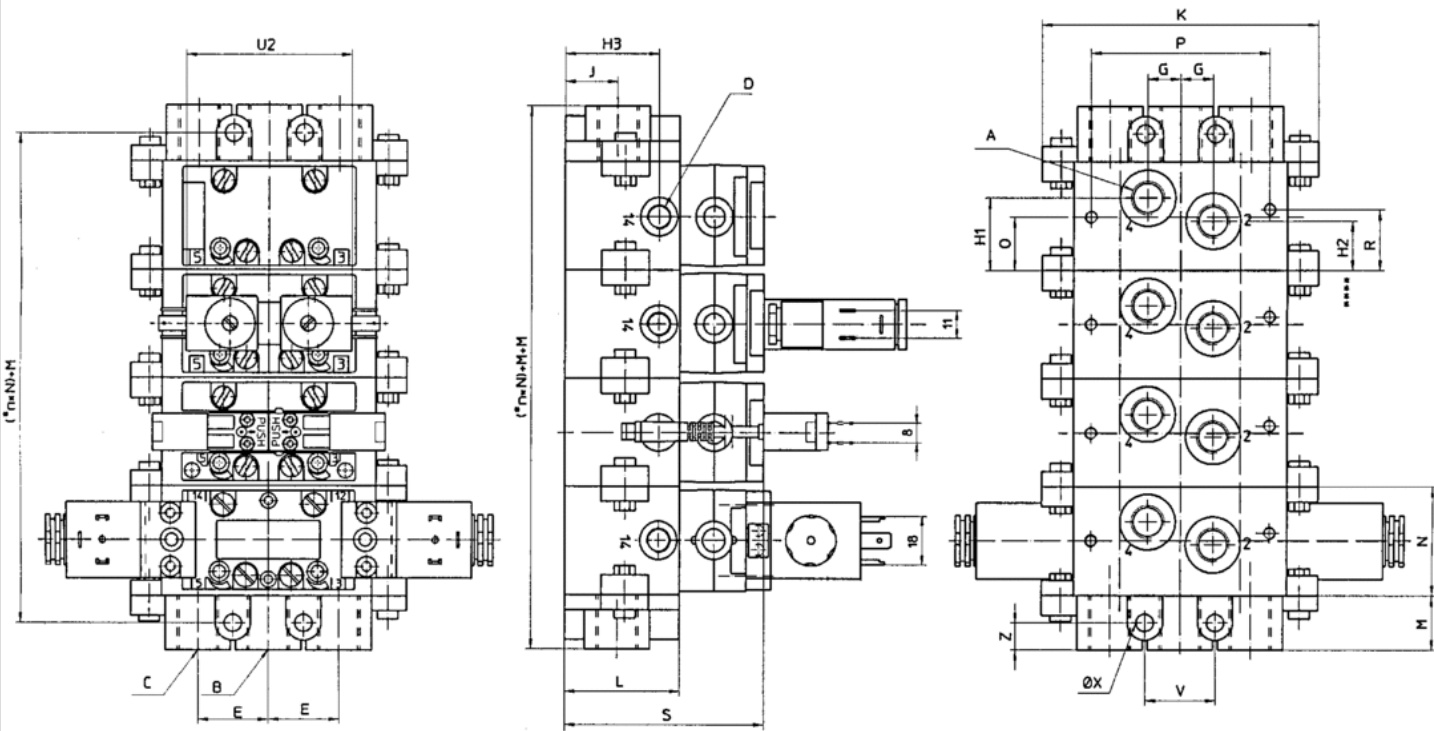
A	G 1/4	G 3/8	Ø 8
B	G 3/8	G 1/2	G 3/8
C	G 3/8	G 1/2	G 3/8
D	G 1/8	G 1/8	Ø 6

A	G 1/4	G 3/8	Ø 8
E	27	36	27
F	39	52	39
G	13.5	17	13.5
H	38	33	38
J	20	22	20
K	122	156	122
L	30	37	30
M	34	39	34
N	56	56	56
P (=M+Q)	49	59	49
Q	15	20	15
R (=Q/2+M-Z)	34	40	34
S	71	80	71
V	94	118	94
X	6.4	8.4	6.4
Z	8	10	10
AA	18	–	–
U2	68	68	68

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

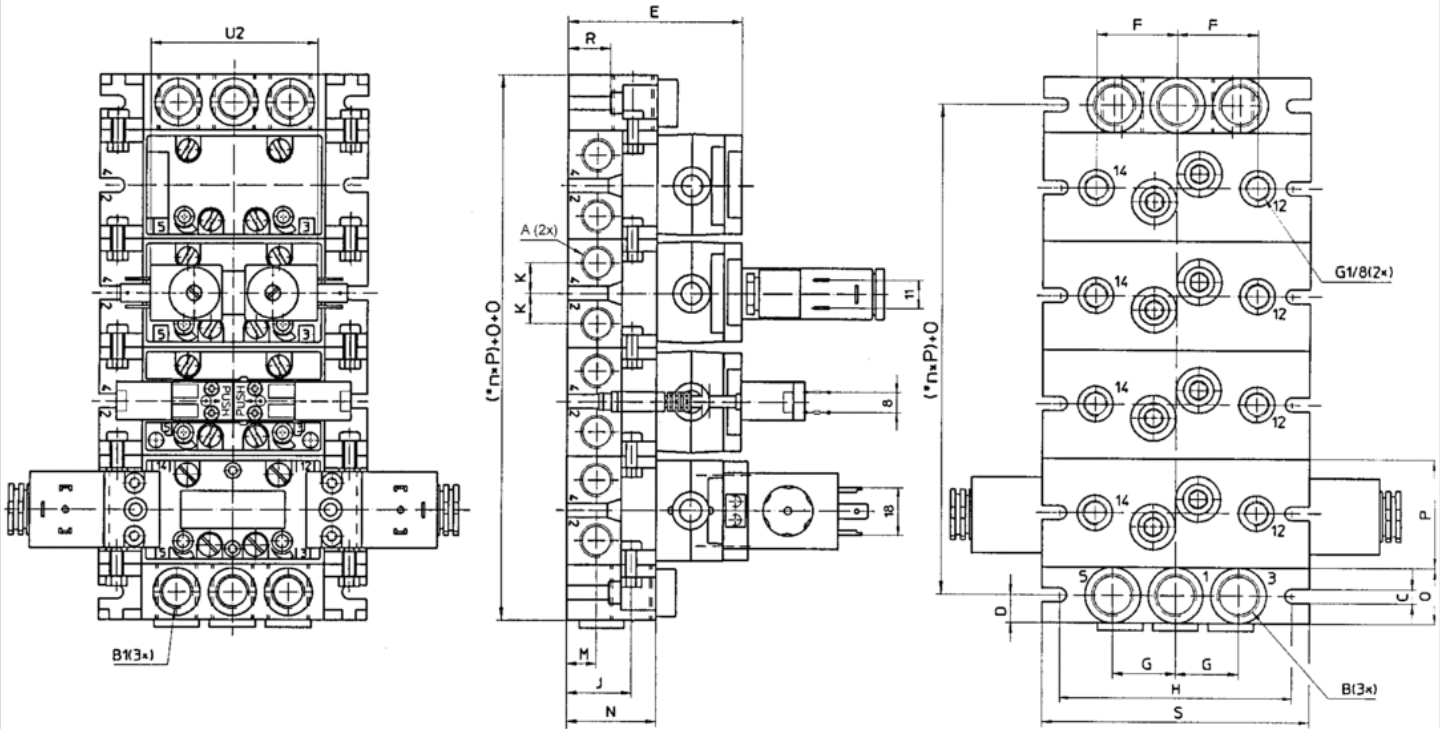
Dimensions

A	G 3/8
B	G 1/2
C	G 1/2
D	G 1/8
E	34
G	15

A	G 3/8
H1	34
H2	23
H3	38
J	23
K	135
L	47
M	26
N	56
P	86
Q	28
R	31
S	89
V	35
X	9
Z	13
U2	68

Dimensions

Dimensions, ports 2 and 4 on side, ports 12 and 14 on bottom



* n = Number of subbases
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

A	G 3/8
B	G 1/2
B1	G 3/8
C	6.5
D	14.5
E	85

A	G 3/8
F	34
G	29
H	102
J	32
R	20
K	15
M	15
N	43
O	29
P	56
S	120
U2	68

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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,3 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812150130			24 V	-10% / +10%
5812151130			24 V	-10% / +10%
5812152130			24 V	-10% / +10%
5812153130			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5812150130	2 W	Internal	3 ... 10 bar
5812151130	2 W	Internal	3 ... 10 bar
5812152130	2 W	External	-0,95 ... 10 bar
5812153130	2 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812150130	Plug ISO 15217, form C	-
5812151130	Plug ISO 15217, form C	with throttle
5812152130	Plug ISO 15217, form C	-
5812153130	Plug ISO 15217, form C	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

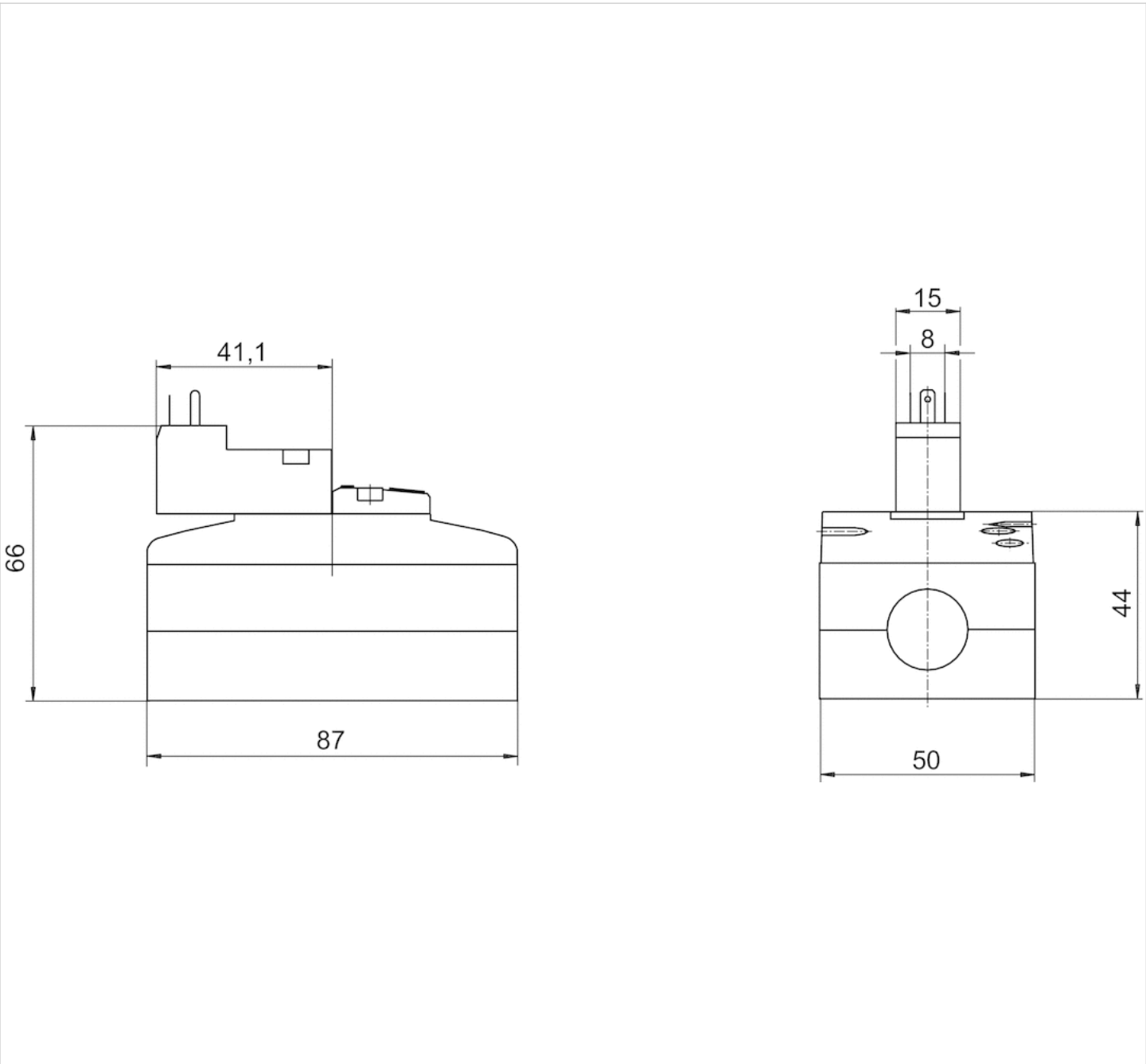
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	13 ms
Typ. switch-off time	13 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,33 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812260130			24 V	-10% / +10%
5812261130			24 V	-10% / +10%
5812262130			24 V	-10% / +10%
5812263130			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5812260130	2 W	Internal	1,5 ... 10 bar
5812261130	2 W	Internal	1,5 ... 10 bar
5812262130	2 W	External	-0,95 ... 10 bar
5812263130	2 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812260130	Plug ISO 15217, form C	-
5812261130	Plug ISO 15217, form C	with throttle
5812262130	Plug ISO 15217, form C	-
5812263130	Plug ISO 15217, form C	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

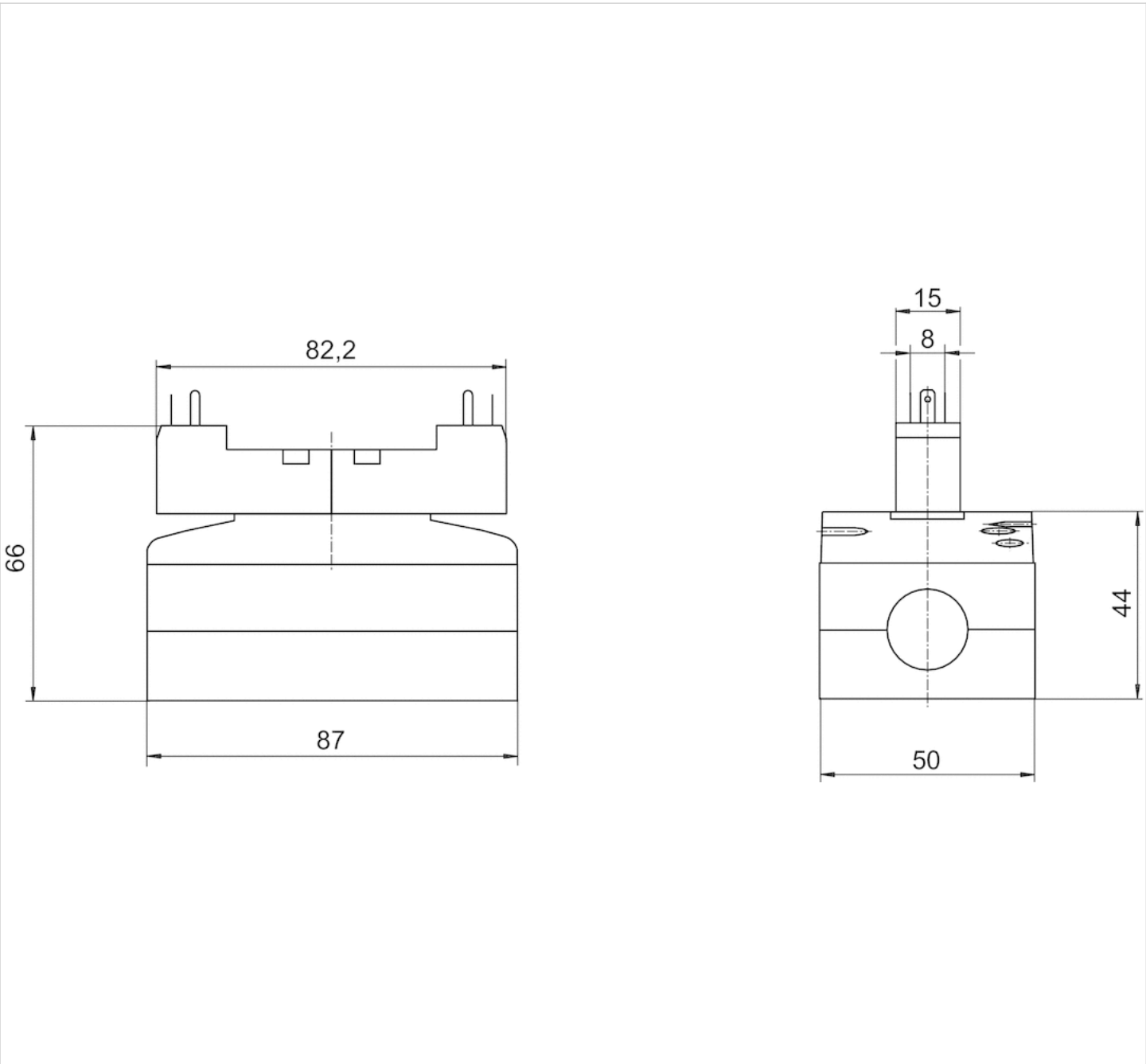
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,33 kg

Technical data

Part No.		MO			Operational voltage DC
5812460130				closed center	24 V
5812461130				closed center	24 V
5812462130				closed center	24 V
5812463130				closed center	24 V
5812560130				exhausted center	24 V
5812561130				exhausted center	24 V
5812562130				exhausted center	24 V
5812563130				exhausted center	24 V
5812760130				pressurized center	24 V
5812761130				pressurized center	24 V
5812762130				pressurized center	24 V
5812763130				pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Working pressure min./max.
5812460130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812461130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812462130	-10% / +10%	2 W	External	-0,95 ... 10 bar
5812463130	-10% / +10%	2 W	External	-0,95 ... 10 bar
5812560130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812561130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812562130	-10% / +10%	2 W	External	-0,95 ... 10 bar
5812563130	-10% / +10%	2 W	External	-0,95 ... 10 bar
5812760130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812761130	-10% / +10%	2 W	Internal	3 ... 10 bar
5812762130	-10% / +10%	2 W	External	-0,95 ... 10 bar
5812763130	-10% / +10%	2 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812460130	Plug ISO 15217, form C	-
5812461130	Plug ISO 15217, form C	with throttle
5812462130	Plug ISO 15217, form C	-
5812463130	Plug ISO 15217, form C	with throttle
5812560130	Plug ISO 15217, form C	-
5812561130	Plug ISO 15217, form C	with throttle
5812562130	Plug ISO 15217, form C	-
5812563130	Plug ISO 15217, form C	with throttle
5812760130	Plug ISO 15217, form C	-
5812761130	Plug ISO 15217, form C	with throttle
5812762130	Plug ISO 15217, form C	-
5812763130	Plug ISO 15217, form C	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

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

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

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

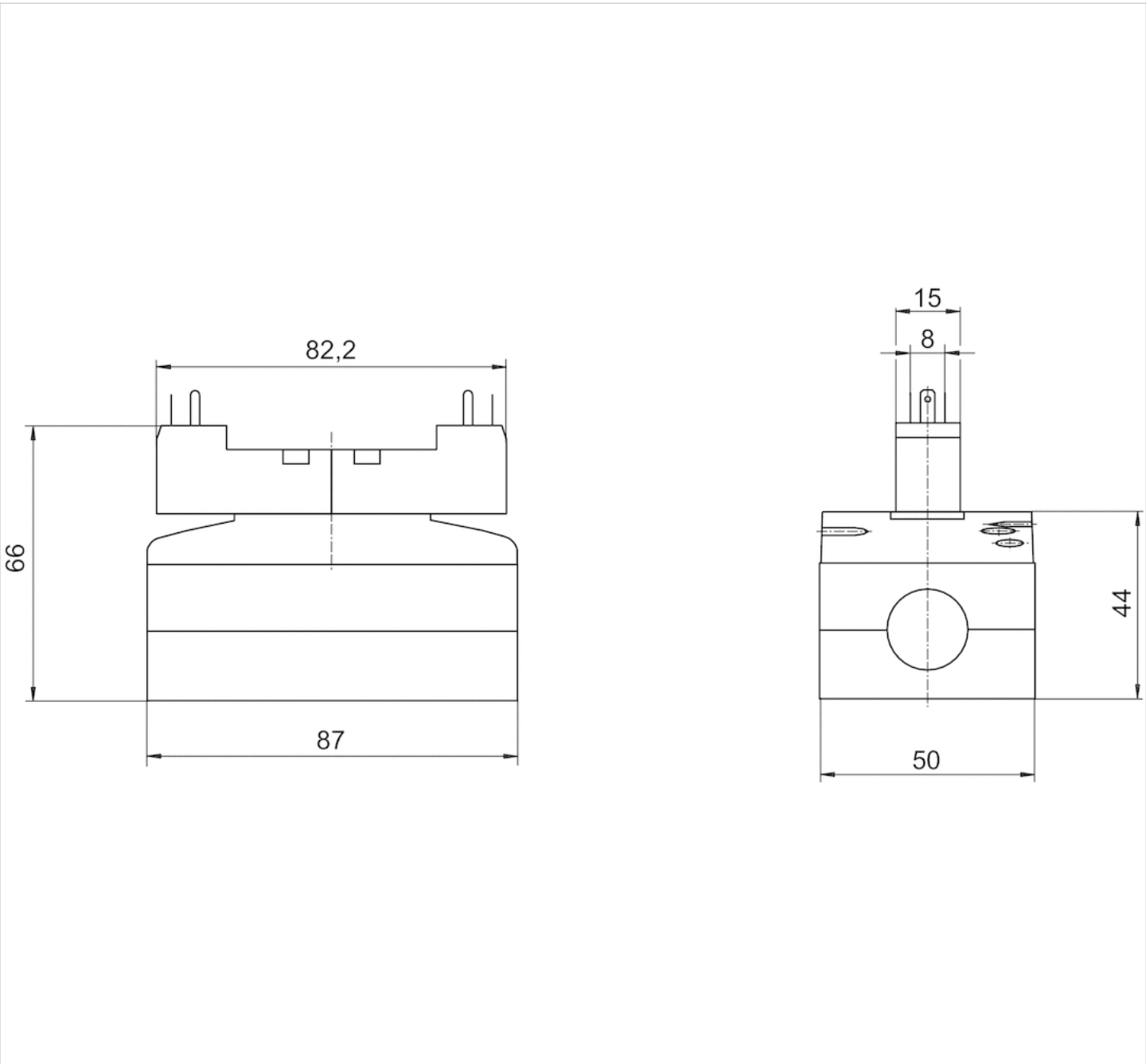
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP67
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Green
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,3 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812150160			24 V	-10% / +10%
5812151160			24 V	-10% / +10%
5812152160			24 V	-10% / +10%
5812153160			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5812150160	2,2 W	Internal	3 ... 10 bar	0,5 m

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5812151160	2,2 W	Internal	3 ... 10 bar	0,5 m
5812152160	2,2 W	External	-0,95 ... 10 bar	0,5 m
5812153160	2,2 W	External	-0,95 ... 10 bar	0,5 m

Part No.	Electrical connection Pilot valve	Protected against polarity reversal	Throttle
5812150160	Plug 3-pin	Protected against polarity reversal	-
5812151160	Plug 3-pin	Protected against polarity reversal	with throttle
5812152160	Plug 3-pin	Protected against polarity reversal	-
5812153160	Plug 3-pin	Protected against polarity reversal	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

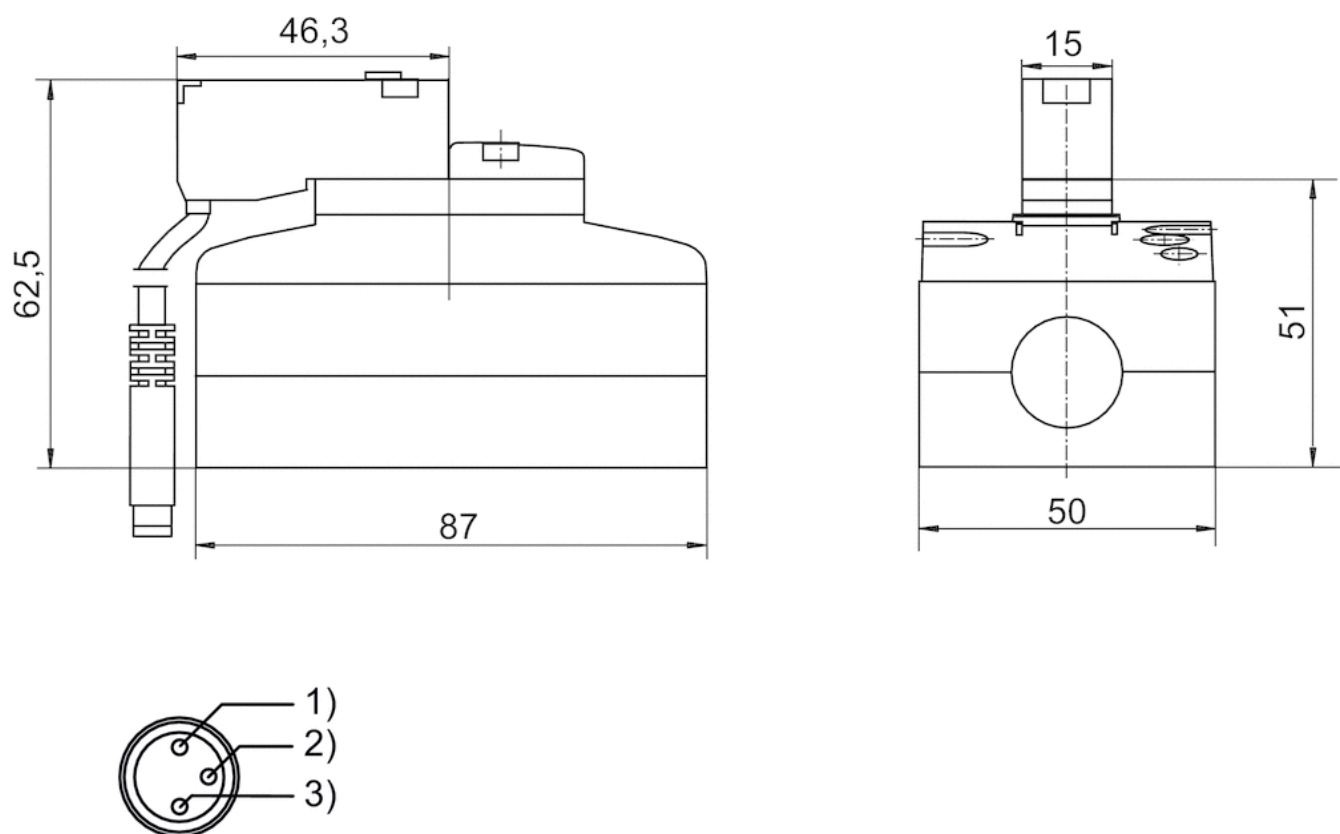
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Pin assignment

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

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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP67
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Green
Duty cycle	100 %
Typ. switch-on time	13 ms
Typ. switch-off time	13 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,33 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812260160			24 V	-10% / +10%
5812261160			24 V	-10% / +10%
5812262160			24 V	-10% / +10%
5812263160			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5812260160	2,2 W	Internal	1,5 ... 10 bar	0,5 m
5812261160	2,2 W	Internal	1,5 ... 10 bar	0,5 m

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5812262160	2,2 W	External	-0,95 ... 10 bar	0,5 m
5812263160	2,2 W	External	-0,95 ... 10 bar	0,5 m

Part No.	Electrical connection Pilot valve	Protected against polarity reversal	Throttle
5812260160	Plug 3-pin	Protected against polarity reversal	-
5812261160	Plug 3-pin	Protected against polarity reversal	with throttle
5812262160	Plug 3-pin	Protected against polarity reversal	-
5812263160	Plug 3-pin	Protected against polarity reversal	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

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

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

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

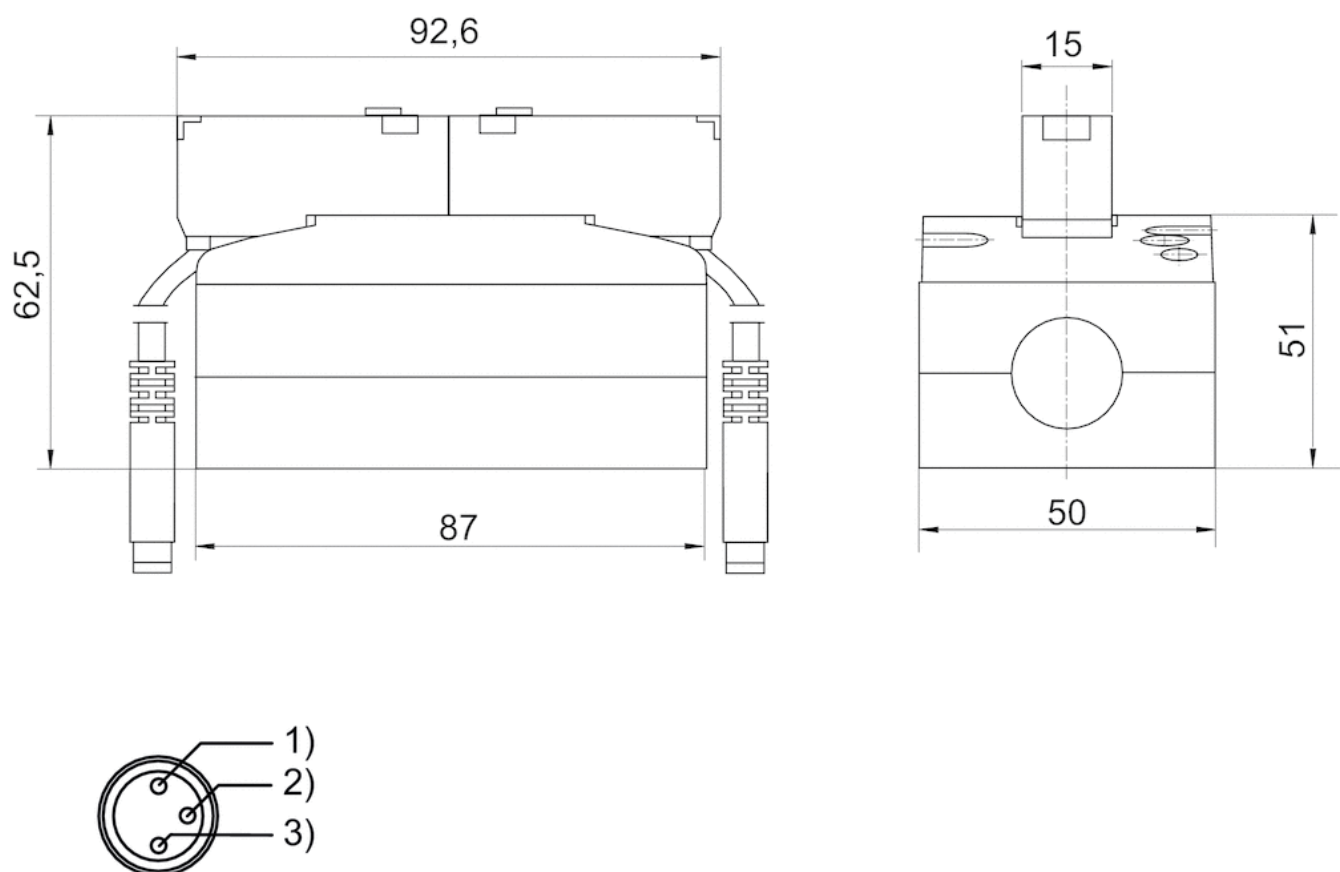
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Pin assignment

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

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

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP67
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Green
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,33 kg

Technical data

Part No.		MO		Operational voltage DC
5812460160			closed center	24 V
5812461160			closed center	24 V
5812462160			closed center	24 V
5812463160			closed center	24 V
5812560160			exhausted center	24 V
5812561160			exhausted center	24 V
5812562160			exhausted center	24 V
5812563160			exhausted center	24 V
5812760160			pressurized center	24 V
5812761160			pressurized center	24 V
5812762160			pressurized center	24 V
5812763160			pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Working pressure min./max.
5812460160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812461160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812462160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar
5812463160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar
5812560160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812561160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812562160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar
5812563160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar
5812760160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812761160	-10% / +10%	2,2 W	Internal	3 ... 10 bar
5812762160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar
5812763160	-10% / +10%	2,2 W	External	-0,95 ... 10 bar

Part No.	Cable length	Electrical connection Pilot valve	Protected against polarity reversal
5812460160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812461160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812462160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812463160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812560160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812561160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812562160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812563160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812760160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812761160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812762160	0,5 m	Plug 3-pin	Protected against polarity reversal
5812763160	0,5 m	Plug 3-pin	Protected against polarity reversal

Part No.	Throttle
5812460160	-
5812461160	with throttle
5812462160	-
5812463160	with throttle
5812560160	-
5812561160	with throttle
5812562160	-
5812563160	with throttle
5812760160	-
5812761160	with throttle
5812762160	-
5812763160	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

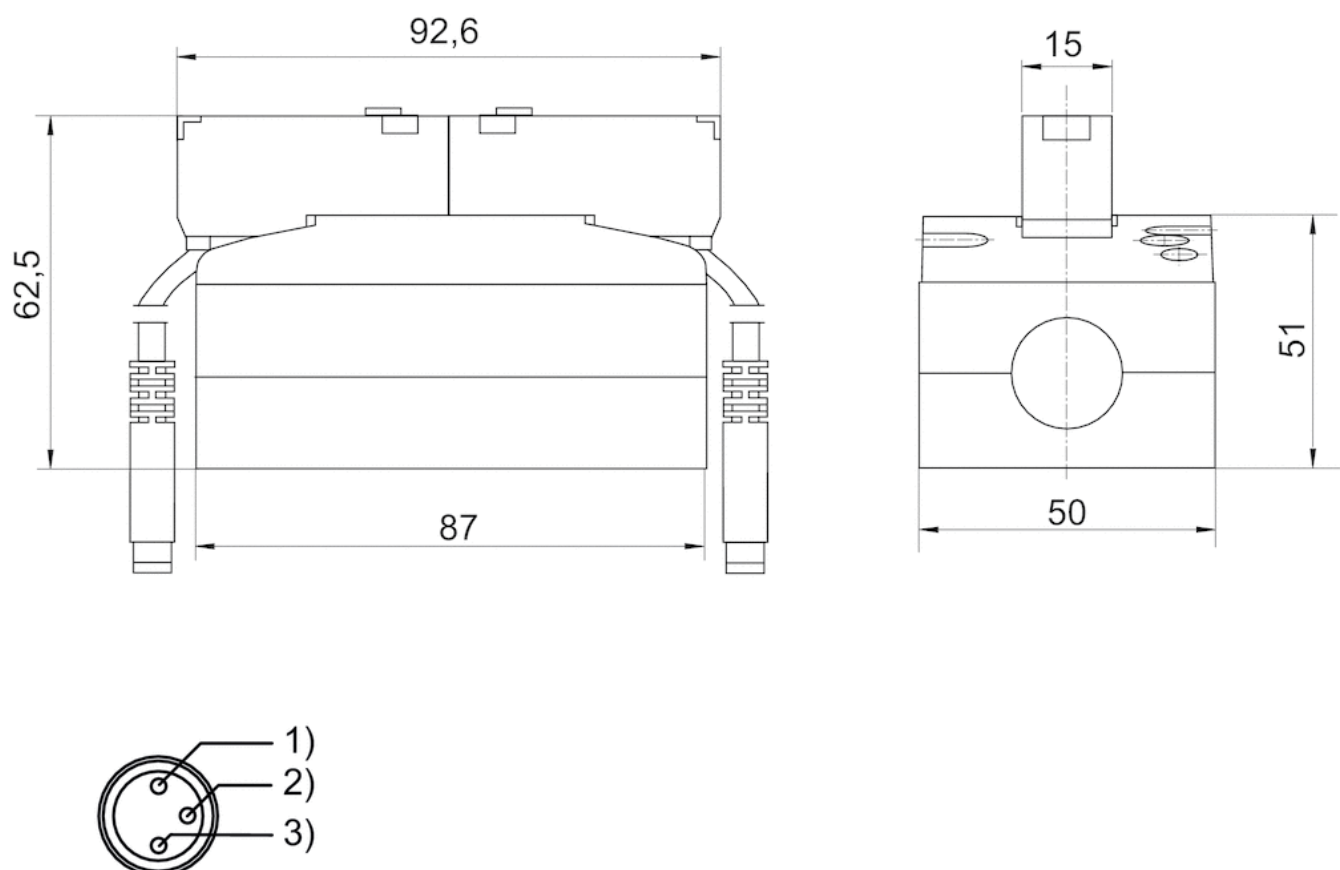
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Pin assignment

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

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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	46 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,34 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812110500			12 V	-
5812110200			-	24 V
5812110100			24 V	-
5812110600			48 V	-
5812110300			-	-
5812110400			-	230 V
5812110000			-	-
5812111500			12 V	-
5812111200			-	24 V
5812111100			24 V	-
5812111600			48 V	-
5812111300			-	-
5812111400			-	230 V
5812111000			-	-
5812112500			12 V	-
5812112200			-	24 V
5812112100			24 V	-
5812112600			48 V	-
5812112300			-	-
5812112400			-	230 V
5812112000			-	-
5812113500			12 V	-
5812113200			-	24 V
5812113100			24 V	-
5812113600			48 V	-
5812113300			-	-
5812113400			-	230 V
5812113000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812110500	-	-10% / +10%	-	-
5812110200	-	-	-10% / +10%	-
5812110100	-	-10% / +10%	-	-
5812110600	-	-10% / +10%	-	-
5812110300	110 V	-	-	-10% / +10%
5812110400	-	-	-10% / +10%	-
5812110000	-	-	-	-
5812111500	-	-10% / +10%	-	-
5812111200	-	-	-10% / +10%	-
5812111100	-	-10% / +10%	-	-
5812111600	-	-10% / +10%	-	-
5812111300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812111400	-	-	-10% / +10%	-
5812111000	-	-	-	-
5812112500	-	-10% / +10%	-	-
5812112200	-	-	-10% / +10%	-
5812112100	-	-10% / +10%	-	-
5812112600	-	-10% / +10%	-	-
5812112300	110 V	-	-	-10% / +10%
5812112400	-	-	-10% / +10%	-
5812112000	-	-	-	-
5812113500	-	-10% / +10%	-	-
5812113200	-	-	-10% / +10%	-
5812113100	-	-10% / +10%	-	-
5812113600	-	-10% / +10%	-	-
5812113300	110 V	-	-	-10% / +10%
5812113400	-	-	-10% / +10%	-
5812113000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5812110500	5 W	-	-	-
5812110200	-	8 VA	-	10 VA
5812110100	5 W	-	-	-
5812110600	5 W	-	-	-
5812110300	-	-	8 VA	-
5812110400	-	8 VA	-	10 VA
5812110000	-	-	-	-
5812111500	5 W	-	-	-
5812111200	-	8 VA	-	10 VA
5812111100	5 W	-	-	-
5812111600	5 W	-	-	-
5812111300	-	-	8 VA	-
5812111400	-	8 VA	-	10 VA
5812111000	-	-	-	-
5812112500	5 W	-	-	-
5812112200	-	8 VA	-	10 VA
5812112100	5 W	-	-	-
5812112600	5 W	-	-	-
5812112300	-	-	8 VA	-
5812112400	-	8 VA	-	10 VA
5812112000	-	-	-	-
5812113500	5 W	-	-	-
5812113200	-	8 VA	-	10 VA
5812113100	5 W	-	-	-
5812113600	5 W	-	-	-
5812113300	-	-	8 VA	-
5812113400	-	8 VA	-	10 VA
5812113000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5812110500	-	Internal	3 ... 10 bar	Plug Form B, industry
5812110200	-	Internal	3 ... 10 bar	Plug Form B, industry
5812110100	-	Internal	3 ... 10 bar	Plug Form B, industry
5812110600	-	Internal	3 ... 10 bar	Plug Form B, industry
5812110300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5812110400	-	Internal	3 ... 10 bar	Plug Form B, industry
5812110000	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111500	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111200	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111100	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111600	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5812111400	-	Internal	3 ... 10 bar	Plug Form B, industry
5812111000	-	Internal	3 ... 10 bar	Plug Form B, industry
5812112500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812112200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812112100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812112600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812112300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812112400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812112000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812113400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812113000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812110500	-	-
5812110200	-	-
5812110100	-	-
5812110600	-	-
5812110300	-	-
5812110400	-	-
5812110000	Basic valve without coil	-
5812111500	-	with throttle
5812111200	-	with throttle
5812111100	-	with throttle
5812111600	-	with throttle
5812111300	-	with throttle
5812111400	-	with throttle
5812111000	Basic valve without coil	with throttle
5812112500	-	-
5812112200	-	-

Part No.	basic valve with electrical connector	Throttle
5812112100	-	-
5812112600	-	-
5812112300	-	-
5812112400	-	-
5812112000	Basic valve without coil	-
5812113500	-	with throttle
5812113200	-	with throttle
5812113100	-	with throttle
5812113600	-	with throttle
5812113300	-	with throttle
5812113400	-	with throttle
5812113000	Basic valve without coil	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

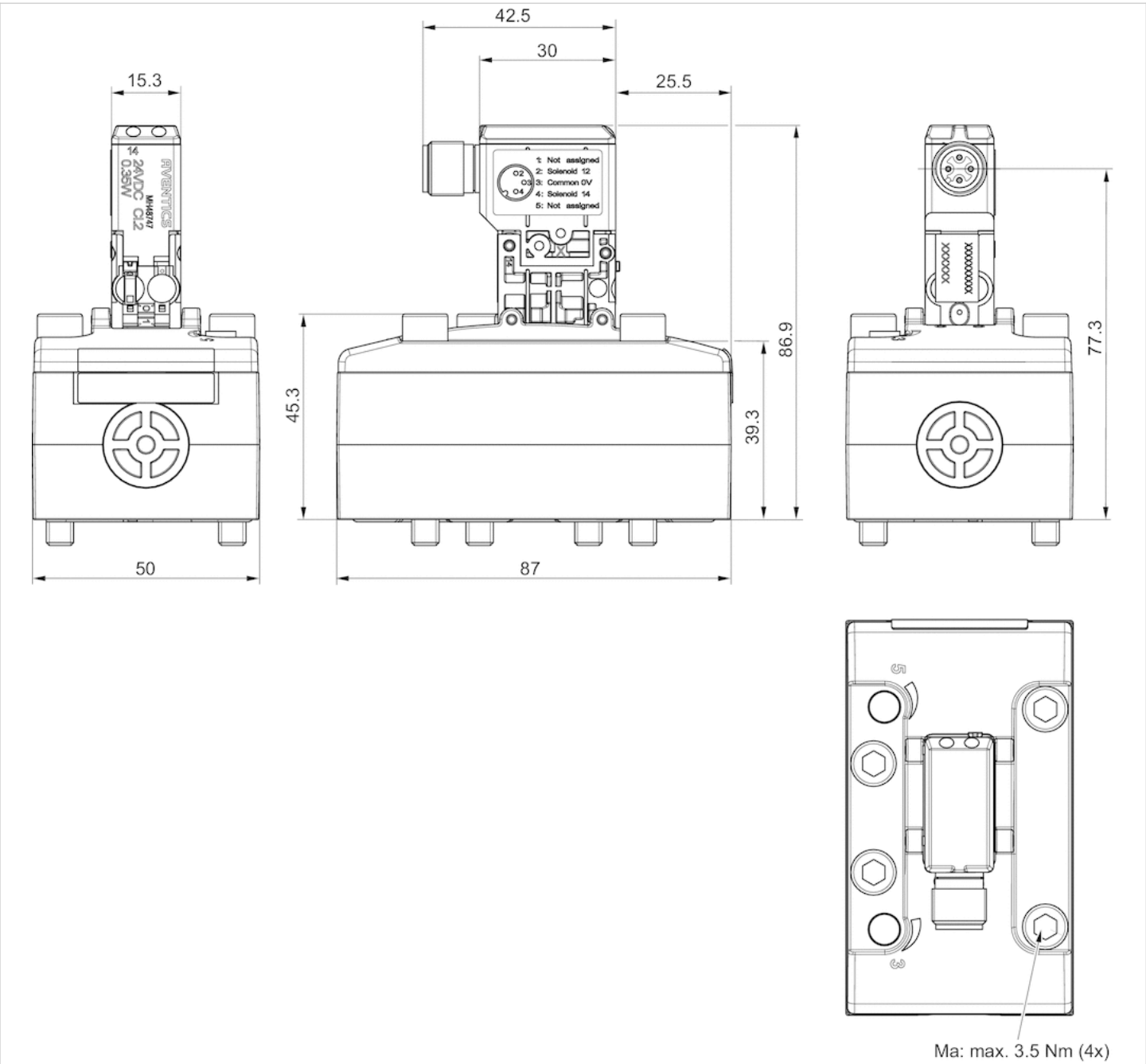
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

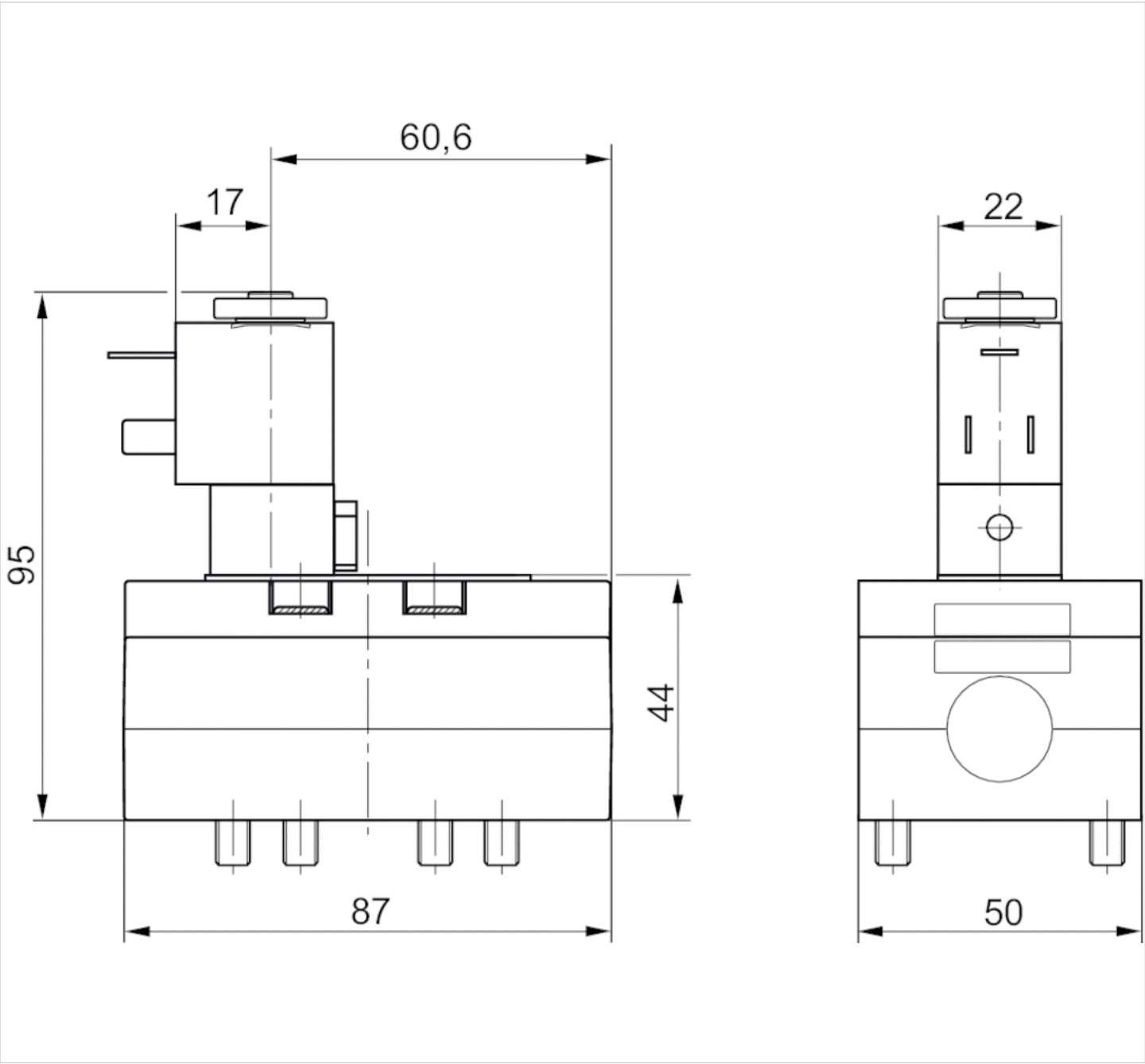
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



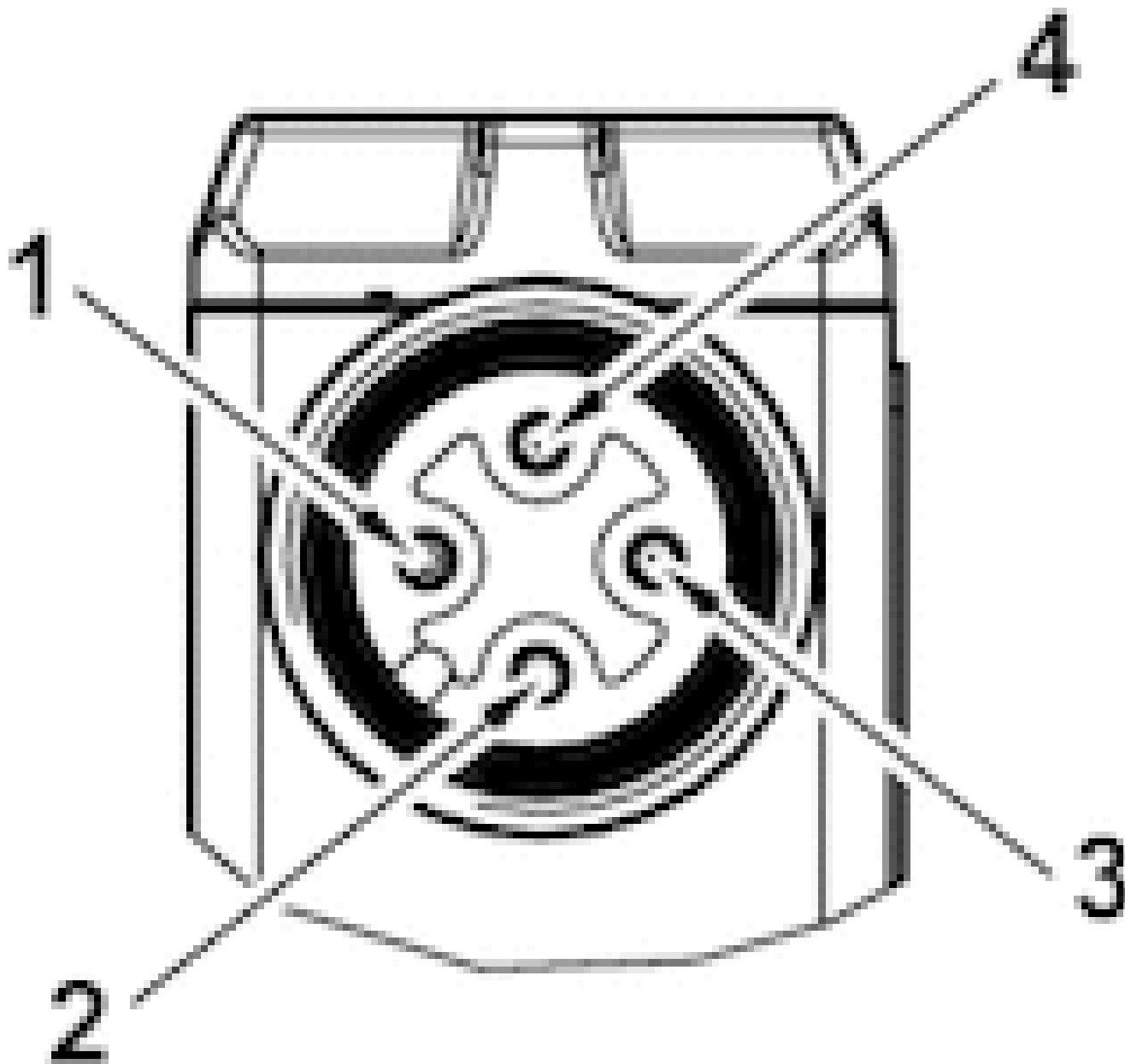
Dimensions



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

Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	12 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812220500			12 V	-
5812220200			-	24 V
5812220100			24 V	-
5812220600			48 V	-
5812220300			-	-
5812220400			-	230 V
5812220000			-	-
5812221500			12 V	-
5812221200			-	24 V
5812221100			24 V	-
5812221600			48 V	-
5812221300			-	-
5812221400			-	230 V
5812221000			-	-
5812222500			12 V	-
5812222200			-	24 V
5812222100			24 V	-
5812222600			48 V	-
5812222300			-	-
5812222400			-	230 V
5812222000			-	-
5812223500			12 V	-
5812223200			-	24 V
5812223100			24 V	-
5812223600			48 V	-
5812223300			-	-
5812223400			-	230 V
5812223000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812220500	-	-10% / +10%	-	-
5812220200	-	-	-10% / +10%	-
5812220100	-	-10% / +10%	-	-
5812220600	-	-10% / +10%	-	-
5812220300	110 V	-	-	-10% / +10%
5812220400	-	-	-10% / +10%	-
5812220000	-	-	-	-
5812221500	-	-10% / +10%	-	-
5812221200	-	-	-10% / +10%	-
5812221100	-	-10% / +10%	-	-
5812221600	-	-10% / +10%	-	-
5812221300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812221400	-	-	-10% / +10%	-
5812221000	-	-	-	-
5812222500	-	-10% / +10%	-	-
5812222200	-	-	-10% / +10%	-
5812222100	-	-10% / +10%	-	-
5812222600	-	-10% / +10%	-	-
5812222300	110 V	-	-	-10% / +10%
5812222400	-	-	-10% / +10%	-
5812222000	-	-	-	-
5812223500	-	-10% / +10%	-	-
5812223200	-	-	-10% / +10%	-
5812223100	-	-10% / +10%	-	-
5812223600	-	-10% / +10%	-	-
5812223300	110 V	-	-	-10% / +10%
5812223400	-	-	-10% / +10%	-
5812223000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5812220500	5 W	-	-	-
5812220200	-	8 VA	-	10 VA
5812220100	5 W	-	-	-
5812220600	5 W	-	-	-
5812220300	-	-	8 VA	-
5812220400	-	8 VA	-	10 VA
5812220000	-	-	-	-
5812221500	5 W	-	-	-
5812221200	-	8 VA	-	10 VA
5812221100	5 W	-	-	-
5812221600	5 W	-	-	-
5812221300	-	-	8 VA	-
5812221400	-	8 VA	-	10 VA
5812221000	-	-	-	-
5812222500	5 W	-	-	-
5812222200	-	8 VA	-	10 VA
5812222100	5 W	-	-	-
5812222600	5 W	-	-	-
5812222300	-	-	8 VA	-
5812222400	-	8 VA	-	10 VA
5812222000	-	-	-	-
5812223500	5 W	-	-	-
5812223200	-	8 VA	-	10 VA
5812223100	5 W	-	-	-
5812223600	5 W	-	-	-
5812223300	-	-	8 VA	-
5812223400	-	8 VA	-	10 VA
5812223000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5812220500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812222500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812222400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812223400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812220500	-	-
5812220200	-	-
5812220100	-	-
5812220600	-	-
5812220300	-	-
5812220400	-	-
5812220000	Basic valve without coil	-
5812221500	-	with throttle
5812221200	-	with throttle
5812221100	-	with throttle
5812221600	-	with throttle
5812221300	-	with throttle
5812221400	-	with throttle
5812221000	Basic valve without coil	with throttle
5812222500	-	-
5812222200	-	-

Part No.	basic valve with electrical connector	Throttle
5812222100	-	-
5812222600	-	-
5812222300	-	-
5812222400	-	-
5812222000	Basic valve without coil	-
5812223500	-	with throttle
5812223200	-	with throttle
5812223100	-	with throttle
5812223600	-	with throttle
5812223300	-	with throttle
5812223400	-	with throttle
5812223000	Basic valve without coil	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

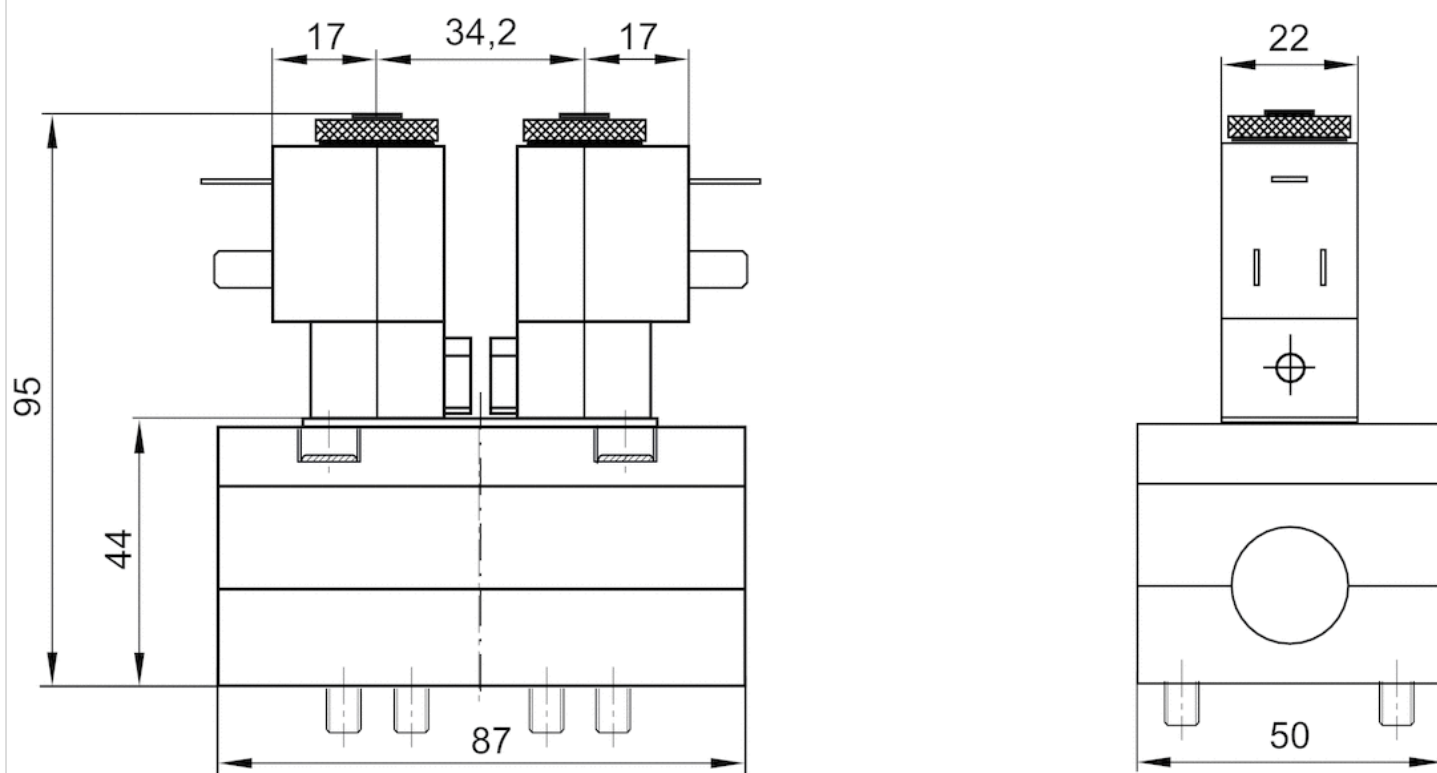
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	2,7 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	See table below
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,34 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812610500			12 V	-
5812610200			-	24 V
5812610100			24 V	-
5812610600			48 V	-
5812610300			-	-
5812610400			-	230 V
5812610000			-	-
5812611500			12 V	-
5812611200			-	24 V
5812611100			24 V	-
5812611600			48 V	-
5812611300			-	-
5812611400			-	230 V
5812611000			-	-
5812612500			12 V	-
5812612200			-	24 V
5812612100			24 V	-
5812612600			48 V	-
5812612300			-	-
5812612400			-	230 V
5812612000			-	-
5812613500			12 V	-
5812613200			-	24 V
5812613100			24 V	-
5812613600			48 V	-
5812613300			-	-
5812613400			-	230 V
5812613000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812610500	-	-10% / +10%	-	-
5812610200	-	-	-10% / +10%	-
5812610100	-	-10% / +10%	-	-
5812610600	-	-10% / +10%	-	-
5812610300	110 V	-	-	-10% / +10%
5812610400	-	-	-10% / +10%	-
5812610000	-	-	-	-
5812611500	-	-10% / +10%	-	-
5812611200	-	-	-10% / +10%	-
5812611100	-	-10% / +10%	-	-
5812611600	-	-10% / +10%	-	-
5812611300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812611400	-	-	-10% / +10%	-
5812611000	-	-	-	-
5812612500	-	-10% / +10%	-	-
5812612200	-	-	-10% / +10%	-
5812612100	-	-10% / +10%	-	-
5812612600	-	-10% / +10%	-	-
5812612300	110 V	-	-	-10% / +10%
5812612400	-	-	-10% / +10%	-
5812612000	-	-	-	-
5812613500	-	-10% / +10%	-	-
5812613200	-	-	-10% / +10%	-
5812613100	-	-10% / +10%	-	-
5812613600	-	-10% / +10%	-	-
5812613300	110 V	-	-	-10% / +10%
5812613400	-	-	-10% / +10%	-
5812613000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5812610500	5 W	-	-	-
5812610200	-	8 VA	-	10 VA
5812610100	5 W	-	-	-
5812610600	5 W	-	-	-
5812610300	-	-	8 VA	-
5812610400	-	8 VA	-	10 VA
5812610000	-	-	-	-
5812611500	5 W	-	-	-
5812611200	-	8 VA	-	10 VA
5812611100	5 W	-	-	-
5812611600	5 W	-	-	-
5812611300	-	-	8 VA	-
5812611400	-	8 VA	-	10 VA
5812611000	-	-	-	-
5812612500	5 W	-	-	-
5812612200	-	8 VA	-	10 VA
5812612100	5 W	-	-	-
5812612600	5 W	-	-	-
5812612300	-	-	8 VA	-
5812612400	-	8 VA	-	10 VA
5812612000	-	-	-	-
5812613500	5 W	-	-	-
5812613200	-	8 VA	-	10 VA
5812613100	5 W	-	-	-
5812613600	5 W	-	-	-
5812613300	-	-	8 VA	-
5812613400	-	8 VA	-	10 VA
5812613000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Typ. switch-off time
5812610500	-	Internal	2,7 ... 10 bar	41 ms
5812610200	-	Internal	2,7 ... 10 bar	41 ms
5812610100	-	Internal	2,7 ... 10 bar	41 ms
5812610600	-	Internal	2,7 ... 10 bar	41 ms
5812610300	10 VA	Internal	2,7 ... 10 bar	41 ms
5812610400	-	Internal	2,7 ... 10 bar	41 ms
5812610000	-	Internal	2,7 ... 10 bar	41 ms
5812611500	-	Internal	2,7 ... 10 bar	41 ms
5812611200	-	Internal	2,7 ... 10 bar	41 ms
5812611100	-	Internal	2,7 ... 10 bar	41 ms
5812611600	-	Internal	2,7 ... 10 bar	41 ms
5812611300	10 VA	Internal	2,7 ... 10 bar	41 ms
5812611400	-	Internal	2,7 ... 10 bar	41 ms
5812611000	-	Internal	2,7 ... 10 bar	41 ms
5812612500	-	External	-0,95 ... 10 bar	30 ms
5812612200	-	External	-0,95 ... 10 bar	30 ms
5812612100	-	External	-0,95 ... 10 bar	30 ms
5812612600	-	External	-0,95 ... 10 bar	30 ms
5812612300	10 VA	External	-0,95 ... 10 bar	30 ms
5812612400	-	External	-0,95 ... 10 bar	30 ms
5812612000	-	External	-0,95 ... 10 bar	30 ms
5812613500	-	External	-0,95 ... 10 bar	30 ms
5812613200	-	External	-0,95 ... 10 bar	30 ms
5812613100	-	External	-0,95 ... 10 bar	30 ms
5812613600	-	External	-0,95 ... 10 bar	30 ms
5812613300	10 VA	External	-0,95 ... 10 bar	30 ms
5812613400	-	External	-0,95 ... 10 bar	30 ms
5812613000	-	External	-0,95 ... 10 bar	30 ms

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	Throttle
5812610500	Plug Form B, industry	-	-
5812610200	Plug Form B, industry	-	-
5812610100	Plug Form B, industry	-	-
5812610600	Plug Form B, industry	-	-
5812610300	Plug Form B, industry	-	-
5812610400	Plug Form B, industry	-	-
5812610000	Plug Form B, industry	Basic valve without coil	-
5812611500	Plug Form B, industry	-	with throttle
5812611200	Plug Form B, industry	-	with throttle
5812611100	Plug Form B, industry	-	with throttle
5812611600	Plug Form B, industry	-	with throttle
5812611300	Plug Form B, industry	-	with throttle
5812611400	Plug Form B, industry	-	with throttle
5812611000	Plug Form B, industry	Basic valve without coil	with throttle
5812612500	Plug Form B, industry	-	-
5812612200	Plug Form B, industry	-	-

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	Throttle
5812612100	Plug Form B, industry	-	-
5812612600	Plug Form B, industry	-	-
5812612300	Plug Form B, industry	-	-
5812612400	Plug Form B, industry	-	-
5812612000	Plug Form B, industry	Basic valve without coil	-
5812613500	Plug Form B, industry	-	with throttle
5812613200	Plug Form B, industry	-	with throttle
5812613100	Plug Form B, industry	-	with throttle
5812613600	Plug Form B, industry	-	with throttle
5812613300	Plug Form B, industry	-	with throttle
5812613400	Plug Form B, industry	-	with throttle
5812613000	Plug Form B, industry	Basic valve without coil	with throttle

Differential piston, signal 14 has priority, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

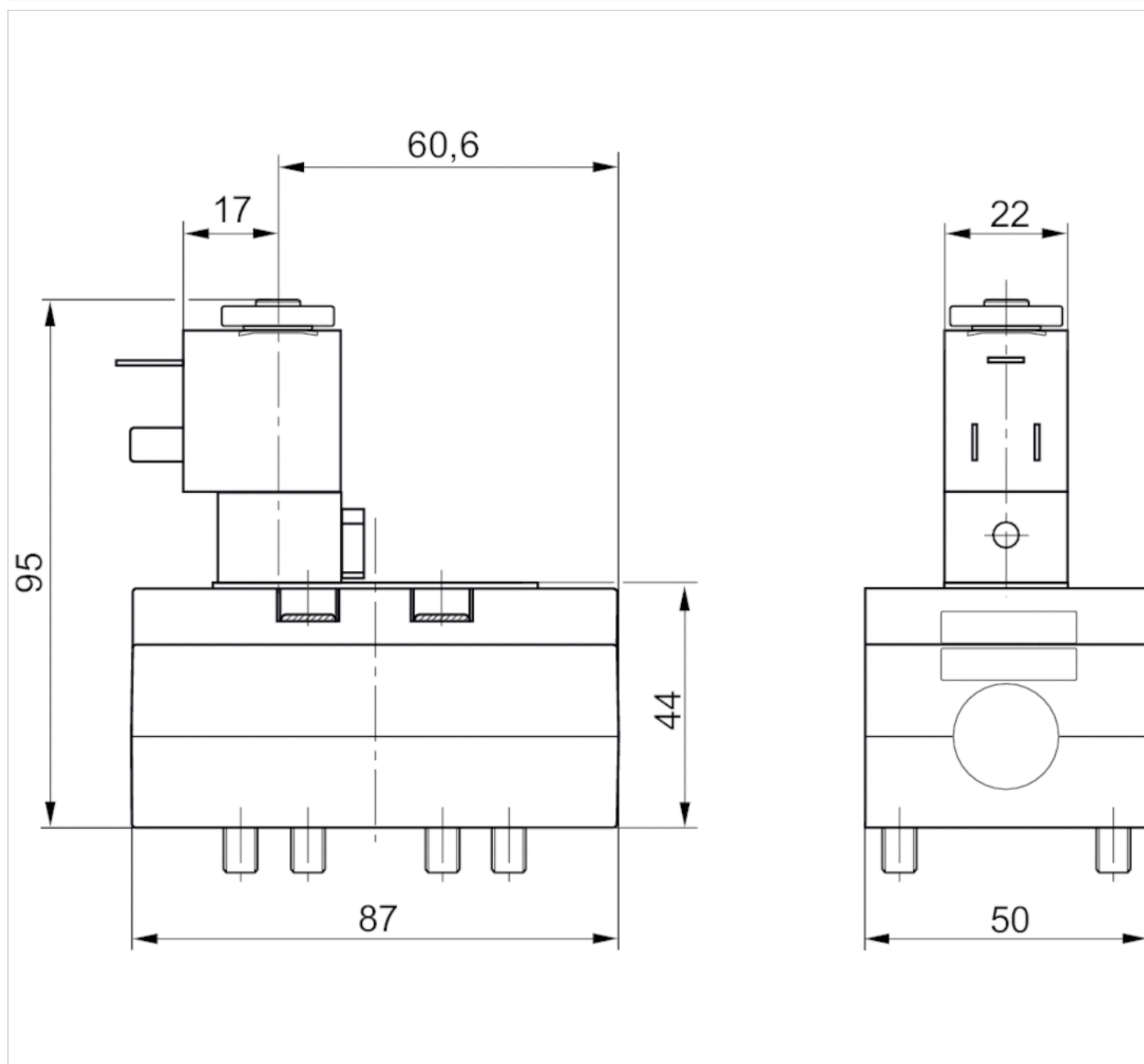
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

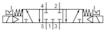
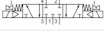
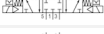
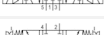
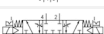
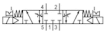
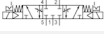
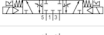
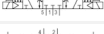
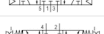
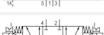
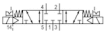
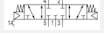
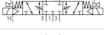
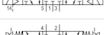
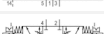
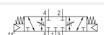
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	19 ms
Typ. switch-off time	42 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		MO		Operational voltage DC
5812420500			closed center	12 V
5812420200			closed center	-
5812420100			closed center	24 V
5812420600			closed center	48 V
5812420300			closed center	-
5812420400			closed center	-
5812420000			closed center	-
5812421500			closed center	12 V
5812421200			closed center	-
5812421100			closed center	24 V
5812421600			closed center	48 V
5812421300			closed center	-
5812421400			closed center	-
5812421000			closed center	-
5812422500			closed center	12 V
5812422200			closed center	-
5812422600			closed center	48 V
5812422300			closed center	-
5812422400			closed center	-
5812422000			closed center	-
5812423500			closed center	12 V
5812423200			closed center	-
5812423100			closed center	24 V
5812423600			closed center	48 V
5812423300			closed center	-
5812423400			closed center	-
5812423000			closed center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812420500	-	-	-10% / +10%
5812420200	24 V	-	-
5812420100	-	-	-10% / +10%
5812420600	-	-	-10% / +10%
5812420300	-	110 V	-
5812420400	230 V	-	-
5812420000	-	-	-
5812421500	-	-	-10% / +10%
5812421200	24 V	-	-
5812421100	-	-	-10% / +10%
5812421600	-	-	-10% / +10%
5812421300	-	110 V	-
5812421400	230 V	-	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812421000	-	-	-
5812422500	-	-	-10% / +10%
5812422200	24 V	-	-
5812422600	-	-	-10% / +10%
5812422300	-	110 V	-
5812422400	230 V	-	-
5812422000	-	-	-
5812423500	-	-	-10% / +10%
5812423200	24 V	-	-
5812423100	-	-	-10% / +10%
5812423600	-	-	-10% / +10%
5812423300	-	110 V	-
5812423400	230 V	-	-
5812423000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5812420500	-	-	5 W	-
5812420200	-10% / +10%	-	-	8 VA
5812420100	-	-	5 W	-
5812420600	-	-	5 W	-
5812420300	-	-10% / +10%	-	-
5812420400	-10% / +10%	-	-	8 VA
5812420000	-	-	-	-
5812421500	-	-	5 W	-
5812421200	-10% / +10%	-	-	8 VA
5812421100	-	-	5 W	-
5812421600	-	-	5 W	-
5812421300	-	-10% / +10%	-	-
5812421400	-10% / +10%	-	-	8 VA
5812421000	-	-	-	-
5812422500	-	-	5 W	-
5812422200	-10% / +10%	-	-	8 VA
5812422600	-	-	5 W	-
5812422300	-	-10% / +10%	-	-
5812422400	-10% / +10%	-	-	8 VA
5812422000	-	-	-	-
5812423500	-	-	5 W	-
5812423200	-10% / +10%	-	-	8 VA
5812423100	-	-	5 W	-
5812423600	-	-	5 W	-
5812423300	-	-10% / +10%	-	-
5812423400	-10% / +10%	-	-	8 VA
5812423000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5812420500	-	-	-	Internal
5812420200	-	10 VA	-	Internal
5812420100	-	-	-	Internal
5812420600	-	-	-	Internal
5812420300	8 VA	-	10 VA	Internal
5812420400	-	10 VA	-	Internal
5812420000	-	-	-	Internal
5812421500	-	-	-	Internal
5812421200	-	10 VA	-	Internal
5812421100	-	-	-	Internal
5812421600	-	-	-	Internal
5812421300	8 VA	-	10 VA	Internal
5812421400	-	10 VA	-	Internal
5812421000	-	-	-	Internal
5812422500	-	-	-	External
5812422200	-	10 VA	-	External
5812422600	-	-	-	External
5812422300	8 VA	-	10 VA	External
5812422400	-	10 VA	-	External
5812422000	-	-	-	External
5812423500	-	-	-	External
5812423200	-	10 VA	-	External
5812423100	-	-	-	External
5812423600	-	-	-	External
5812423300	8 VA	-	10 VA	External
5812423400	-	10 VA	-	External
5812423000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812420500	3 ... 10 bar	Plug Form B, industry
5812420200	3 ... 10 bar	Plug Form B, industry
5812420100	3 ... 10 bar	Plug Form B, industry
5812420600	3 ... 10 bar	Plug Form B, industry
5812420300	3 ... 10 bar	Plug Form B, industry
5812420400	3 ... 10 bar	Plug Form B, industry
5812420000	3 ... 10 bar	Plug Form B, industry
5812421500	3 ... 10 bar	Plug Form B, industry
5812421200	3 ... 10 bar	Plug Form B, industry
5812421100	3 ... 10 bar	Plug Form B, industry
5812421600	3 ... 10 bar	Plug Form B, industry
5812421300	3 ... 10 bar	Plug Form B, industry
5812421400	3 ... 10 bar	Plug Form B, industry
5812421000	3 ... 10 bar	Plug Form B, industry
5812422500	-0,95 ... 10 bar	Plug Form B, industry
5812422200	-0,95 ... 10 bar	Plug Form B, industry
5812422600	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812422300	-0,95 ... 10 bar	Plug Form B, industry
5812422400	-0,95 ... 10 bar	Plug Form B, industry
5812422000	-0,95 ... 10 bar	Plug Form B, industry
5812423500	-0,95 ... 10 bar	Plug Form B, industry
5812423200	-0,95 ... 10 bar	Plug Form B, industry
5812423100	-0,95 ... 10 bar	Plug Form B, industry
5812423600	-0,95 ... 10 bar	Plug Form B, industry
5812423300	-0,95 ... 10 bar	Plug Form B, industry
5812423400	-0,95 ... 10 bar	Plug Form B, industry
5812423000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812420500	-	-
5812420200	-	-
5812420100	-	-
5812420600	-	-
5812420300	-	-
5812420400	-	-
5812420000	Basic valve without coil	-
5812421500	-	with throttle
5812421200	-	with throttle
5812421100	-	with throttle
5812421600	-	with throttle
5812421300	-	with throttle
5812421400	-	with throttle
5812421000	Basic valve without coil	with throttle
5812422500	-	-
5812422200	-	-
5812422600	-	-
5812422300	-	-
5812422400	-	-
5812422000	Basic valve without coil	-
5812423500	-	with throttle
5812423200	-	with throttle
5812423100	-	with throttle
5812423600	-	with throttle
5812423300	-	with throttle
5812423400	-	with throttle
5812423000	Basic valve without coil	with throttle

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

Technical information

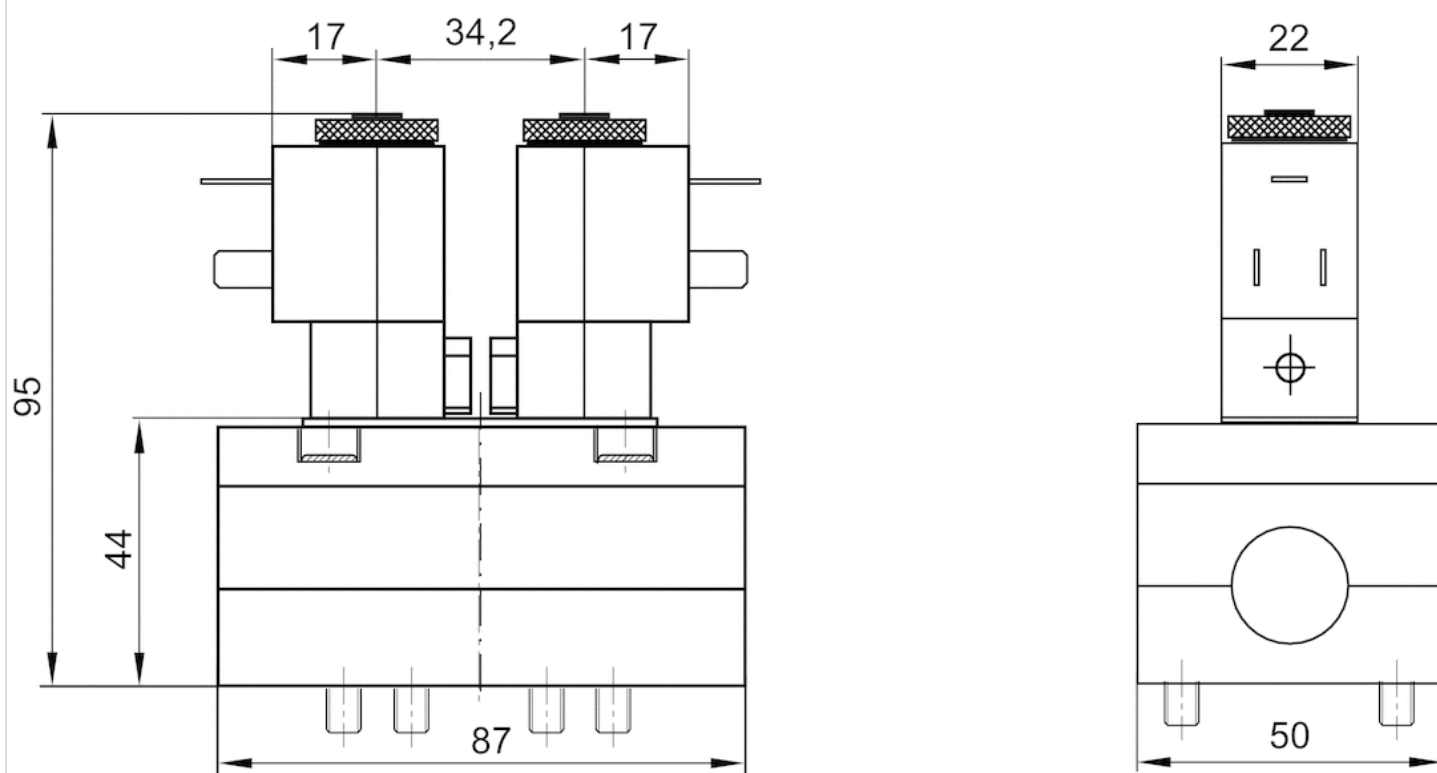
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

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

- ISO 5599-1
- ISO 2
- 5/3
- exhausted center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		MO		Operational voltage DC
5812520500			exhausted center	12 V
5812520200			exhausted center	-
5812520100			exhausted center	24 V
5812520600			exhausted center	48 V
5812520300			exhausted center	-
5812520400			exhausted center	-
5812520000			exhausted center	-
5812521500			exhausted center	12 V
5812521200			exhausted center	-
5812521100			exhausted center	24 V
5812521600			exhausted center	48 V
5812521300			exhausted center	-
5812521400			exhausted center	-
5812521000			exhausted center	-
5812522500			exhausted center	12 V
5812522200			exhausted center	-
5812522100			exhausted center	24 V
5812522600			exhausted center	48 V
5812522300			exhausted center	-
5812522400			exhausted center	-
5812522000			exhausted center	-
5812523500			exhausted center	12 V
5812523200			exhausted center	-
5812523100			exhausted center	24 V
5812523600			exhausted center	48 V
5812523300			exhausted center	-
5812523400			exhausted center	-
5812523000			exhausted center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812520500	-	-	-10% / +10%
5812520200	24 V	-	-
5812520100	-	-	-10% / +10%
5812520600	-	-	-10% / +10%
5812520300	-	110 V	-
5812520400	230 V	-	-
5812520000	-	-	-
5812521500	-	-	-10% / +10%
5812521200	24 V	-	-
5812521100	-	-	-10% / +10%
5812521600	-	-	-10% / +10%
5812521300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812521400	230 V	-	-
5812521000	-	-	-
5812522500	-	-	-10% / +10%
5812522200	24 V	-	-
5812522100	-	-	-10% / +10%
5812522600	-	-	-10% / +10%
5812522300	-	110 V	-
5812522400	230 V	-	-
5812522000	-	-	-
5812523500	-	-	-10% / +10%
5812523200	24 V	-	-
5812523100	-	-	-10% / +10%
5812523600	-	-	-10% / +10%
5812523300	-	110 V	-
5812523400	230 V	-	-
5812523000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5812520500	-	-	5 W	-
5812520200	-10% / +10%	-	-	8 VA
5812520100	-	-	5 W	-
5812520600	-	-	5 W	-
5812520300	-	-10% / +10%	-	-
5812520400	-10% / +10%	-	-	8 VA
5812520000	-	-	-	-
5812521500	-	-	5 W	-
5812521200	-10% / +10%	-	-	8 VA
5812521100	-	-	5 W	-
5812521600	-	-	5 W	-
5812521300	-	-10% / +10%	-	-
5812521400	-10% / +10%	-	-	8 VA
5812521000	-	-	-	-
5812522500	-	-	5 W	-
5812522200	-10% / +10%	-	-	8 VA
5812522100	-	-	5 W	-
5812522600	-	-	5 W	-
5812522300	-	-10% / +10%	-	-
5812522400	-10% / +10%	-	-	8 VA
5812522000	-	-	-	-
5812523500	-	-	5 W	-
5812523200	-10% / +10%	-	-	8 VA
5812523100	-	-	5 W	-
5812523600	-	-	5 W	-
5812523300	-	-10% / +10%	-	-
5812523400	-10% / +10%	-	-	8 VA
5812523000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5812520500	-	-	-	Internal
5812520200	-	10 VA	-	Internal
5812520100	-	-	-	Internal
5812520600	-	-	-	Internal
5812520300	8 VA	-	10 VA	Internal
5812520400	-	10 VA	-	Internal
5812520000	-	-	-	Internal
5812521500	-	-	-	Internal
5812521200	-	10 VA	-	Internal
5812521100	-	-	-	Internal
5812521600	-	-	-	Internal
5812521300	8 VA	-	10 VA	Internal
5812521400	-	10 VA	-	Internal
5812521000	-	-	-	Internal
5812522500	-	-	-	External
5812522200	-	10 VA	-	External
5812522100	-	-	-	External
5812522600	-	-	-	External
5812522300	8 VA	-	10 VA	External
5812522400	-	10 VA	-	External
5812522000	-	-	-	External
5812523500	-	-	-	External
5812523200	-	10 VA	-	External
5812523100	-	-	-	External
5812523600	-	-	-	External
5812523300	8 VA	-	10 VA	External
5812523400	-	10 VA	-	External
5812523000	-	-	-	External

Part No.	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time
5812520500	3 ... 10 bar	19 ms	42 ms
5812520200	3 ... 10 bar	19 ms	42 ms
5812520100	3 ... 10 bar	19 ms	42 ms
5812520600	3 ... 10 bar	19 ms	42 ms
5812520300	3 ... 10 bar	19 ms	42 ms
5812520400	3 ... 10 bar	19 ms	42 ms
5812520000	3 ... 10 bar	19 ms	42 ms
5812521500	3 ... 10 bar	19 ms	42 ms
5812521200	3 ... 10 bar	19 ms	42 ms
5812521100	3 ... 10 bar	19 ms	42 ms
5812521600	3 ... 10 bar	19 ms	42 ms
5812521300	3 ... 10 bar	19 ms	42 ms
5812521400	3 ... 10 bar	19 ms	42 ms
5812521000	3 ... 10 bar	19 ms	42 ms
5812522500	-0,95 ... 10 bar	30 ms	74 ms
5812522200	-0,95 ... 10 bar	30 ms	74 ms

Part No.	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time
5812522100	-0,95 ... 10 bar	30 ms	74 ms
5812522600	-0,95 ... 10 bar	30 ms	74 ms
5812522300	-0,95 ... 10 bar	30 ms	74 ms
5812522400	-0,95 ... 10 bar	30 ms	74 ms
5812522000	-0,95 ... 10 bar	30 ms	74 ms
5812523500	-0,95 ... 10 bar	30 ms	74 ms
5812523200	-0,95 ... 10 bar	30 ms	74 ms
5812523100	-0,95 ... 10 bar	30 ms	74 ms
5812523600	-0,95 ... 10 bar	30 ms	74 ms
5812523300	-0,95 ... 10 bar	30 ms	74 ms
5812523400	-0,95 ... 10 bar	30 ms	74 ms
5812523000	-0,95 ... 10 bar	30 ms	74 ms

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	Throttle
5812520500	Plug Form B, industry	-	-
5812520200	Plug Form B, industry	-	-
5812520100	Plug Form B, industry	-	-
5812520600	Plug Form B, industry	-	-
5812520300	Plug Form B, industry	-	-
5812520400	Plug Form B, industry	-	-
5812520000	Plug Form B, industry	Basic valve without coil	-
5812521500	Plug Form B, industry	-	with throttle
5812521200	Plug Form B, industry	-	with throttle
5812521100	Plug Form B, industry	-	with throttle
5812521600	Plug Form B, industry	-	with throttle
5812521300	Plug Form B, industry	-	with throttle
5812521400	Plug Form B, industry	-	with throttle
5812521000	Plug Form B, industry	Basic valve without coil	with throttle
5812522500	Plug Form B, industry	-	-
5812522200	Plug Form B, industry	-	-
5812522100	Plug Form B, industry	-	-
5812522600	Plug Form B, industry	-	-
5812522300	Plug Form B, industry	-	-
5812522400	Plug Form B, industry	-	-
5812522000	Plug Form B, industry	Basic valve without coil	-
5812523500	Plug Form B, industry	-	with throttle
5812523200	Plug Form B, industry	-	with throttle
5812523100	Plug Form B, industry	-	with throttle
5812523600	Plug Form B, industry	-	with throttle
5812523300	Plug Form B, industry	-	with throttle
5812523400	Plug Form B, industry	-	with throttle
5812523000	Plug Form B, industry	Basic valve without coil	with throttle

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

Technical information

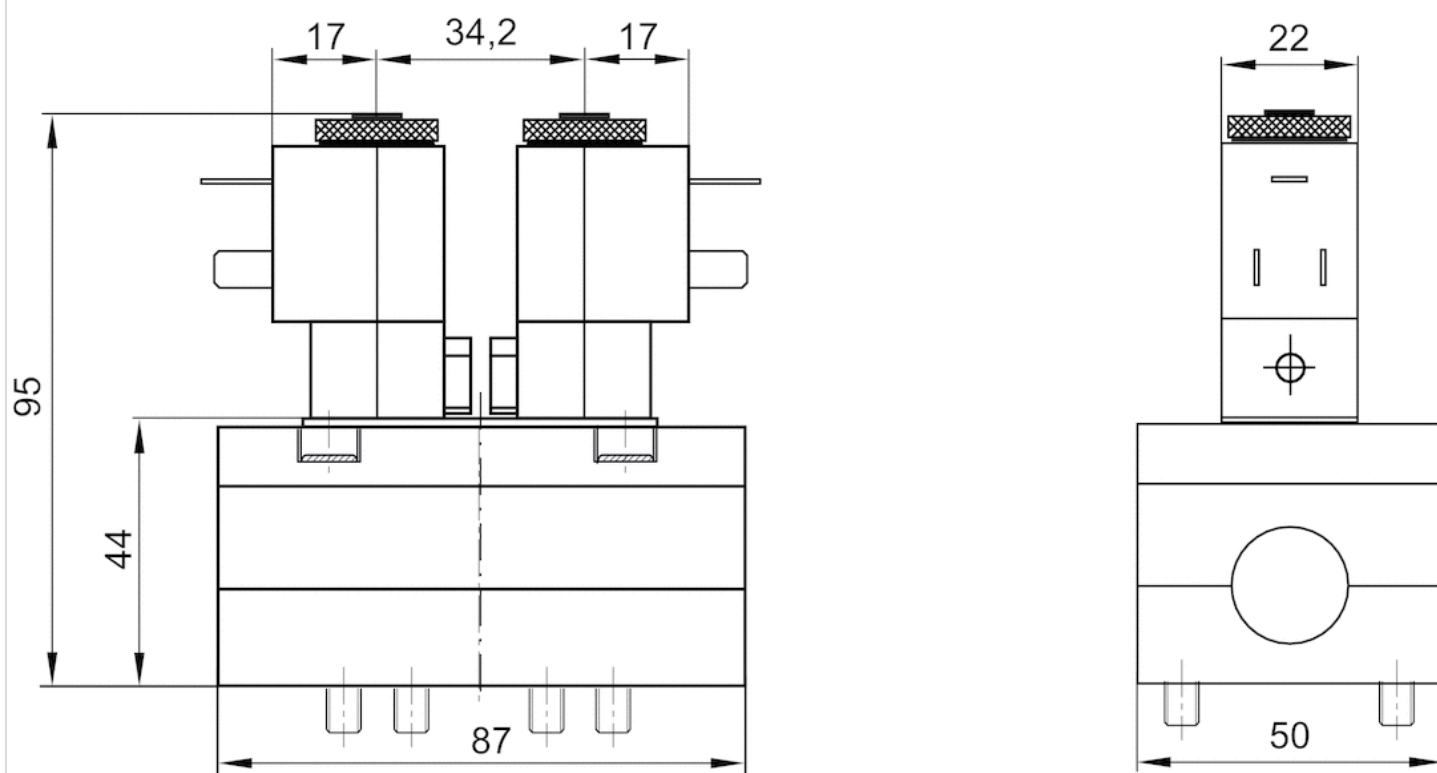
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

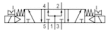
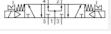
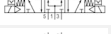
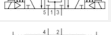
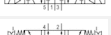
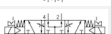
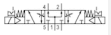
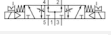
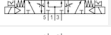
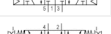
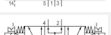
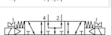
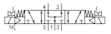
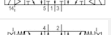
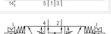
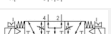
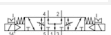
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	19 ms
Typ. switch-off time	42 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		MO		Operational voltage DC
5812720500			pressurized center	12 V
5812720200			pressurized center	-
5812720100			pressurized center	24 V
5812720600			pressurized center	48 V
5812720300			pressurized center	-
5812720400			pressurized center	-
5812720000			pressurized center	-
5812721500			pressurized center	12 V
5812721200			pressurized center	-
5812721100			pressurized center	24 V
5812721600			pressurized center	48 V
5812721300			pressurized center	-
5812721400			pressurized center	-
5812721000			pressurized center	-
5812722500			pressurized center	12 V
5812722200			pressurized center	-
5812722100			pressurized center	24 V
5812722600			pressurized center	48 V
5812722300			pressurized center	-
5812722400			pressurized center	-
5812722000			pressurized center	-
5812723500			pressurized center	12 V
5812723200			pressurized center	-
5812723100			pressurized center	24 V
5812723600			pressurized center	48 V
5812723300			pressurized center	-
5812723400			pressurized center	-
5812723000			pressurized center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812720500	-	-	-10% / +10%
5812720200	24 V	-	-
5812720100	-	-	-10% / +10%
5812720600	-	-	-10% / +10%
5812720300	-	110 V	-
5812720400	230 V	-	-
5812720000	-	-	-
5812721500	-	-	-10% / +10%
5812721200	24 V	-	-
5812721100	-	-	-10% / +10%
5812721600	-	-	-10% / +10%
5812721300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5812721400	230 V	-	-
5812721000	-	-	-
5812722500	-	-	-10% / +10%
5812722200	24 V	-	-
5812722100	-	-	-10% / +10%
5812722600	-	-	-10% / +10%
5812722300	-	110 V	-
5812722400	230 V	-	-
5812722000	-	-	-
5812723500	-	-	-10% / +10%
5812723200	24 V	-	-
5812723100	-	-	-10% / +10%
5812723600	-	-	-10% / +10%
5812723300	-	110 V	-
5812723400	230 V	-	-
5812723000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5812720500	-	-	5 W	-
5812720200	-10% / +10%	-	-	8 VA
5812720100	-	-	5 W	-
5812720600	-	-	5 W	-
5812720300	-	-10% / +10%	-	-
5812720400	-10% / +10%	-	-	8 VA
5812720000	-	-	-	-
5812721500	-	-	5 W	-
5812721200	-10% / +10%	-	-	8 VA
5812721100	-	-	5 W	-
5812721600	-	-	5 W	-
5812721300	-	-10% / +10%	-	-
5812721400	-10% / +10%	-	-	8 VA
5812721000	-	-	-	-
5812722500	-	-	5 W	-
5812722200	-10% / +10%	-	-	8 VA
5812722100	-	-	5 W	-
5812722600	-	-	5 W	-
5812722300	-	-10% / +10%	-	-
5812722400	-10% / +10%	-	-	8 VA
5812722000	-	-	-	-
5812723500	-	-	5 W	-
5812723200	-10% / +10%	-	-	8 VA
5812723100	-	-	5 W	-
5812723600	-	-	5 W	-
5812723300	-	-10% / +10%	-	-
5812723400	-10% / +10%	-	-	8 VA
5812723000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5812720500	-	-	-	Internal
5812720200	-	10 VA	-	Internal
5812720100	-	-	-	Internal
5812720600	-	-	-	Internal
5812720300	8 VA	-	10 VA	Internal
5812720400	-	10 VA	-	Internal
5812720000	-	-	-	Internal
5812721500	-	-	-	Internal
5812721200	-	10 VA	-	Internal
5812721100	-	-	-	Internal
5812721600	-	-	-	Internal
5812721300	8 VA	-	10 VA	Internal
5812721400	-	10 VA	-	Internal
5812721000	-	-	-	Internal
5812722500	-	-	-	External
5812722200	-	10 VA	-	External
5812722100	-	-	-	External
5812722600	-	-	-	External
5812722300	8 VA	-	10 VA	External
5812722400	-	10 VA	-	External
5812722000	-	-	-	External
5812723500	-	-	-	External
5812723200	-	10 VA	-	External
5812723100	-	-	-	External
5812723600	-	-	-	External
5812723300	8 VA	-	10 VA	External
5812723400	-	10 VA	-	External
5812723000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812720500	3 ... 10 bar	Plug Form B, industry
5812720200	3 ... 10 bar	Plug Form B, industry
5812720100	3 ... 10 bar	Plug Form B, industry
5812720600	3 ... 10 bar	Plug Form B, industry
5812720300	3 ... 10 bar	Plug Form B, industry
5812720400	3 ... 10 bar	Plug Form B, industry
5812720000	3 ... 10 bar	Plug Form B, industry
5812721500	3 ... 10 bar	Plug Form B, industry
5812721200	3 ... 10 bar	Plug Form B, industry
5812721100	3 ... 10 bar	Plug Form B, industry
5812721600	3 ... 10 bar	Plug Form B, industry
5812721300	3 ... 10 bar	Plug Form B, industry
5812721400	3 ... 10 bar	Plug Form B, industry
5812721000	3 ... 10 bar	Plug Form B, industry
5812722500	-0,95 ... 10 bar	Plug Form B, industry
5812722200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812722100	-0,95 ... 10 bar	Plug Form B, industry
5812722600	-0,95 ... 10 bar	Plug Form B, industry
5812722300	-0,95 ... 10 bar	Plug Form B, industry
5812722400	-0,95 ... 10 bar	Plug Form B, industry
5812722000	-0,95 ... 10 bar	Plug Form B, industry
5812723500	-0,95 ... 10 bar	Plug Form B, industry
5812723200	-0,95 ... 10 bar	Plug Form B, industry
5812723100	-0,95 ... 10 bar	Plug Form B, industry
5812723600	-0,95 ... 10 bar	Plug Form B, industry
5812723300	-0,95 ... 10 bar	Plug Form B, industry
5812723400	-0,95 ... 10 bar	Plug Form B, industry
5812723000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812720500	-	-
5812720200	-	-
5812720100	-	-
5812720600	-	-
5812720300	-	-
5812720400	-	-
5812720000	Basic valve without coil	-
5812721500	-	with throttle
5812721200	-	with throttle
5812721100	-	with throttle
5812721600	-	with throttle
5812721300	-	with throttle
5812721400	-	with throttle
5812721000	Basic valve without coil	with throttle
5812722500	-	-
5812722200	-	-
5812722100	-	-
5812722600	-	-
5812722300	-	-
5812722400	-	-
5812722000	Basic valve without coil	-
5812723500	-	with throttle
5812723200	-	with throttle
5812723100	-	with throttle
5812723600	-	with throttle
5812723300	-	with throttle
5812723400	-	with throttle
5812723000	Basic valve without coil	with throttle

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

Technical information

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

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

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

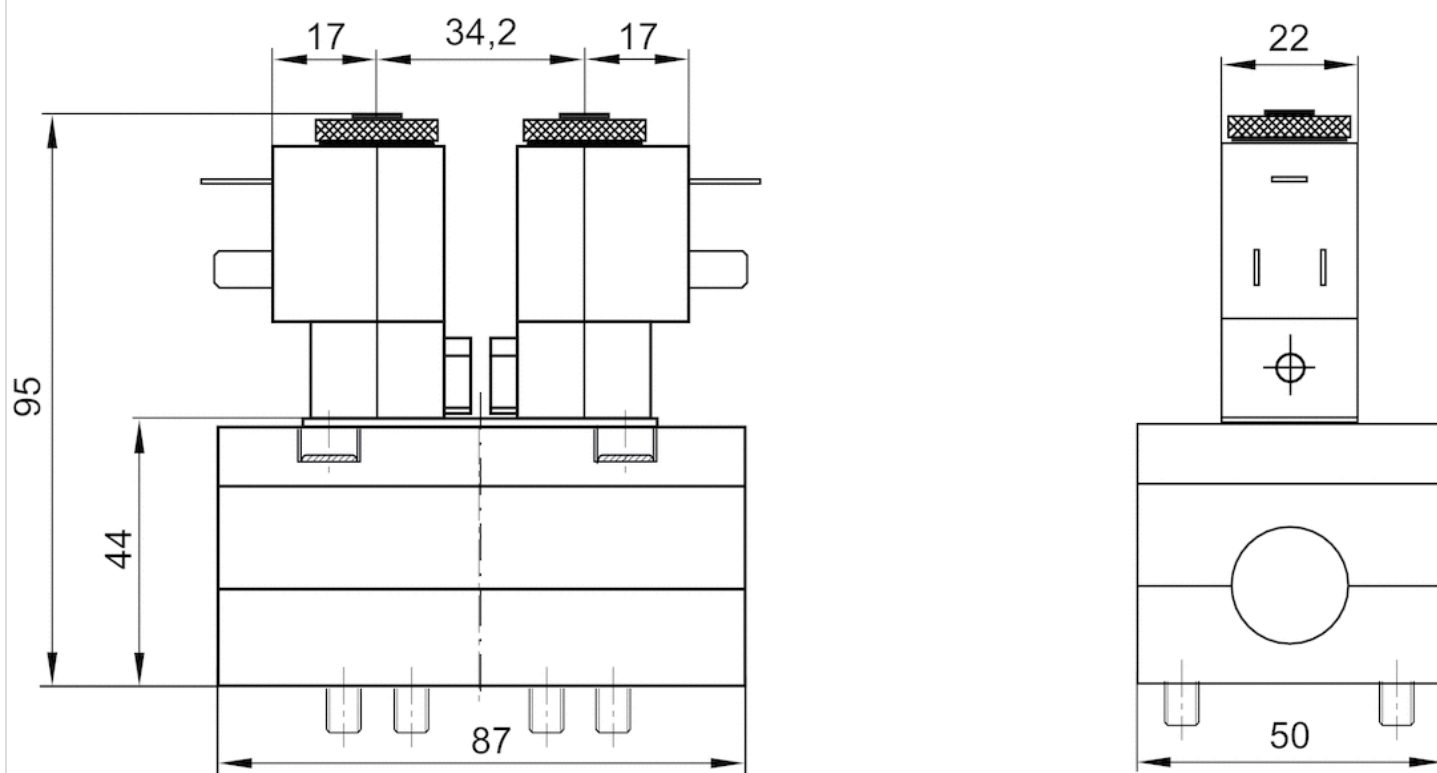
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812170540			24 V	42 V
5812170440			-	230 V
5812171540			24 V	42 V
5812171440			-	230 V
5812172540			24 V	42 V
5812172440			-	230 V
5812173540			24 V	42 V
5812173440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812170540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812170440	-	-10% / +10%	-	10,8 VA
5812171540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812171440	-	-10% / +10%	-	10,8 VA
5812172540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812172440	-	-10% / +10%	-	10,8 VA
5812173540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812173440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5812170540	12 VA	Internal	3 ... 16 bar
5812170440	15,2 VA	Internal	3 ... 16 bar
5812171540	12 VA	Internal	3 ... 16 bar
5812171440	15,2 VA	Internal	3 ... 16 bar
5812172540	12 VA	External	-0,95 ... 16 bar
5812172440	15,2 VA	External	-0,95 ... 16 bar
5812173540	12 VA	External	-0,95 ... 16 bar
5812173440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5812170540	Plug EN 175301-803, form A	-
5812170440	Plug EN 175301-803, form A	-
5812171540	Plug EN 175301-803, form A	with throttle
5812171440	Plug EN 175301-803, form A	with throttle
5812172540	Plug EN 175301-803, form A	-
5812172440	Plug EN 175301-803, form A	-
5812173540	Plug EN 175301-803, form A	with throttle
5812173440	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

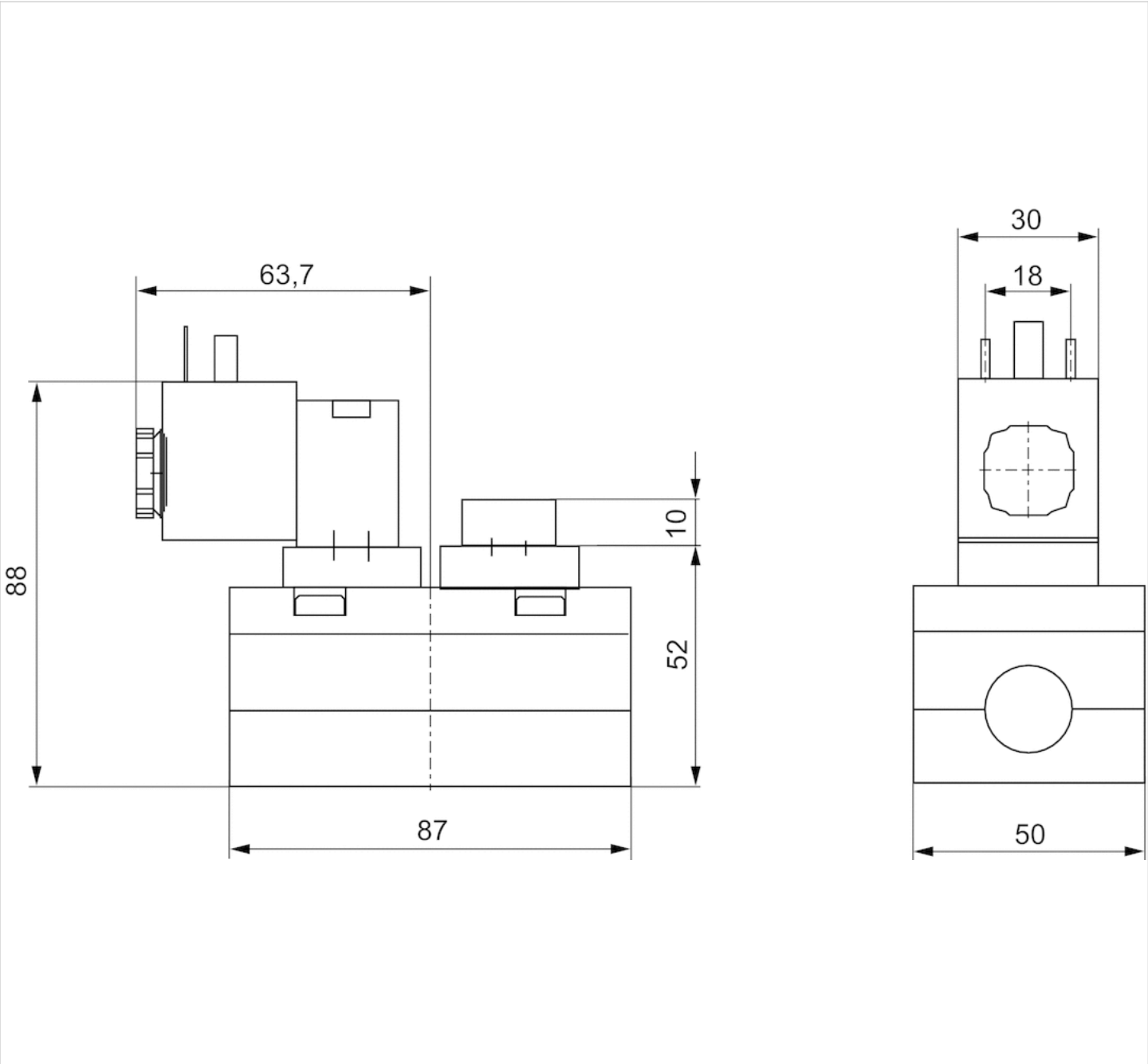
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812290540			24 V	42 V
5812290440			-	230 V
5812291540			24 V	42 V
5812291440			-	230 V
5812292540			24 V	42 V
5812292440			-	230 V
5812293540			24 V	42 V
5812293440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812290540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812290440	-	-10% / +10%	-	10,8 VA
5812291540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812291440	-	-10% / +10%	-	10,8 VA
5812292540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812292440	-	-10% / +10%	-	10,8 VA
5812293540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812293440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5812290540	12 VA	Internal	1,5 ... 16 bar
5812290440	15,2 VA	Internal	1,5 ... 16 bar
5812291540	12 VA	Internal	1,5 ... 16 bar
5812291440	15,2 VA	Internal	1,5 ... 16 bar
5812292540	12 VA	External	-0,95 ... 16 bar
5812292440	15,2 VA	External	-0,95 ... 16 bar
5812293540	12 VA	External	-0,95 ... 16 bar
5812293440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5812290540	Plug EN 175301-803, form A	-
5812290440	Plug EN 175301-803, form A	-
5812291540	Plug EN 175301-803, form A	with throttle
5812291440	Plug EN 175301-803, form A	with throttle
5812292540	Plug EN 175301-803, form A	-
5812292440	Plug EN 175301-803, form A	-
5812293540	Plug EN 175301-803, form A	with throttle
5812293440	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

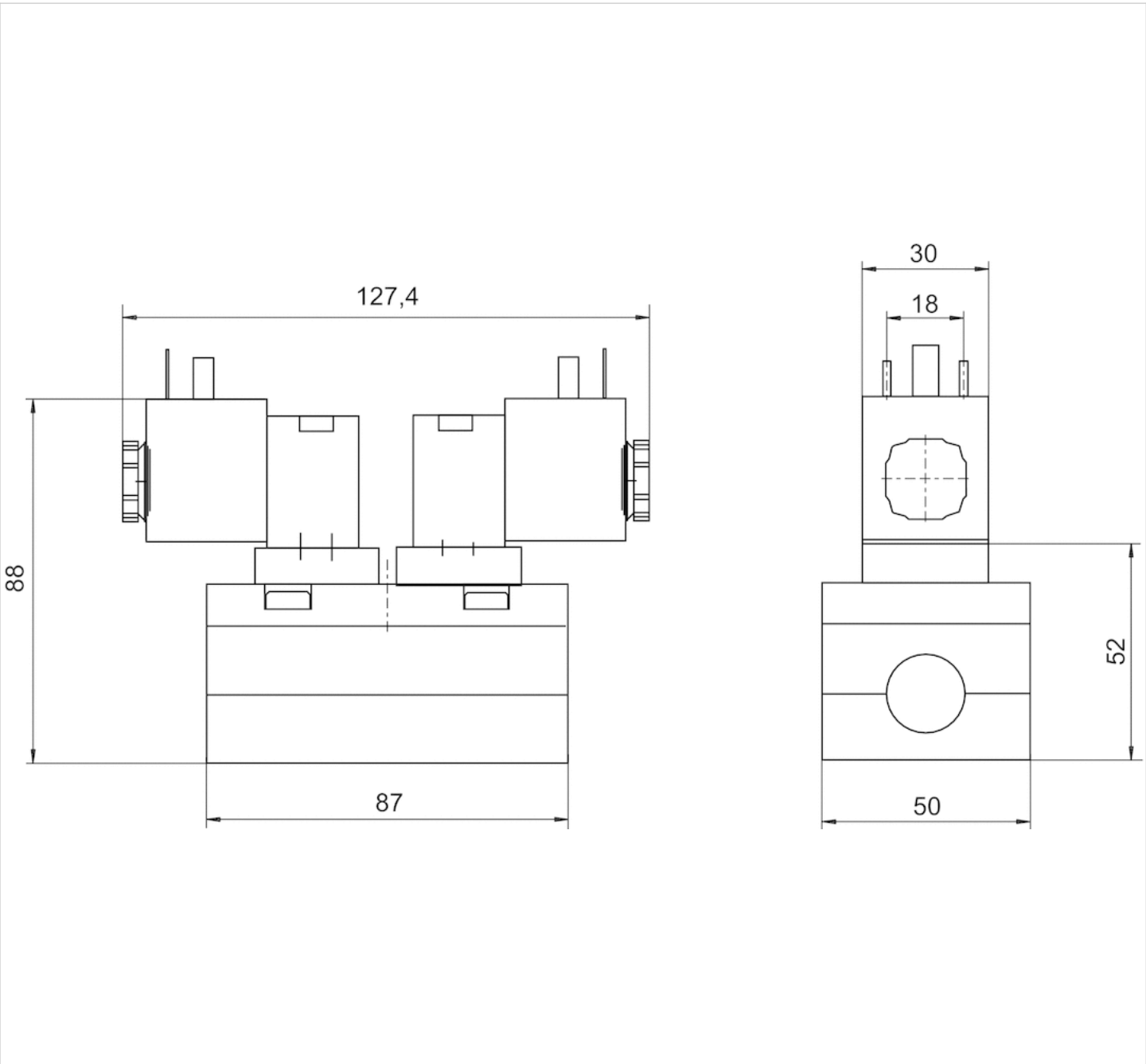
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	2,7 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812670540			24 V	42 V
5812670440			-	230 V
5812671540			24 V	42 V
5812671440			-	230 V
5812672540			24 V	42 V
5812672440			-	230 V
5812673540			24 V	42 V
5812673440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812670540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812670440	-	-10% / +10%	-	10,8 VA
5812671540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812671440	-	-10% / +10%	-	10,8 VA
5812672540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812672440	-	-10% / +10%	-	10,8 VA
5812673540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5812673440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5812670540	12 VA	Internal	2,7 ... 16 bar
5812670440	15,2 VA	Internal	2,7 ... 16 bar
5812671540	12 VA	Internal	2,7 ... 16 bar
5812671440	15,2 VA	Internal	2,7 ... 16 bar
5812672540	12 VA	External	-0,95 ... 16 bar
5812672440	15,2 VA	External	-0,95 ... 16 bar
5812673540	12 VA	External	-0,95 ... 16 bar
5812673440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5812670540	Plug EN 175301-803, form A	-
5812670440	Plug EN 175301-803, form A	-
5812671540	Plug EN 175301-803, form A	with throttle
5812671440	Plug EN 175301-803, form A	with throttle
5812672540	Plug EN 175301-803, form A	-
5812672440	Plug EN 175301-803, form A	-
5812673540	Plug EN 175301-803, form A	with throttle
5812673440	Plug EN 175301-803, form A	with throttle

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

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

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

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

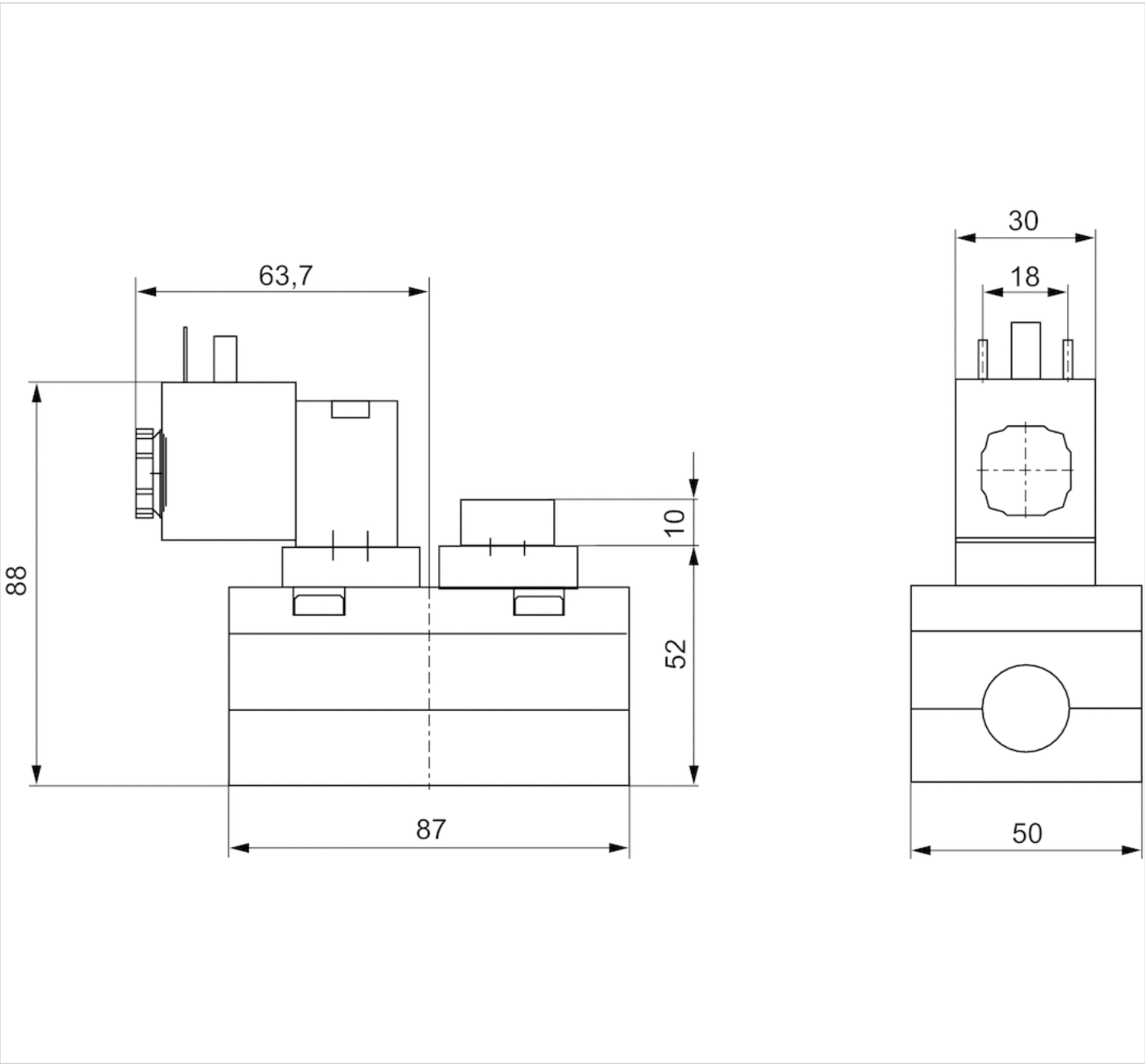
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

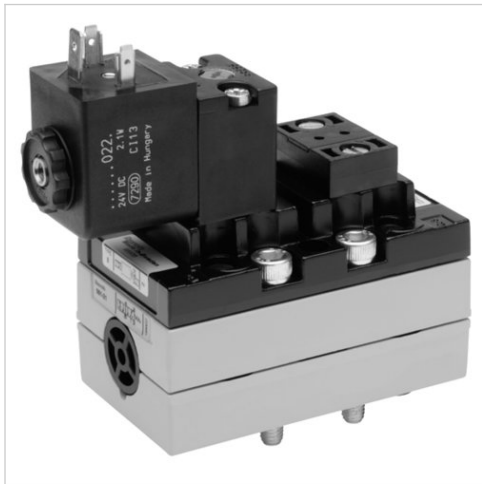
Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical information

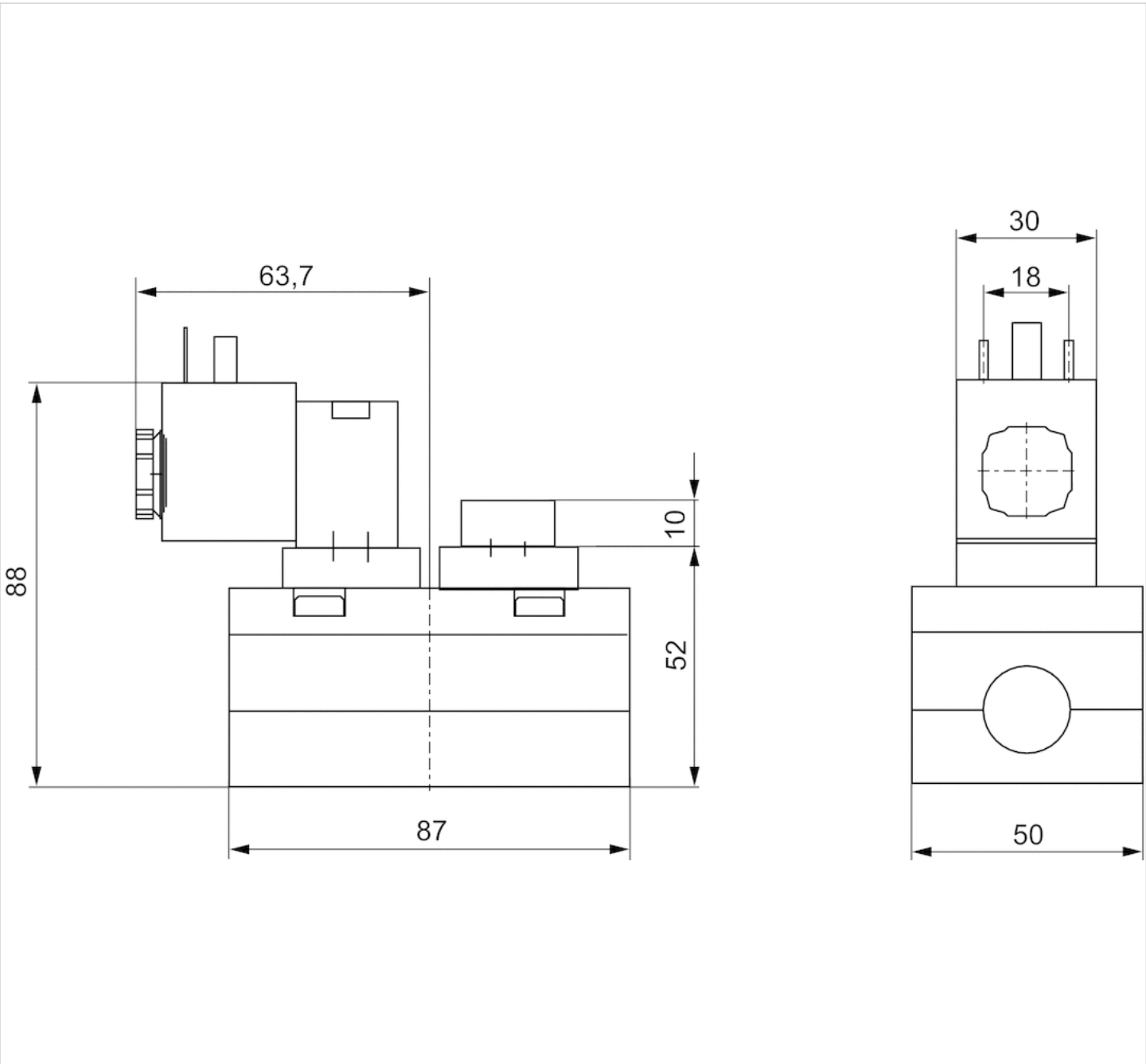
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812290650		T R - T R - T R - T R - T R - T R -	24 V	-
5812290450			-	230 V
5812291650			24 V	-
5812291450			-	230 V
5812292650			24 V	-
5812292450			-	230 V
5812293650			24 V	-
5812293450			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812290650	-10% / +10%	-	2 W	-
5812290450	-	-10% / +10%	-	4,8 VA
5812291650	-10% / +10%	-	2 W	-
5812291450	-	-10% / +10%	-	4,8 VA
5812292650	-10% / +10%	-	2 W	-
5812292450	-	-10% / +10%	-	4,8 VA
5812293650	-10% / +10%	-	2 W	-
5812293450	-	-10% / +10%	-	4,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.	Compatibility index
5812290650	-	Internal	1,5 ... 10 bar	14
5812290450	7 VA	Internal	1,5 ... 10 bar	14
5812291650	-	Internal	1,5 ... 10 bar	14
5812291450	7 VA	Internal	1,5 ... 10 bar	14
5812292650	-	External	-0,95 ... 10 bar	14
5812292450	7 VA	External	-0,95 ... 10 bar	14
5812293650	-	External	-0,95 ... 10 bar	14
5812293450	7 VA	External	-0,95 ... 10 bar	14

Part No.	Electrical connection Pilot valve	Throttle
5812290650	Plug EN 175301-803, form A	-
5812290450	Plug EN 175301-803, form A	-
5812291650	Plug EN 175301-803, form A	with throttle
5812291450	Plug EN 175301-803, form A	with throttle
5812292650	Plug EN 175301-803, form A	-
5812292450	Plug EN 175301-803, form A	-
5812293650	Plug EN 175301-803, form A	with throttle
5812293450	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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.

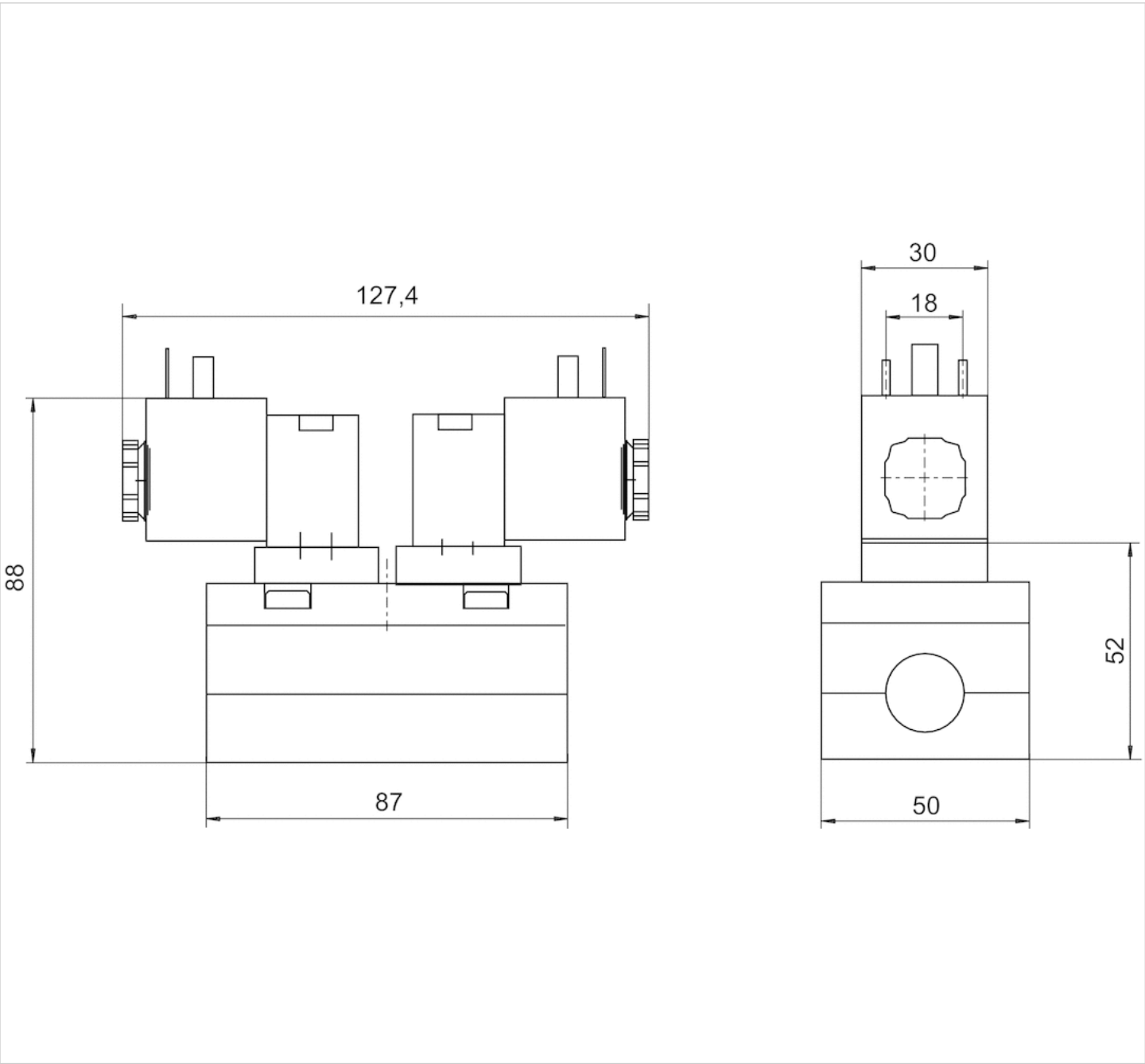
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

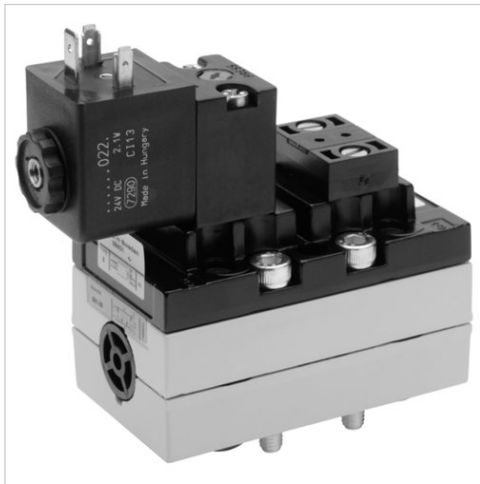
Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	2,7 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical information

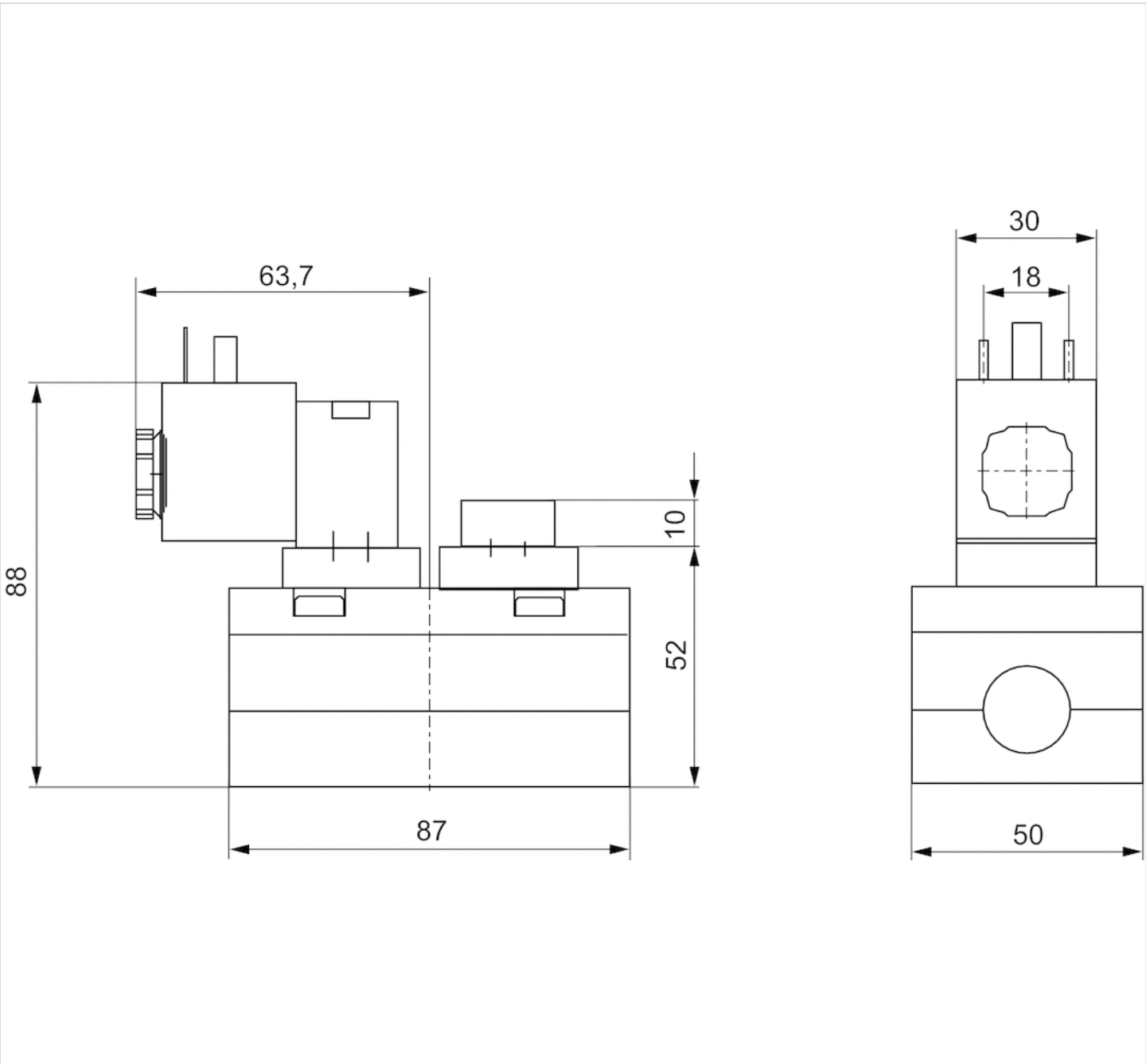
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5812290530		24 V	-	-10% / +10%
5812290430		-	230 V	-
5812291530		24 V	-	-10% / +10%
5812291430		-	230 V	-
5812292530		24 V	-	-10% / +10%
5812292430		-	230 V	-
5812293530		24 V	-	-10% / +10%
5812293430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5812290530	-10% / +10%	6,7 W	-	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5812290430	-10% / +10%	-	10,8 VA	15,2 VA
5812291530	-10% / +10%	6,7 W	-	-
5812291430	-10% / +10%	-	10,8 VA	15,2 VA
5812292530	-10% / +10%	6,7 W	-	-
5812292430	-10% / +10%	-	10,8 VA	15,2 VA
5812293530	-10% / +10%	6,7 W	-	-
5812293430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5812290530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5812290430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5812291530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812291430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812292530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812292430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812293530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812293430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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.

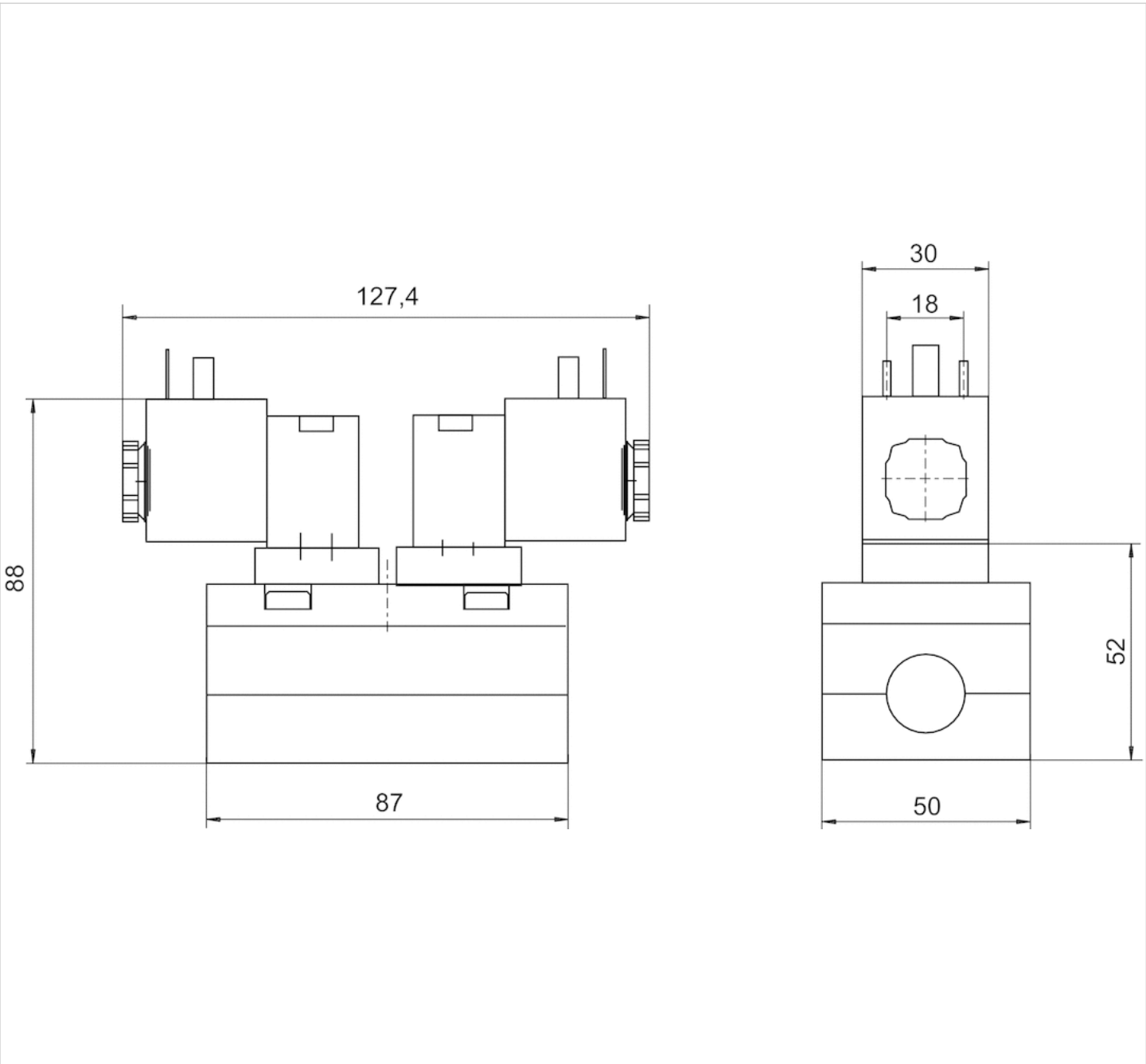
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	2,7 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5812670530		24 V	-	-10% / +10%
5812670430		-	230 V	-
5812671530		24 V	-	-10% / +10%
5812671430		-	230 V	-
5812672530		24 V	-	-10% / +10%
5812672430		-	230 V	-
5812673530		24 V	-	-10% / +10%
5812673430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5812670530	-10% / +10%	6,7 W	-	-
5812670430	-10% / +10%	-	10,8 VA	15,2 VA
5812671530	-10% / +10%	6,7 W	-	-
5812671430	-10% / +10%	-	10,8 VA	15,2 VA
5812672530	-10% / +10%	6,7 W	-	-
5812672430	-10% / +10%	-	10,8 VA	15,2 VA
5812673530	-10% / +10%	6,7 W	-	-
5812673430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5812670530	Internal	2,7 ... 16 bar	Plug EN 175301-803, form A	-
5812670430	Internal	2,7 ... 16 bar	Plug EN 175301-803, form A	-
5812671530	Internal	2,7 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812671430	Internal	2,7 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812672530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812672430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812673530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812673430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Q_n at 6 bar and Δp = 1 bar

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.

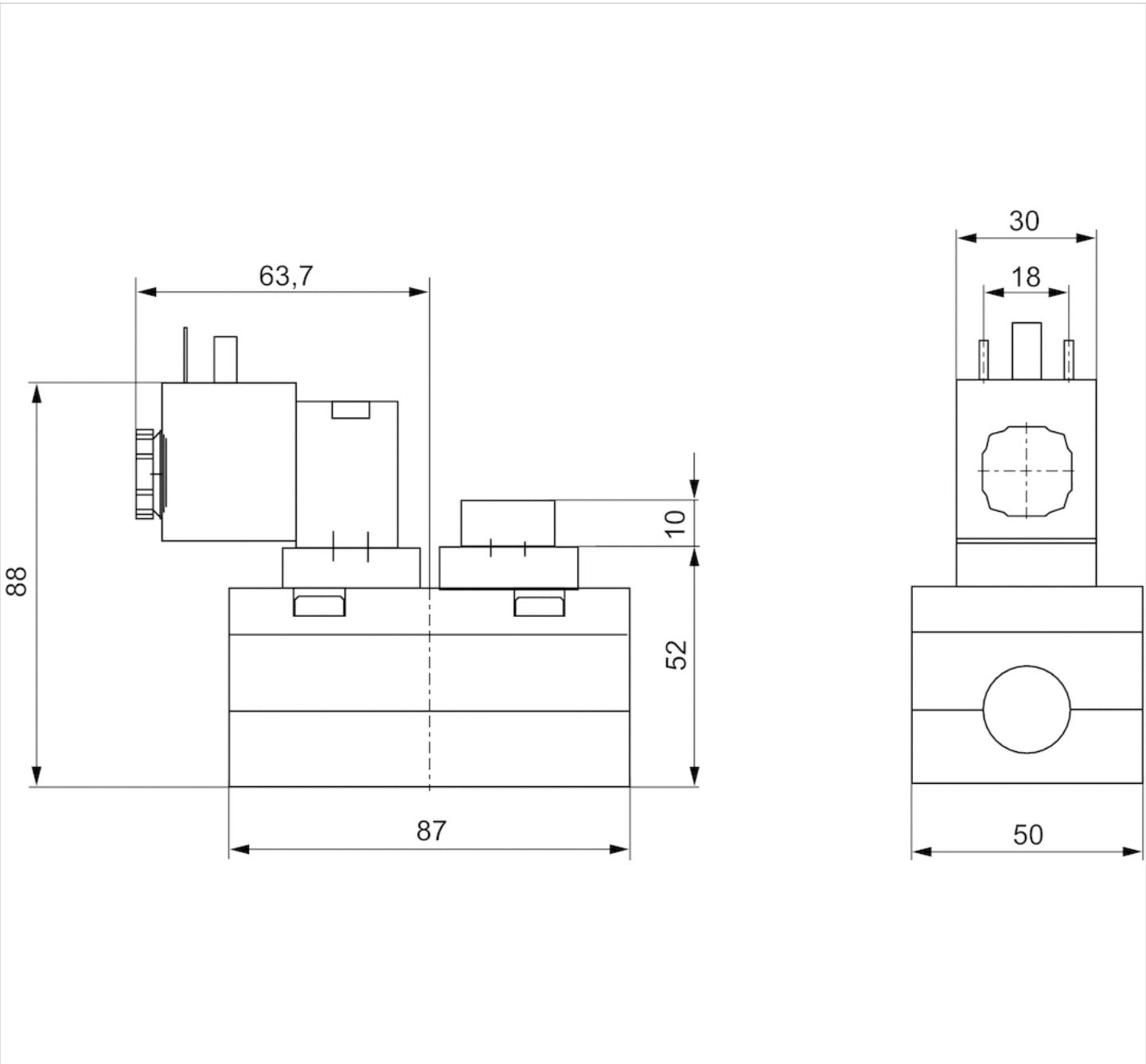
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,56 kg

Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5812170530		24 V	-	-10% / +10%
5812170430		-	230 V	-
5812171530		24 V	-	-10% / +10%
5812171430		-	230 V	-
5812172530		24 V	-	-10% / +10%
5812172430		-	230 V	-
5812173530		24 V	-	-10% / +10%
5812173430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5812170530	-10% / +10%	6,7 W	-	-
5812170430	-10% / +10%	-	10,8 VA	15,2 VA
5812171530	-10% / +10%	6,7 W	-	-
5812171430	-10% / +10%	-	10,8 VA	15,2 VA
5812172530	-10% / +10%	6,7 W	-	-
5812172430	-10% / +10%	-	10,8 VA	15,2 VA
5812173530	-10% / +10%	6,7 W	-	-
5812173430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5812170530	Internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5812170430	Internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5812171530	Internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812171430	Internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812172530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812172430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812173530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812173430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and Δp = 1 bar

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.

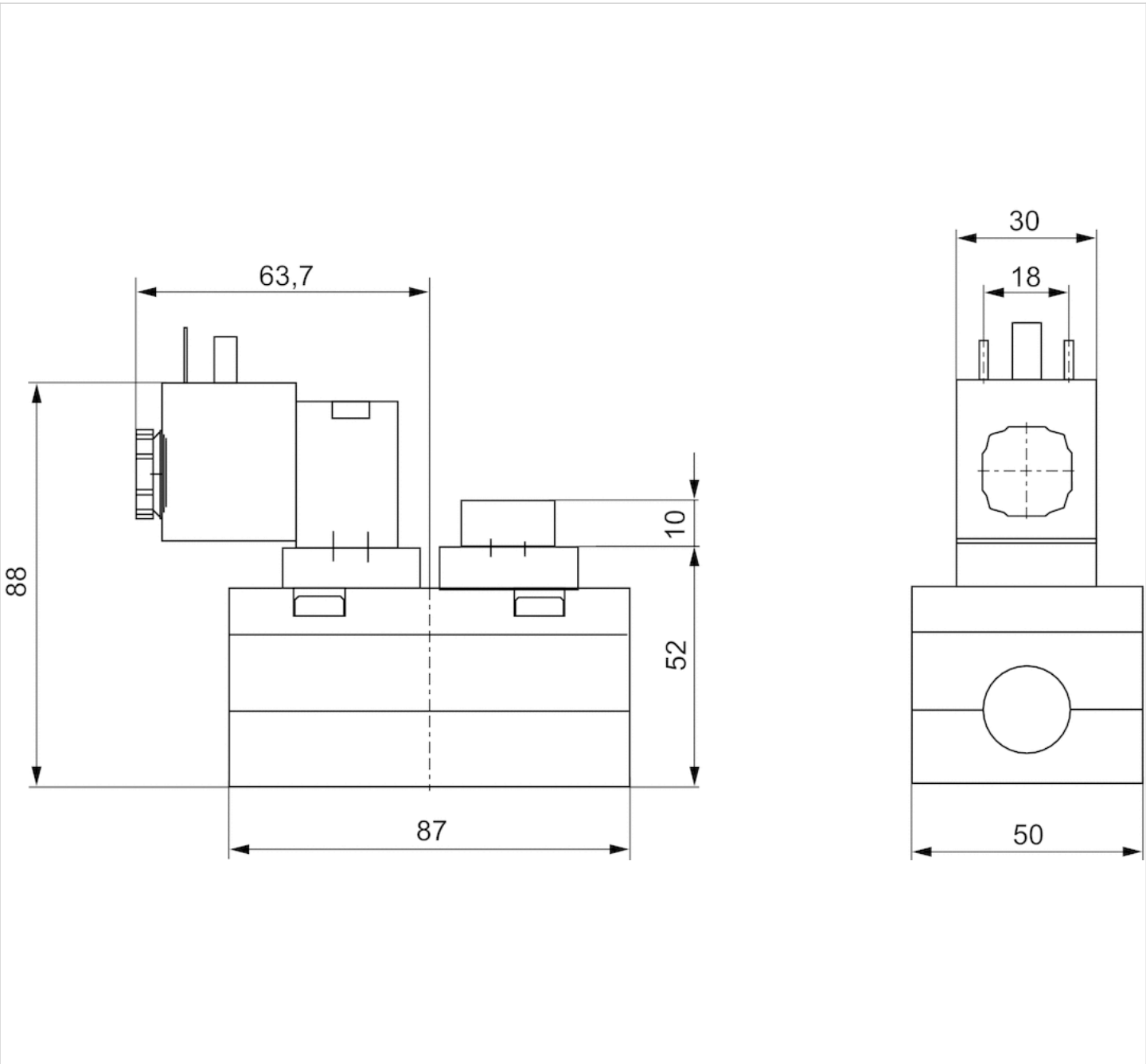
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,6 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812170190			24 V	-10% / +10%
5812171190			24 V	-10% / +10%
5812172190			24 V	-10% / +10%
5812173190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5812170190	6 W	Internal	3 ... 10 bar
5812171190	6 W	Internal	3 ... 10 bar
5812172190	6 W	External	-0,95 ... 10 bar
5812173190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812170190	Plug EN 175301-803, form A	-
5812171190	Plug EN 175301-803, form A	with throttle
5812172190	Plug EN 175301-803, form A	-
5812173190	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

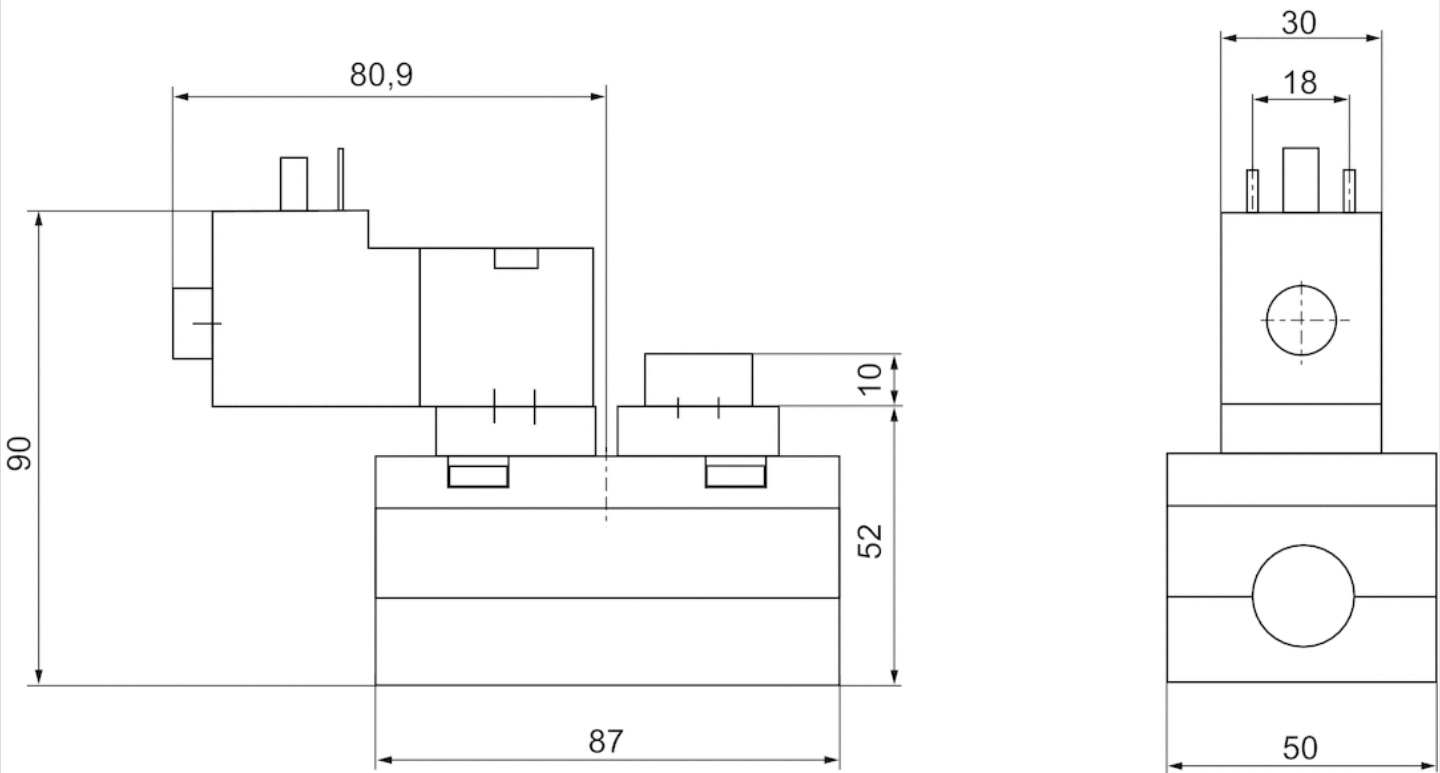
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	2,7 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,6 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812670190			24 V	-10% / +10%
5812671190			24 V	-10% / +10%
5812672190			24 V	-10% / +10%
5812673190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5812670190	6 W	Internal	2,7 ... 10 bar
5812671190	6 W	Internal	2,7 ... 10 bar
5812672190	6 W	External	-0,95 ... 10 bar
5812673190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812670190	Plug EN 175301-803, form A	-
5812671190	Plug EN 175301-803, form A	with throttle
5812672190	Plug EN 175301-803, form A	-
5812673190	Plug EN 175301-803, form A	with throttle

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

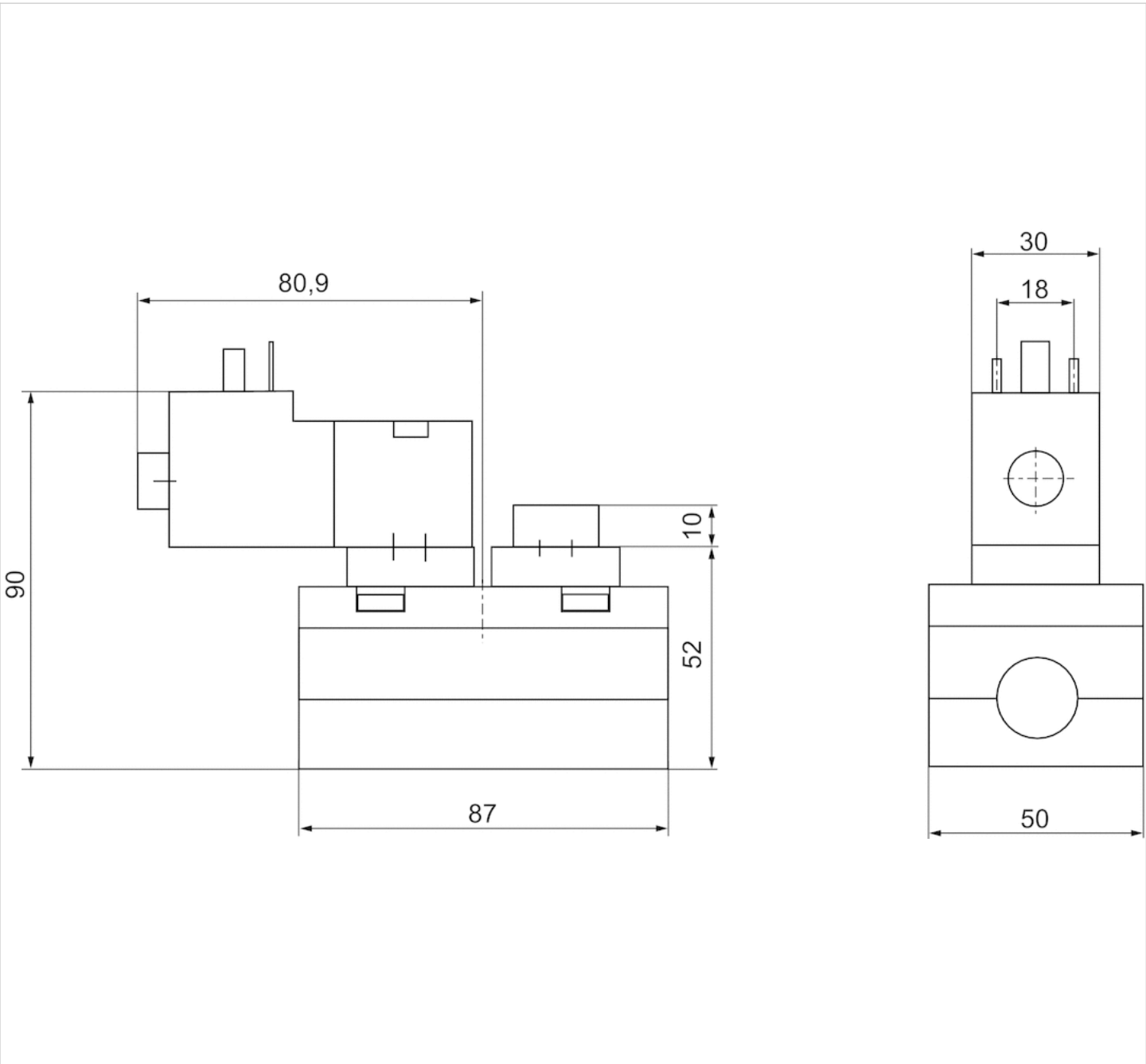
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,79 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812290190			24 V	-10% / +10%
5812291190			24 V	-10% / +10%
5812292190			24 V	-10% / +10%
5812293190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5812290190	6 W	Internal	1,5 ... 10 bar
5812291190	6 W	Internal	1,5 ... 10 bar
5812292190	6 W	External	-0,95 ... 10 bar
5812293190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812290190	Plug EN 175301-803, form A	-
5812291190	Plug EN 175301-803, form A	with throttle
5812292190	Plug EN 175301-803, form A	-
5812293190	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

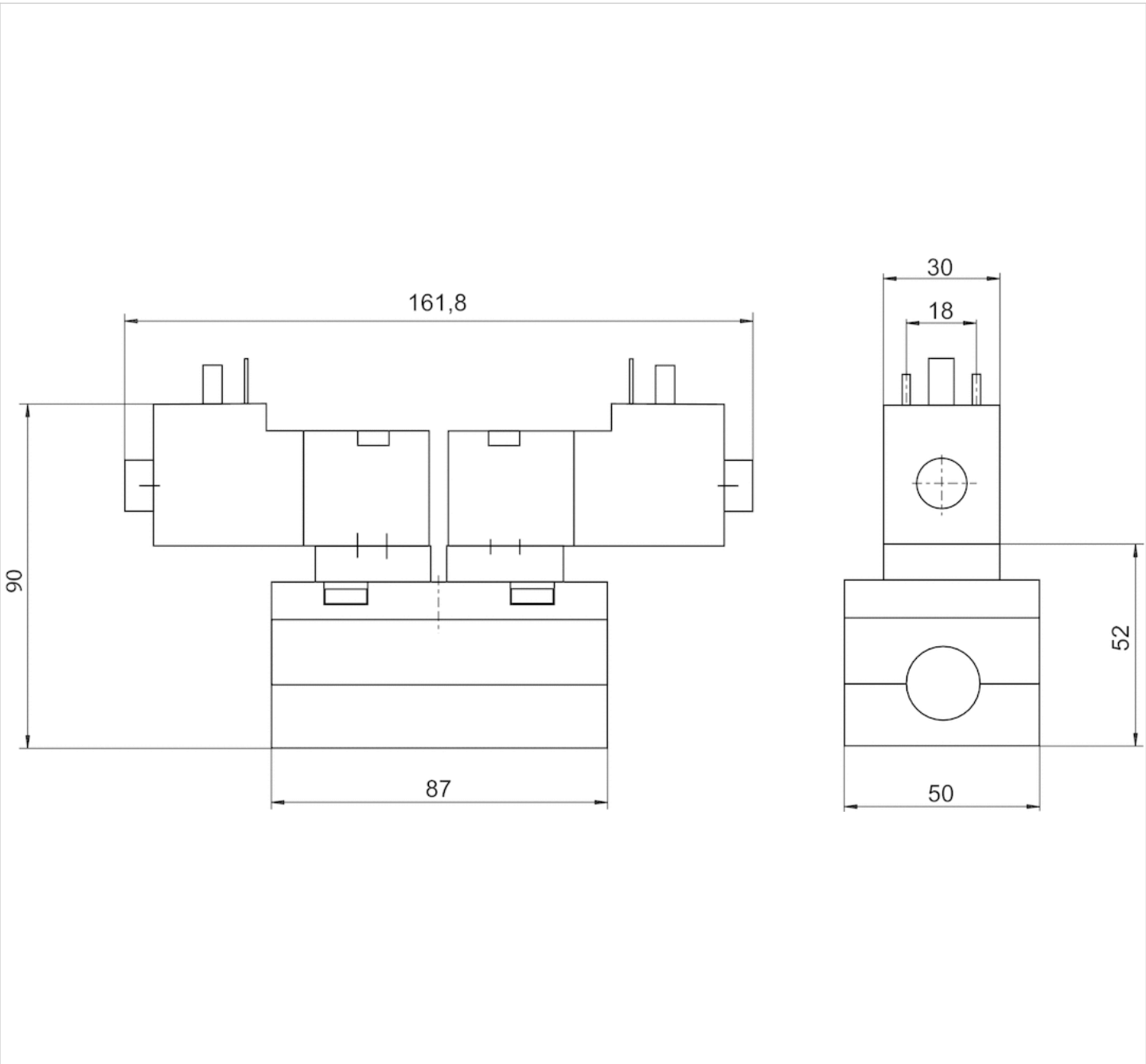
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



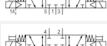
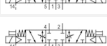
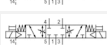
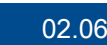
5/3-directional valve, Series 581, size 2

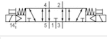
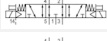
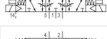
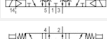
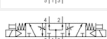
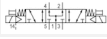
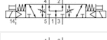
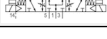
- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- Qn = 2100 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Qn	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	36 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Technical data

Part No.		MO			Operational voltage DC
5812490540				closed center	24 V
5812490440				closed center	-
5812491540				closed center	24 V
5812491440				closed center	-
5812492540				closed center	24 V
5812492440				closed center	-
5812493540				closed center	24 V
5812493440				closed center	-
5812590540				exhausted center	24 V
5812590440				exhausted center	-
5812591540				exhausted center	24 V
5812591440				exhausted center	-

Part No.		MO		Operational voltage DC
5812592540			exhausted center	24 V
5812592440			exhausted center	-
5812593540			exhausted center	24 V
5812593440			exhausted center	-
5812790540			pressurized center	24 V
5812790440			pressurized center	-
5812791540			pressurized center	24 V
5812791440			pressurized center	-
5812792540			pressurized center	24 V
5812792440			pressurized center	-
5812793540			pressurized center	24 V
5812793440			pressurized center	-

Part No.	Operational voltage AC 50 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5812490540	42 V	-10% / +10%	-10% / +10%
5812490440	230 V	-	-10% / +10%
5812491540	42 V	-10% / +10%	-10% / +10%
5812491440	230 V	-	-10% / +10%
5812492540	42 V	-10% / +10%	-10% / +10%
5812492440	230 V	-	-10% / +10%
5812493540	42 V	-10% / +10%	-10% / +10%
5812493440	230 V	-	-10% / +10%
5812590540	42 V	-10% / +10%	-10% / +10%
5812590440	230 V	-	-10% / +10%
5812591540	42 V	-10% / +10%	-10% / +10%
5812591440	230 V	-	-10% / +10%
5812592540	42 V	-10% / +10%	-10% / +10%
5812592440	230 V	-	-10% / +10%
5812593540	42 V	-10% / +10%	-10% / +10%
5812593440	230 V	-	-10% / +10%
5812790540	42 V	-10% / +10%	-10% / +10%
5812790440	230 V	-	-10% / +10%
5812791540	42 V	-10% / +10%	-10% / +10%
5812791440	230 V	-	-10% / +10%
5812792540	42 V	-10% / +10%	-10% / +10%
5812792440	230 V	-	-10% / +10%
5812793540	42 V	-10% / +10%	-10% / +10%
5812793440	230 V	-	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5812490540	6,7 W	7,7 VA	12 VA	Internal
5812490440	-	10,8 VA	15,2 VA	Internal
5812491540	6,7 W	7,7 VA	12 VA	Internal
5812491440	-	10,8 VA	15,2 VA	Internal

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5812492540	6,7 W	7,7 VA	12 VA	External
5812492440	-	10,8 VA	15,2 VA	External
5812493540	6,7 W	7,7 VA	12 VA	External
5812493440	-	10,8 VA	15,2 VA	External
5812590540	6,7 W	7,7 VA	12 VA	Internal
5812590440	-	10,8 VA	15,2 VA	Internal
5812591540	6,7 W	7,7 VA	12 VA	Internal
5812591440	-	10,8 VA	15,2 VA	Internal
5812592540	6,7 W	7,7 VA	12 VA	External
5812592440	-	10,8 VA	15,2 VA	External
5812593540	6,7 W	7,7 VA	12 VA	External
5812593440	-	10,8 VA	15,2 VA	External
5812790540	6,7 W	7,7 VA	12 VA	Internal
5812790440	-	10,8 VA	15,2 VA	Internal
5812791540	6,7 W	7,7 VA	12 VA	Internal
5812791440	-	10,8 VA	15,2 VA	Internal
5812792540	6,7 W	7,7 VA	12 VA	External
5812792440	-	10,8 VA	15,2 VA	External
5812793540	6,7 W	7,7 VA	12 VA	External
5812793440	-	10,8 VA	15,2 VA	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5812490540	3 ... 16 bar	Plug EN 175301-803, form A	-
5812490440	3 ... 16 bar	Plug EN 175301-803, form A	-
5812491540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812491440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812492540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812492440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812493540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812493440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812590540	3 ... 16 bar	Plug EN 175301-803, form A	-
5812590440	3 ... 16 bar	Plug EN 175301-803, form A	-
5812591540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812591440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812592540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812592440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812593540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812593440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812790540	3 ... 16 bar	Plug EN 175301-803, form A	-
5812790440	3 ... 16 bar	Plug EN 175301-803, form A	-
5812791540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812791440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812792540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812792440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5812793540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5812793440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

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

Technical information

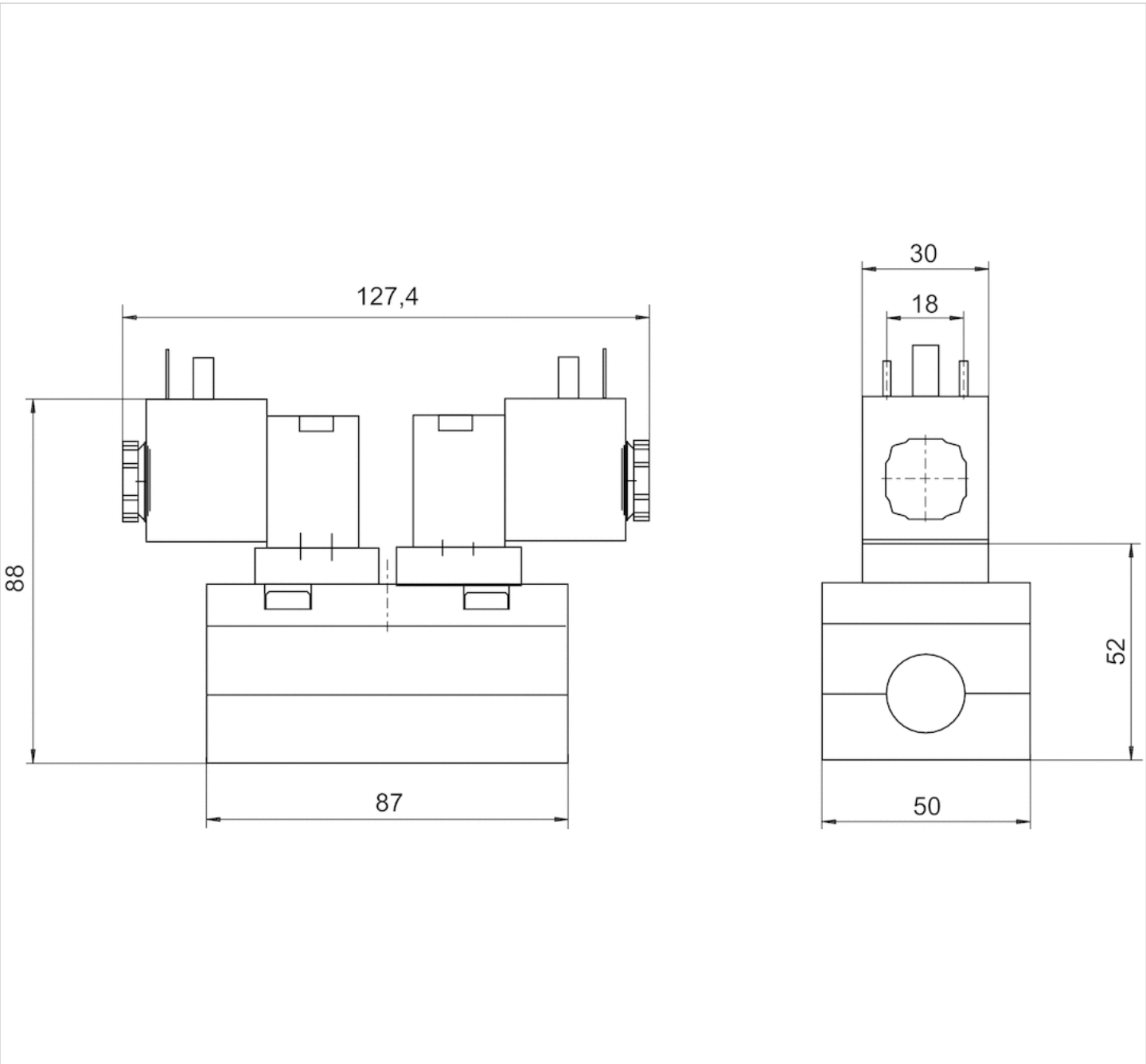
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	36 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Part No.		MO		Operational voltage DC
5812490650			closed center	24 V
5812490450			closed center	-
5812491650			closed center	24 V
5812491450			closed center	-
5812492650			closed center	24 V
5812492450			closed center	-
5812493650			closed center	24 V
5812493450			closed center	-
5812590650			exhausted center	24 V
5812590450			exhausted center	-
5812591650			exhausted center	24 V
5812591450			exhausted center	-
5812592650			exhausted center	24 V
5812592450			exhausted center	-
5812593650			exhausted center	24 V
5812593450			exhausted center	-
5812790650			pressurized center	24 V
5812790450			pressurized center	-
5812791650			pressurized center	24 V
5812791450			pressurized center	-
5812792650			pressurized center	24 V
5812792450			pressurized center	-
5812793650			pressurized center	24 V
5812793450			pressurized center	-

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Part No.	Operational voltage AC 50 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5812790650	-	-10% / +10%	-
5812790450	230 V	-	-10% / +10%
5812791650	-	-10% / +10%	-
5812791450	230 V	-	-10% / +10%
5812792650	-	-10% / +10%	-
5812792450	230 V	-	-10% / +10%
5812793650	-	-10% / +10%	-
5812793450	230 V	-	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5812490650	2 W	-	-	Internal
5812490450	-	4,8 VA	7 VA	Internal
5812491650	2 W	-	-	Internal
5812491450	-	4,8 VA	7 VA	Internal
5812492650	2 W	-	-	External
5812492450	-	4,8 VA	7 VA	External
5812493650	2 W	-	-	External
5812493450	-	4,8 VA	7 VA	External
5812590650	2 W	-	-	Internal
5812590450	-	4,8 VA	7 VA	Internal
5812591650	2 W	-	-	Internal
5812591450	-	4,8 VA	7 VA	Internal
5812592650	2 W	-	-	External
5812592450	-	4,8 VA	7 VA	External
5812593650	2 W	-	-	External
5812593450	-	4,8 VA	7 VA	External
5812790650	2 W	-	-	Internal
5812790450	-	4,8 VA	7 VA	Internal
5812791650	2 W	-	-	Internal
5812791450	-	4,8 VA	7 VA	Internal
5812792650	2 W	-	-	External
5812792450	-	4,8 VA	7 VA	External
5812793650	2 W	-	-	External
5812793450	-	4,8 VA	7 VA	External

Part No.	Working pressure min./max.	Compatibility index	Electrical connection Pilot valve
5812490650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812490450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812491650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812491450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812492650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812492450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812493650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812493450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A

Part No.	Working pressure min./max.	Compatibility index	Electrical connection Pilot valve
5812590650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812590450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812591650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812591450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812592650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812592450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812593650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812593450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812790650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812790450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812791650	3 ... 10 bar	14	Plug EN 175301-803, form A
5812791450	3 ... 10 bar	14	Plug EN 175301-803, form A
5812792650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812792450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812793650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5812793450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A

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

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

Technical information

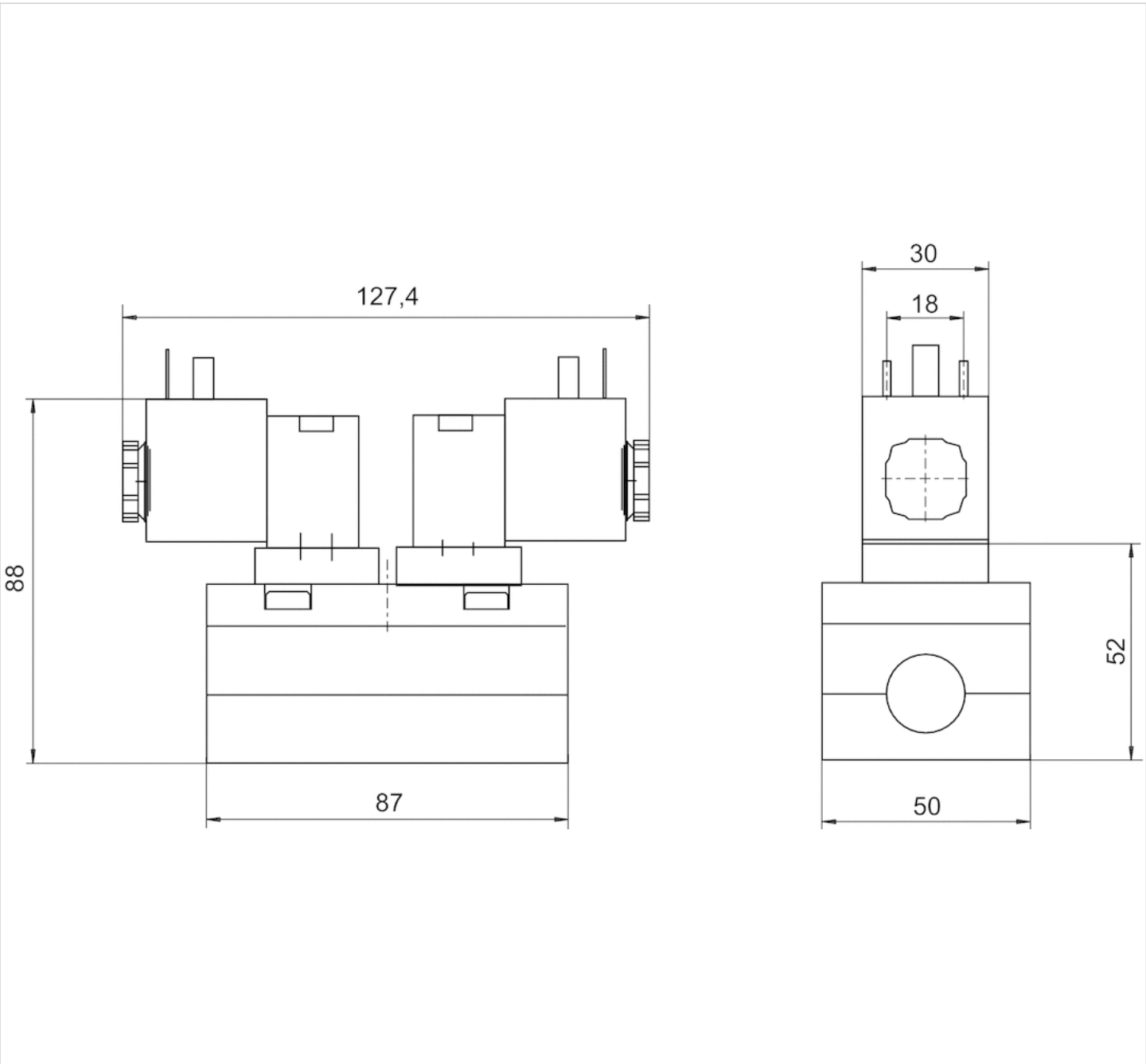
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



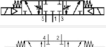
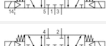
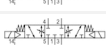
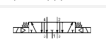
5/3-directional valve, Series 581, size 2

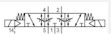
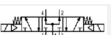
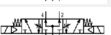
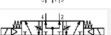
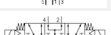
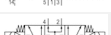
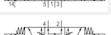
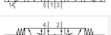
- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	36 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,71 kg

Technical data

Part No.			Operational voltage DC	Operational voltage AC 50 Hz
5812490530		closed center	24 V	-
5812490430		closed center	-	230 V
5812491530		closed center	24 V	-
5812491430		closed center	-	230 V
5812492530		closed center	24 V	-
5812492430		closed center	-	230 V
5812493530		closed center	24 V	-
5812493430		closed center	-	230 V
5812590530		exhausted center	24 V	-
5812590430		exhausted center	-	230 V
5812591530		exhausted center	24 V	-
5812591430		exhausted center	-	230 V

Part No.			Operational voltage DC	Operational voltage AC 50 Hz
5812592530		exhausted center	24 V	-
5812592430		exhausted center	-	230 V
5812593530		exhausted center	24 V	-
5812593430		exhausted center	-	230 V
5812790530		pressurized center	24 V	-
5812790430		pressurized center	-	230 V
5812791530		pressurized center	24 V	-
5812791430		pressurized center	-	230 V
5812792530		pressurized center	24 V	-
5812792430		pressurized center	-	230 V
5812793530		pressurized center	24 V	-
5812793430		pressurized center	-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5812490530	-10% / +10%	-10% / +10%	6,7 W	-
5812490430	-	-10% / +10%	-	10,8 VA
5812491530	-10% / +10%	-10% / +10%	6,7 W	-
5812491430	-	-10% / +10%	-	10,8 VA
5812492530	-10% / +10%	-10% / +10%	6,7 W	-
5812492430	-	-10% / +10%	-	10,8 VA
5812493530	-10% / +10%	-10% / +10%	6,7 W	-
5812493430	-	-10% / +10%	-	10,8 VA
5812590530	-10% / +10%	-10% / +10%	6,7 W	-
5812590430	-	-10% / +10%	-	10,8 VA
5812591530	-10% / +10%	-10% / +10%	6,7 W	-
5812591430	-	-10% / +10%	-	10,8 VA
5812592530	-10% / +10%	-10% / +10%	6,7 W	-
5812592430	-	-10% / +10%	-	10,8 VA
5812593530	-10% / +10%	-10% / +10%	6,7 W	-
5812593430	-	-10% / +10%	-	10,8 VA
5812790530	-10% / +10%	-10% / +10%	6,7 W	-
5812790430	-	-10% / +10%	-	10,8 VA
5812791530	-10% / +10%	-10% / +10%	6,7 W	-
5812791430	-	-10% / +10%	-	10,8 VA
5812792530	-10% / +10%	-10% / +10%	6,7 W	-
5812792430	-	-10% / +10%	-	10,8 VA
5812793530	-10% / +10%	-10% / +10%	6,7 W	-
5812793430	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5812490530	-	Internal	3 ... 16 bar
5812490430	15,2 VA	Internal	3 ... 16 bar
5812491530	-	Internal	3 ... 16 bar
5812491430	15,2 VA	Internal	3 ... 16 bar

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5812492530	-	External	-0,95 ... 16 bar
5812492430	15,2 VA	External	-0,95 ... 16 bar
5812493530	-	External	-0,95 ... 16 bar
5812493430	15,2 VA	External	-0,95 ... 16 bar
5812590530	-	Internal	3 ... 16 bar
5812590430	15,2 VA	Internal	3 ... 16 bar
5812591530	-	Internal	3 ... 16 bar
5812591430	15,2 VA	Internal	3 ... 16 bar
5812592530	-	External	-0,95 ... 16 bar
5812592430	15,2 VA	External	-0,95 ... 16 bar
5812593530	-	External	-0,95 ... 16 bar
5812593430	15,2 VA	External	-0,95 ... 16 bar
5812790530	-	Internal	3 ... 16 bar
5812790430	15,2 VA	Internal	3 ... 16 bar
5812791530	-	Internal	3 ... 16 bar
5812791430	15,2 VA	Internal	3 ... 16 bar
5812792530	-	External	-0,95 ... 16 bar
5812792430	15,2 VA	External	-0,95 ... 16 bar
5812793530	-	External	-0,95 ... 16 bar
5812793430	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5812490530	Plug EN 175301-803, form A	-
5812490430	Plug EN 175301-803, form A	-
5812491530	Plug EN 175301-803, form A	with throttle
5812491430	Plug EN 175301-803, form A	with throttle
5812492530	Plug EN 175301-803, form A	-
5812492430	Plug EN 175301-803, form A	-
5812493530	Plug EN 175301-803, form A	with throttle
5812493430	Plug EN 175301-803, form A	with throttle
5812590530	Plug EN 175301-803, form A	-
5812590430	Plug EN 175301-803, form A	-
5812591530	Plug EN 175301-803, form A	with throttle
5812591430	Plug EN 175301-803, form A	with throttle
5812592530	Plug EN 175301-803, form A	-
5812592430	Plug EN 175301-803, form A	-
5812593530	Plug EN 175301-803, form A	with throttle
5812593430	Plug EN 175301-803, form A	with throttle
5812790530	Plug EN 175301-803, form A	-
5812790430	Plug EN 175301-803, form A	-
5812791530	Plug EN 175301-803, form A	with throttle
5812791430	Plug EN 175301-803, form A	with throttle
5812792530	Plug EN 175301-803, form A	-
5812792430	Plug EN 175301-803, form A	-
5812793530	Plug EN 175301-803, form A	with throttle
5812793430	Plug EN 175301-803, form A	with throttle

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Technical information

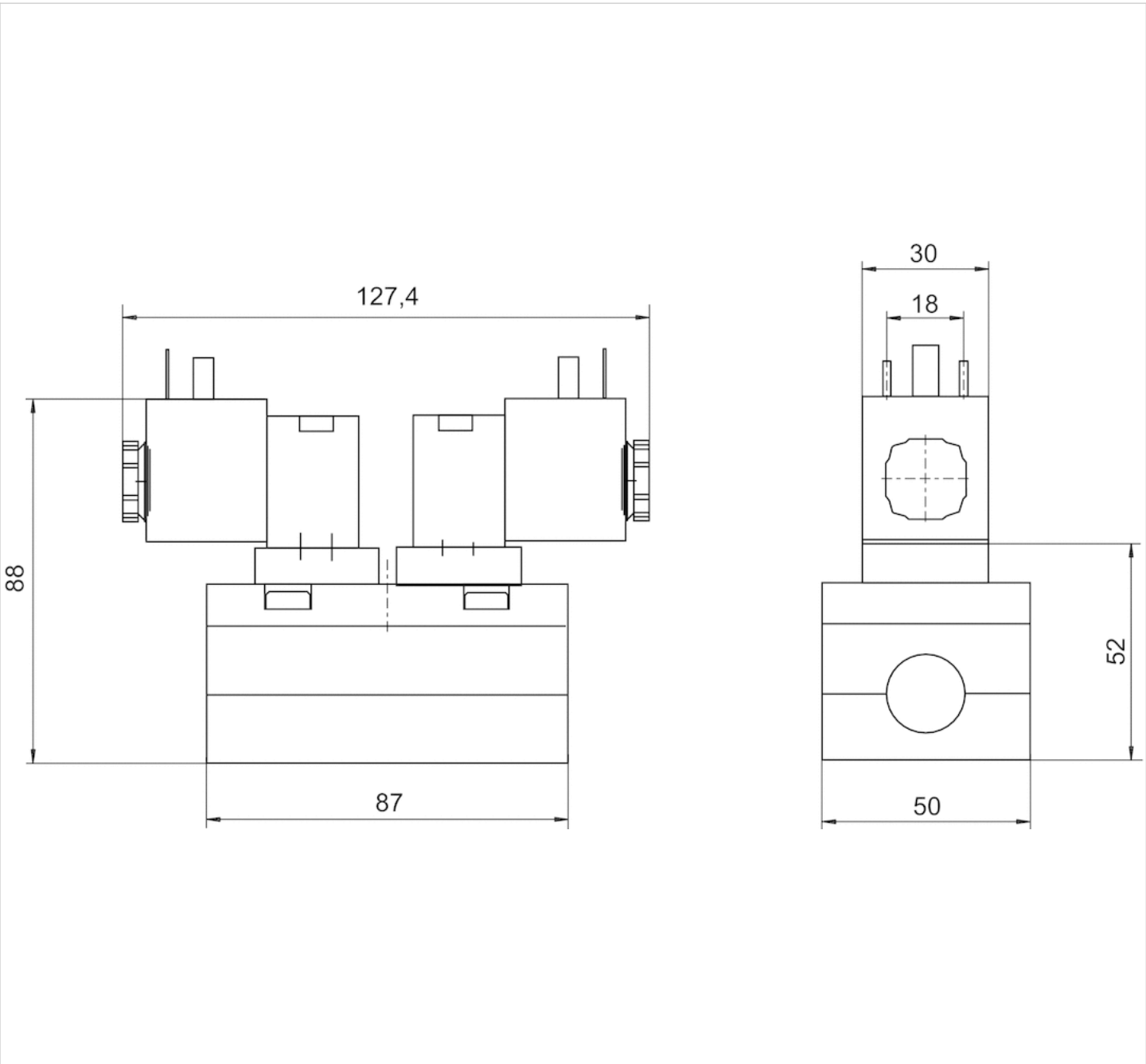
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



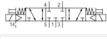
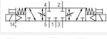
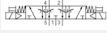
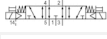
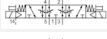
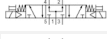
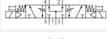
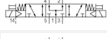
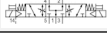
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- Qn = 2100 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	36 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,79 kg

Technical data

Part No.		MO			Operational voltage DC
5812490190				closed center	24 V
5812491190				closed center	24 V
5812492190				closed center	24 V
5812493190				closed center	24 V
5812590190				exhausted center	24 V
5812591190				exhausted center	24 V
5812592190				exhausted center	24 V
5812593190				exhausted center	24 V
5812790190				pressurized center	24 V
5812791190				pressurized center	24 V
5812792190				pressurized center	24 V
5812793190				pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Working pressure min./max.
5812490190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812491190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812492190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5812493190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5812590190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812591190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812592190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5812593190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5812790190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812791190	-10% / +10%	6 W	Internal	3 ... 10 bar
5812792190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5812793190	-10% / +10%	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5812490190	Plug EN 175301-803, form A	-
5812491190	Plug EN 175301-803, form A	with throttle
5812492190	Plug EN 175301-803, form A	-
5812493190	Plug EN 175301-803, form A	with throttle
5812590190	Plug EN 175301-803, form A	-
5812591190	Plug EN 175301-803, form A	with throttle
5812592190	Plug EN 175301-803, form A	-
5812593190	Plug EN 175301-803, form A	with throttle
5812790190	Plug EN 175301-803, form A	-
5812791190	Plug EN 175301-803, form A	with throttle
5812792190	Plug EN 175301-803, form A	-
5812793190	Plug EN 175301-803, form A	with throttle

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

Technical information

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

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

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

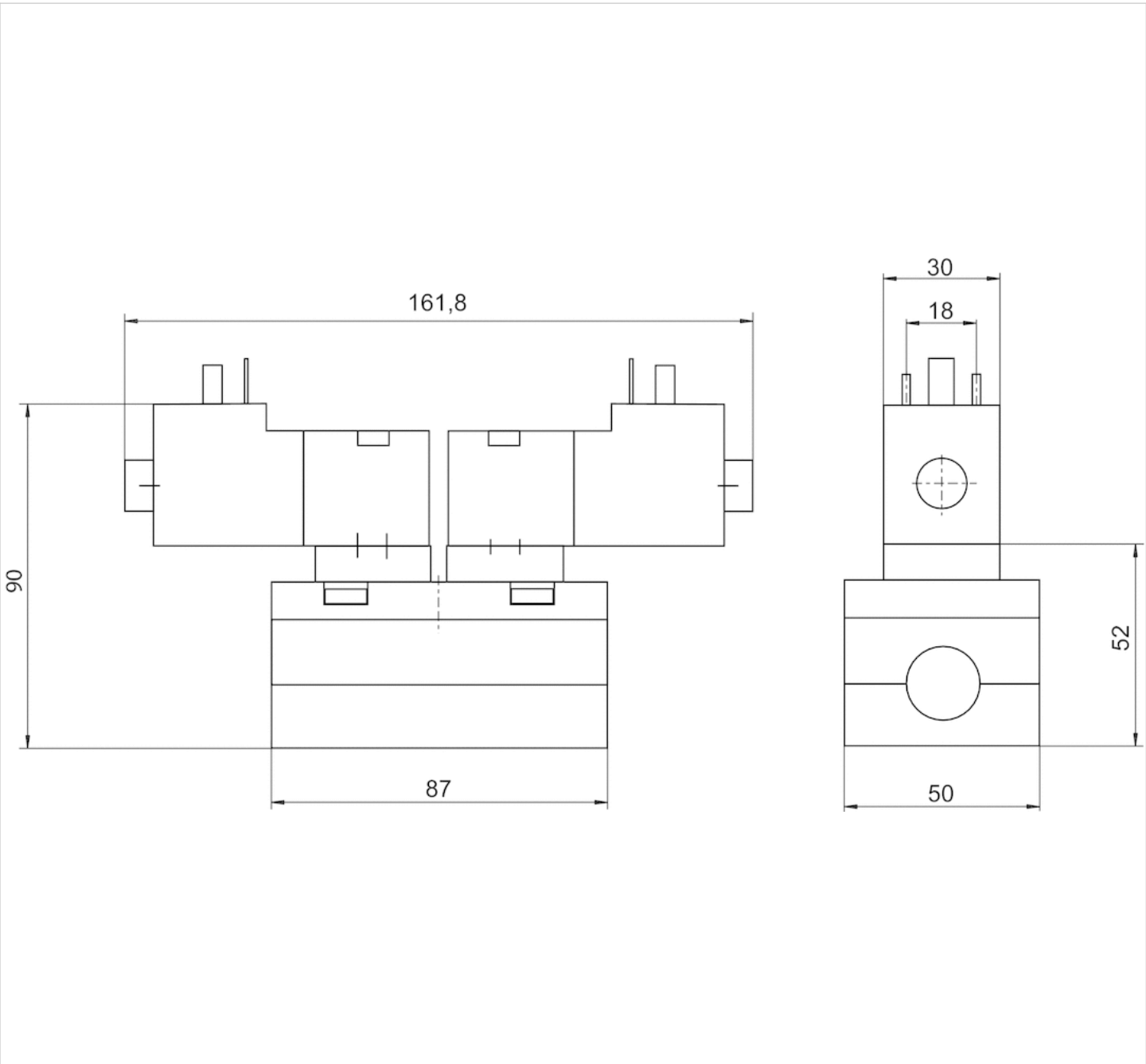
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10.8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	35 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.28 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812612720			24 V	-10% / +10%
5812612710			24 V	-10% / +10%
5812610720			24 V	-10% / +10%
5812610710			24 V	-10% / +10%
5812613720			24 V	-10% / +10%
5812613710			24 V	-10% / +10%
5812611720			24 V	-10% / +10%
5812611710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5812612720	0.35 W	External	Plug M12 4-pin	-
5812612710	0.35 W	External	Plug M12 4-pin	-
5812610720	0.35 W	Internal	Plug M12 4-pin	-
5812610710	0.35 W	Internal	Plug M12 4-pin	-
5812613720	0.35 W	External	Plug M12 4-pin	with throttle
5812613710	0.35 W	External	Plug M12 4-pin	with throttle
5812611720	0.35 W	Internal	Plug M12 4-pin	with throttle
5812611710	0.35 W	Internal	Plug M12 4-pin	with throttle

Differential piston, signal 14 has priority, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

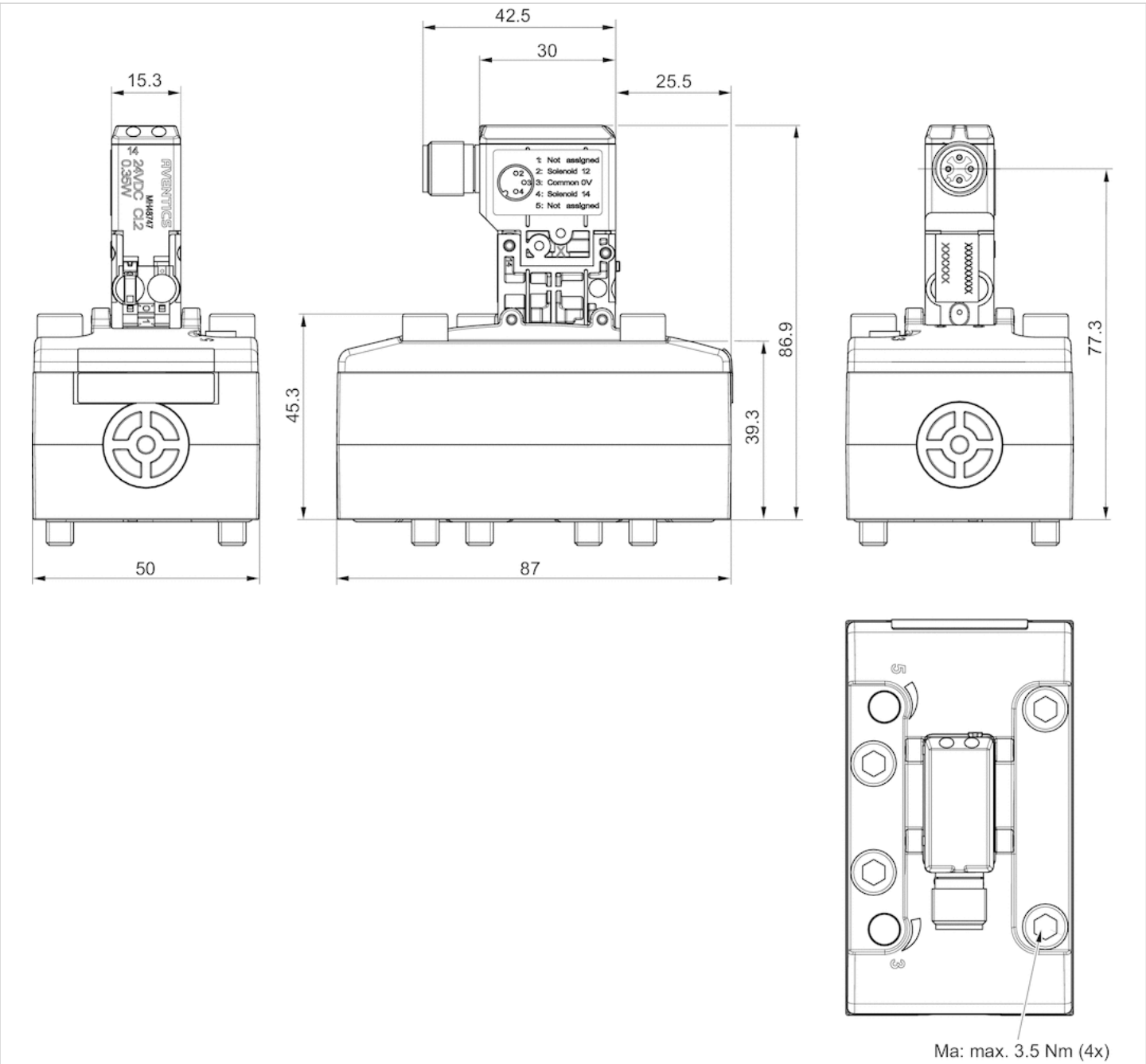
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

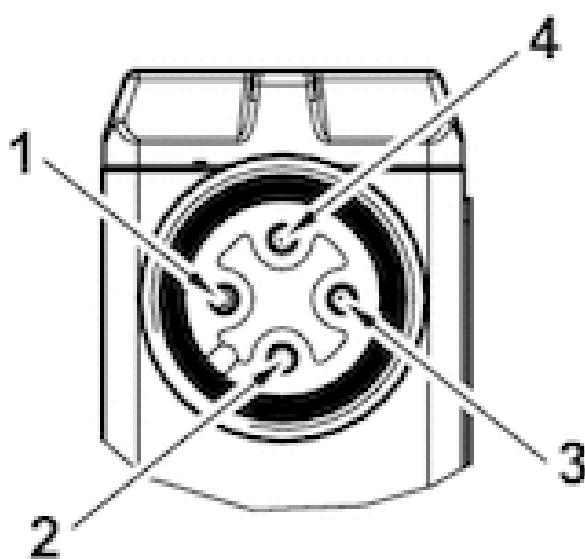
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10.8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	35 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.28 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812112720			24 V	-10% / +10%
5812112710			24 V	-10% / +10%
5812110720			24 V	-10% / +10%
5812110710			24 V	-10% / +10%
5812113720			24 V	-10% / +10%
5812113710			24 V	-10% / +10%
5812111720			24 V	-10% / +10%
5812111710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5812112720	0.35 W	External	Plug M12 4-pin	-
5812112710	0.35 W	External	Plug M12 4-pin	-
5812110720	0.35 W	Internal	Plug M12 4-pin	-
5812110710	0.35 W	Internal	Plug M12 4-pin	-
5812113720	0.35 W	External	Plug M12 4-pin	with throttle
5812113710	0.35 W	External	Plug M12 4-pin	with throttle
5812111720	0.35 W	Internal	Plug M12 4-pin	with throttle
5812111710	0.35 W	Internal	Plug M12 4-pin	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

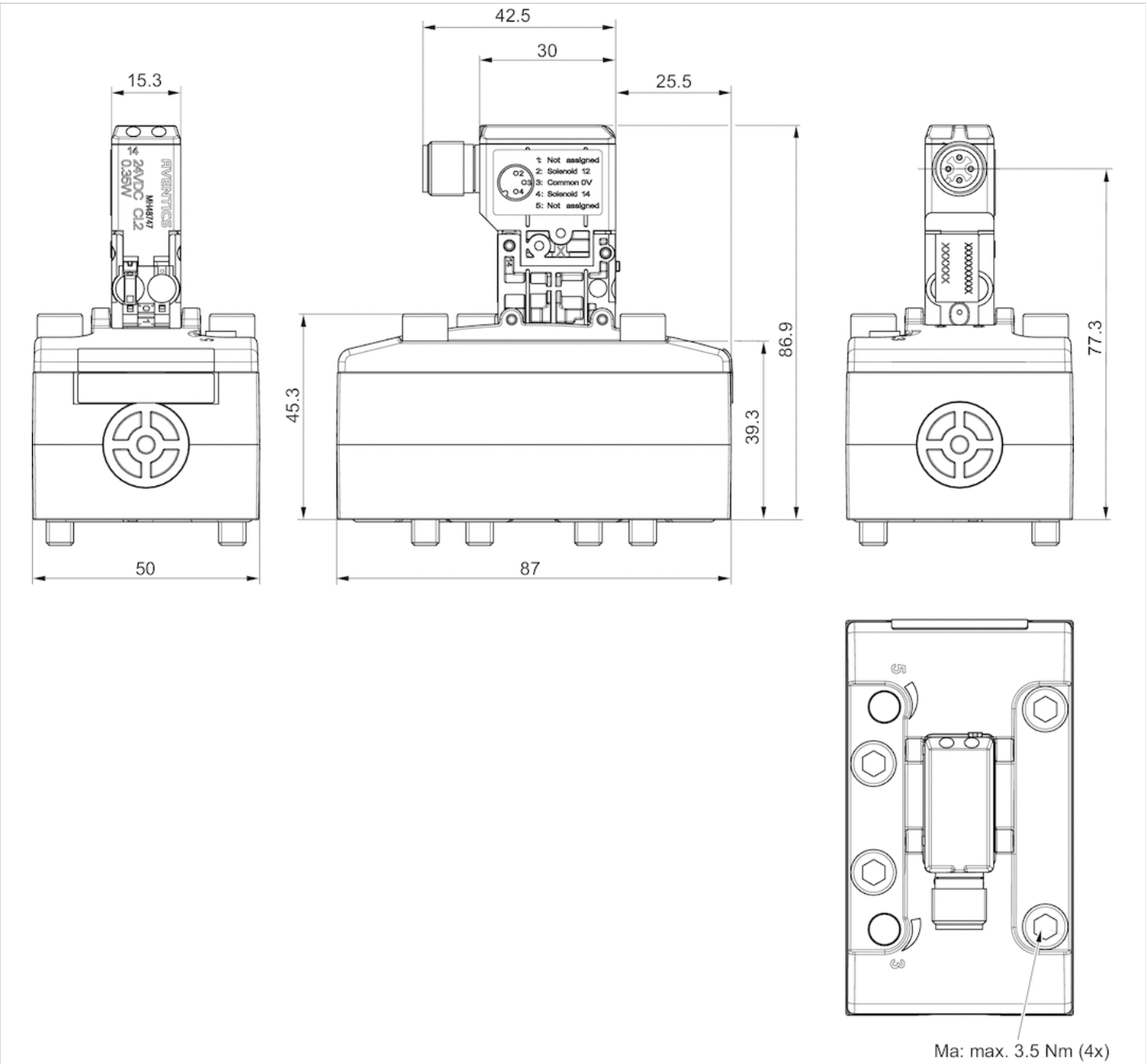
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

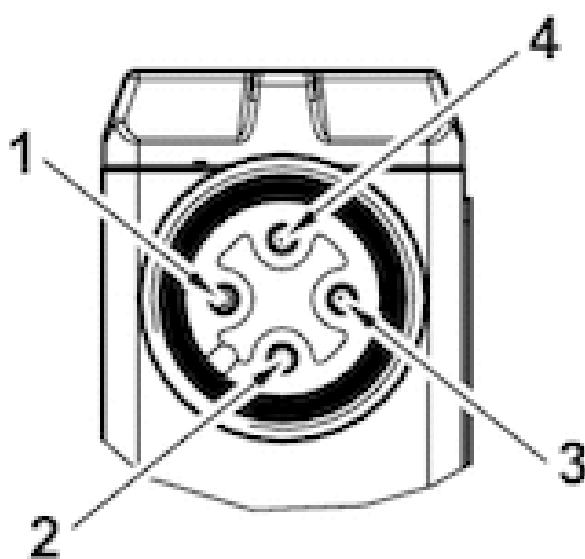
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2700 l/min
Flow conductance C	10.8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	15 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.28 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5812222720			24 V	-10% / +10%
5812222710			24 V	-10% / +10%
5812220720			24 V	-10% / +10%
5812220710			24 V	-10% / +10%
5812223710			24 V	-10% / +10%
5812223720			24 V	-10% / +10%
5812221720			24 V	-10% / +10%
5812221710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5812222720	0.35 W	External	Plug M12 4-pin	-

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5812222710	0.35 W	External	Plug M12 4-pin	-
5812220720	0.35 W	Internal	Plug M12 4-pin	-
5812220710	0.35 W	Internal	Plug M12 4-pin	-
5812223710	0.35 W	External	Plug M12 4-pin	with throttle
5812223720	0.35 W	External	Plug M12 4-pin	with throttle
5812221720	0.35 W	Internal	Plug M12 4-pin	with throttle
5812221710	0.35 W	Internal	Plug M12 4-pin	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

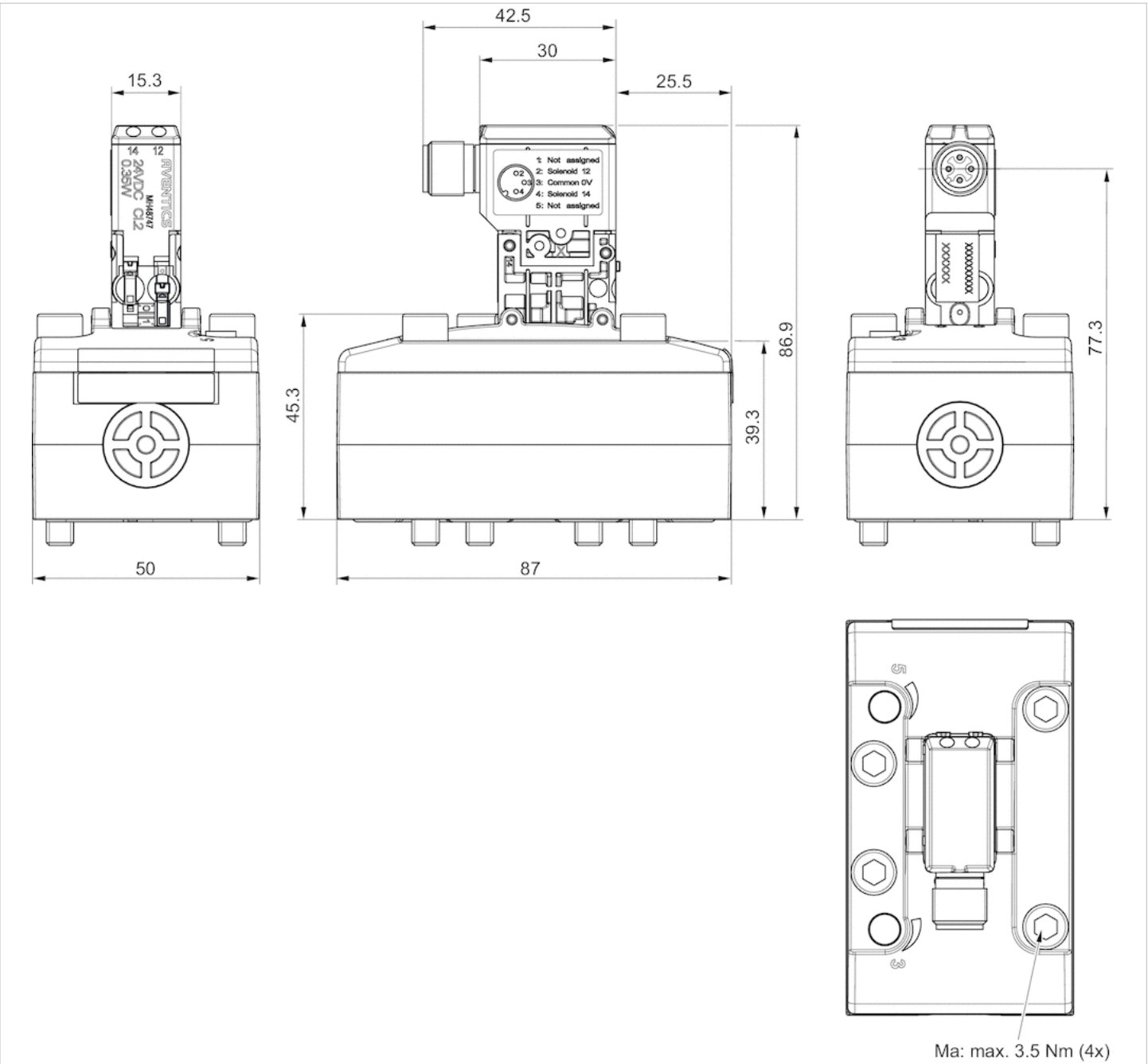
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

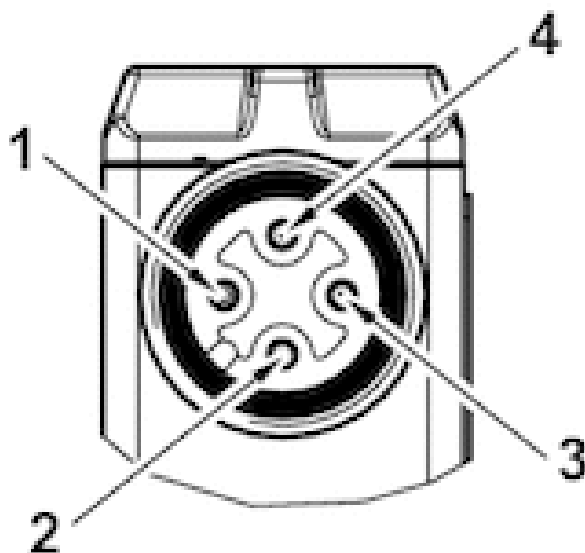
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/3
- closed center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	35 ms
Mounting screw	with hexagon socket
Weight	0.28 kg

Technical data

Part No.		MO		Operational voltage DC	Voltage tolerance DC
5812422720			closed center	24 V	-10% / +10%
5812422710			closed center	24 V	-10% / +10%
5812420720			closed center	24 V	-10% / +10%
5812420710			closed center	24 V	-10% / +10%
5812423720			closed center	24 V	-10% / +10%
5812423710			closed center	24 V	-10% / +10%
5812421720			closed center	24 V	-10% / +10%
5812421710			closed center	24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Flow conductance C-value	Electrical connection Pilot valve
5812422720	0.35 W	External	14.1 l/(s*bar)	Plug M12 4-pin
5812422710	0.35 W	External	14.1 l/(s*bar)	Plug M12 4-pin
5812420720	0.35 W	Internal	8.9 l/(s*bar)	Plug M12 4-pin

Part No.	Power consumption DC	Pilot	Flow conductance C-value	Electrical connection Pilot valve
5812420710	0.35 W	Internal	8.9 l/(s*bar)	Plug M12 4-pin
5812423720	0.35 W	External	8.9 l/(s*bar)	Plug M12 4-pin
5812423710	0.35 W	External	8.9 l/(s*bar)	Plug M12 4-pin
5812421720	0.35 W	Internal	8.9 l/(s*bar)	Plug M12 4-pin
5812421710	0.35 W	Internal	8.9 l/(s*bar)	Plug M12 4-pin

Part No.	Throttle
5812422720	-
5812422710	-
5812420720	-
5812420710	-
5812423720	with throttle
5812423710	with throttle
5812421720	with throttle
5812421710	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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).

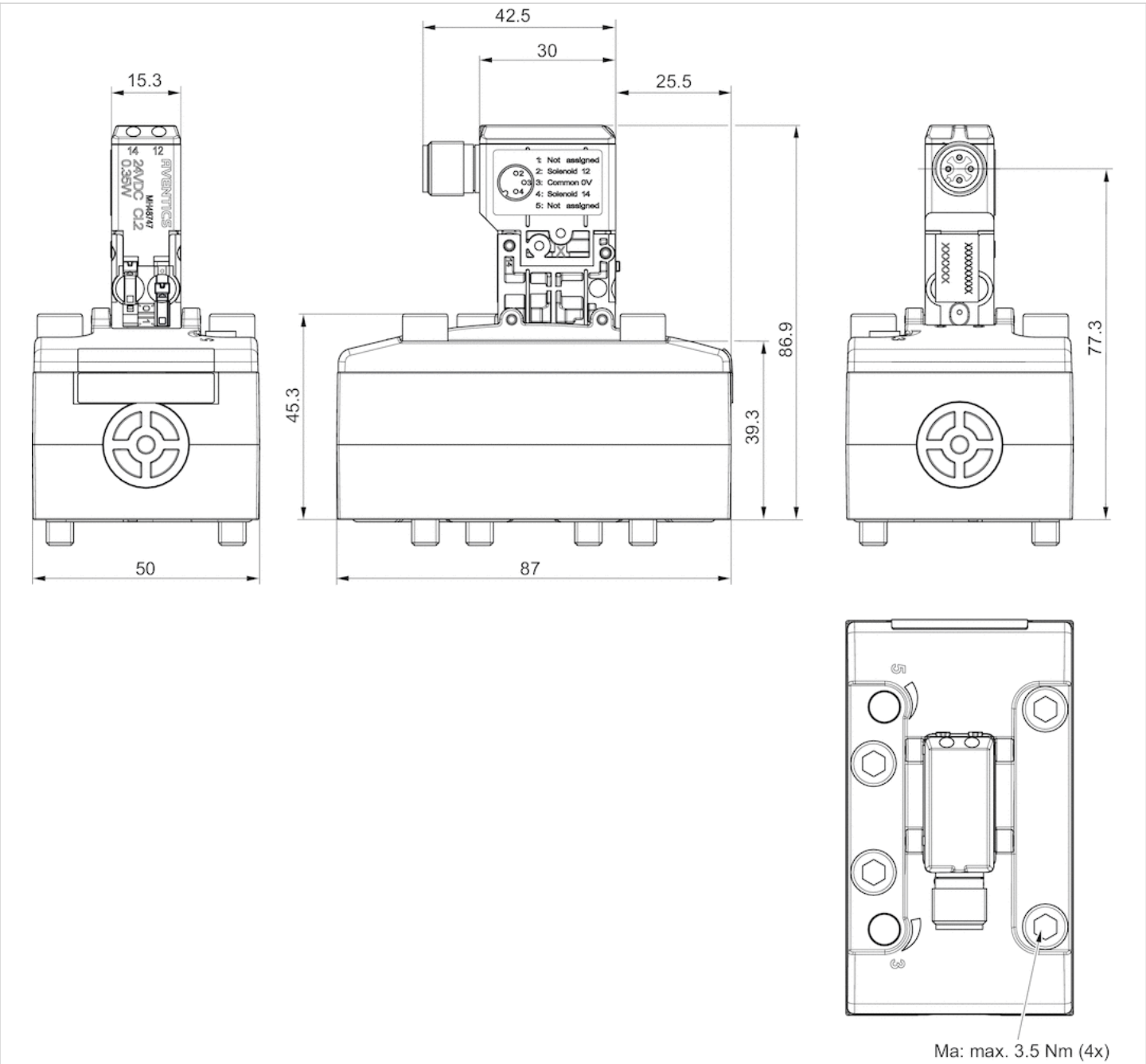
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

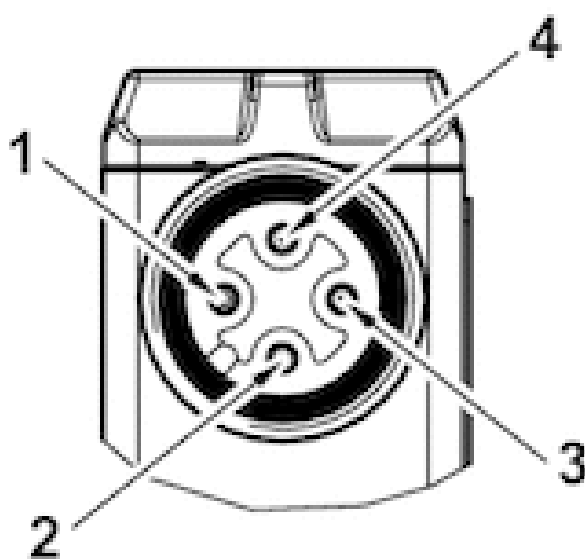
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/3
- exhausted center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8.9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	35 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.28 kg

Technical data

Part No.		MO		Operational voltage DC
5812522720			exhausted center	24 V
5812522710			exhausted center	24 V
5812520720			exhausted center	24 V
5812520710			exhausted center	24 V
5812523720			exhausted center	24 V
5812523710			exhausted center	24 V
5812521720			exhausted center	24 V
5812521710			exhausted center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5812522720	-10% / +10%	0.35 W	External	Plug M12 4-pin

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5812522710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812520720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812520710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812523720	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812523710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812521720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812521710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin

Part No.	Throttle
5812522720	-
5812522710	-
5812520720	-
5812520710	-
5812523720	with throttle
5812523710	with throttle
5812521720	with throttle
5812521710	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

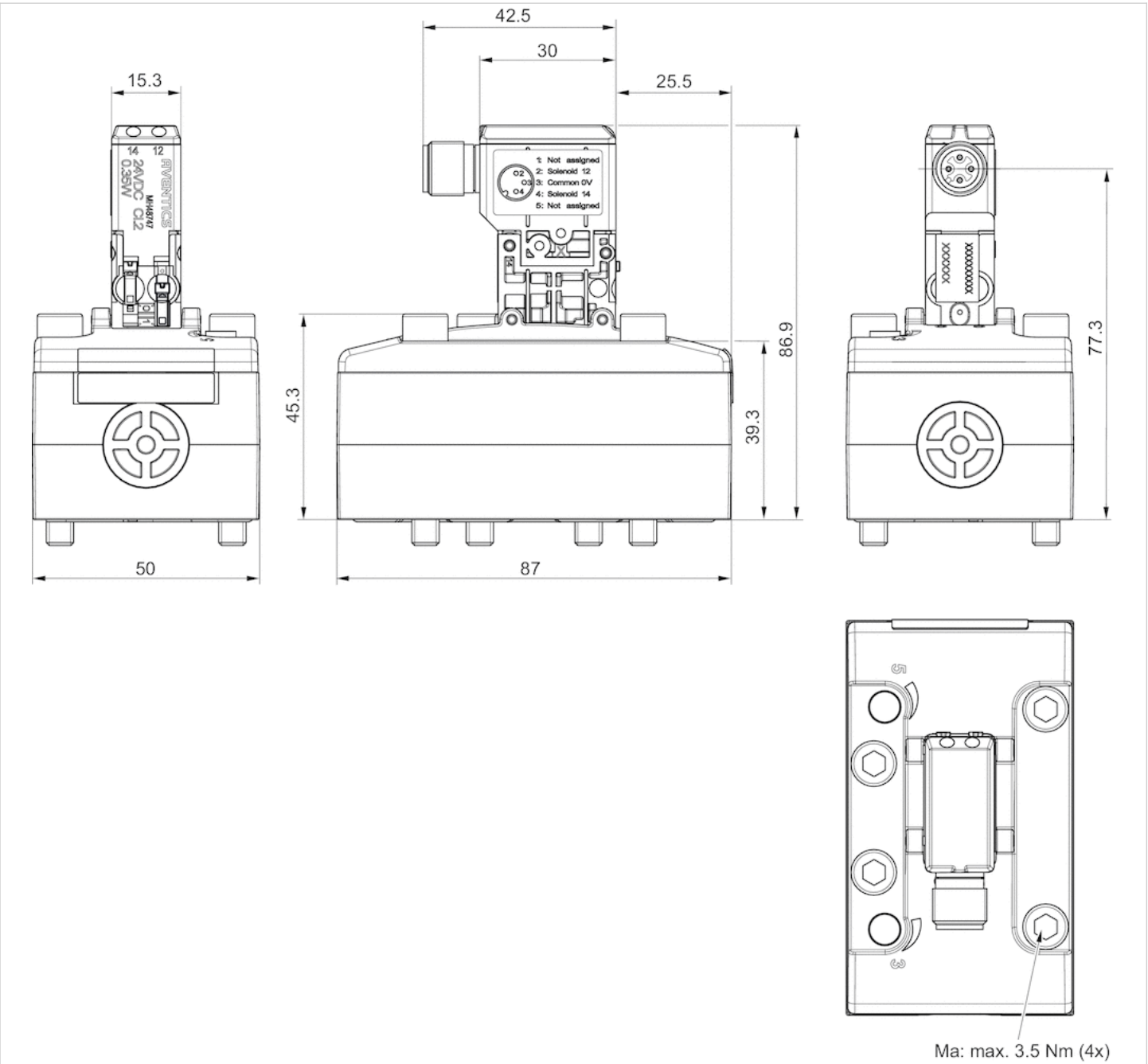
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

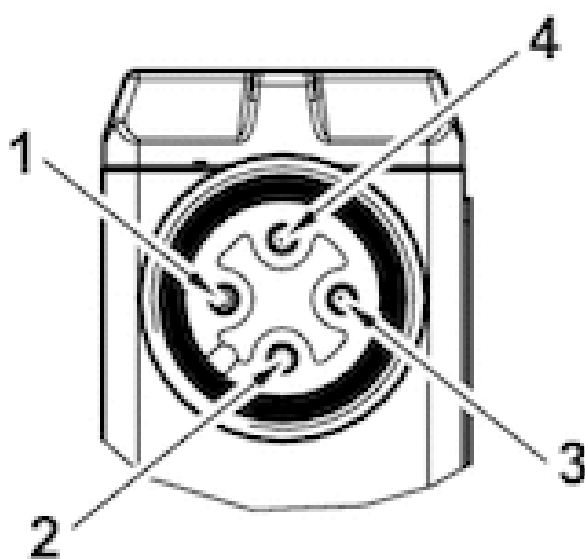
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/3
- pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	2100 l/min
Flow conductance C	8.9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	35 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.28 kg

Technical data

Part No.		MO		Operational voltage DC
5812722720			pressurized center	24 V
5812722710			pressurized center	24 V
5812720720			pressurized center	24 V
5812720710			pressurized center	24 V
5812723720			pressurized center	24 V
5812723710			pressurized center	24 V
5812721720			pressurized center	24 V
5812721710			pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5812722720	-10% / +10%	0.35 W	External	Plug M12 4-pin

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5812722710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812720720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812720710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812723720	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812723710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5812721720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5812721710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin

Part No.	Throttle
5812722720	-
5812722710	-
5812720720	-
5812720710	-
5812723720	with throttle
5812723710	with throttle
5812721720	with throttle
5812721710	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

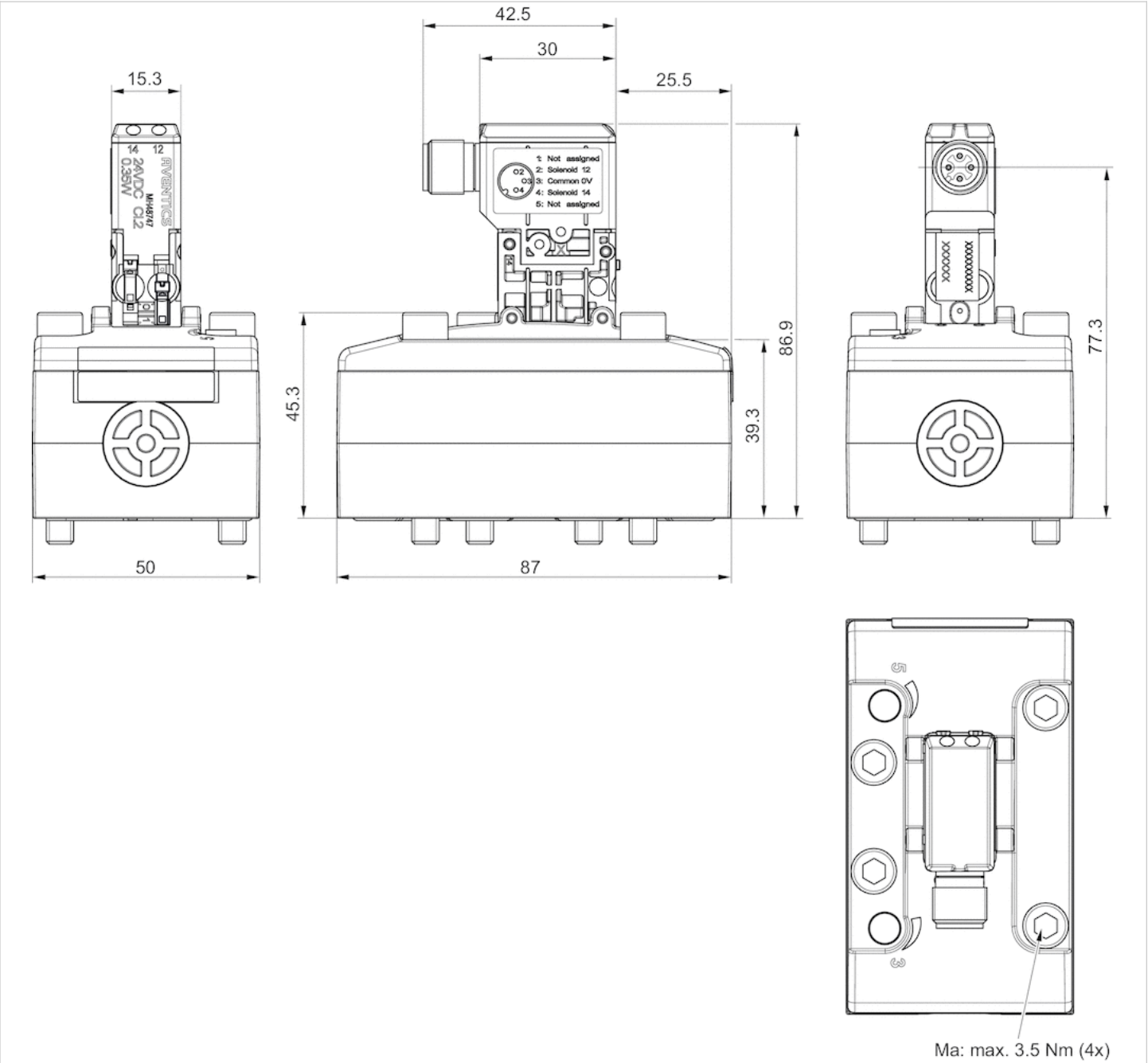
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

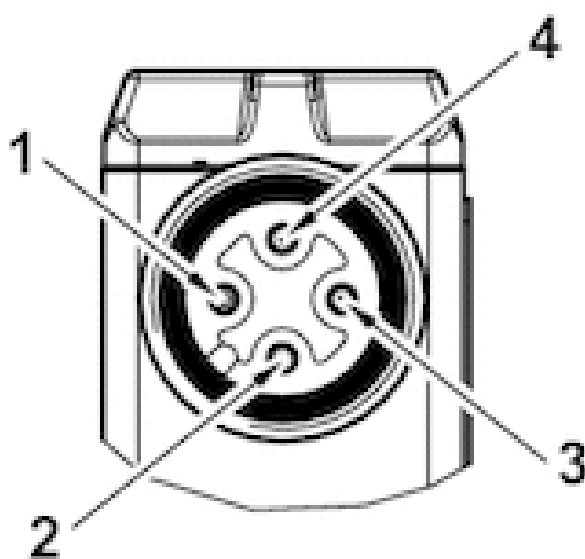
Dimensions

Dimensions



Pin assignments

Pin assignments



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

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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Throttle
5812180000		-
5812181000		with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

Technical information

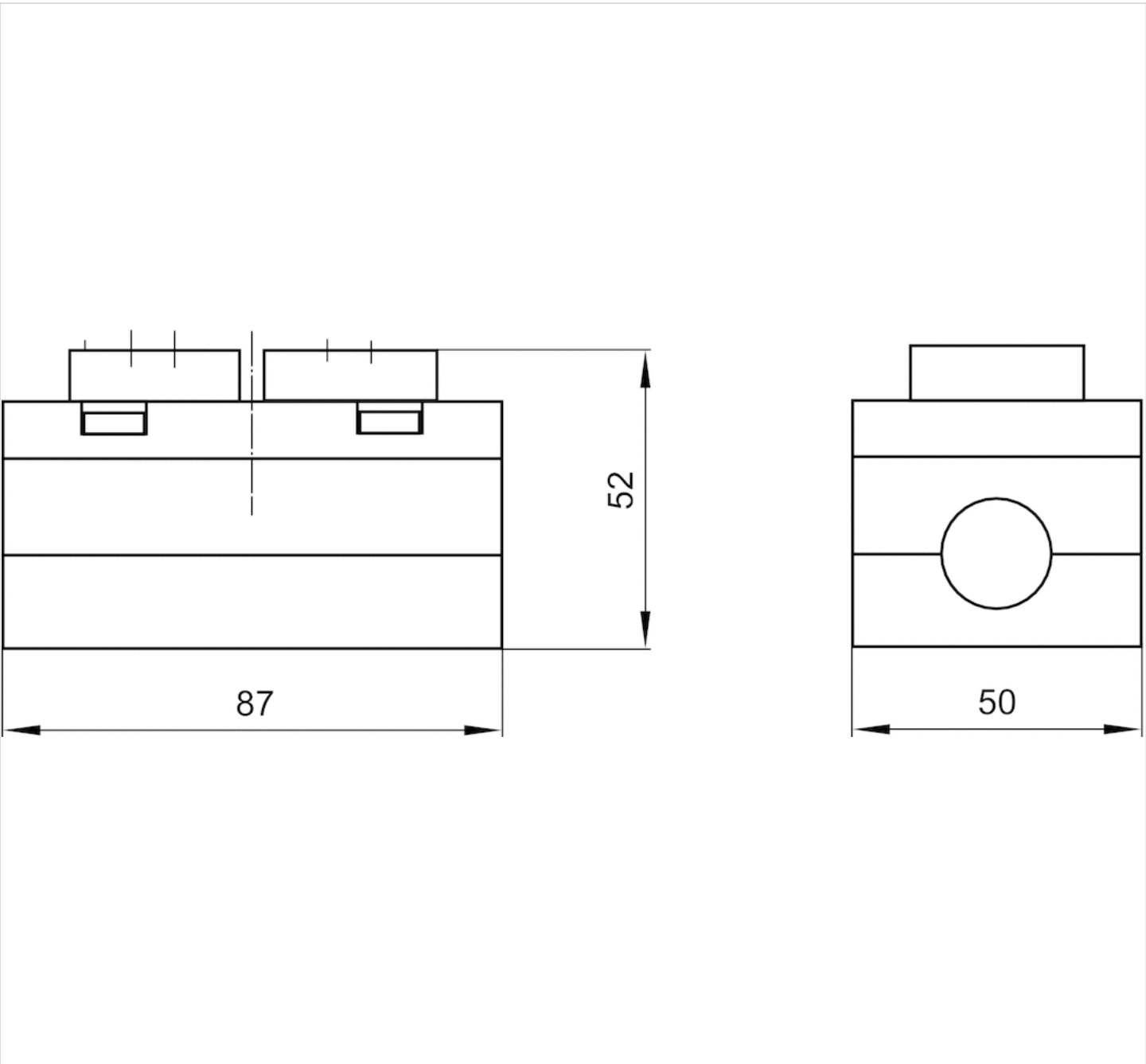
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- Qn = 2700 l/min
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Throttle
5812280000		-
5812281000		with throttle

Nominal flow Qn at 6 bar and Δp = 1 bar, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

Technical information

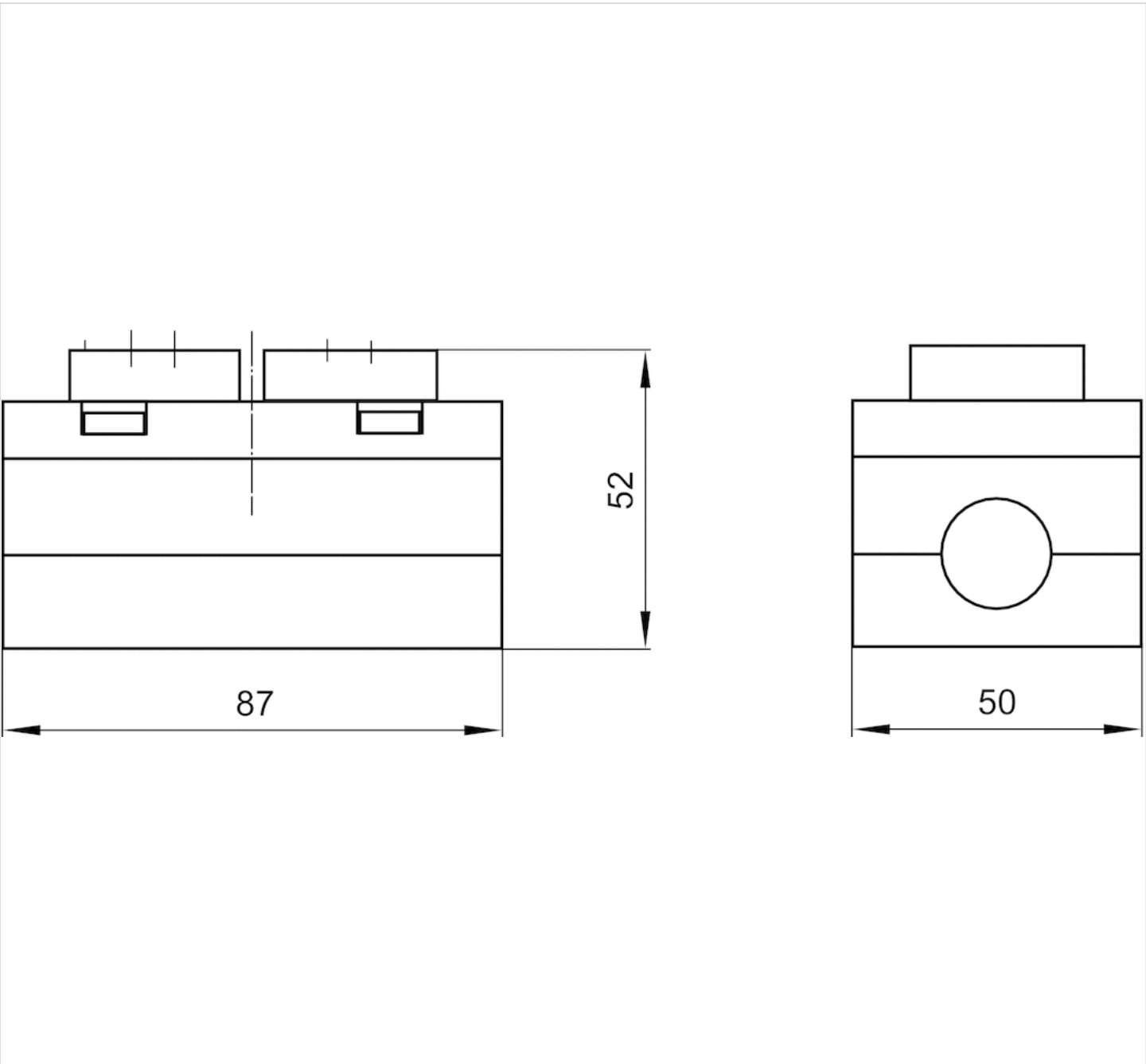
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	2,7 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Throttle
5812680000		-
5812681000		with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max., Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

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).

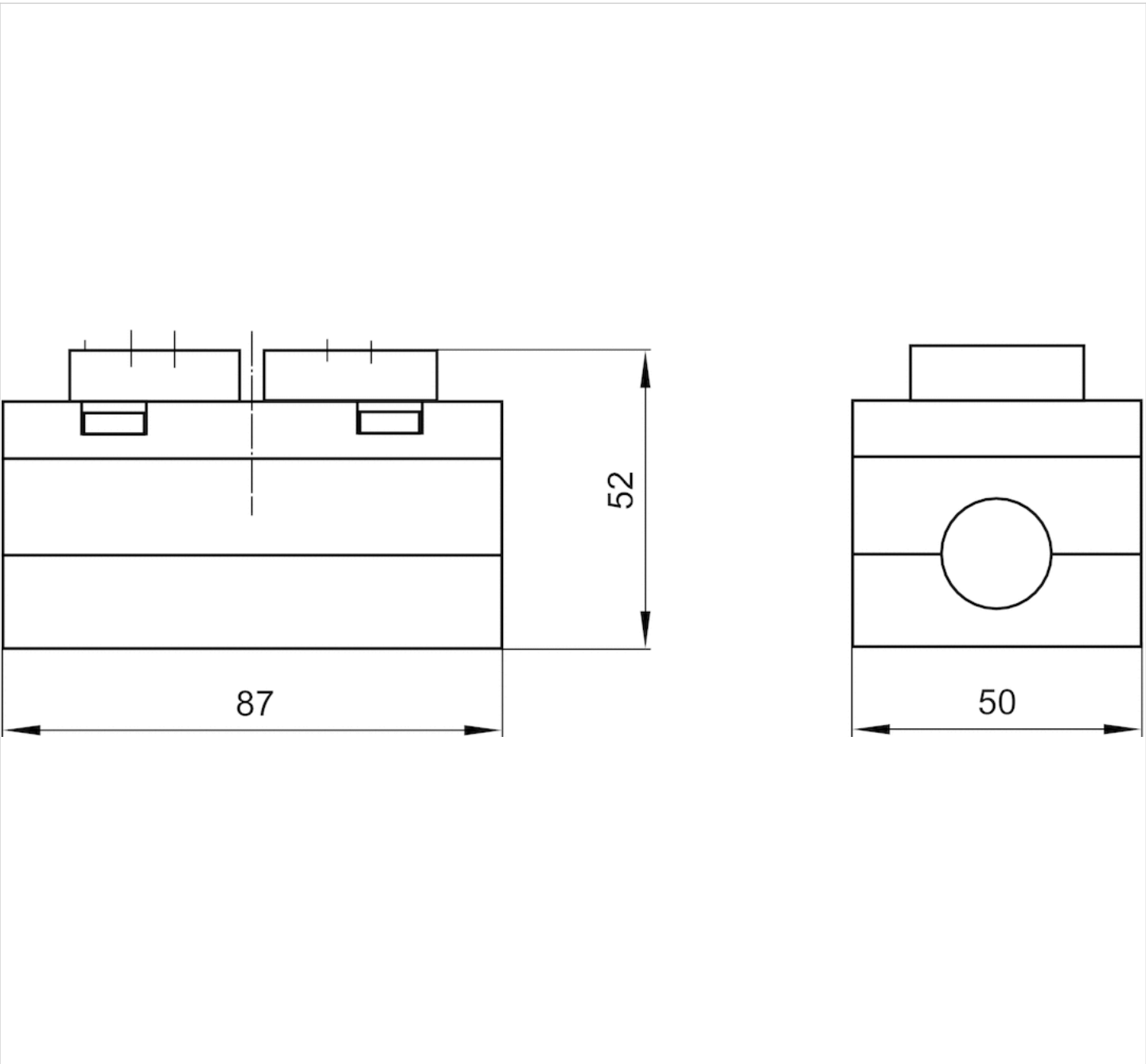
Differential piston, signal 14 has priority
The minimum pilot pressure at port 14 is dependent on the pressure in port 1.
valves are fitted with change-over block

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



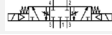
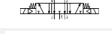
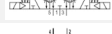
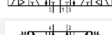
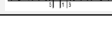
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- Basic valve for CNOMO pilot valve
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.			Throttle
5812480000		closed center	-
5812481000		closed center	with throttle
5812580000		exhausted center	-
5812581000		exhausted center	with throttle
5812780000		pressurized center	-
5812781000		pressurized center	with throttle

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

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.

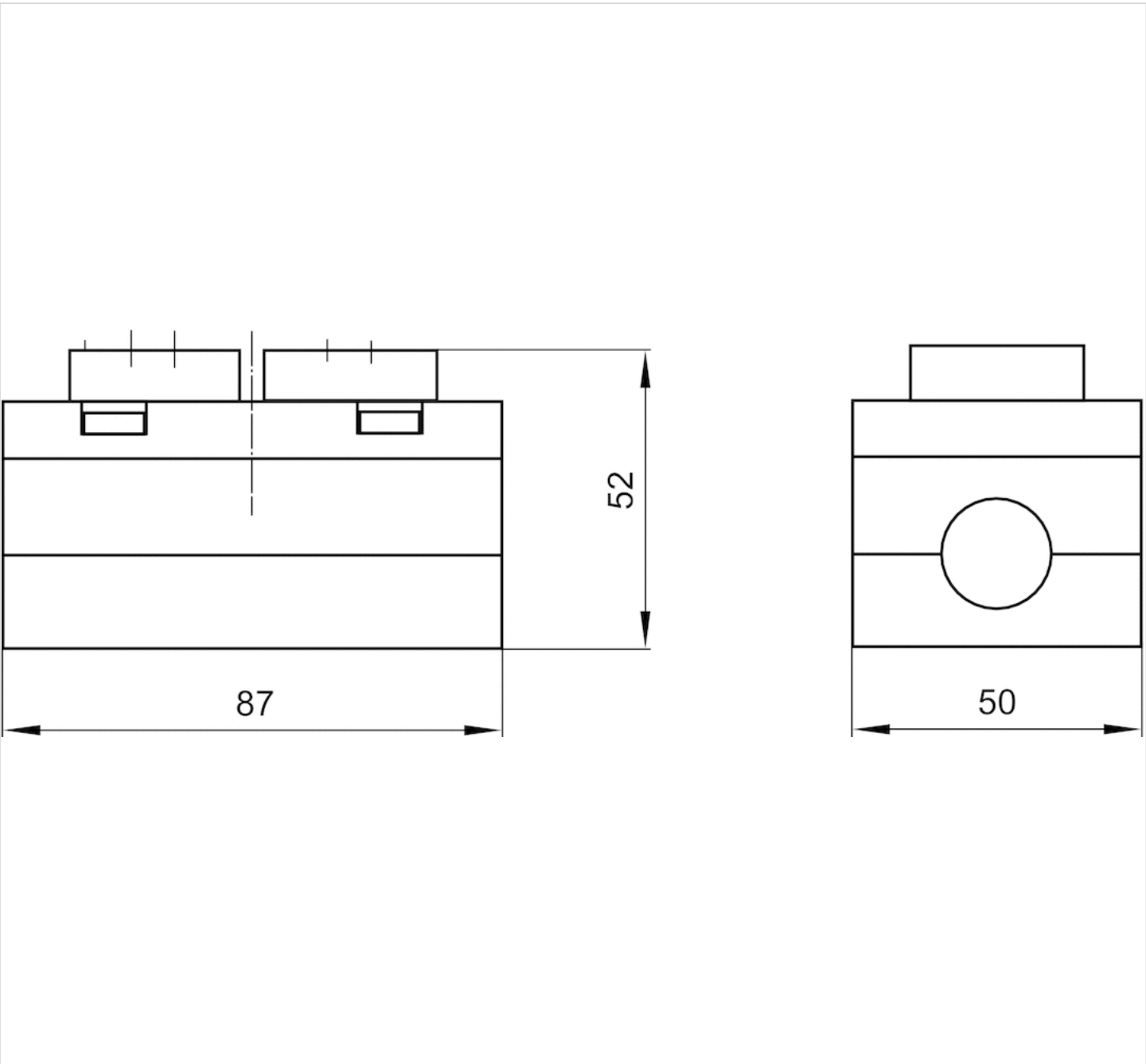
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

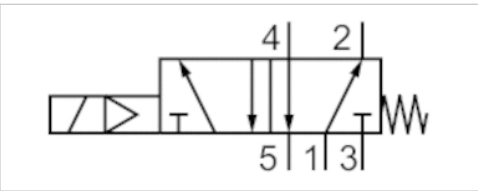
Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- Qn = 2700 l/min
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.
5812180080

Nominal flow Qn at 6 bar and Δp = 1 bar, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

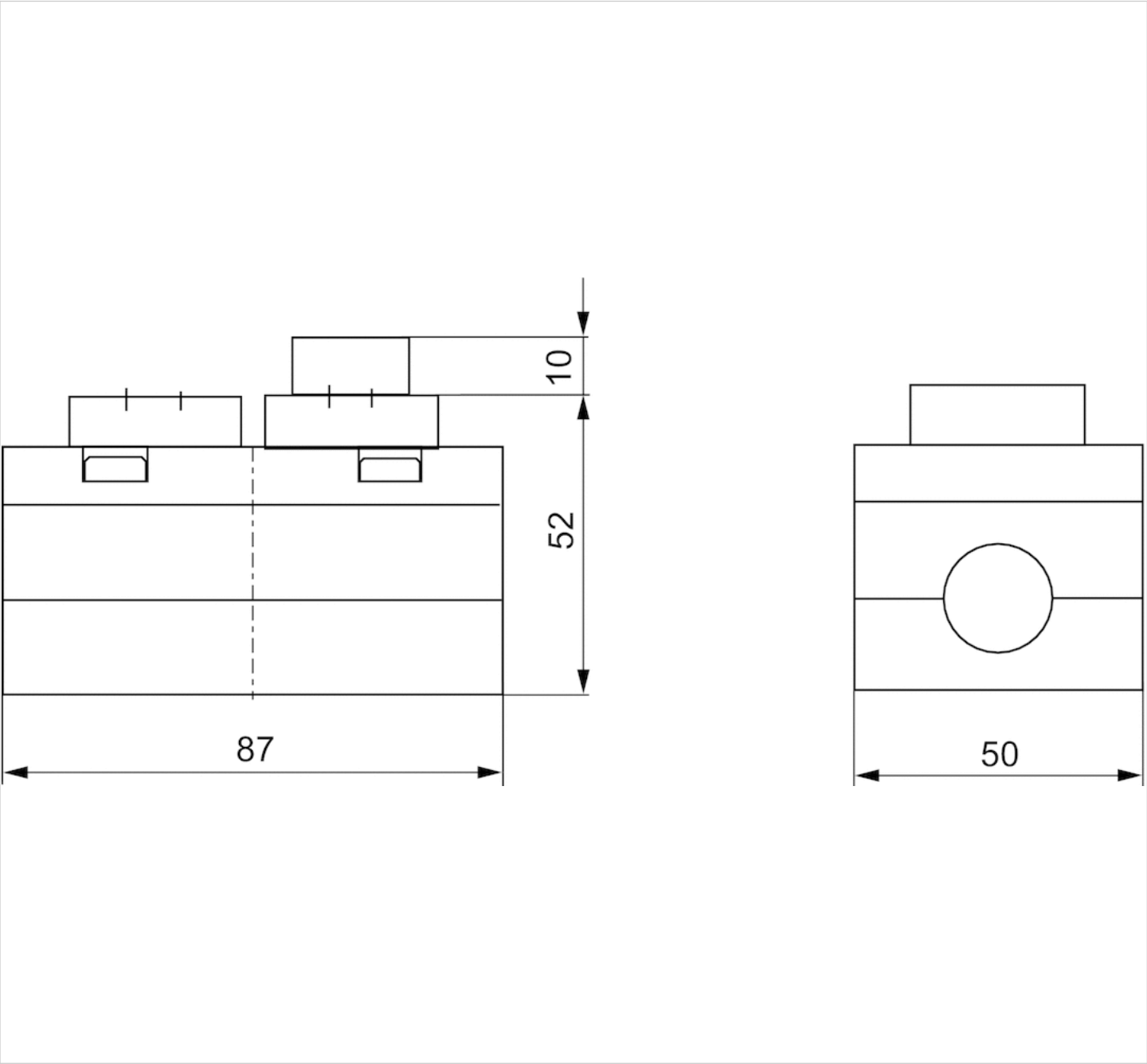
Technical information

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

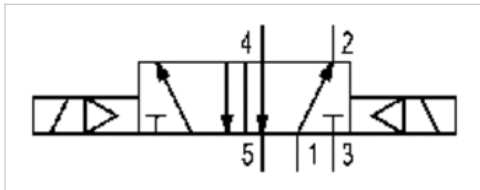
Housing	Polyarylamide
Seals	Acrylonitrile butadiene rubber

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.

5812280080

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

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 .

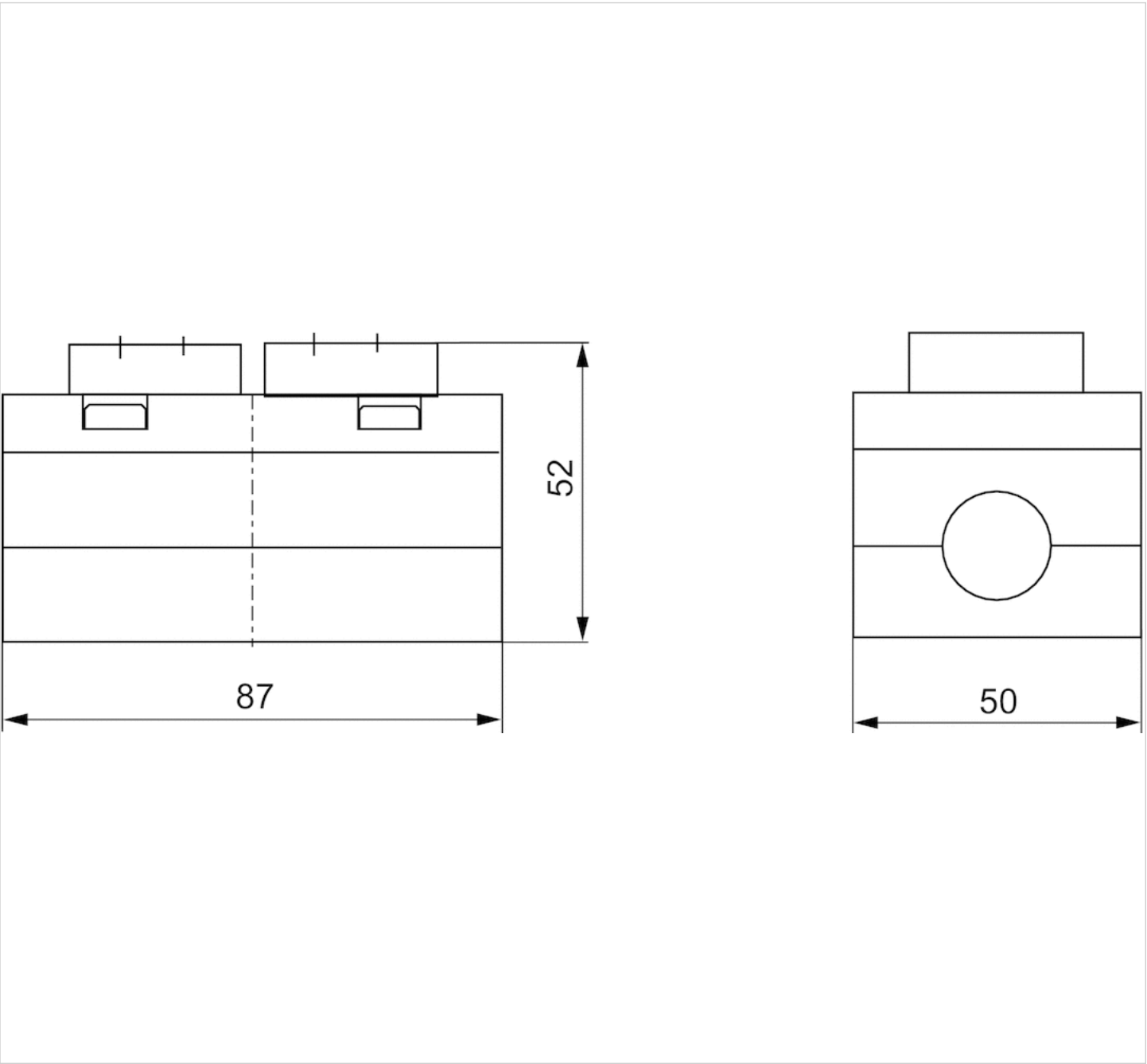
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

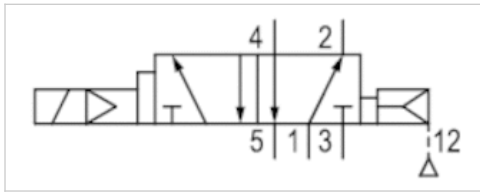
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	2,7 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.

5812680080

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max., Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Technical information

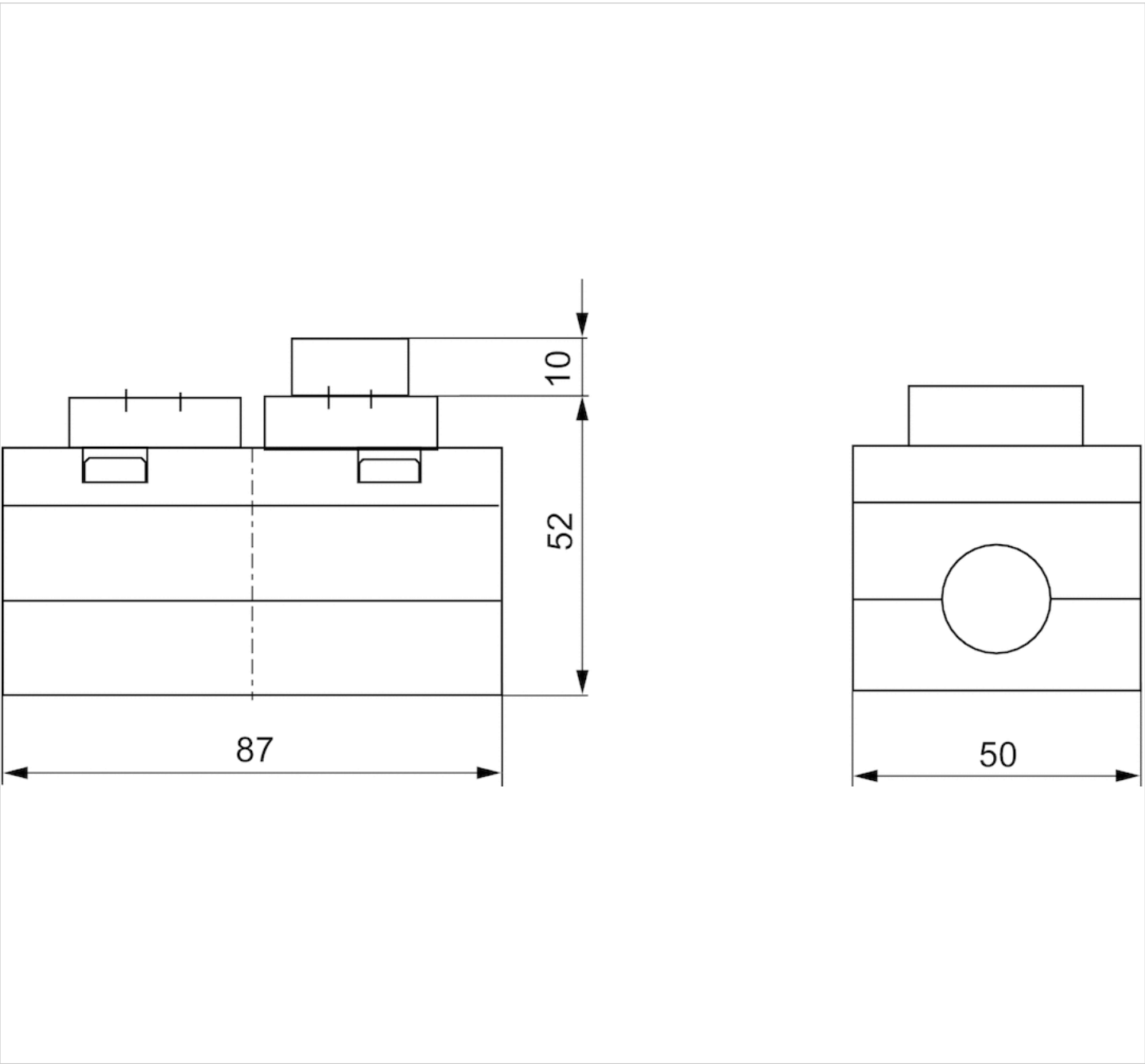
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Differential piston, signal 14 has priority
 The minimum pilot pressure at port 14 is dependent on the pressure in port 1.
 valves are fitted with change-over block

Technical information

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber

Dimensions



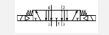
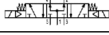
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- Basic valve for CNOMO pilot valve
- Qn = 2100 l/min
- Compressed air connection output Base plate ISO 5599-1



Type	Spool valve
basic valve with electrical connector	Basic valve without pilot valve
Pilot	External Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.	
5812480080	
5812580080	
5812780080	

Nominal flow Qn at 6 bar and Δp = 1 bar, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

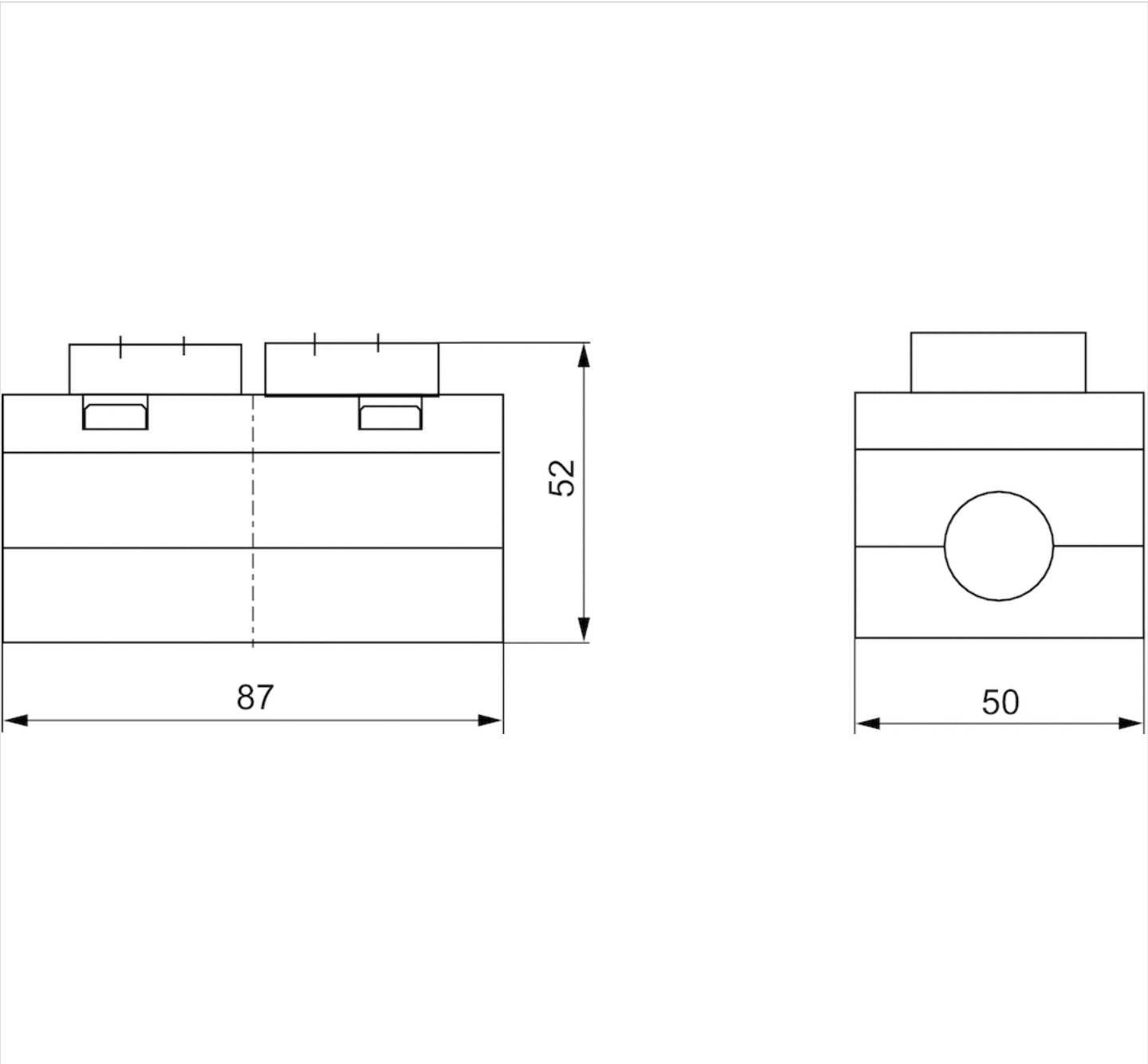
Technical information

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

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber

Dimensions



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

- Single air pilot
- $Q_n = 2700 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



Type	Spool valve
Blocking principle	Single base plate principle
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Nominal flow Q_n	2700 l/min
Compressed air connection	Base plate ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air class 6-4-3
Max. particle size	50 μm
Oil content of compressed air	0 ... 5 mg/m ³
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5812130000		11,8 l/(s*bar)	-	
5812131000		11,8 l/(s*bar)	with throttle	

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

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.

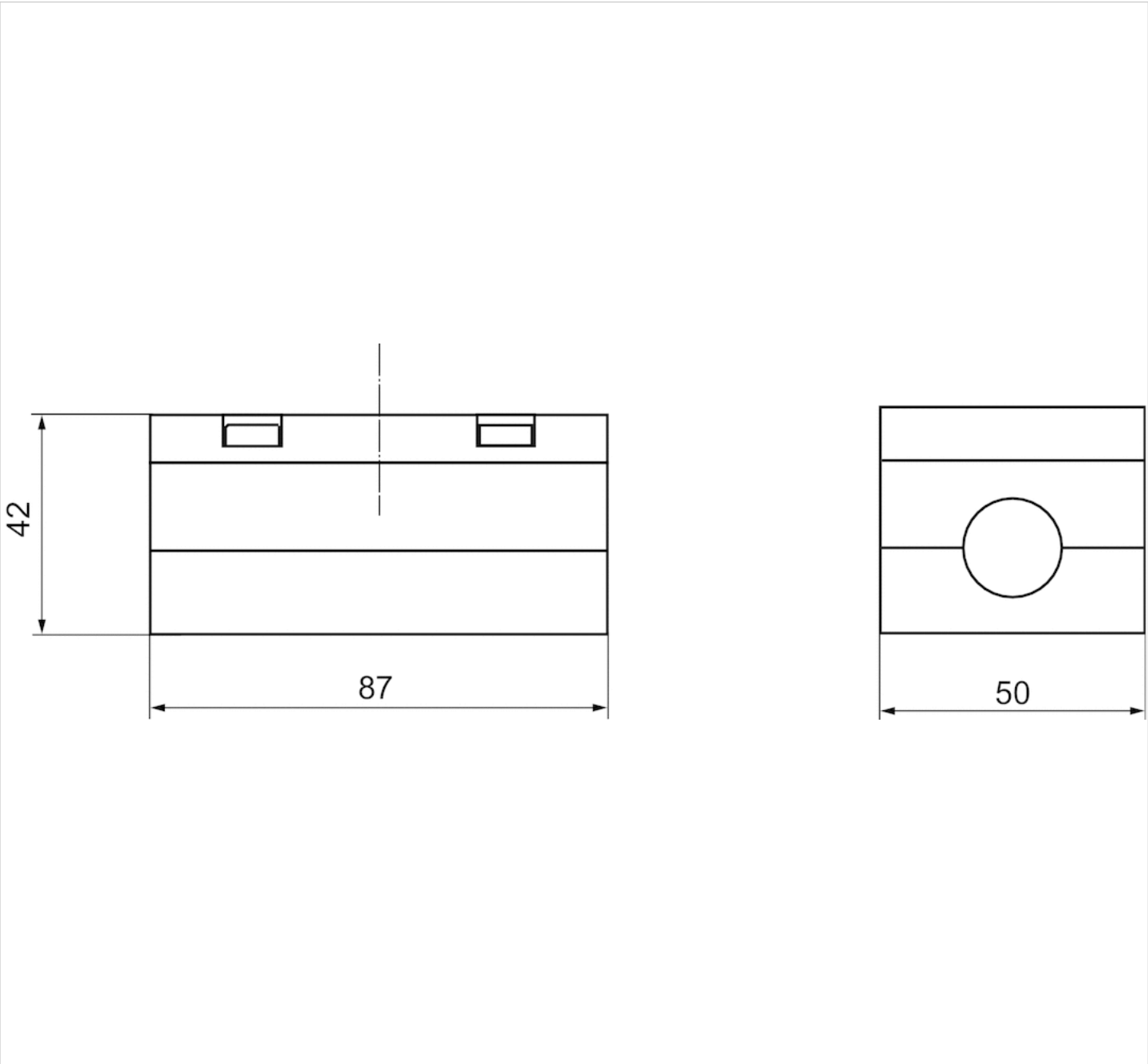
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- double air pilot
- $Q_n = 2700 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



Type	Spool valve
Blocking principle	Single base plate principle
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Nominal flow Q_n	2700 l/min
Compressed air connection	Base plate ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air class 6-4-3
Max. particle size	50 μm
Oil content of compressed air	0 ... 5 mg/m ³
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5812230000		11,8 l/(s*bar)	-	
5812231000		11,8 l/(s*bar)	with throttle	

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

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.

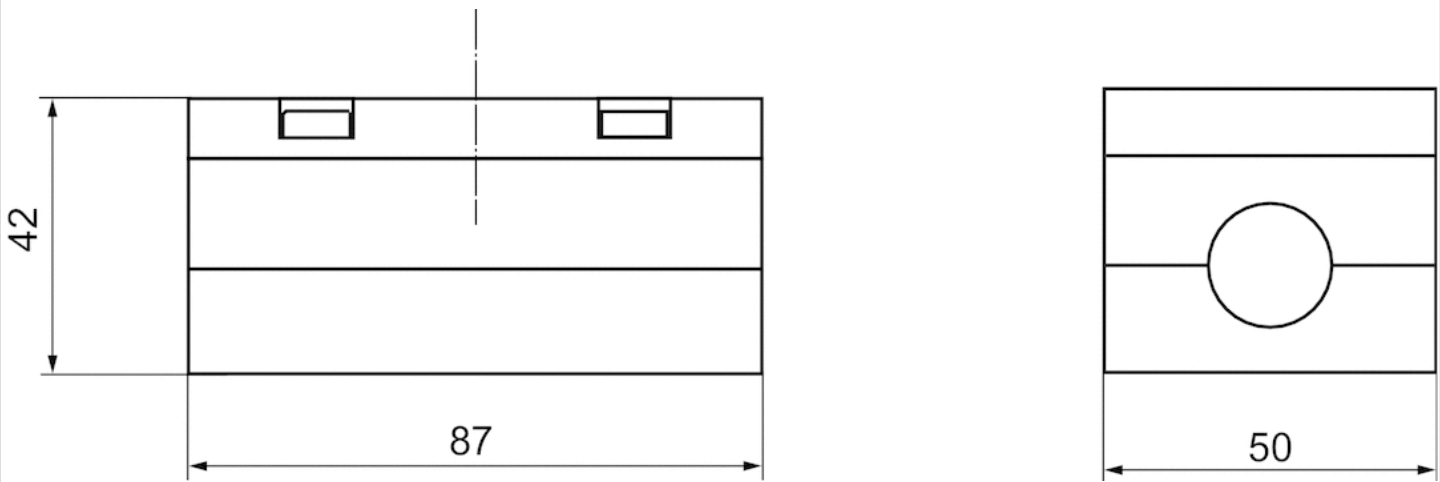
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- $Q_n = 2700 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks
- Manual override with detent



Type	Spool valve
Blocking principle	Single base plate principle
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Nominal flow Q_n	2700 l/min
Compressed air connection	Base plate ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air class 6-4-3
Max. particle size	50 μm
Oil content of compressed air	0 ... 5 mg/m^3
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5812330000		11,8 l/(s*bar)	-	
5812331000		11,8 l/(s*bar)	with throttle	

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

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.

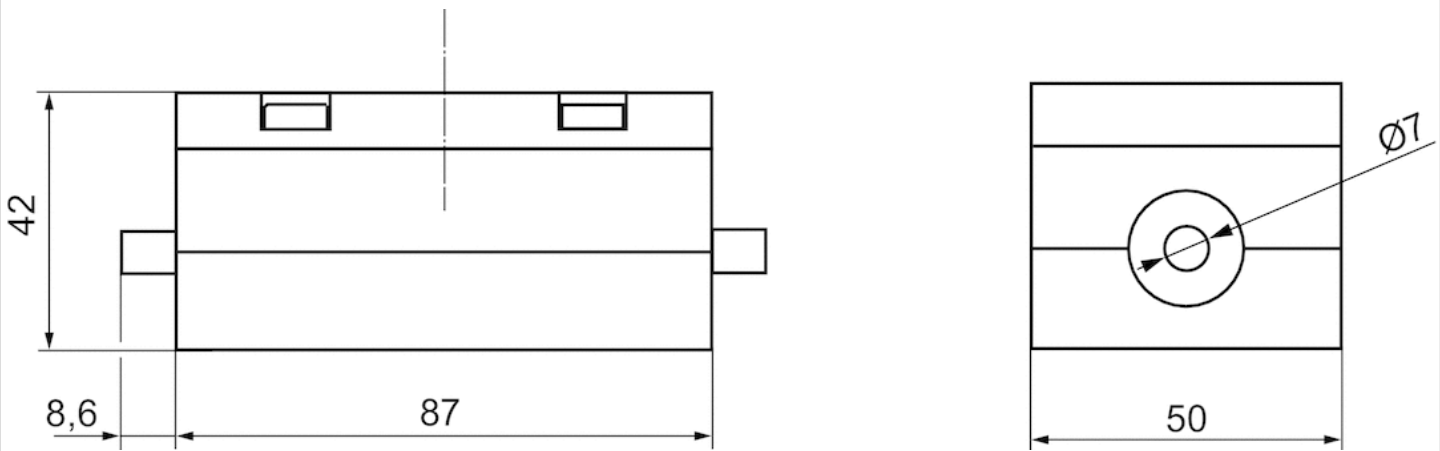
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



With manual override

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

- With differential piston
- $Q_n = 2700 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



Type	Spool valve
Blocking principle	Single base plate principle
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Nominal flow Q_n	2700 l/min
Compressed air connection	Base plate ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	2,7 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air class 6-4-3
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5812630000		11,8 l/(s*bar)	-	
5812631000		11,8 l/(s*bar)	with throttle	

Differential piston, signal 14 has priority, Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

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.

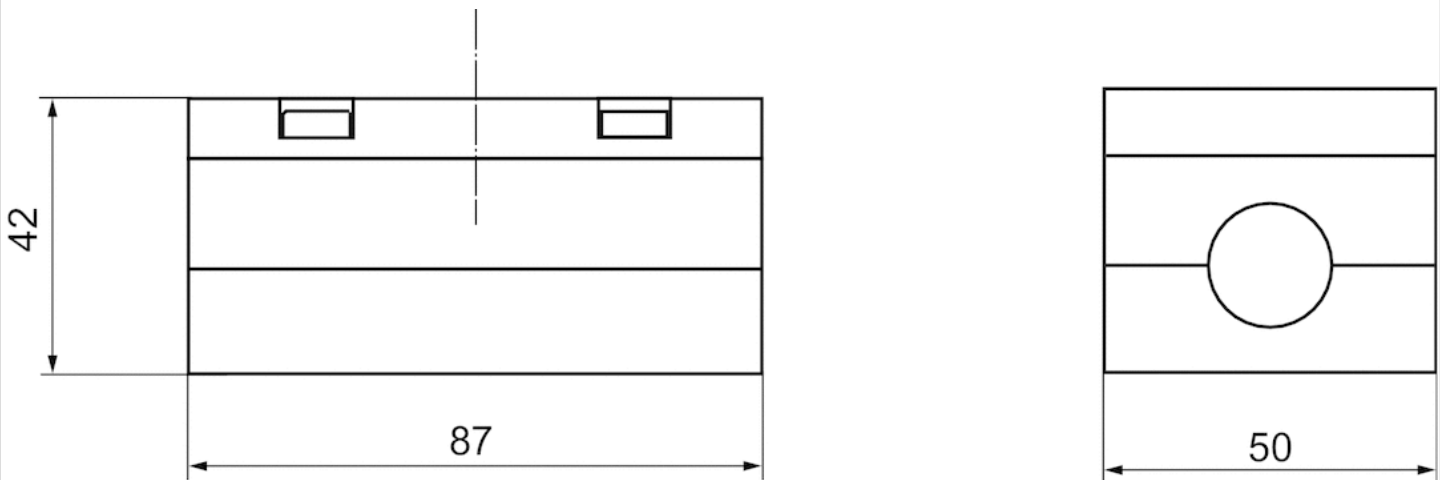
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

- $Q_n = 2100 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



Type	Spool valve
Blocking principle	Single base plate principle
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 5599-1, ISO 2
Nominal flow Q_n	2100 l/min
Compressed air connection	Base plate ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air class 6-4-3
Max. particle size	50 μm
Oil content of compressed air	0 ... 5 mg/m ³
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.			Flow conductance	Throttle	
			C-value		
5812430000		closed center	9,6 l/(s*bar)	-	
5812431000		closed center	9,6 l/(s*bar)	with throttle	
5812530000		exhausted center	9,6 l/(s*bar)	-	
5812531000		exhausted center	9,6 l/(s*bar)	with throttle	
5812730000		pressurized center	9,6 l/(s*bar)	-	
5812731000		pressurized center	9,6 l/(s*bar)	with throttle	

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Technical information

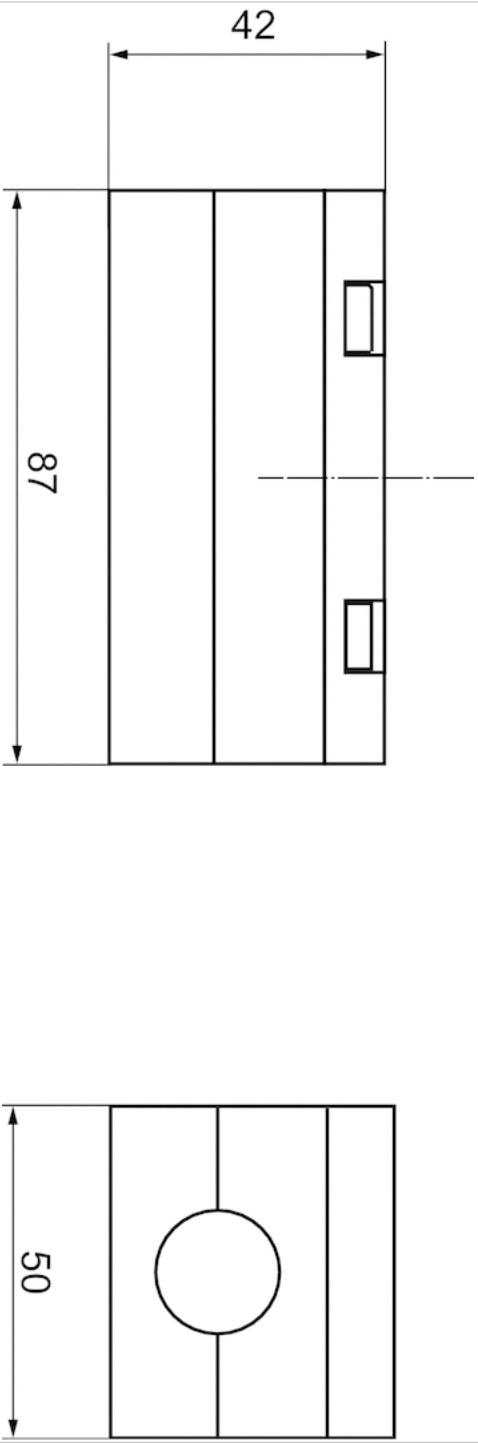
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

5812180100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2700 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Actuating control
Single Solenoid

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Return
With spring return

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

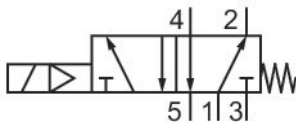
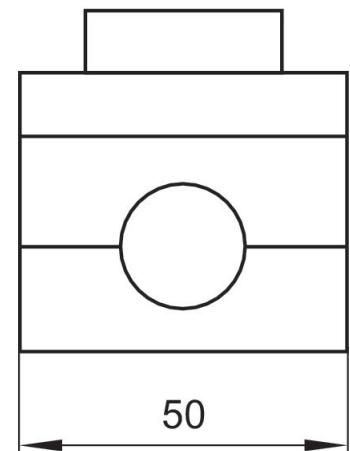
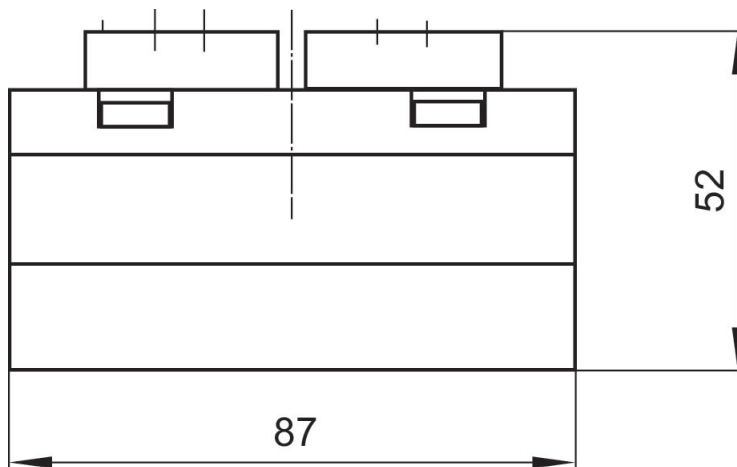
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812180100

Dimensions



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

5812280100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2700 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Actuating control
Double Solenoid

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

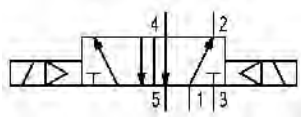
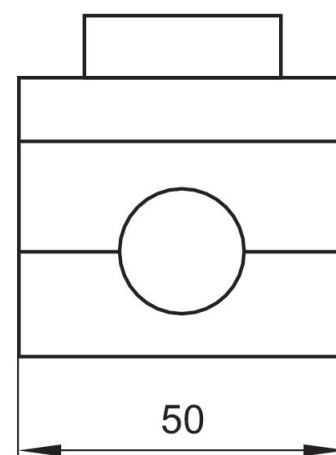
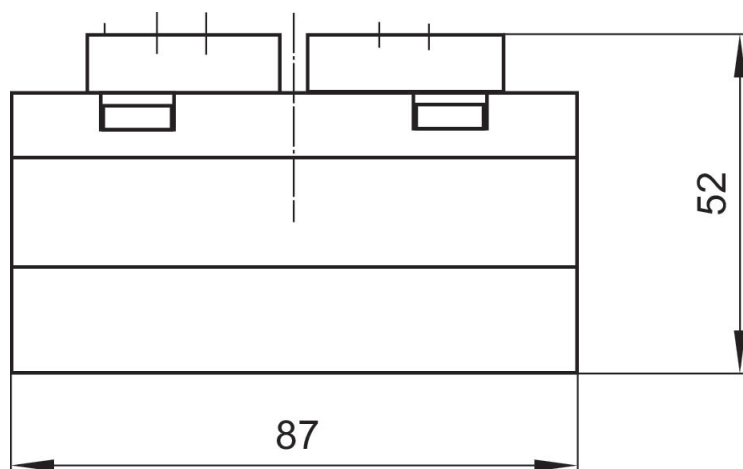
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812280100

Dimensions



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

5812480100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 l/min

Switching principle
5/3

Version
Closed Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

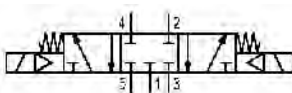
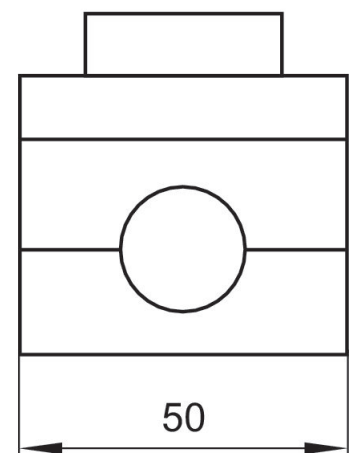
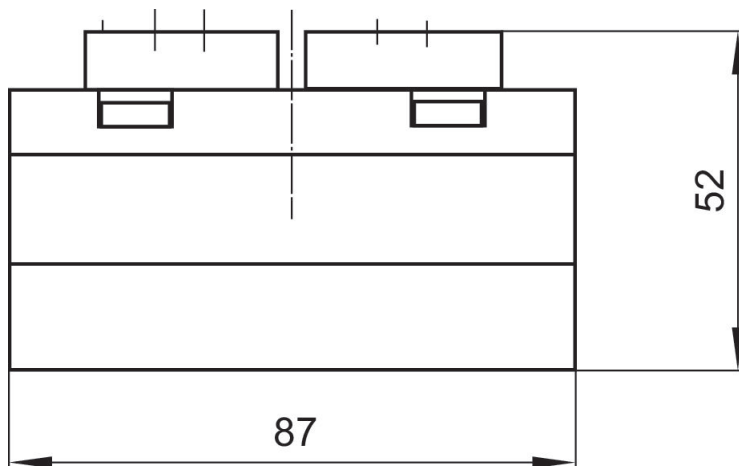
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812480100

Dimensions



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

5812580100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 l/min

Switching principle
5/3

Version
Exhausted Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

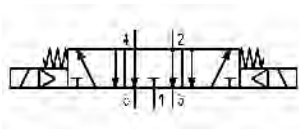
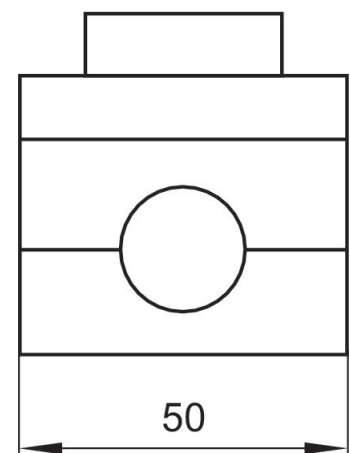
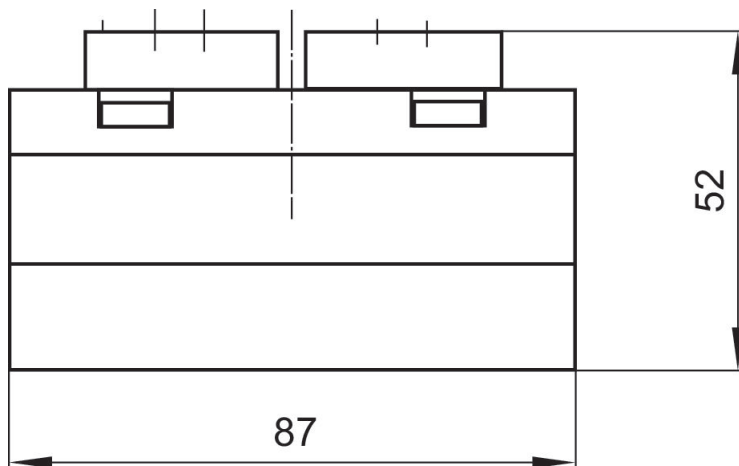
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812580100

Dimensions



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

5812680100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2700 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Return
with air spring return

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
2.7 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

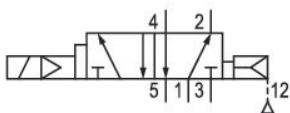
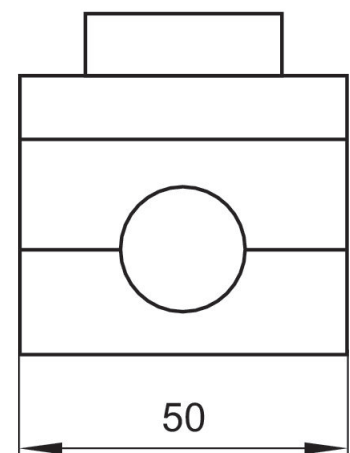
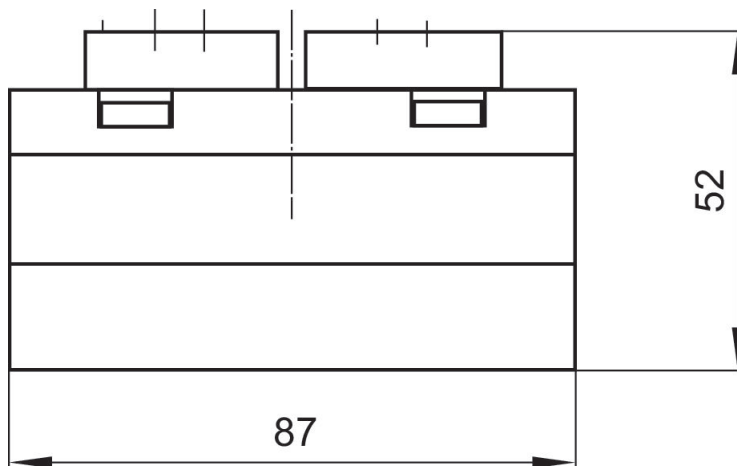
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812680100

Dimensions



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

5812780100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 l/min

Switching principle
5/3

Version
Pressurized Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

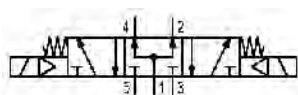
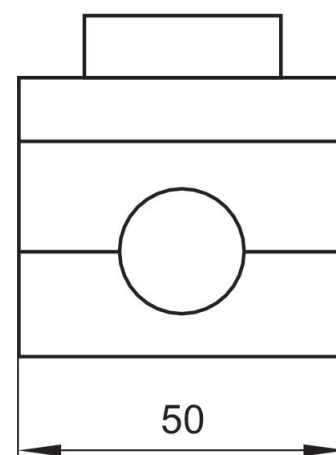
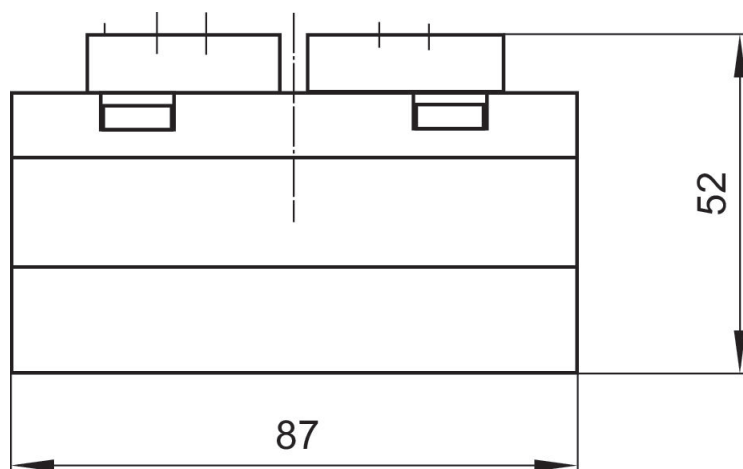
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812780100

Dimensions



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

5812130100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
11.8 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

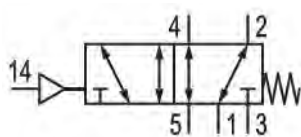
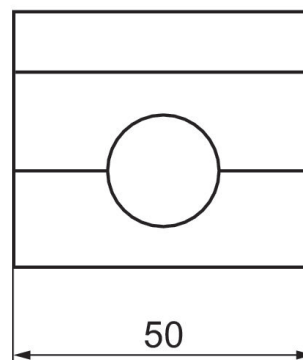
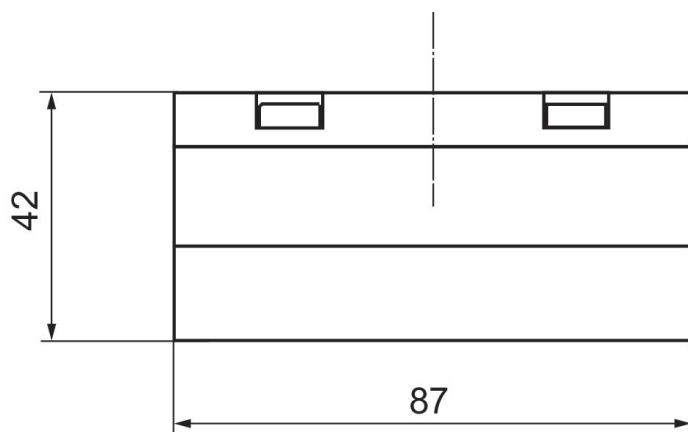
Mounting screw tightening torque
3.5 Nm

Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812130100



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

5812330100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Manual override
with detent

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
11.8 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

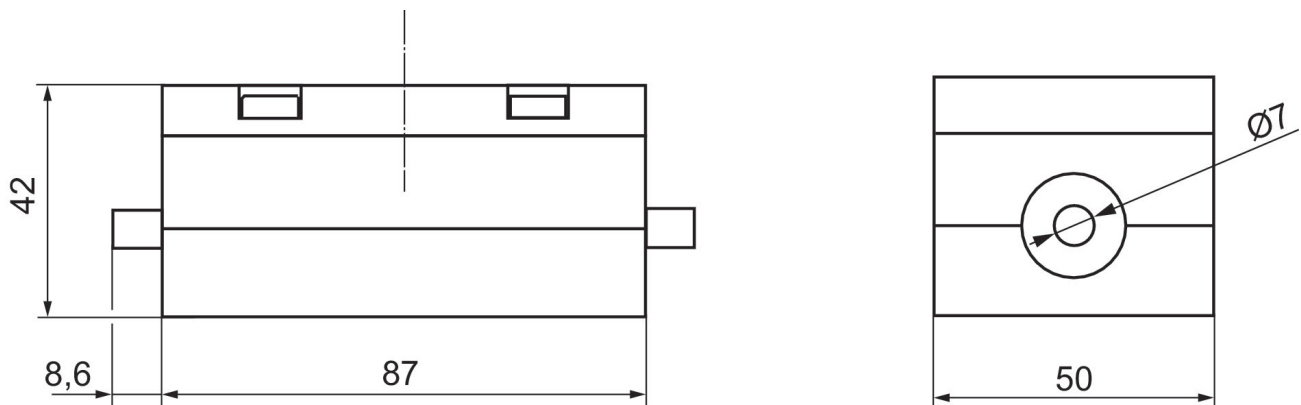
Mounting screw tightening torque
3.5 Nm

Weight
0.42 kg

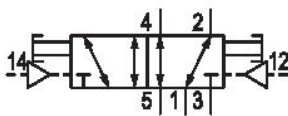
Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812330100



With manual override



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

5812430100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

version pneumatic port
Closed Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

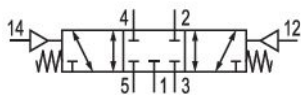
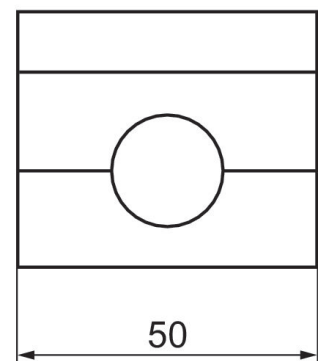
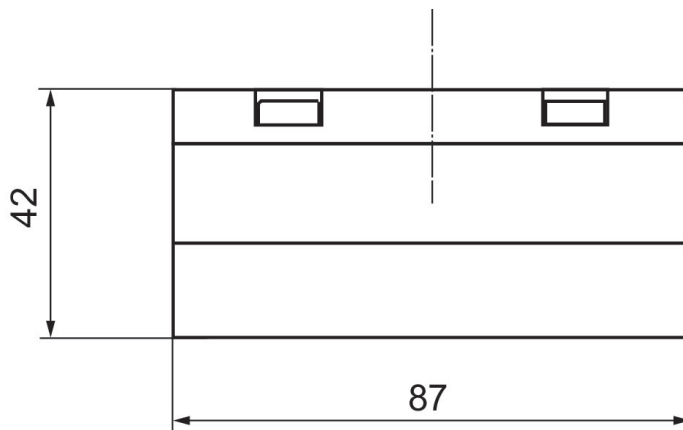
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812430100

Dimensions



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

5812530100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

version pneumatic port
Exhausted Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

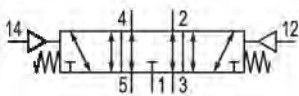
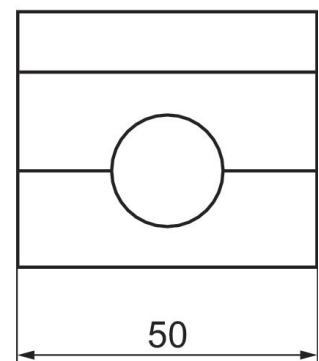
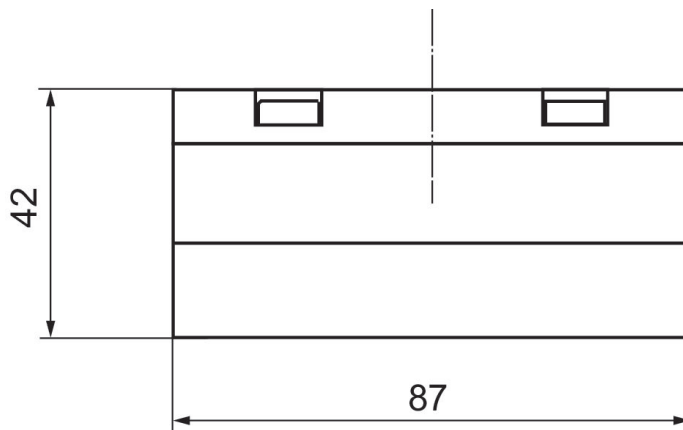
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812530100

Dimensions



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

5812630100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
2.7 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
11.8 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

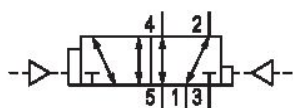
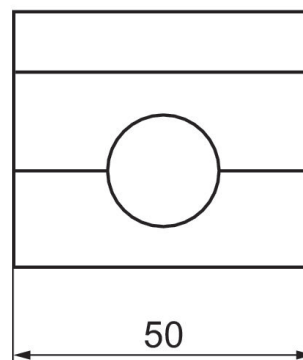
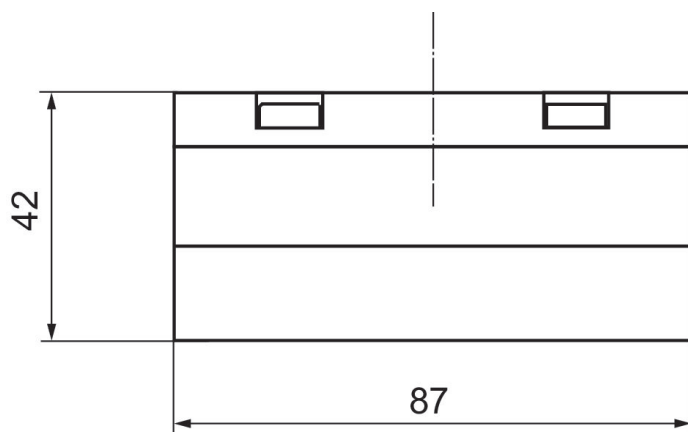
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812630100

Dimensions



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

5812730100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °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

version pneumatic port
Pressurized Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

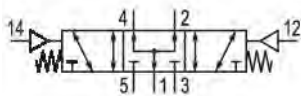
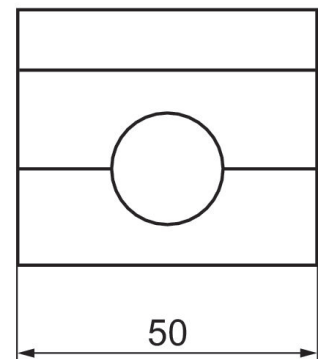
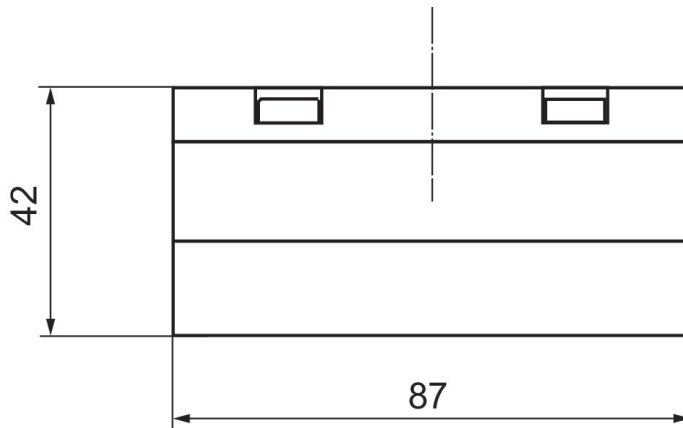
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812730100

Dimensions



Single subbase, thread connections on the side

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8
- 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	57 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	0,28 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
1825503146	G 3/8	G 3/8

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
1825503146	G 3/8	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
1825503146	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

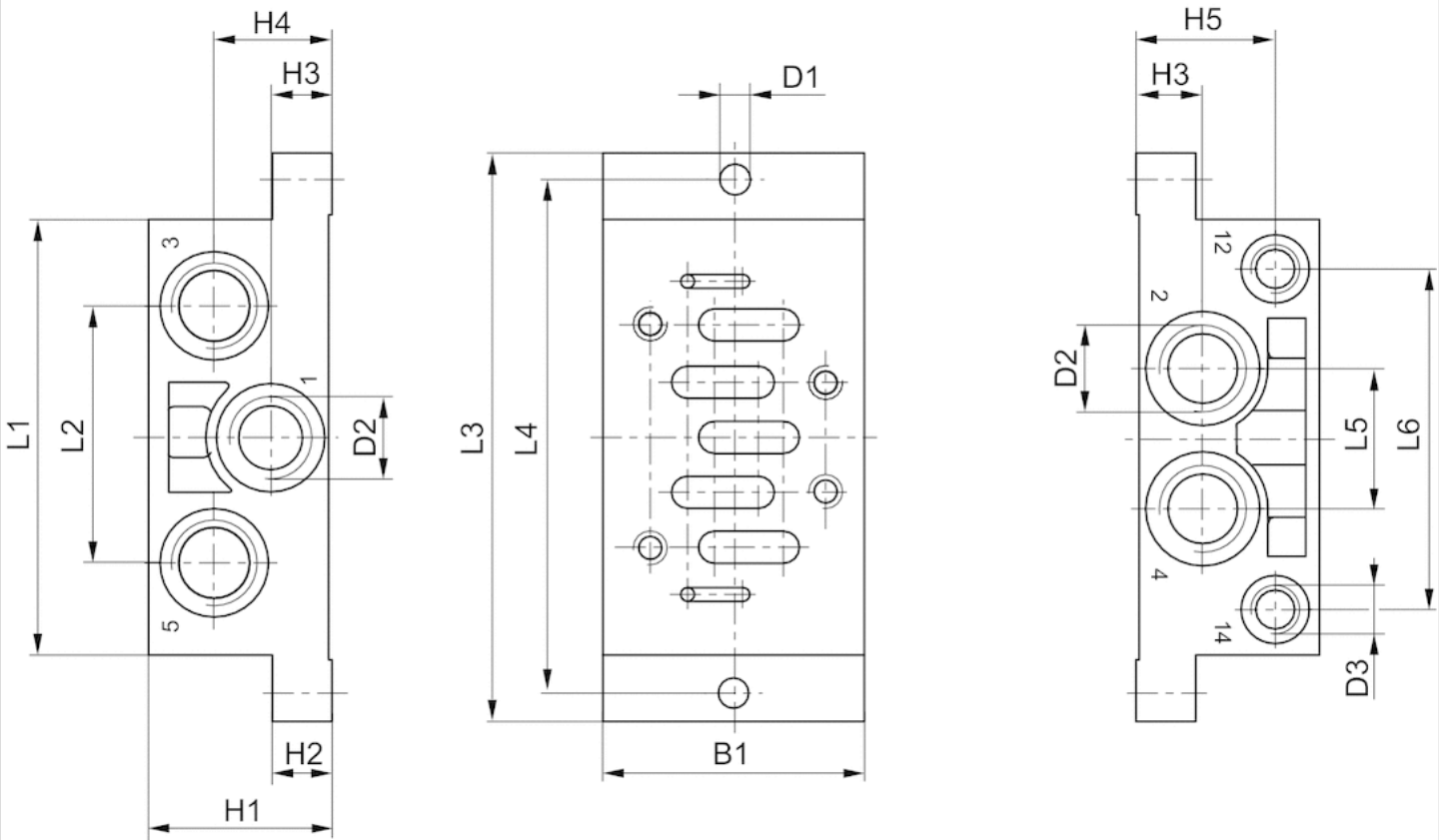
Material

Base plate

Die-cast aluminum

Dimensions

Fig. 1



Dimensions

Part No.	Frame size	B1	H1	H2	H3	H4	H5	D1	D2 *)	D3 *)	L1	L2	L3	L4	L5	L6
1825503146	ISO 2	57	40	13	14	26	30	6.6	G 3/8	G 1/8	95	56	124	112	30	74

*) Ports

Single subbase, thread connections on the bottom

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8
- 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	0,325 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
1825503202	G 3/8	G 3/8

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
1825503202	G 3/8	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
1825503202	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

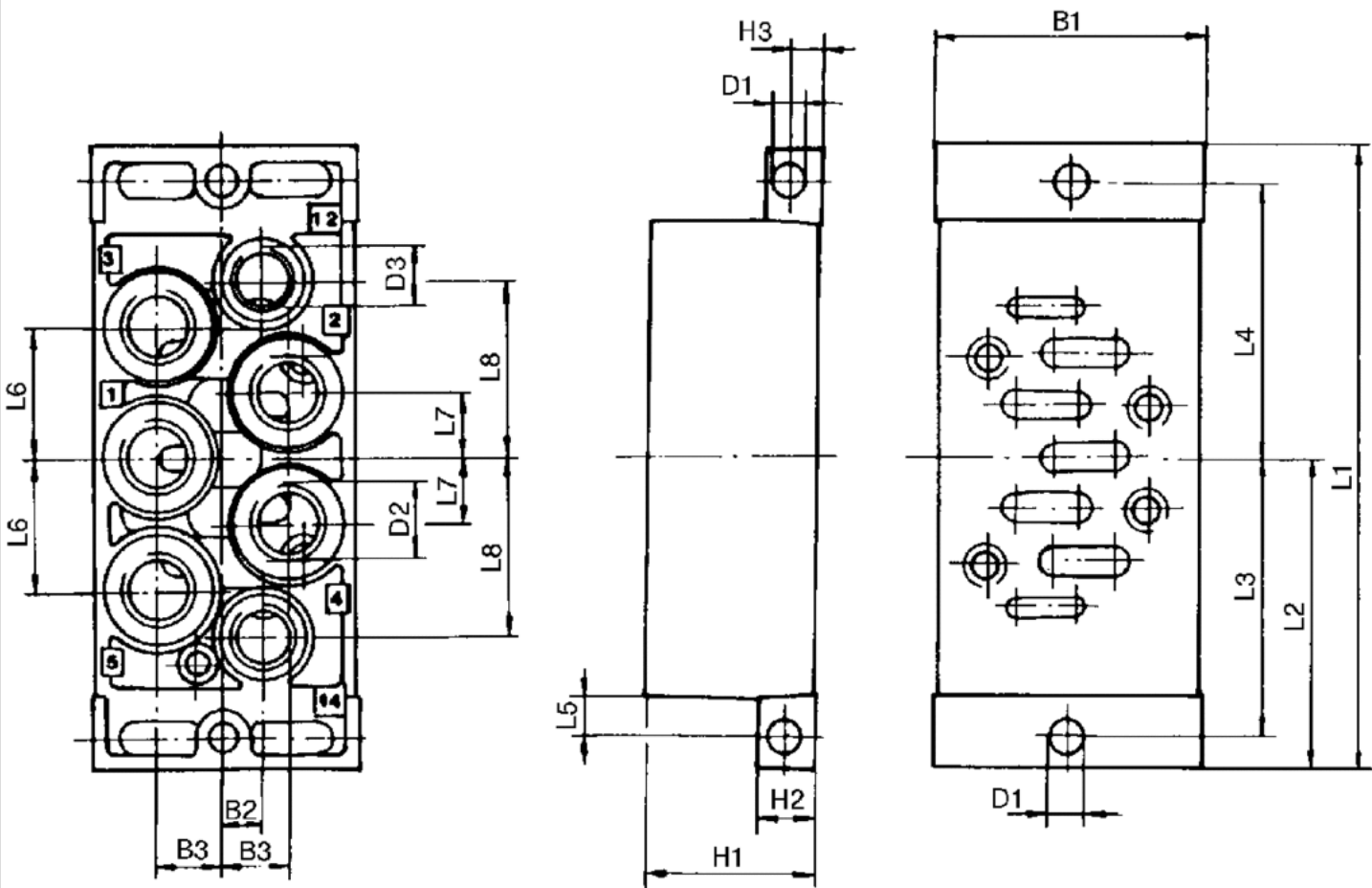
Material

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
1825503202	ISO 2	56	8	13,5	6,6	G 3/8	G 1/8	35	13	6,5	124	62	56	56	8,5	28	14	36,5

*) Ports

Single subbase, ports on side

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 1/4 G 3/8



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
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 (14)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Weight	See table below

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5802710000	G 1/4	G 1/4
5802740000	G 3/8	G 3/8

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]	Weight
5802710000	G 1/4	G 1/8	0,19 kg
5802740000	G 3/8	G 1/8	0,32 kg

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.

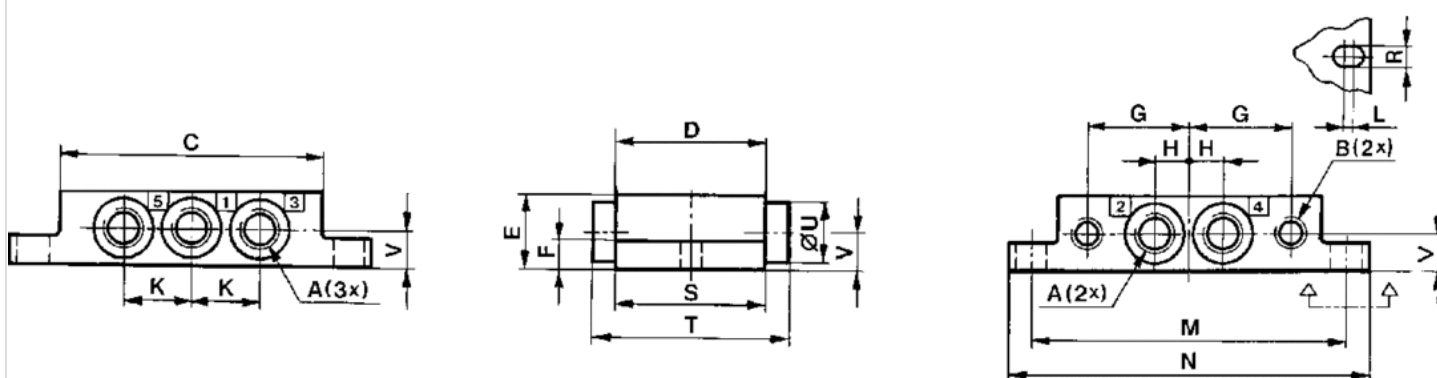
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum, black painted

Dimensions

Dimensions



Dimensions

Part No.	Frame size	A *)	B *)	C	D	E	F	G	H	K	L	M	N	R	S	T	U	V
5802710000	ISO 2	G 1/4	G 1/8	86	52	23	8	34	12	24	2	102	115	6.4	52	–	–	11.5
5802740000	ISO 2	G 3/8	G 1/8	86	50	30	13	39	15	30	2	111	124	6.4	56	80	27	16

*) Ports

Single subbase, ports on bottom

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 1/4



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 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 (14)	Down
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Weight	0,19 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5802700000	G 1/4	G 1/4

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
5802700000	G 1/4	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.

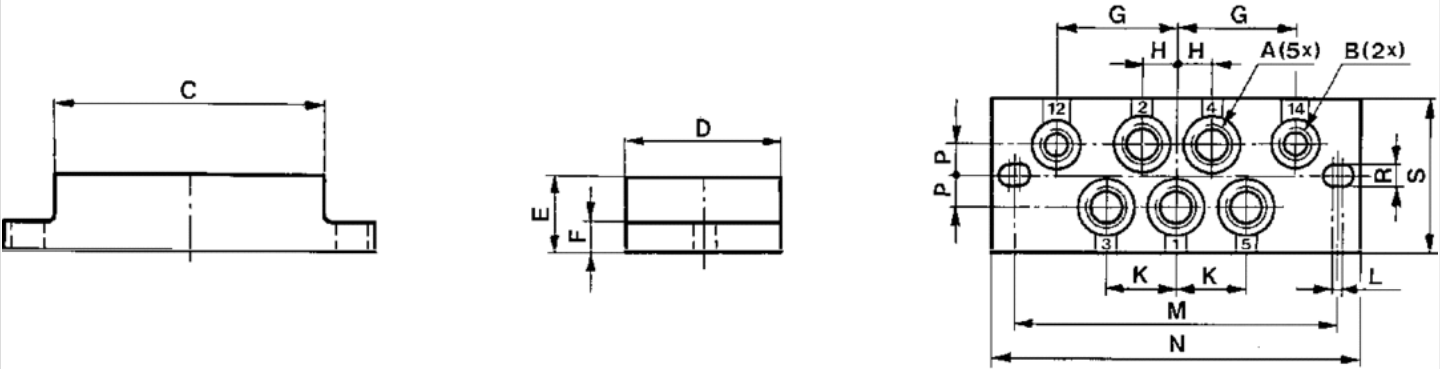
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum, black painted

Dimensions

Dimensions



Dimensions

Part No.	Frame size	A *)	B *)	C	D	E	F	G	H	K	L	M	N	P	R	S
5802700000	ISO 2	G1/4	G1/8	86	52	22	8	34	12	24	2	102	115	10	6.4	52

*) Ports

Subbase, for direct mounting of ISO valves on cylinders

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Weight	0,58 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5802690000	G 3/8	G 3/8

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
5802690000	G 3/8	G 1/8

Scope of delivery incl. mounting screws

Ø 63 ... 125 mm

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.

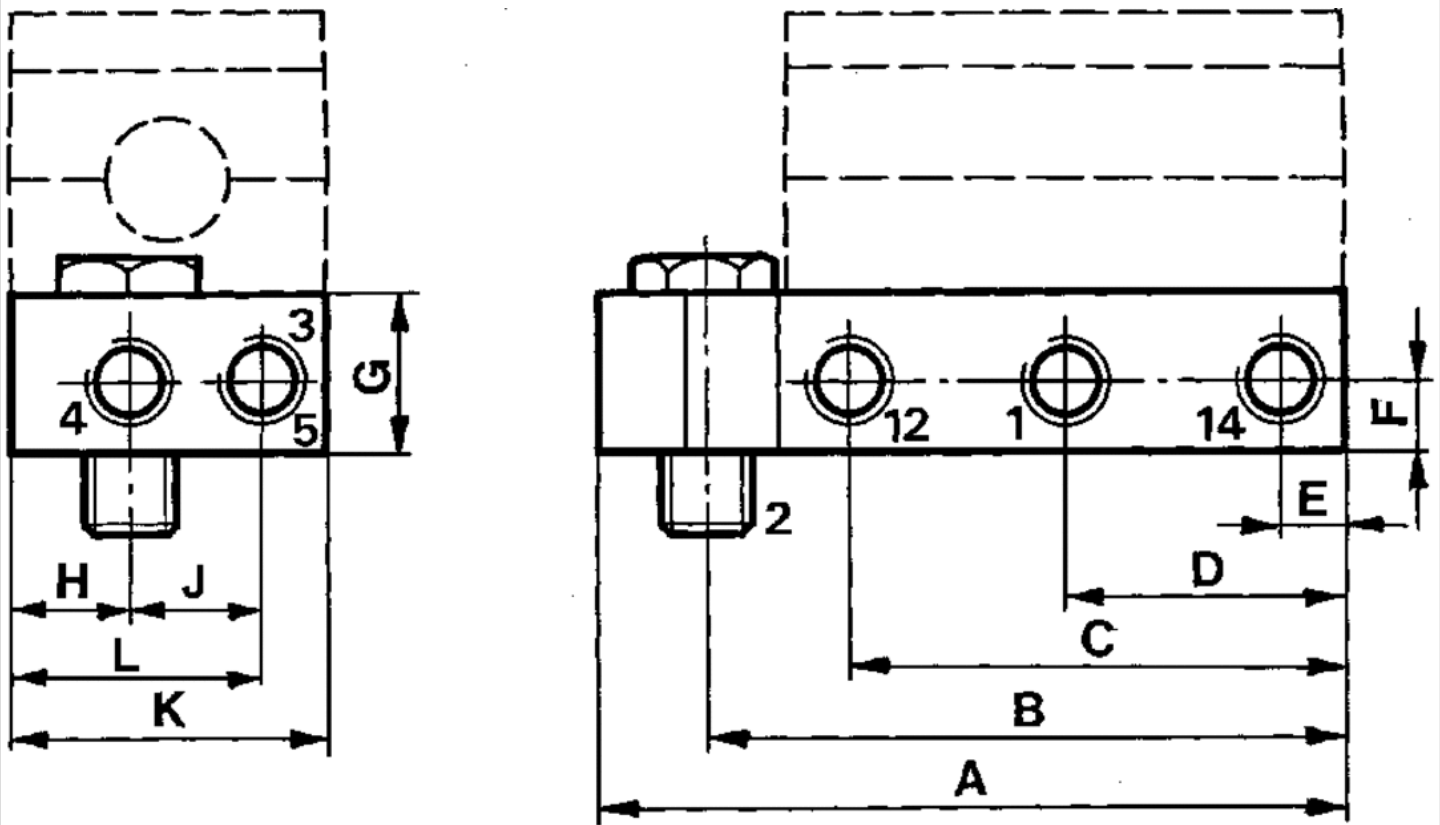
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum, black anodized
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	Frame size	1, 4, 3, (5)	2*	12, 14	A	B	C	D	E	F	G	H	J	K	L
5802690000	ISO 2	G 3/8	G 3/8	G 1/8	127	109.5	81.5	46.5	11.5	13	32	29	26	60	46.5

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

Single subbase, for soft-start valve

- Compressed air connection output G 1/2



Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Weight	0,34 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5834710000	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
5834710000	G 1/2	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.

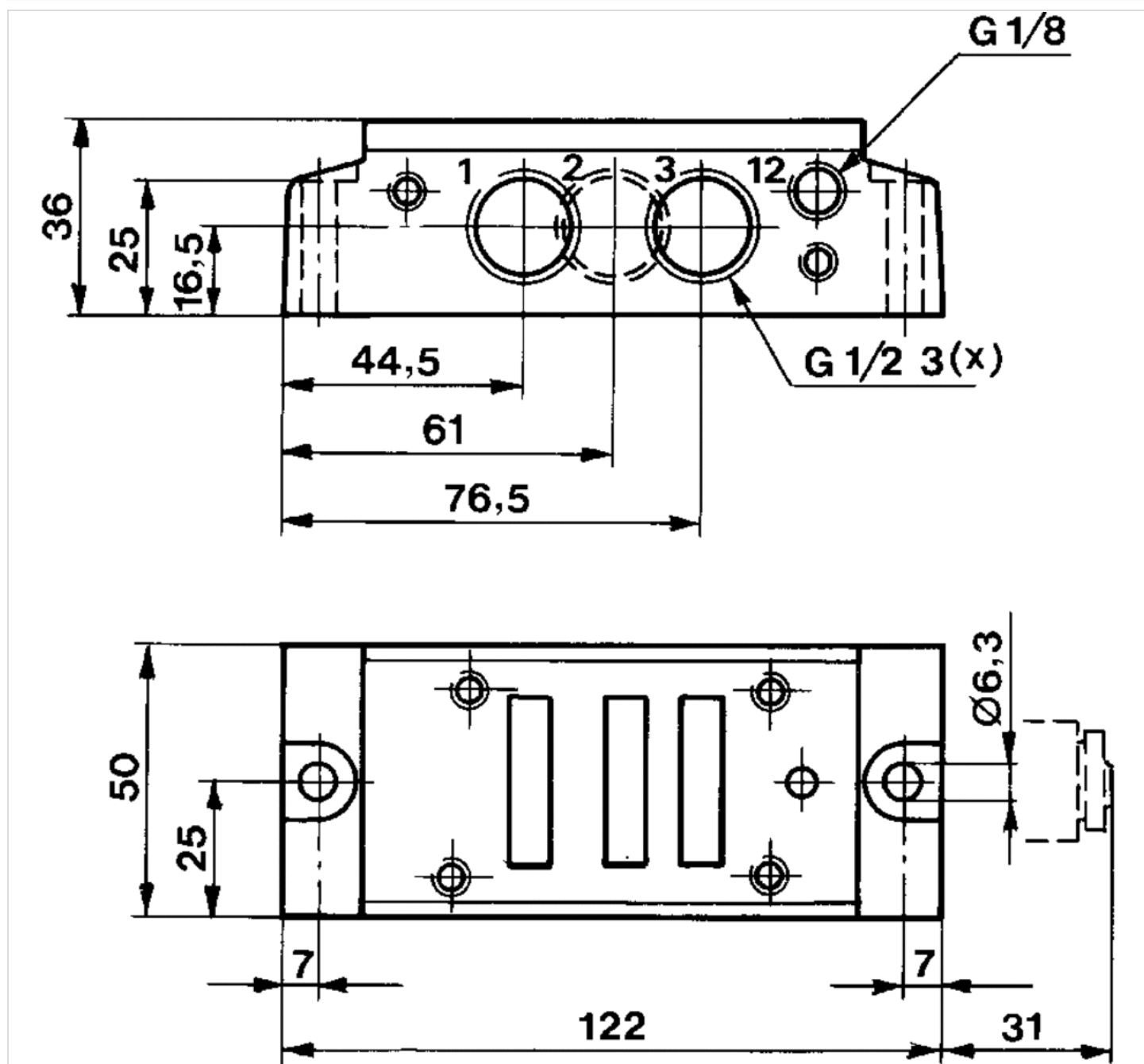
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum, black painted

Dimensions

Dimensions



Transition plate

- standard ISO 5599-1
- Frame size ISO 1 ▶ ISO 2
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Mounting screw	hexagon head
Weight	0,295 kg

Technical data

Part No.
1825503164

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 .

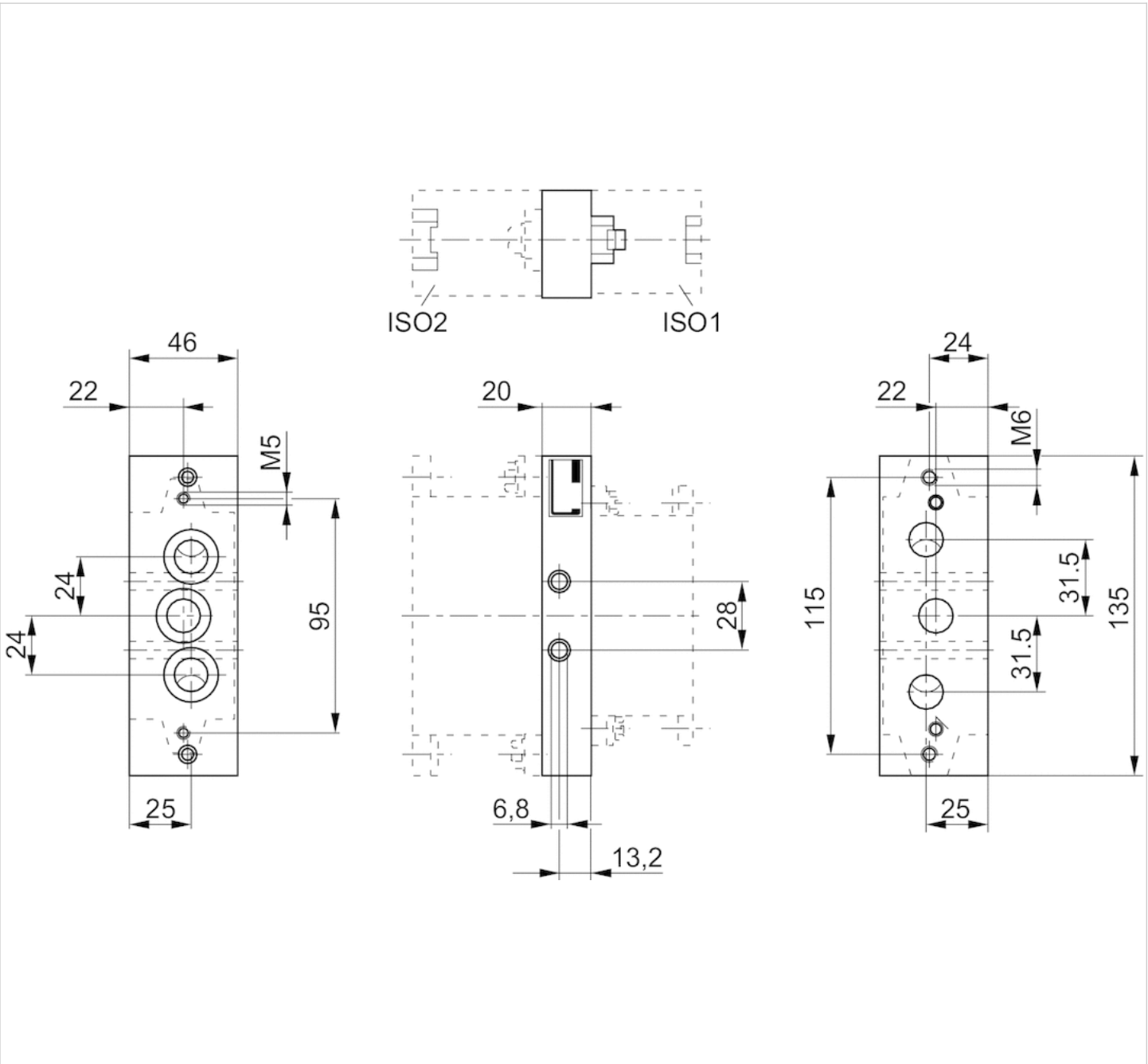
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Housing	Aluminum
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions



Transition plate

- standard ISO 5599-1
- Frame size ISO 1 ▶ ISO 3 ISO 2 ▶ ISO 3
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Mounting screw	hexagon head
Weight	See table below

Technical data

Part No.	Frame size	Weight	Fig.
1825503166	ISO 1 ▶ ISO 3	0,825 kg	Fig. 1
1825503165	ISO 2 ▶ ISO 3	0,79 kg	Fig. 2

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	
Housing	Aluminum
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Fig. 1

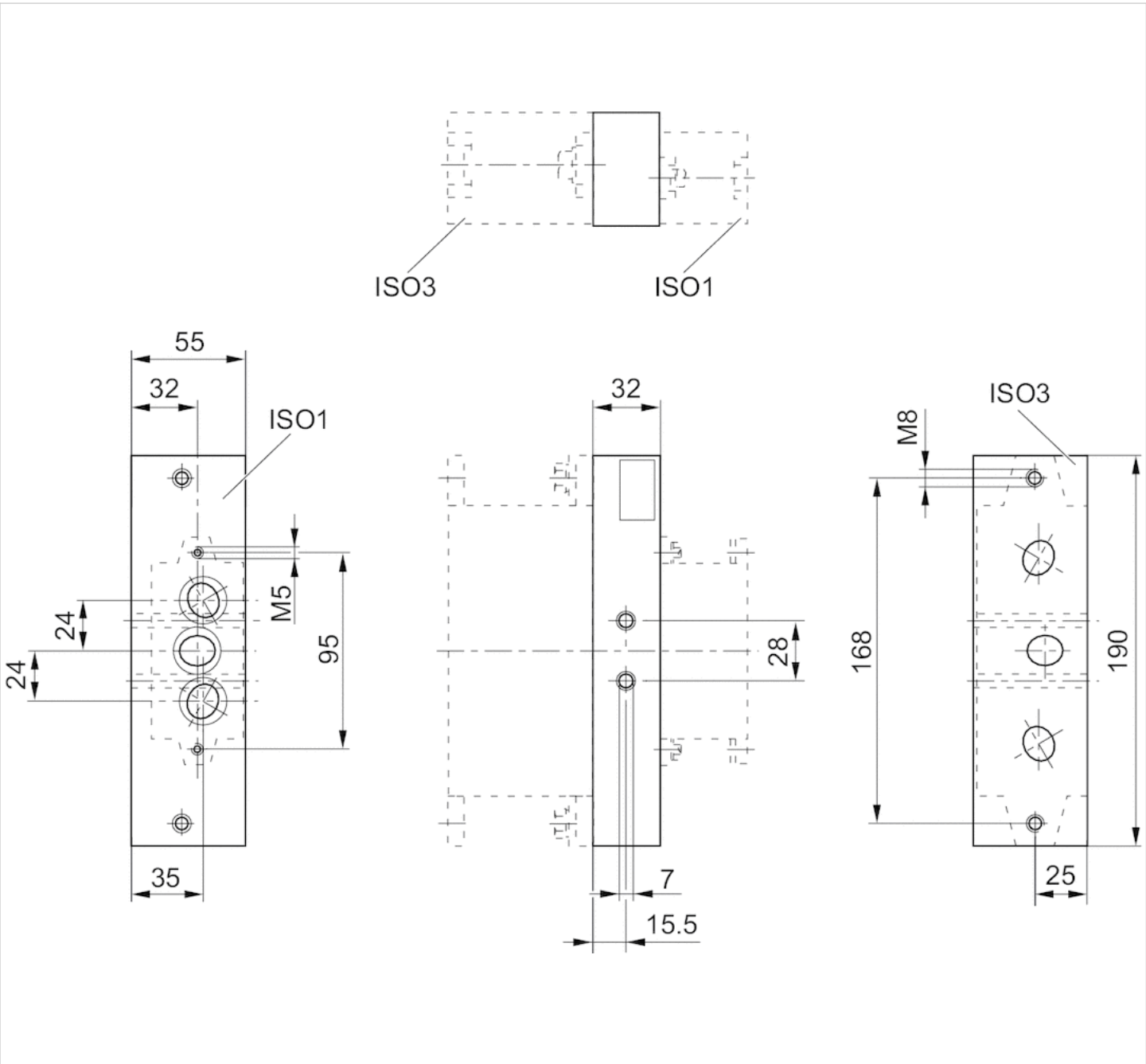
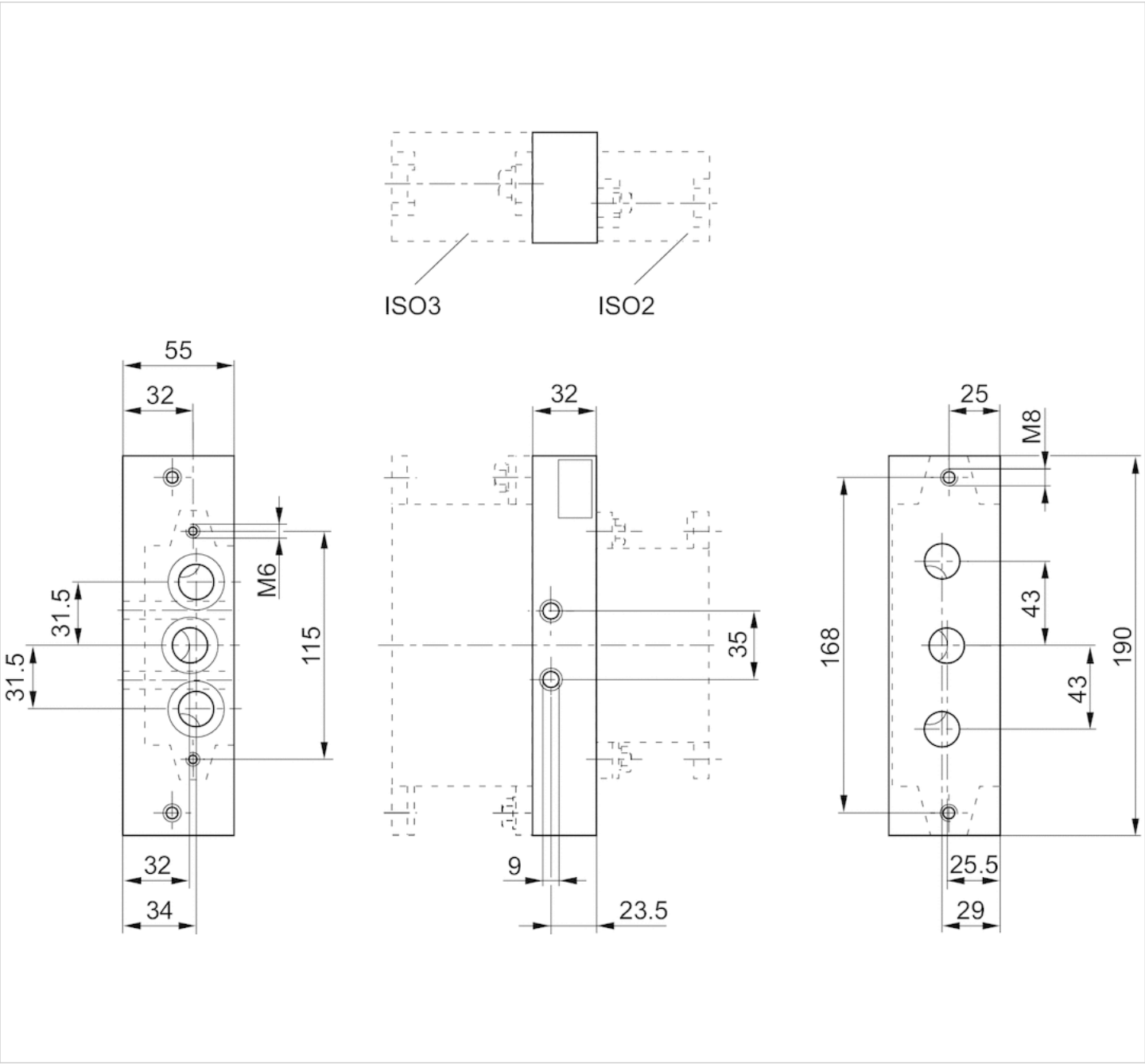


Fig. 2



Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 2
- type F
- Compressed air connection output G 3/8
- Can be assembled into blocks
- Single base plate principle
- Reversed pressure supply permissible
- With collective pilot air exhaust



Standards	ISO 5599-1
Compressed air connection	according to 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	56 mm
Direction of pneumatic port (1)	On the side
Direction of pneumatic port (3,5)	On the side
Direction of pneumatic port (2,4)	Down
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
Mounting screw	hexagon head
Weight	0,378 kg

Technical data

Part No.	Compressed air connection Output [2 / 4]	Compressed air connection Pilot connection [12]
1825503147	G 3/8	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
1825503147	G 1/8

Scope of delivery incl. seal and mounting screws

Technical information

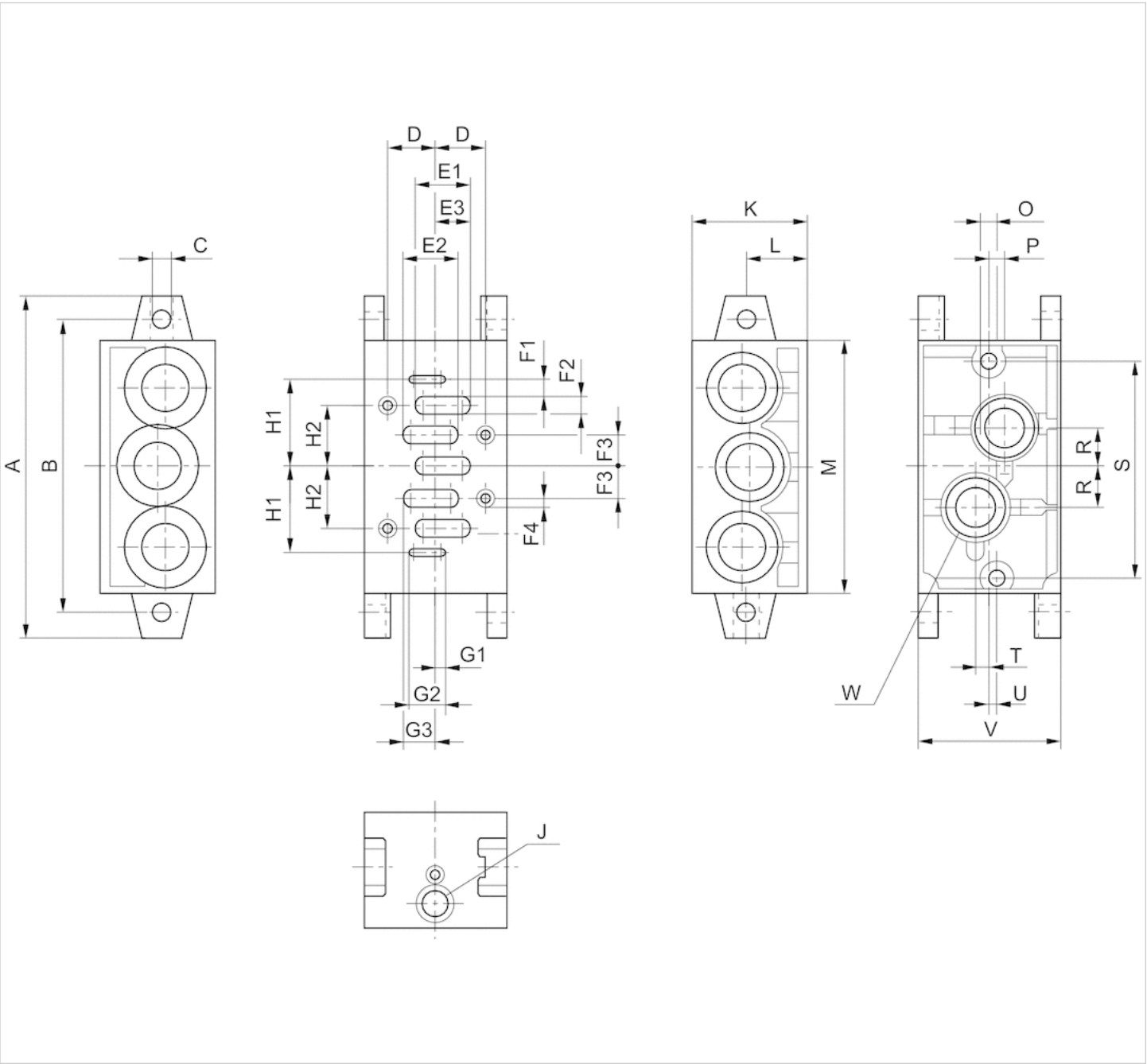
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Material	
Housing	Die-cast aluminum
Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E1	E2	E3	F1	F2	F3	F4	G1	G2	G3	H1	H2	J	K	L	M	O	P	R
1825503147	135	115	6,6	19	22	22	13,5	3	7	12	M6	3	14,5	13,5	34	24	G 1/8	45	24	100	M6	6	15

S	T	U	V	W
86	5	3	56	G 3/8

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 2
- type F
- Can be assembled into blocks
- Base plate principle, multiple
- Reversed pressure supply permissible



Standards

Compressed air connection
Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium
Direction of pneumatic port (1)
Direction of pneumatic port (3,5)
Exhaust (3,5)
Exhaust type
Mounting screw
Weight

ISO 5599-1

according to ISO 5599-1
-0,95 ... 16 bar
-15 ... 70 °C
-25 ... 70 °C
Compressed air
On the side
On the side
With directional exhaust (3/5)
Ports separated
hexagon head
0,351 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]
1825503148	G 1/2	G 1/2

Scope of delivery: 2 end plates including seal and mounting screws

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.

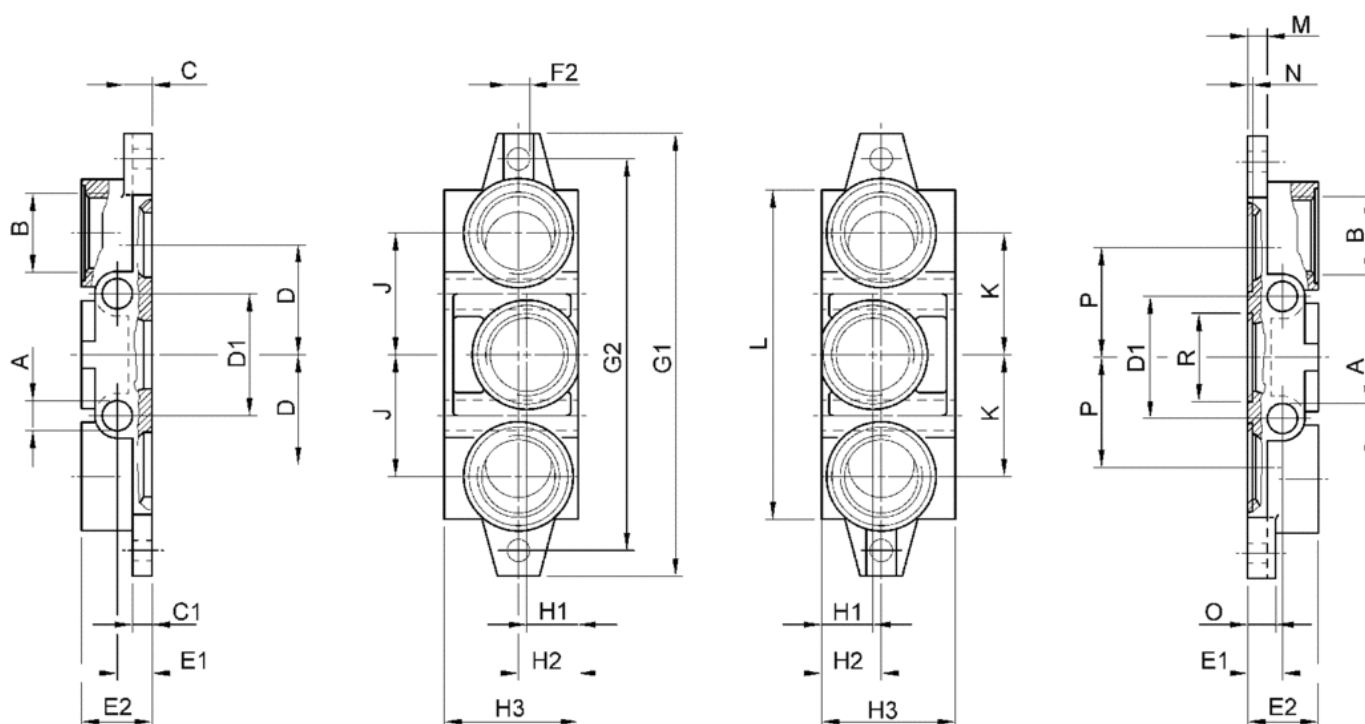
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	C1	D	D1	E1	E2	F2	G1	G2	H1	H2	H3	J	K	L	M	N	O	P	R
1825503148	9	G 1/2	11	8	31,5	35	13	26	Ø 6,6	135	115	23	24	47	34	34	100	8	2	11	31,5	Ø 28,7

End plates for adapter plate

- standard ISO 5599-1
- Frame size ISO 1, ISO 2 ISO 1, ISO 3 ISO 2, ISO 3
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 80 °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	See table below

Technical data

Part No.	Frame size	Weight
1825503244	ISO 1, ISO 2	0,255 kg
1825503243	ISO 1, ISO 3	0,395 kg
1825503245	ISO 2, ISO 3	0,45 kg

Scope of delivery: 2 end plates of different sizes including seal and mounting screws

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 .

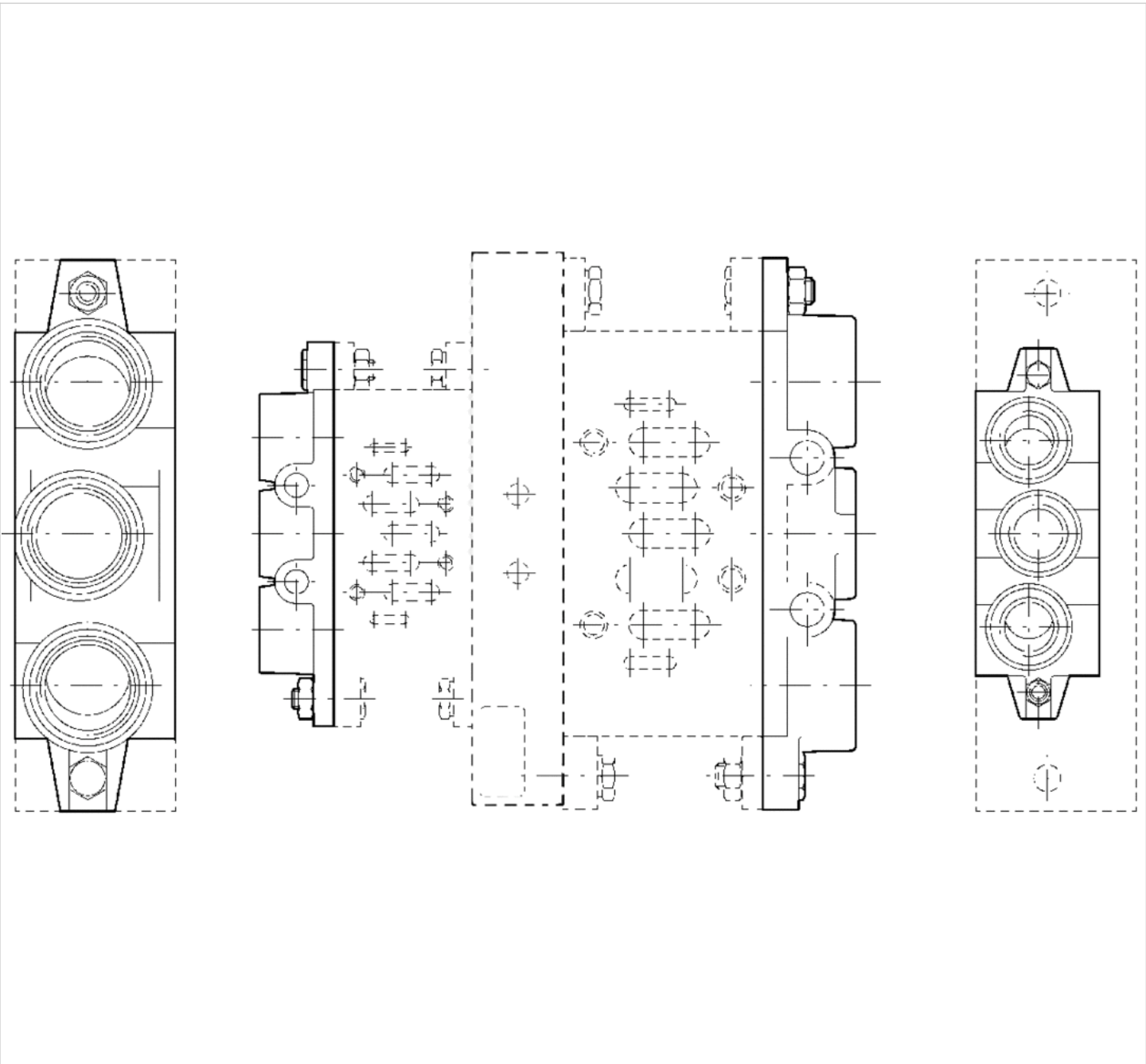
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

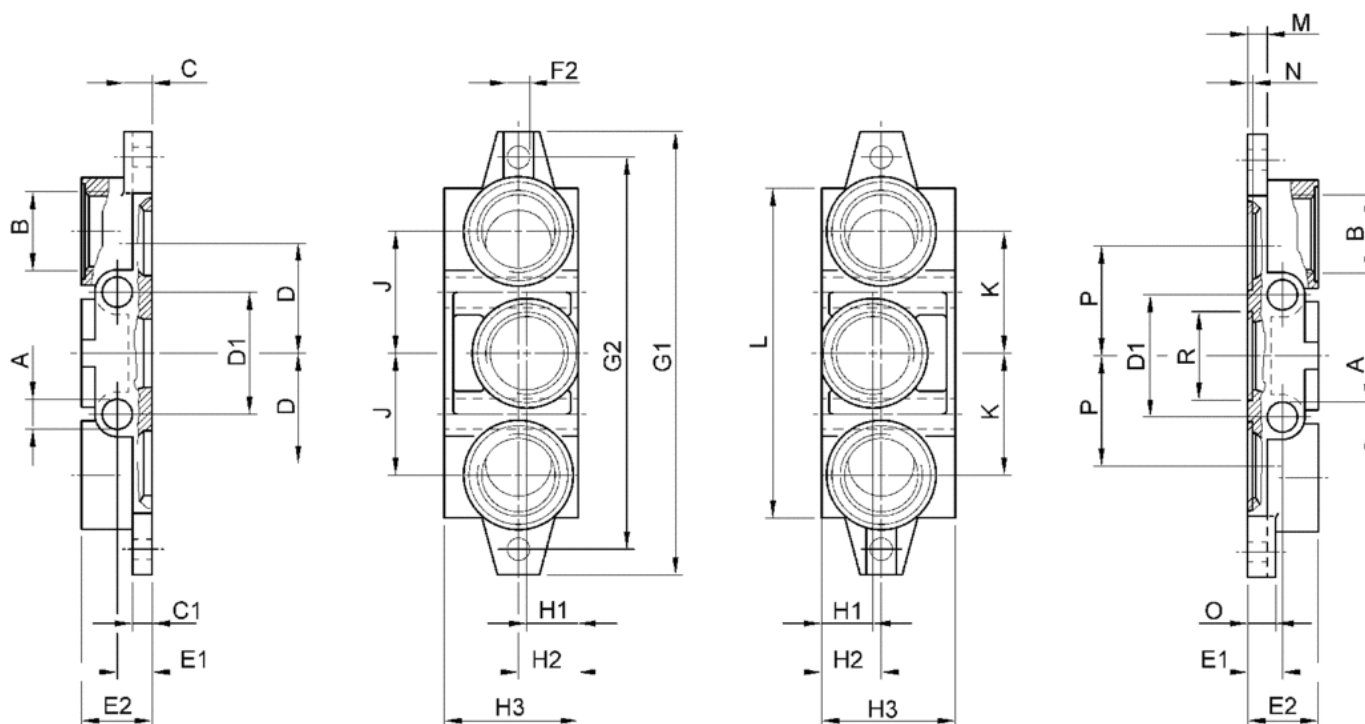
Technical information

Material	
Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions



Dimensions

	ISO 1	ISO 2	ISO 3
A	7	9	12
B	G 3/8	G 1/2	G 1
C	8	11	12
C1	6	8	8
D	24	31,5	47
D1	28	35	52
E1	11	13	15
E2	22	26	32
F2	Ø 5,5	Ø 6,6	Ø 9
G1	110	135	190

	ISO 1	ISO 2	ISO 3
G2	95	115	168
H1	22	23	22
H2	22	24	25
H3	46	47	56
J	28	34	52
K	28	34	52
L	85	100	140
M	6	8	8
N	2	2	2,7
O	8	11	12
P	24	31,5	47
R	Ø 22,1	Ø 28,7	Ø 38

Angle subplate

- standard ISO 5599-1
- Frame size ISO 2
- type F
- Compressed air connection output G 3/8



Standards	ISO 5599-1
Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Direction of pneumatic port (2,4)	On the side
Mounting screw	with hexagon socket
Weight	0,688 kg

Technical data

Part No.	Compressed air connection Output [2 / 4]
1825503204	G 3/8

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.

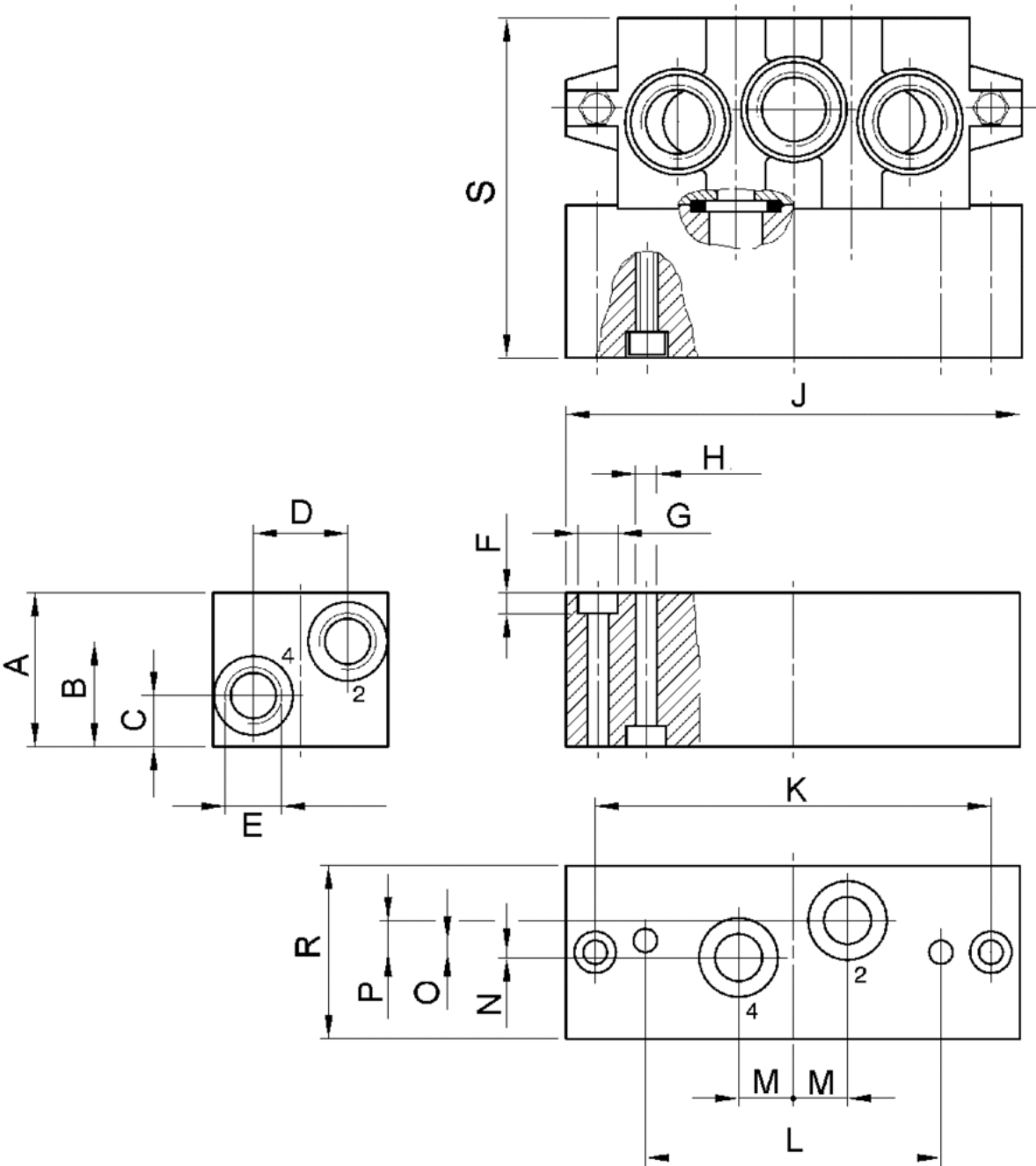
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S
1825503204	40	26	14	29	G 3/8	6,8	Ø 11	Ø 6,6	135	115	86	15	5	3	6	55	85

Blanking piece

- standard ISO 5599-1, ISO 2
- type F



Standards	ISO 5599-1
Ambient temperature min./max.	-15 ... 80 °C
Weight	0,011 kg

Technical data

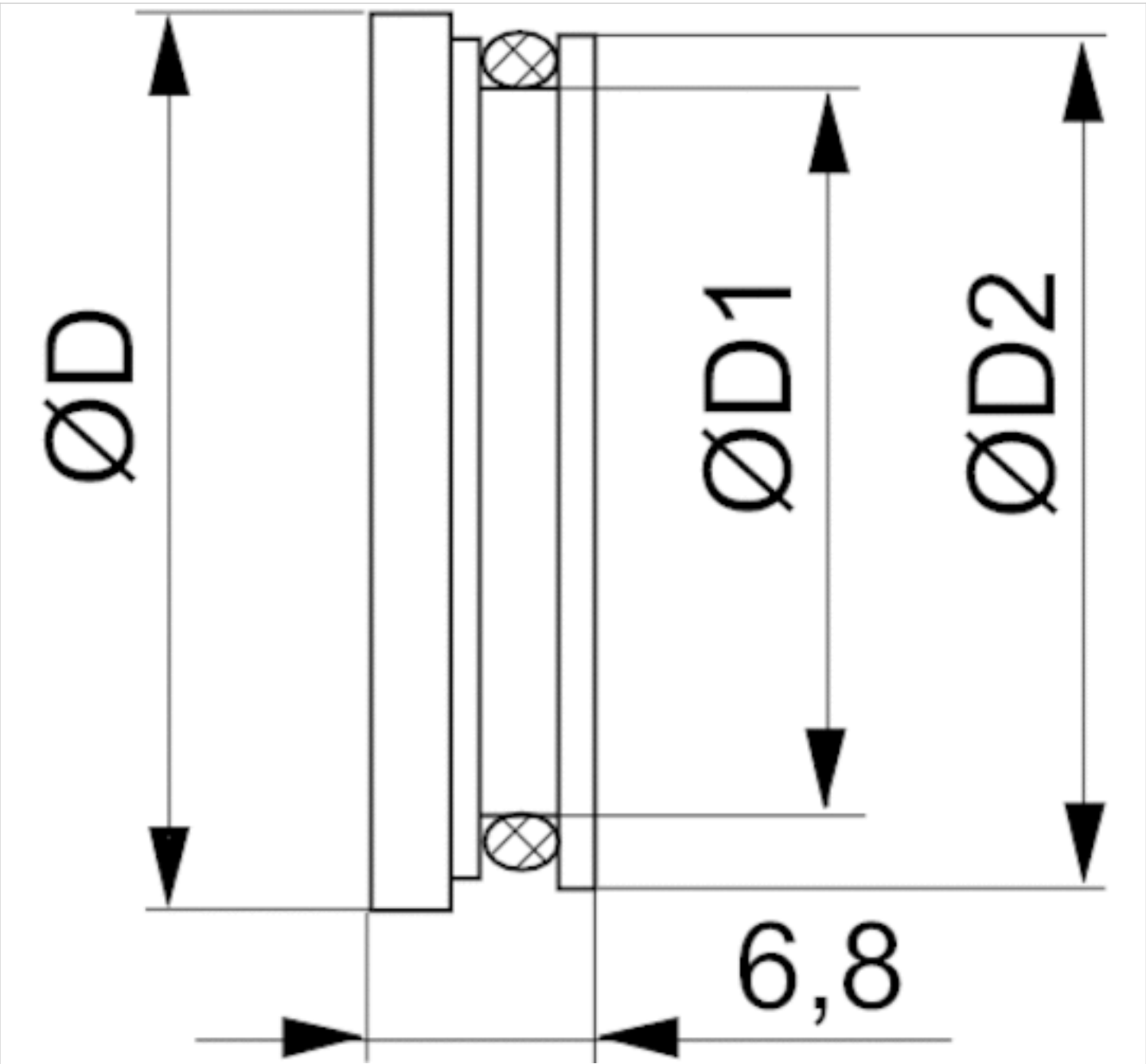
Part No.	Type	Accessory type	Frame size
1820220023	Blanking piece, ISO 2	type F	ISO 2

Technical information

Material	
Housing	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	Ø D	Ø D1	Ø D2
1820220023	23	14.3	18.2

Blanking piece, Subbases ISO 5599-1

- standard ISO 5599-1, ISO 2
- type F



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 10 bar
Ambient temperature min./max.	-25 ... 70 °C

Technical data

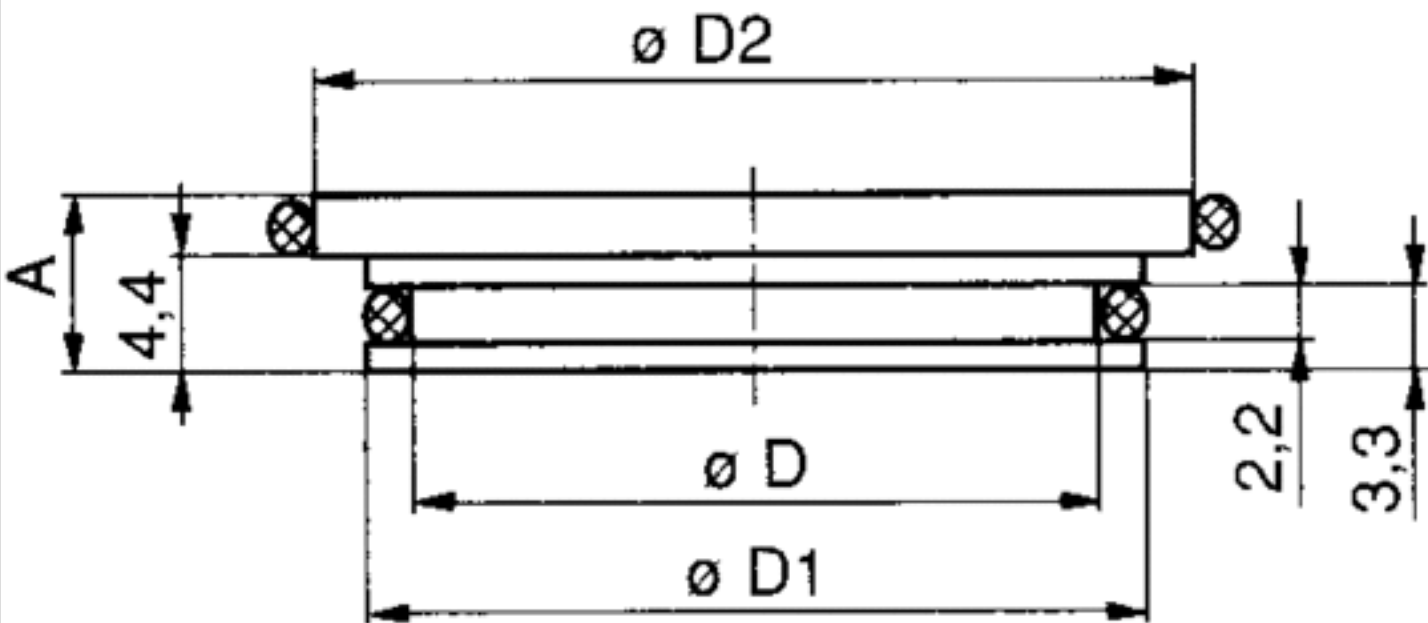
Part No.	Accessory type	Frame size
8985049022	type F	ISO 2

Technical information

Material	
Housing	Brass
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	Frame size	A	D	D1	D2
8985049022	ISO 2	6.2	15.7	18.3	23

End plate right

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 70 °C
Medium	Compressed air
Weight	See table below

Technical data

Part No.	Frame size	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]	Weight
R432037651	ISO 1	G 3/8	G 3/8	0,32 kg
R432037653	ISO 2	G 3/4	G 3/4	0,491 kg
R432037655	ISO 3	G 1	G 1	1,32 kg

Scope of delivery incl. seal and mounting screws

Technical information

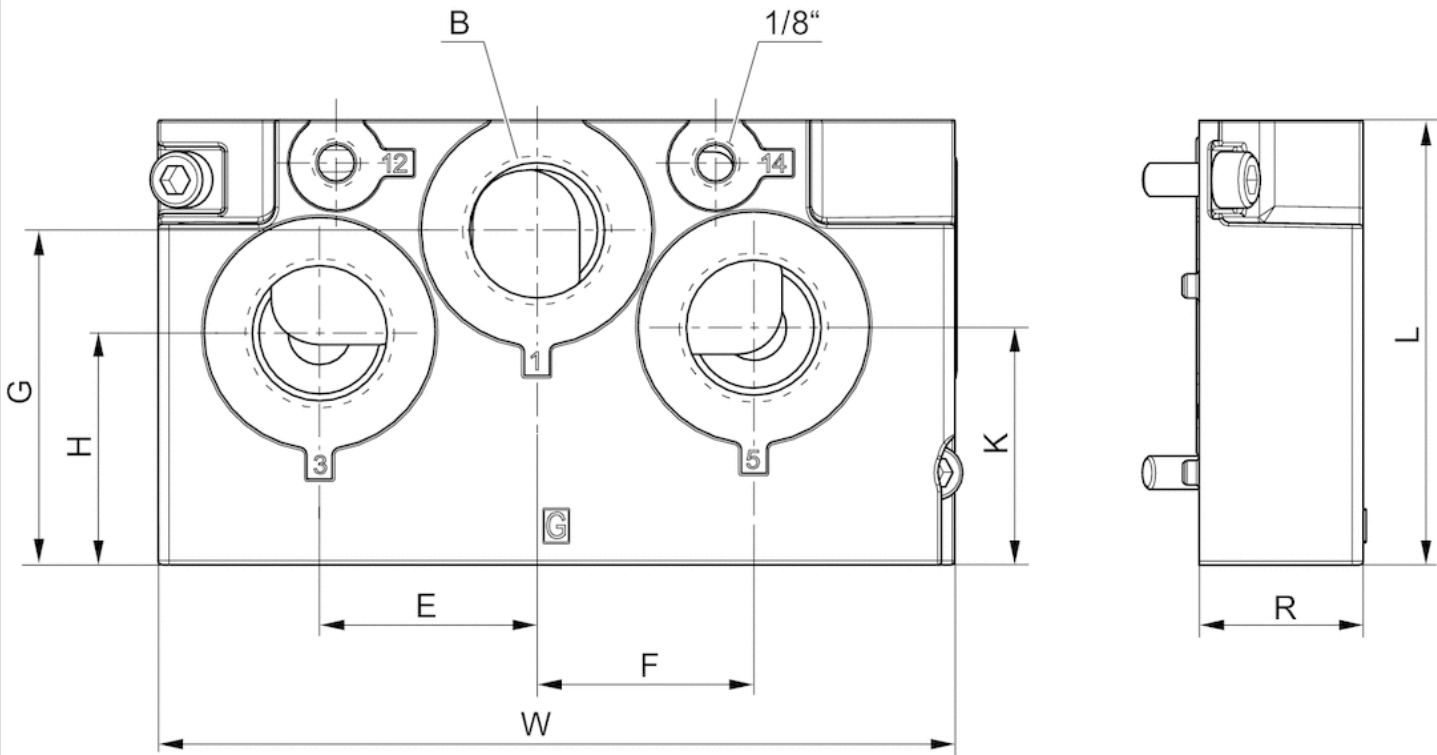
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Material	
Surface	painted
Base plate	Die-cast aluminum, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	Frame size	B	E	F	G	H	J	K	R	L	W
R432037651	ISO 1	3/8	23	18	15.5	30	20	37.5	25	60.6	135
R432037653	ISO 2	3/4	39	39	60	41.5	38	42.5	29.5	79.7	143
R432037655	ISO 3	1	49	49	76	53	32	53	36	100	164

Base plate

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C
- Compressed air connection output G 3/8 G 1/2 G 3/4
- Can be assembled into blocks



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Direction of pneumatic port (1)	Both directions possible
Direction of pneumatic port (3,5)	Both directions possible
Exhaust type	Ports separated
Weight	See table below

Technical data

Part No.	Frame size	Compressed air connection Output [2 / 4]	Weight
R432037639	ISO 1	G 3/8	0,592 kg
R432037641	ISO 2	G 1/2	1,04 kg
R432037643	ISO 3	G 3/4	1,89 kg

Scope of delivery incl. seal and mounting screws

Technical information

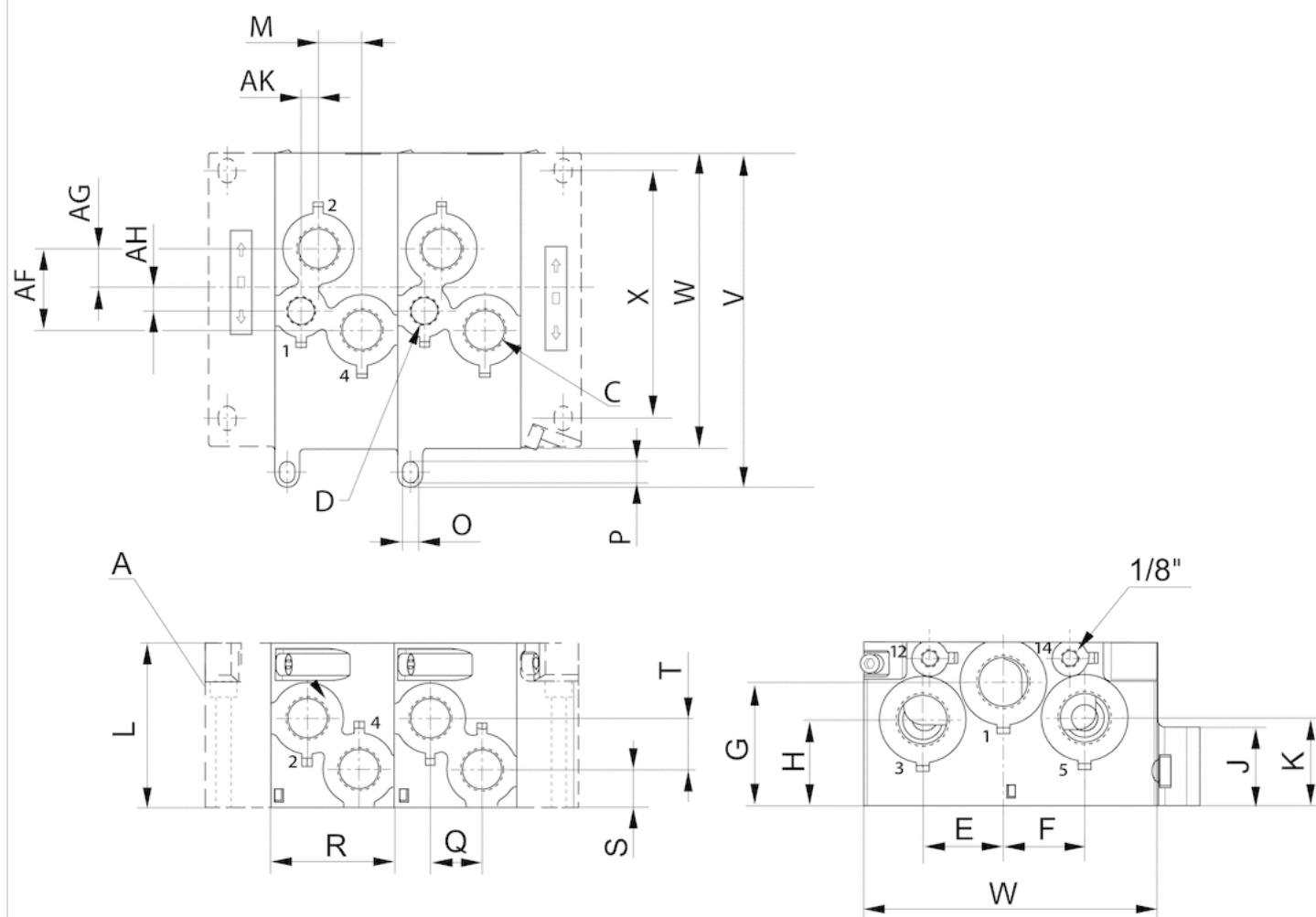
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Material	
Surface	painted
Base plate	Die-cast aluminum, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



A = left and right end plates in two versions

Dimensions

Part No.	A	D	C	AF	AG	AH	AK	E	F	G	H	J	K	L	M	O	P	R
R432037639	G 1/4	-	G 3/8	23.8	11.8	-	-	23	18	15,5	30	20	37,5	60.6	12	5.5	8.5	45
R432037641	G 1/2	G 3/8	G 1/2	39.5	19	11	8.2	39	39	60	41,5	38	42,5	79.7	21	5.5	9.3	59.5
R432037643	G 3/4	G 1/2	G 3/4	46.3	25.1	11.2	15.8	49	49	76	53	32	53	100	22.5	6.3	9.3	80

Q	S	T	X	W	V
18	13.3	14.7	102,5	135	150

Q	S	T	X	W	V
25	18	24.8	119,6	143	162,5
38	24.5	20.5	99	164	183

End plate left

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C



Standards	ISO 5599-1
Working pressure min./max.	-0,95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 70 °C
Medium	Compressed air
Weight	See table below

Technical data

Part No.	Frame size	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]	Weight
R432037645	ISO 1	G 3/8	G 3/8	0,309 kg
R432037647	ISO 2	G 3/4	G 3/4	0,509 kg
R432037649	ISO 3	G 1	G 1	1,31 kg

Scope of delivery incl. seal and mounting screws

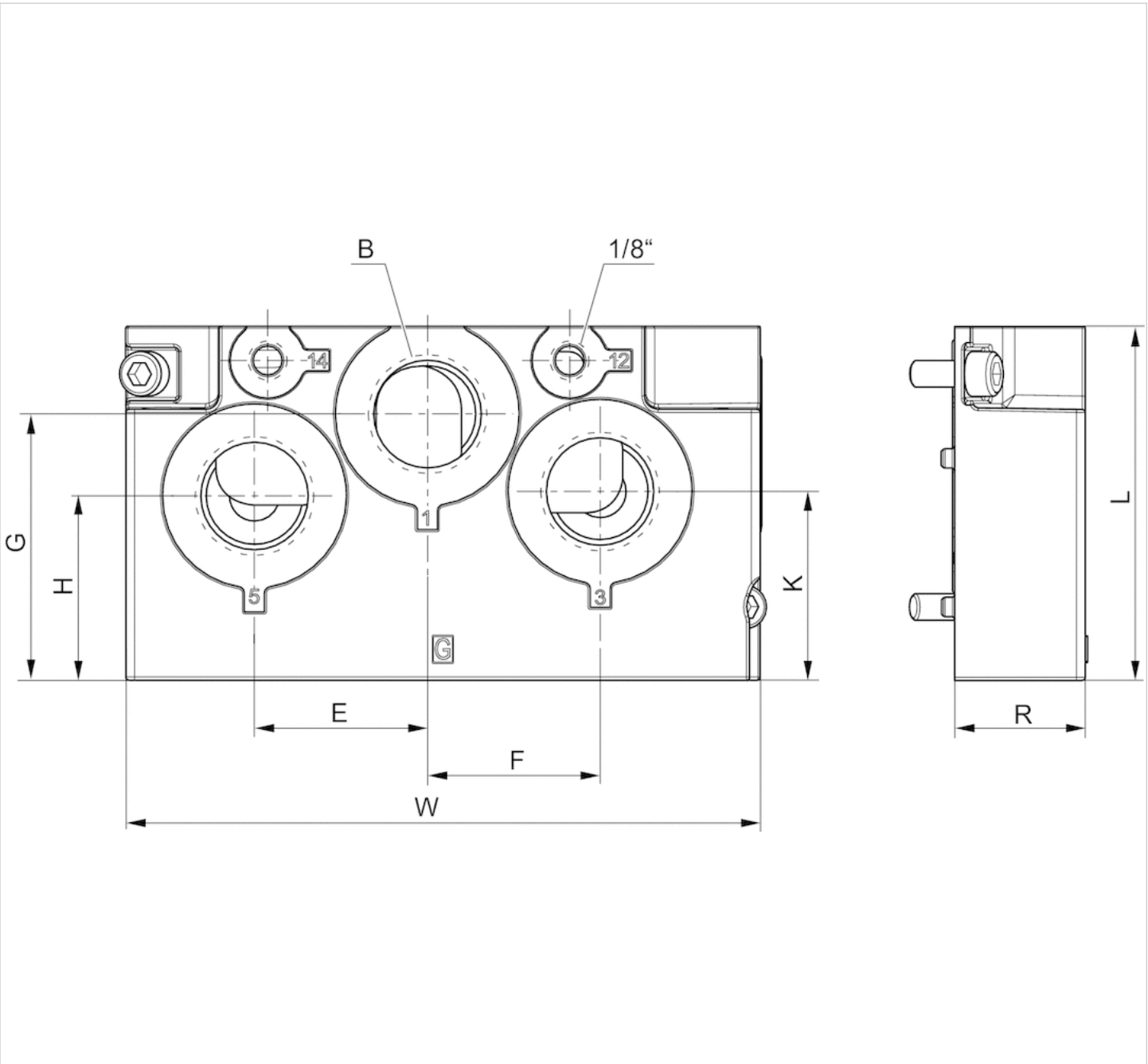
Technical information

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
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions

Part No.	Frame size	B	E	F	G	H	J	K	L	R	W
R432037645	ISO 1	3/8	23	18	15.5	30	20	37.5	60.6	25	135
R432037647	ISO 2	3/4	39	39	60	41.5	38	42.5	79.7	32	143
R432037649	ISO 3	1	49	49	76	53	32	53	100	37	164

Blanking piece

- according to ISO 5599
- standard ISO 1 ISO 2 ISO 3
- type C



Weight

See table below

Technical data

Part No.	Type	Accessory type	Frame size	Weight
R432038306	Blanking piece	type C	ISO 1	0,009 kg
R432037662	Blanking piece	type C	ISO 2	0,009 kg
R432037663	Blanking piece	type C	ISO 3	0,02 kg

Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 2
- type K
- Compressed air connection output G 1/4 G 3/8
- Can be assembled into blocks



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Direction of pneumatic port (2,4)	Down
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Weight	See table below
An example configuration is illustrated. The delivered product may thus deviate from the illustration.	

Technical data

Part No.	Compressed air connection Output [2 / 4]	Compressed air connection Pilot connection [12]	Weight
5802720000	G 1/4	G 1/8	0,27 kg
5802750000	G 3/8	G 1/8	0,52 kg

Scope of delivery incl. seal and mounting screws

Technical information

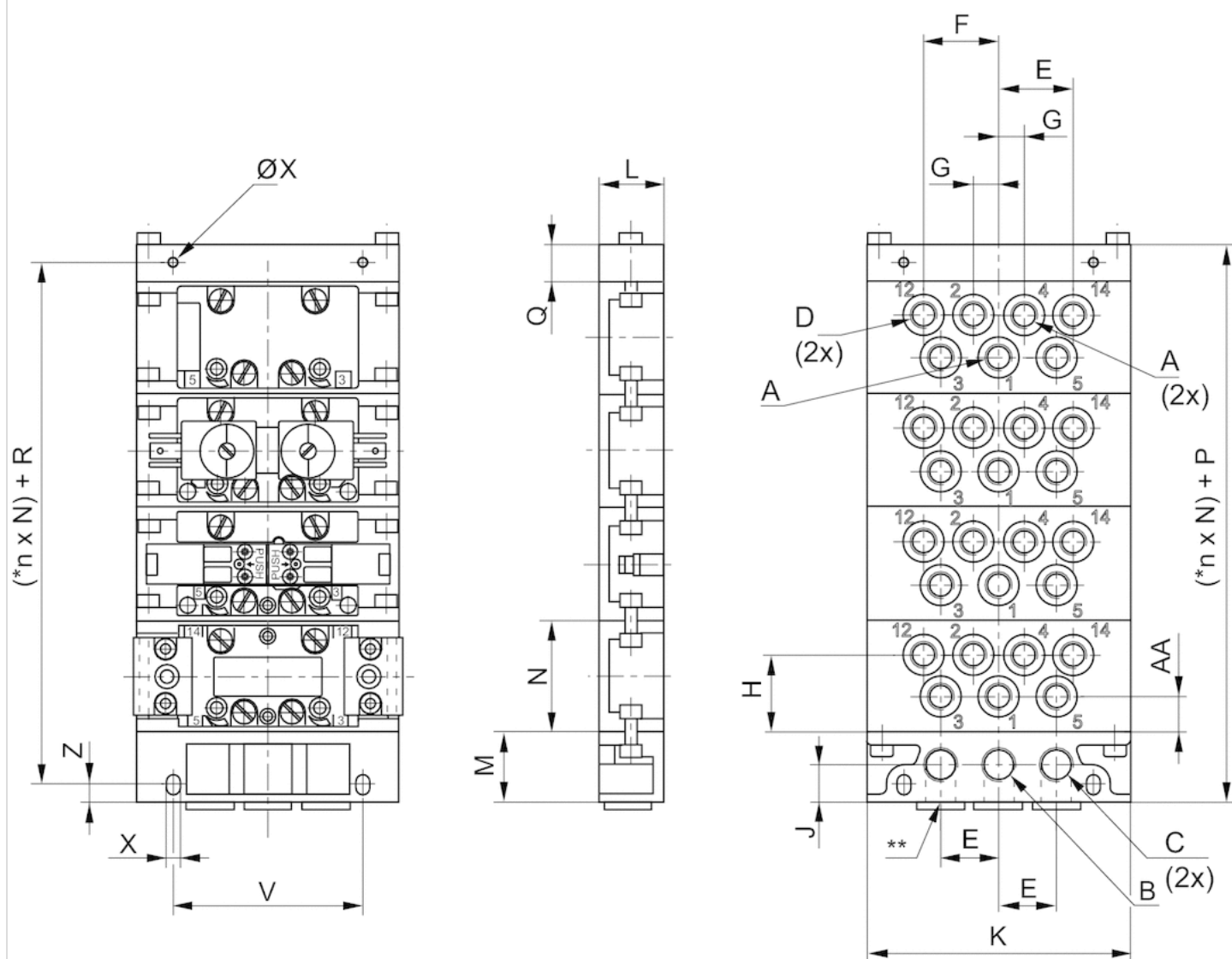
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

Dimensions

Part No.	*		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	V	X
5802720000	b	ISO 2	G 1/4	G 3/8	G 3/8	G 1/8	27	39	13.5	38	20	122	30	34	56	49	15	34	94	6.4
5802750000	c	ISO 2	G 3/8	G 1/2	G 1/2	G 1/8	36	52	17	33	22	156	37	39	56	59	20	40	118	8.4

Z	AA
8	18

Z	AA
10	13

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

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

- standard ISO 5599-1
- Frame size ISO 2
- type K
- Compressed air connection output G 1/4 G 3/8
- Can be assembled into blocks



Standards

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Number of valve positions max.

Direction of pneumatic port (1)

Direction of pneumatic port (3,5)

Direction of pneumatic port (2,4)

Direction of pneumatic port (14)

Exhaust (3,5)

Exhaust type

Weight

ISO 5599-1

-1 ... 16 bar

-20 ... 70 °C

-20 ... 70 °C

Compressed air

1

Down

Down

Down

Down

uncollected exhaust

Ports separated

See table below

An example configuration is illustrated.
The delivered product may thus deviate from the illustration.

Technical data

Part No.	Type	Compressed air connection Input [1]
5802670000	Intermediate plate for separate air supply	G 1/4
5802680000	Intermediate plate for separate air supply	G 3/8

Part No.	Compressed air connection Output [2 / 4]	Compressed air connection Pilot connection [12]	Port	Weight
5802670000	G 1/4	G 1/8	-	0,27 kg
5802680000	G 3/8	G 1/8	G 3/8	0,52 kg

Scope of delivery incl. seal and mounting screws

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.

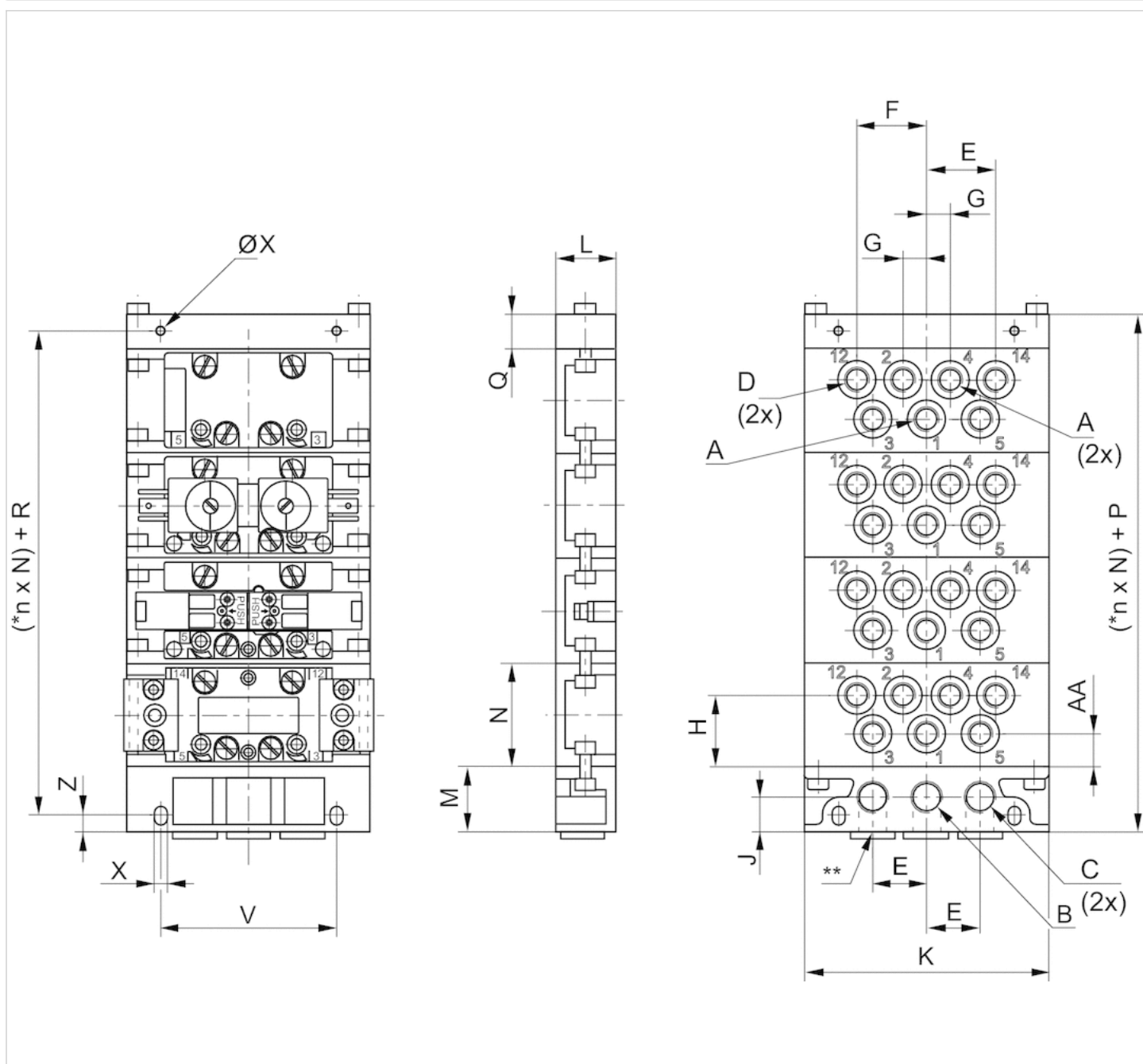
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

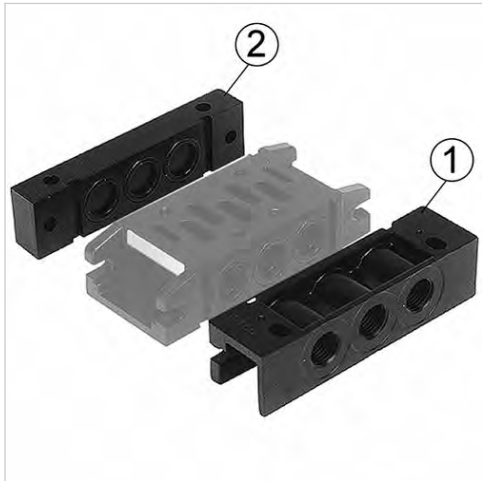
Dimensions

Part No.		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	V	X	Z
5802670000	ISO 2	G 1/4	G 3/8	G 3/8	G 1/8	27	39	13.5	38	20	122	28	34	56	49	15	34	94	6.4	8
5802680000	ISO 2	G 3/8	G 1/2	G 1/2	G 1/8	36	52	17	33	22	156	37	39	56	59	20	40	118	8.4	10

AA																				
18																				
33																				

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 1, ISO 2
- type K
- Can be assembled into blocks



Standards

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Exhaust (3,5)

Exhaust type

Weight

ISO 5599-1

-1 ... 16 bar

-20 ... 70 °C

-20 ... 70 °C

Compressed air

uncollected exhaust

Ports separated

See table below

An example configuration is illustrated.
The delivered product may thus deviate from the illustration.

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]	Weight
5802850000	G 3/8	G 3/8	0,26 kg
5802860000	-	-	0,13 kg

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.

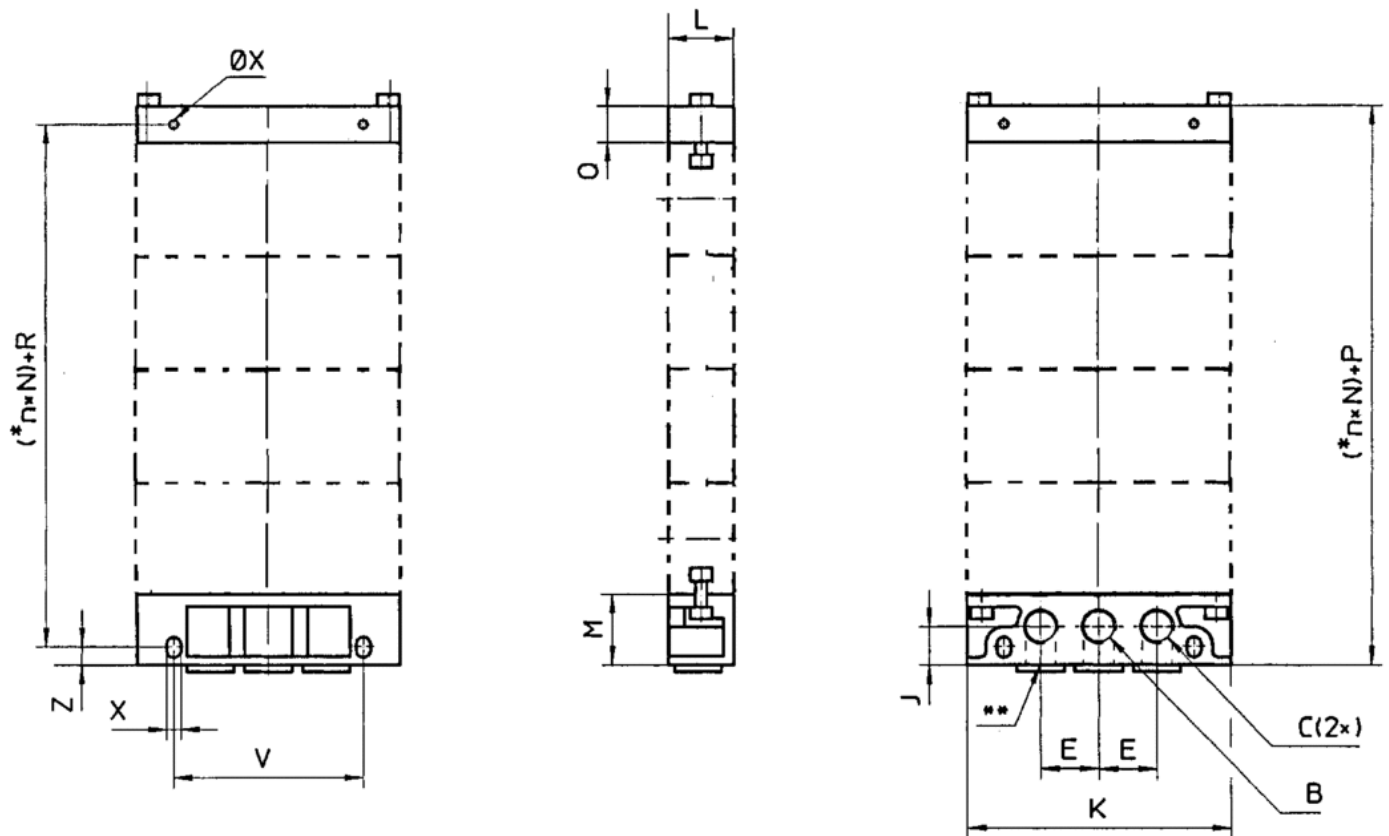
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Surface	painted
Base plate	Die-cast aluminum, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

Dimensions

Part No.		B	C	E	J	K	L	M	P	Q	R	V	X	Z	Weight
5802850000	ISO 1, ISO 2	G 3/8	G 3/8	27	20	122	30	34	49	-	34	94	6.4	8	0,26 kg
5802860000	ISO 1, ISO 2	-	-	-	-	122	29	-	49	15	34	94	6.4	-	0,13 kg

Separator set

- standard ISO 5599-1, ISO 1 ISO 2
- type K



Standards	ISO 5599-1
Ambient temperature min./max.	-20 ... 70 °C
Weight	0,017 kg
An example configuration is illustrated. The delivered product may thus deviate from the illustration.	

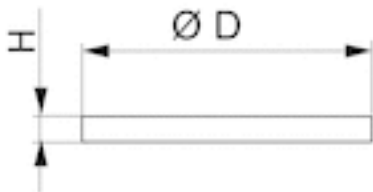
Technical data

Part No.	Type	Accessory type	Frame size	Delivery unit
5802880000	b	type K	ISO 1, ISO 2	3 piece

Technical information

Material	
Housing	Brass

Dimensions



Dimensions

Part No.	D	H
5802880000	17,2	2

Base plate, Ports 2 and 4 side or bottom

- standard ISO 5599-1
- Frame size ISO 2
- type G
- Compressed air connection output G 3/8
- Can be assembled into blocks



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Direction of pneumatic port (2,4)	Both directions possible
Direction of pneumatic port (14)	Down
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Weight	0,36 kg
An example configuration is illustrated. The delivered product may thus deviate from the illustration.	

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5802500000	G 3/8	G 3/8

Part No.	Compressed air connection Pilot connection [12]
5802500000	G 1/8

Scope of delivery incl. seal and mounting screws

Technical information

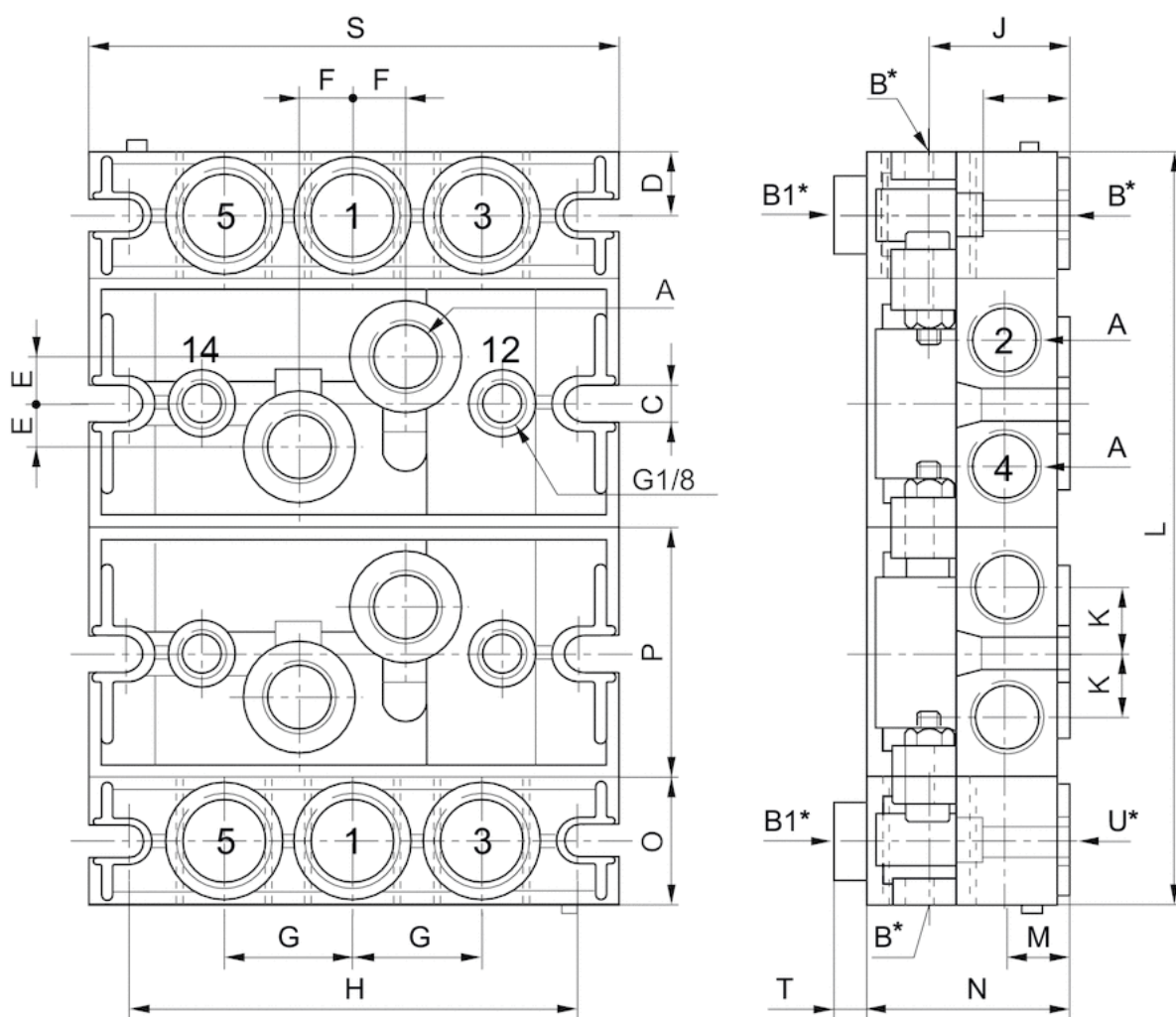
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.		A	B	B1	C	D	E	F	G	H	J	K	L
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	102	32	15	n x 56 + 58

M	N	O	P	R	S	T
15	45.7	29	56	20	120	7

n = number of subbases

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 2
- type G
- Can be assembled into blocks
- Base plate principle, multiple
- Reversed pressure supply permissible



Standards

Compressed air connection
Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium
Direction of pneumatic port (1)
Direction of pneumatic port (3,5)
Exhaust (3,5)
Exhaust type
Weight

ISO 5599-1

according to ISO 5599-1

-1 ... 16 bar

-20 ... 70 °C

-20 ... 70 °C

Compressed air

Both directions possible

Both directions possible

uncollected exhaust

Ports separated

0,46 kg

An example configuration is illustrated.
The delivered product may thus deviate from the illustration.

Technical data

Part No.	Compressed air connection	
	Input [1]	Exhaust [3 / 5]
5802510000	G 1/2	G 1/2

Delivered in pairs with all ports closed. Porting can be in end, top, or bottom (both ends). Porting is selected by drilling through dimensions B*, B1*, or U* on drawing below., Scope of delivery incl. seal and mounting screws

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.

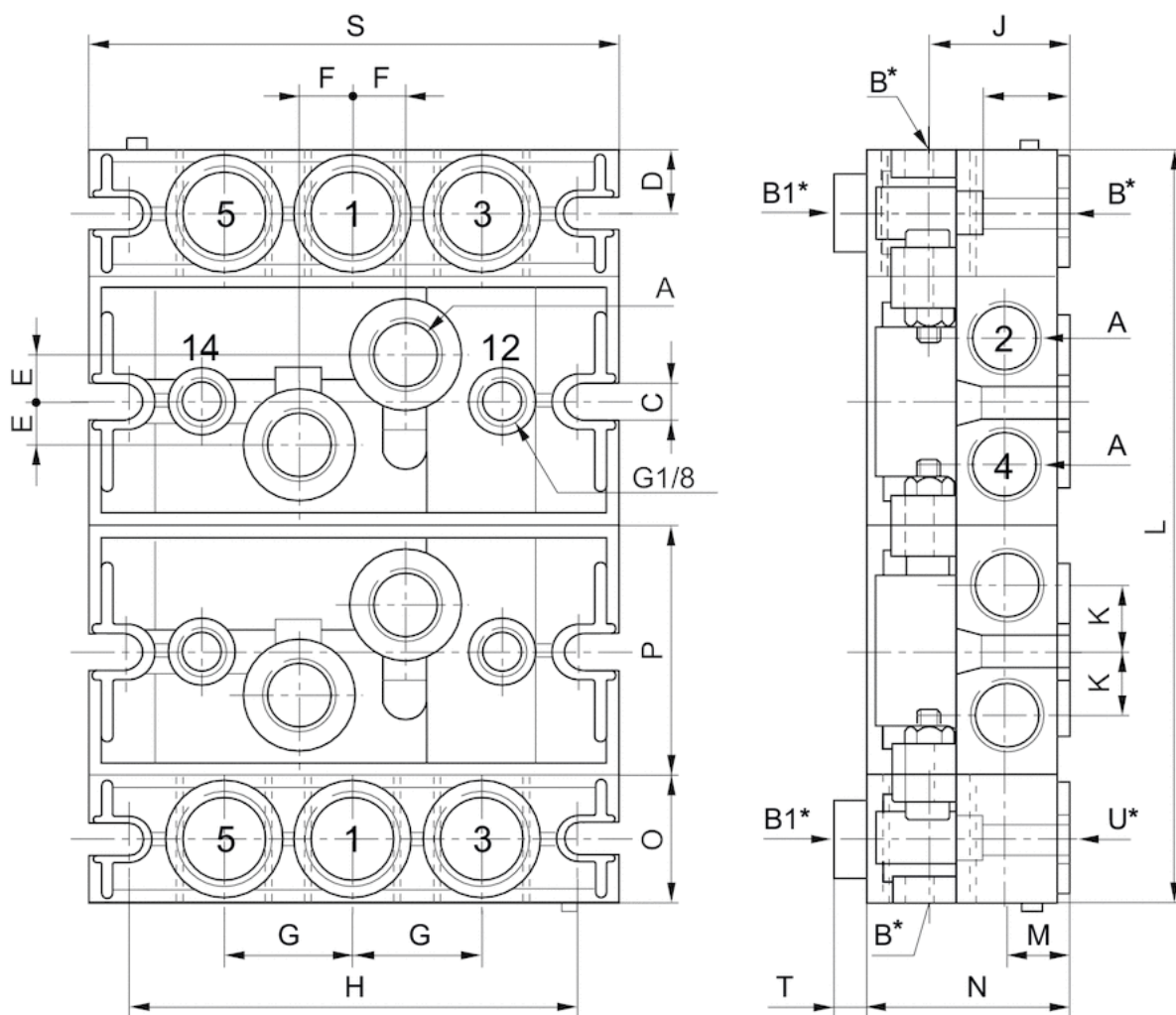
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.		A	B*	B1*	C	D	E	F	G	H	J	K	L
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	102	32	15	n x 56 + 58
M	N	O	P	R	S	T	U*						
15	43	29	56	20	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.

Transition plate

- standard ISO 5599-1
- Frame size ISO 1, ISO 2
- type G
- Can be assembled into blocks
- Reversed pressure supply permissible



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Weight	0,27 kg

Technical data

Part No.

5802520000

Scope of delivery incl. seal and mounting screws

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).

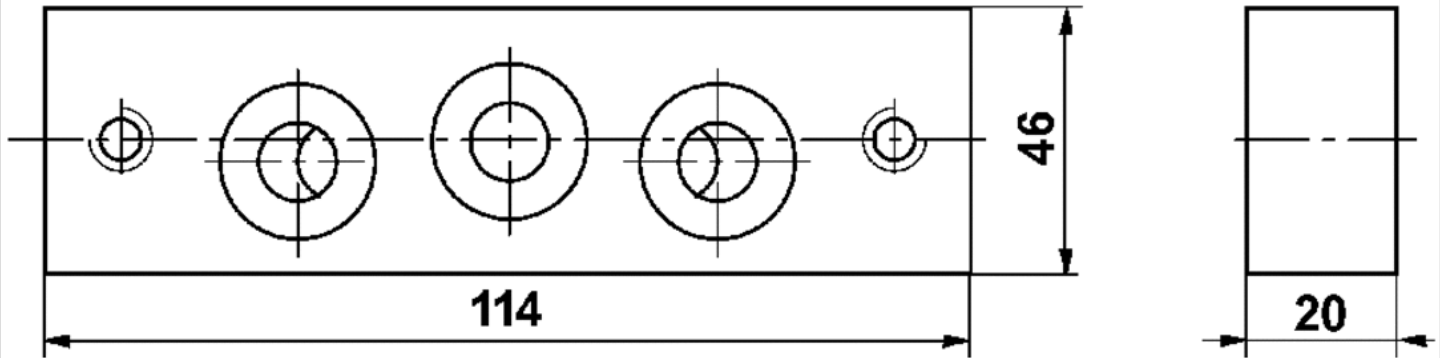
The transition plate is used for combining subbases of different sizes in the same manifold.

Technical information

Material	
Surface	painted
Base plate	Die-cast aluminum, black painted
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Blanking piece

- standard ISO 5599-1
- type G



Standards	ISO 5599-1
Ambient temperature min./max.	-20 ... 70 °C
Weight	0,025 kg

Technical data

Part No.	Accessory type
5802530000	type G

Technical information

Material	
Housing	Brass
Seal	Acrylonitrile butadiene rubber

Blanking plate

- standard ISO 5599-1
- Frame size ISO 2



Standards	ISO 5599-1
Working pressure min./max.	-1 ... 16 bar
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Number of valve positions max.	1
Weight	0,1 kg

Technical data

Part No.
5802870000

Scope of delivery incl. seal and mounting screws

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.

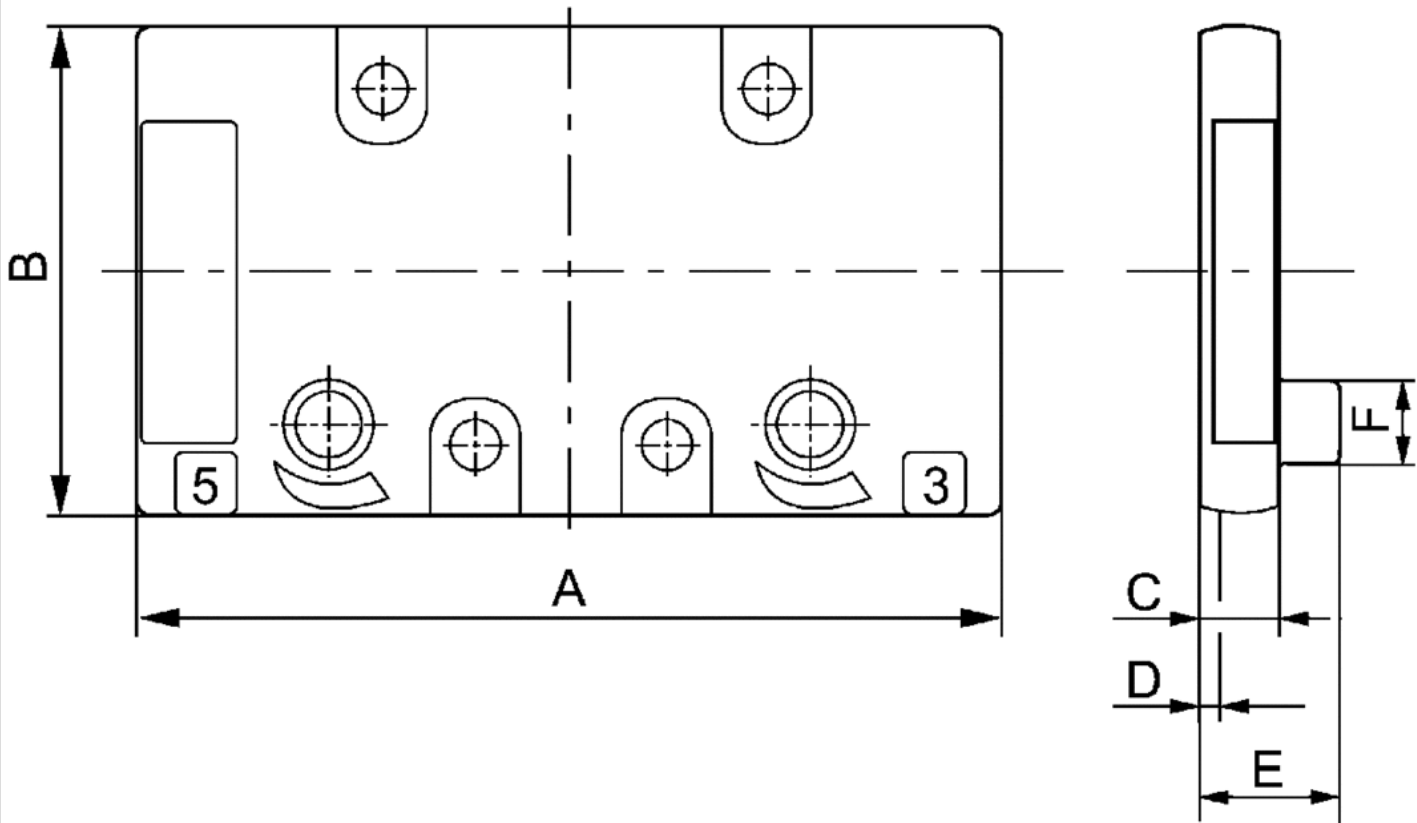
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Housing	Die-cast aluminum, black painted
Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	Weight
5802870000	86.4	49.4	9	2	–	–	0,1 kg

Blanking plate

- standard ISO 5599-1
- Frame size ISO 2



Standards	ISO 5599-1
Working pressure min./max.	-0,9 ... 16 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air
Mounting screw	with hexagon socket
Weight	See table below

Technical data

Part No.	Type	Frame size	Weight
1825503176	Blanking plate	ISO 2	0,229 kg
1821A15032	Gasket ISO 2	-	-

Scope of delivery incl. seal and mounting screws

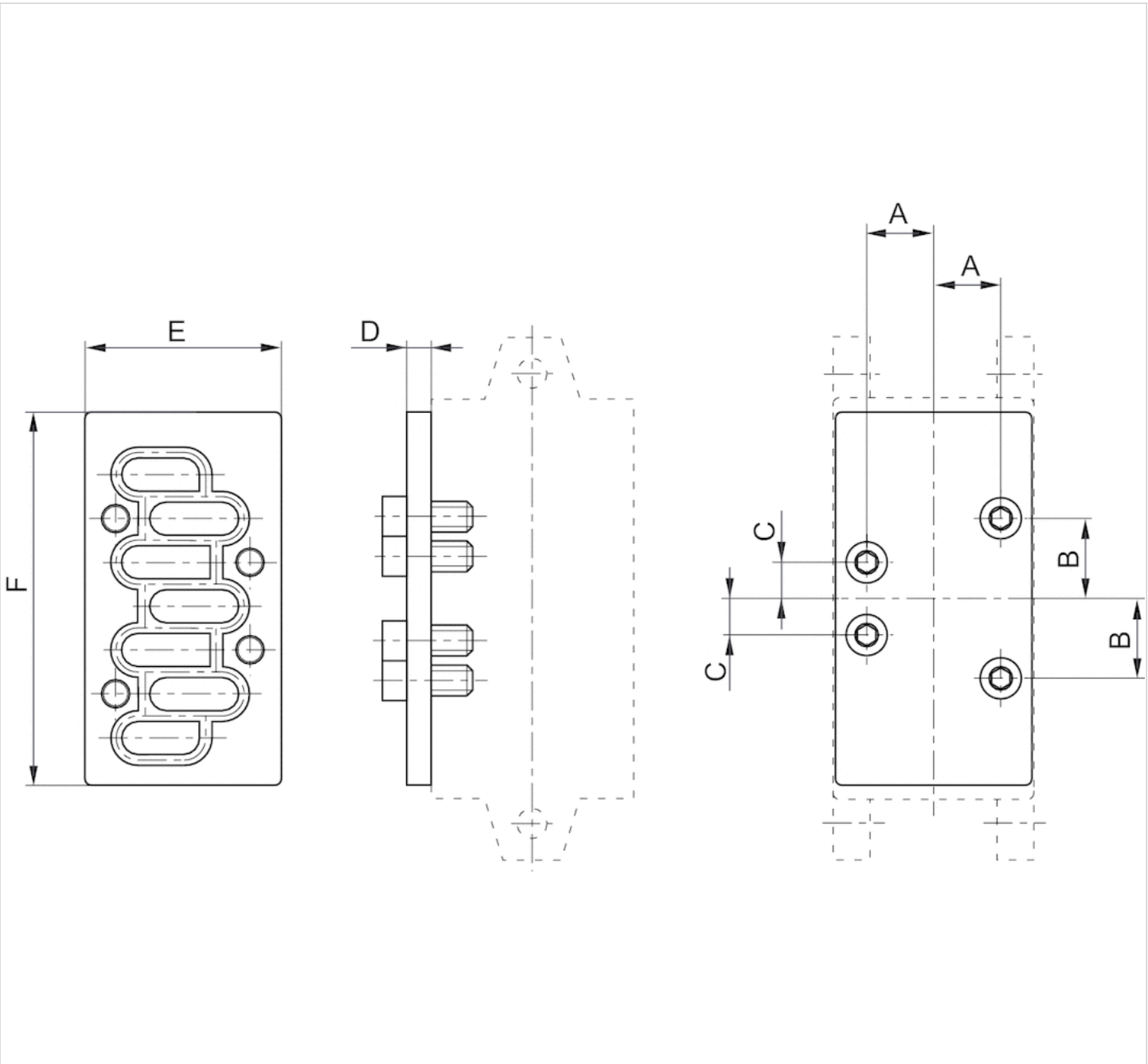
Technical information

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	Aluminum Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions

Part No.	Frame size	A	B	C	D	E	F
1825503176	ISO 2	19	24	12	15	54	100

Stop plate to exchange valve

- for 581
- size 2
- standard ISO 5599-1



standard	ISO 5599-1
Ambient temperature min./max.	-10 ... 50 °C
Max. particle size	50 µm
Oil content of compressed air	40 ... 400 mg/m³
Weight	0,329 kg

Technical data

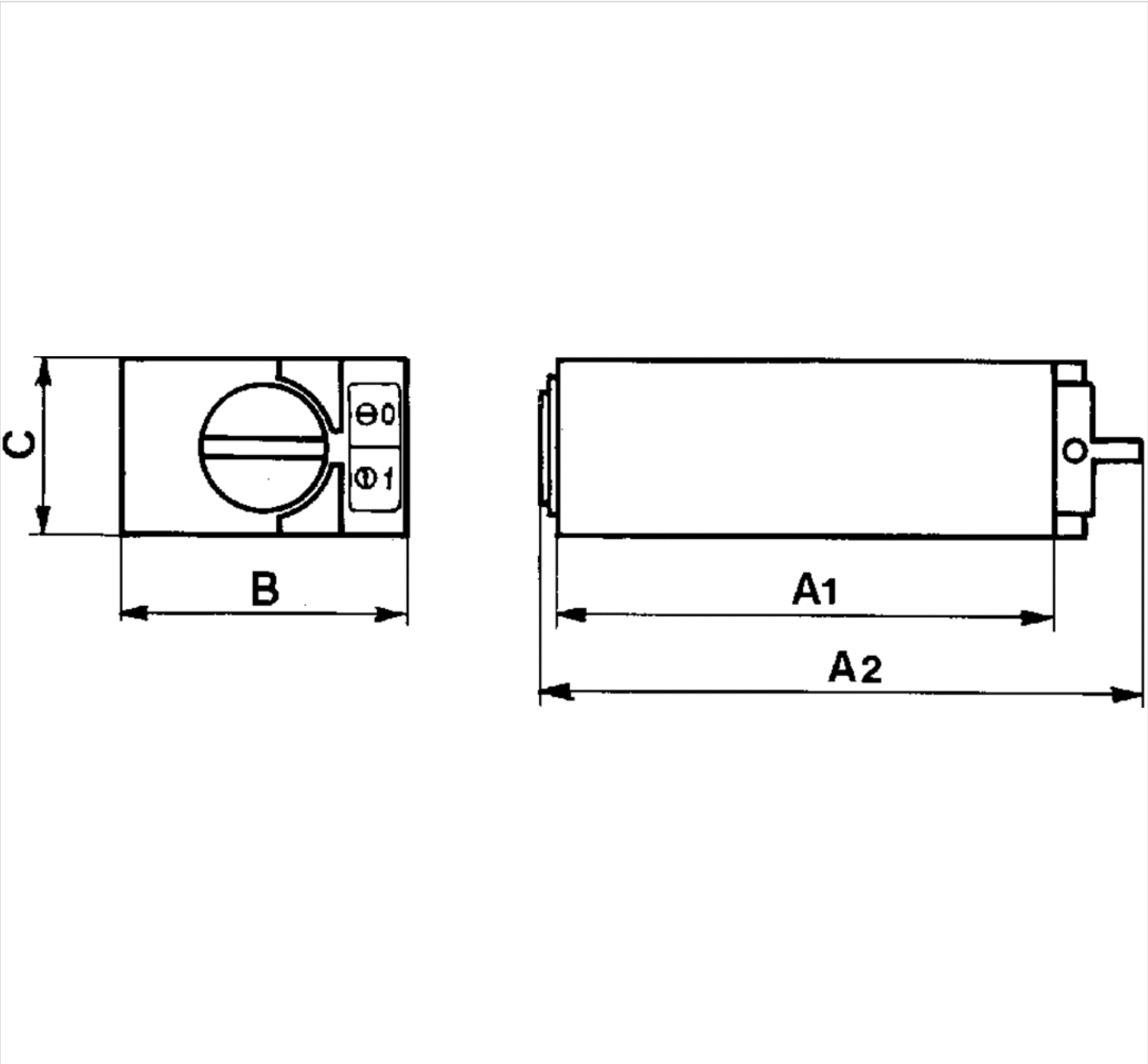
Part No.
5802590000

Technical information

Material	
Housing	Aluminum, black anodized

Dimensions

Dimensions



Dimensions

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

Pressure regulator

- $Q_n = 1050\text{--}1070\text{ l/min}$
- standard ISO 5599-1
- Frame size ISO 2
- Controlled port 1 2 2, 4



Working pressure min./max.	12 bar
Adjustment range min./max.	0,5 ... 8 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Tightening torque for mounting screws	5 Nm
Weight	See table below
The delivered product may vary from that in the illustration.	

Technical data

Part No.		Frame size	Flow	Controlled port	Weight
			Q_n		
R422103092		ISO 2	1050 l/min	1	1 kg
R422103093		ISO 2	1070 l/min	2	1,11 kg
R422103094		ISO 2	1070 l/min	2, 4	1,6 kg
R422103095		ISO 2	1050 l/min	1	1 kg

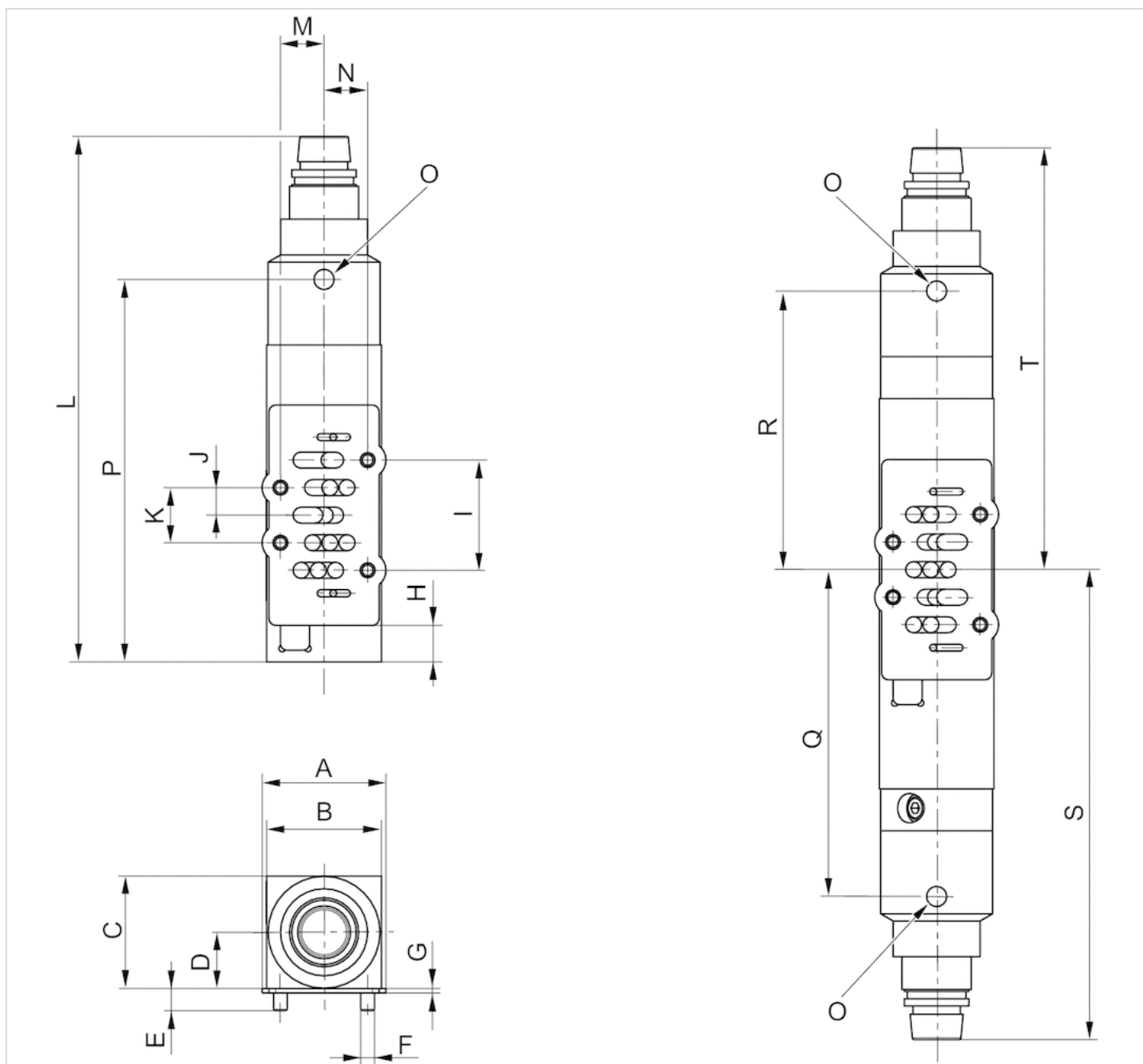
Scope of delivery incl. seal and mounting screws, Order pressure gauge separately, Nominal flow Q_n at 6 bar and $\Delta p = 1\text{ bar}$.

Technical information

Material	
Housing	Aluminum
Seals	Butadiene rubber

Dimensions

Dimensions



Dimensions

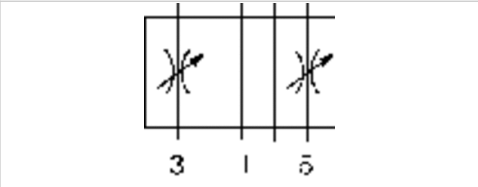
Part No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
R422103092	54	50	48.90	24.45	9.70	M6	2	15.90	48	12	24	228.90	19	19	G 1/8	166.58	—	—
R422103093	54	50	48.90	24.45	9.70	M6	2	15.90	48	12	24	247.20	19	19	G 1/8	183.84	—	—
R422103094	54	50	48.90	24.45	9.70	M6	2	—	48	12	24	—	19	19	G 1/8	—	142.34	121.34
R422103095	54	50	48.90	24.45	9.70	M6	2	—	48	12	24	—	19	19	G 1/8	—	—	—

S	T
—	—
—	—

S	T
204.66	183.66
-	-

Throttle plate

- standard ISO 5599-1
- Frame size ISO 2



Standards	ISO 5599-1
Working pressure min./max.	0 ... 16 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air
Weight	0,444 kg

Technical data

Part No.
0821201024

Scope of delivery incl. seal and mounting screws

Technical information

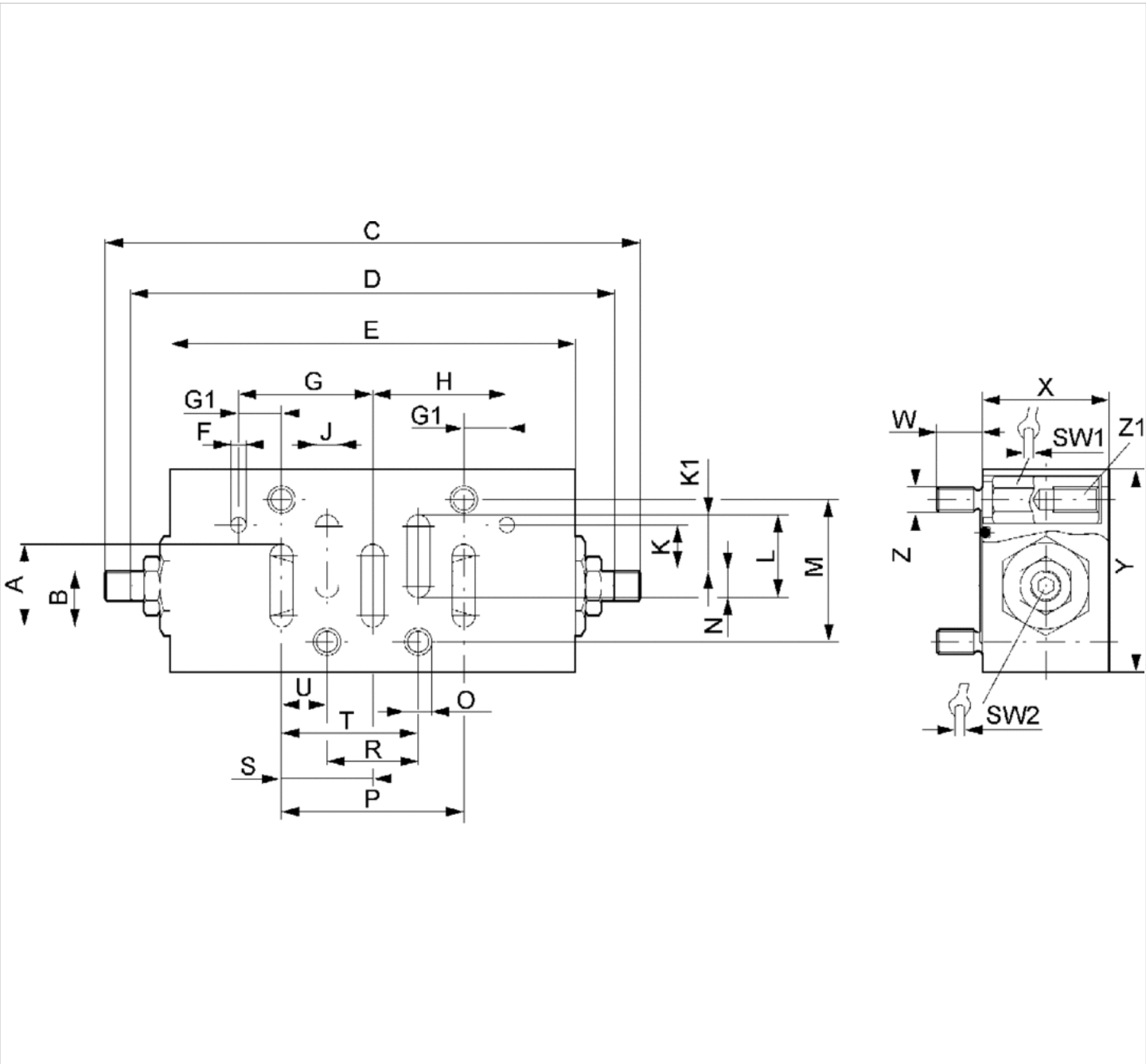
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



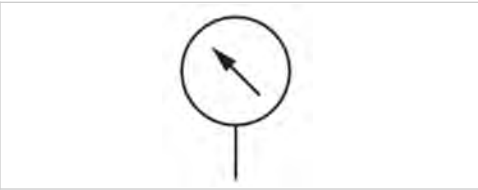
Dimensions

Part No.	A	B	C	D	E	F	G	G1	H	J	K	K1	L	M	N	O	P	R	S	SW1	SW2	T	U
0821201024	22	13,5	128.6	118.6	102	3	34	10	34	7	10	13.5	22	38	8.5	6.2	48	24	24	9	3	36	12

W	X	Y	Z	Weight	Z1
9	25	55	M6	0,444 kg	M6-10

Pressure gauge, Series PG1-SAS

- Back port
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



Type	Bourdon tube pressure gauge
Standardization	EN 837-1
Class	2,5
Ambient temperature min./max.	-40 ... 60 °C
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Grey
Background color	Black
Pointer color	White
Weight	0,08 kg

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412003857	G 1/8	40 mm	0 bar ... 8	0 bar ... 10	0 ... 10 bar	0,2

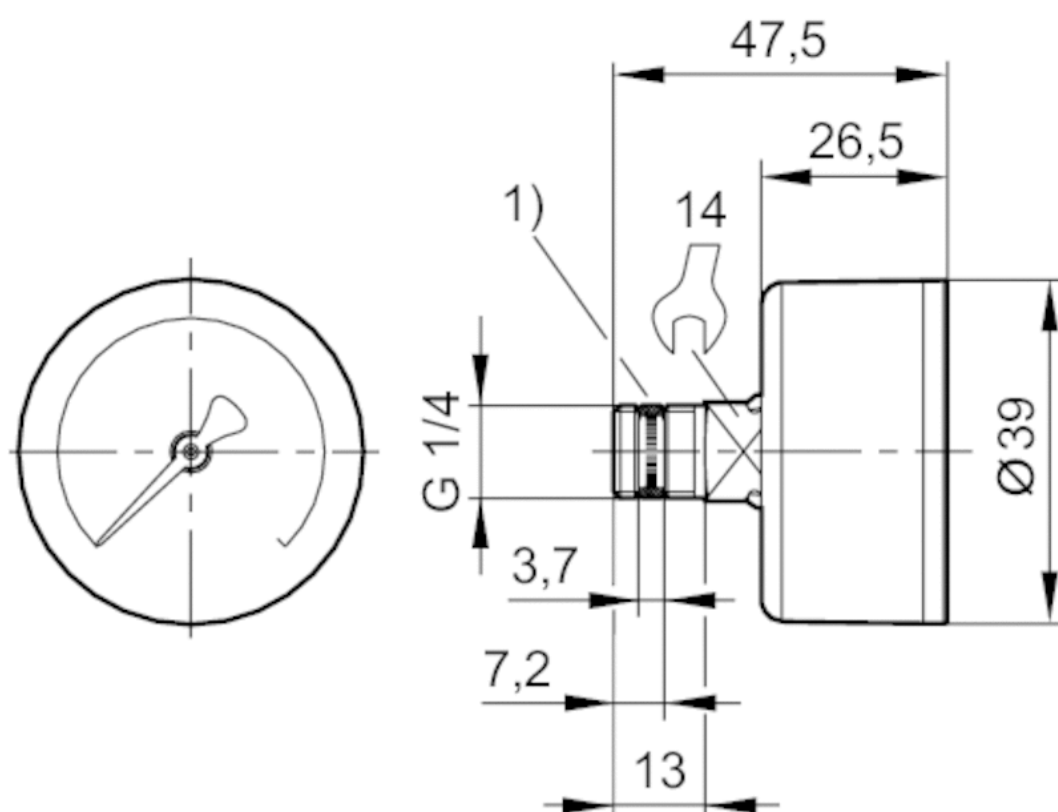
Part No.	Fig.
R412003857	Fig. 4

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

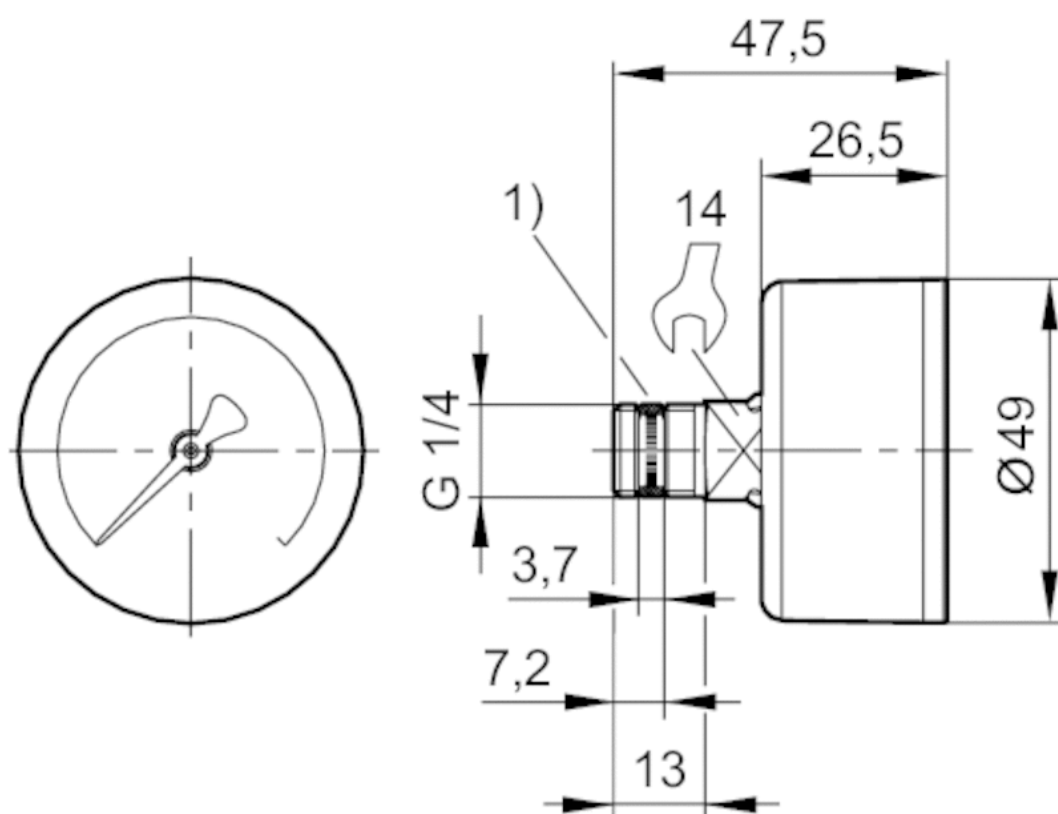
Dimensions

Dimensions in mm, Fig. 1



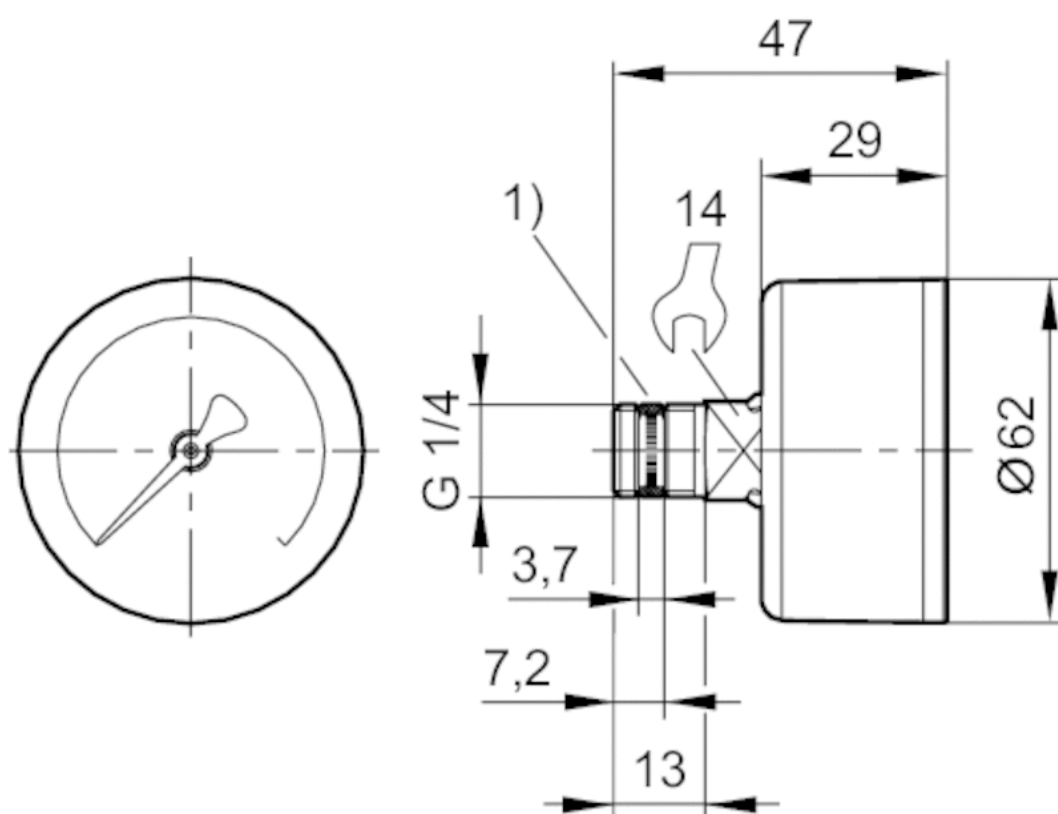
1) Gasket thread

Dimensions in mm, Fig. 2



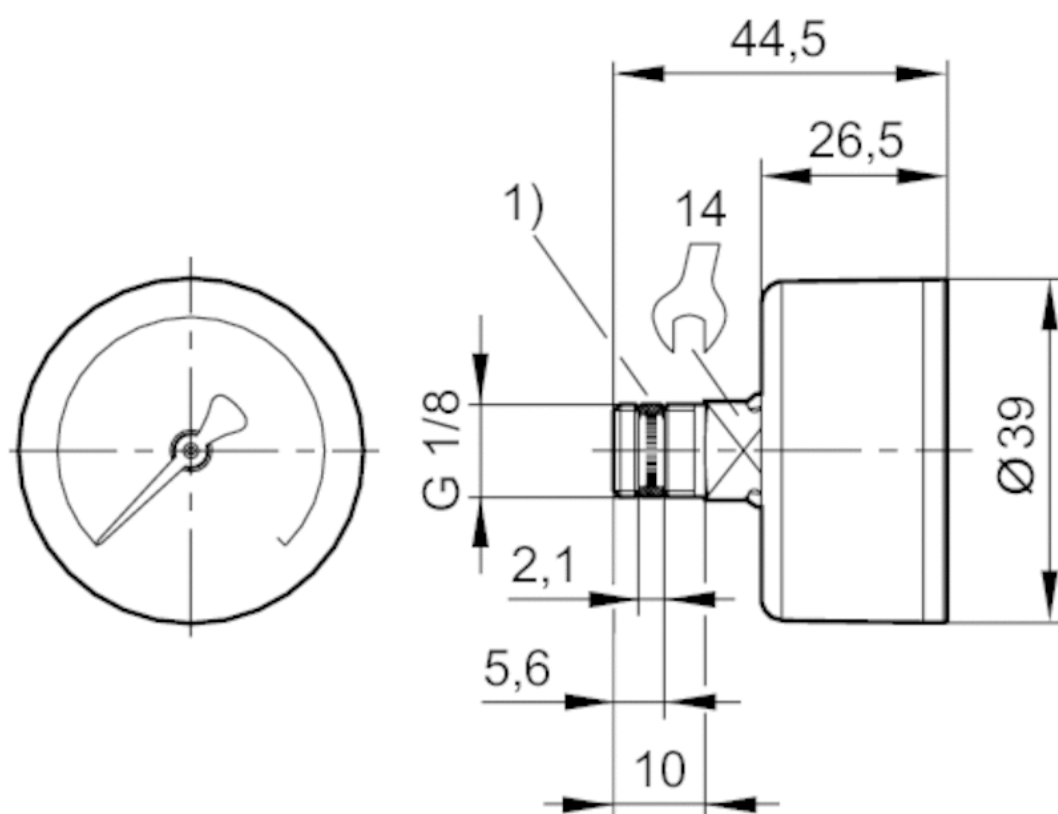
1) Gasket thread

Dimensions in mm, Fig. 3



1) Gasket thread

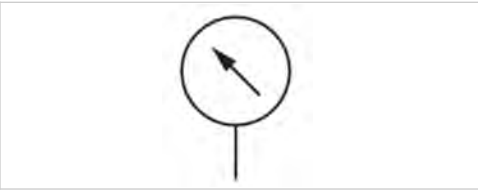
Dimensions in mm, Fig. 4



1) Gasket thread

Pressure gauge, Series PG1-ROU

- Port on bottom
- Background color Black
- Scale color White, Red
- Viewing window Polystyrene
- Units bar
- Units psi



Type	Bourdon tube pressure gauge
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 60 °C
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	White
Secondary scale unit (inside)	psi
Secondary scale color (inside)	Red
Background color	Black
Pointer color	White

Technical data

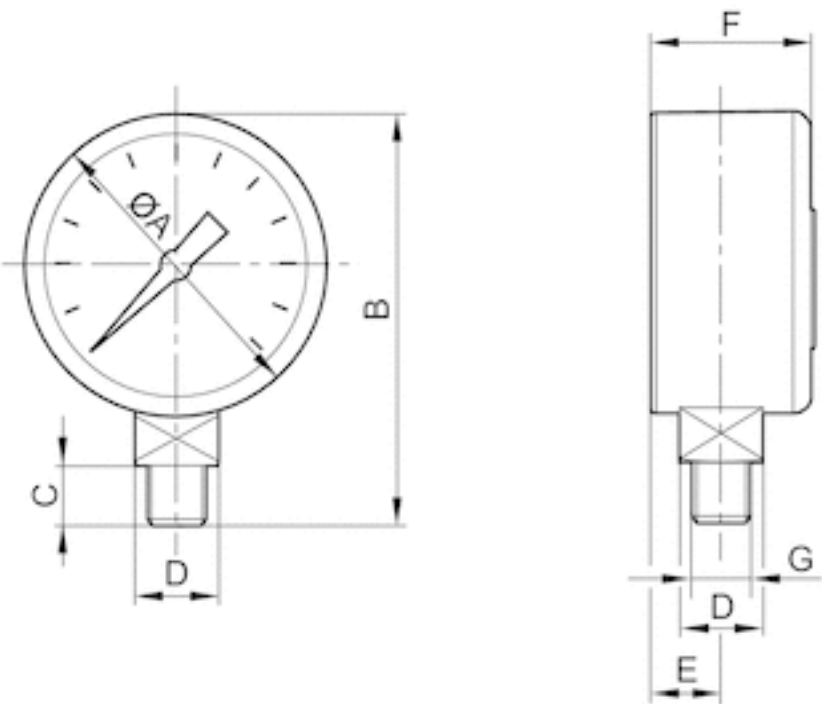
Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
8901703200	R 1/8	50 mm	0 ... 10	0 bar ... 12	0 ... 12 bar	0,2

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene

Dimensions

Dimensions



Dimensions in mm

Compressed air connection	Nominal diameter	Ø A	B	C	D	F	E
R 1/8	50 mm	50	66.5	10	SW14	27,5	10

throttle insert for flow control in 3/5

- for 581

- size 2



Weight

0,025 kg

Technical data

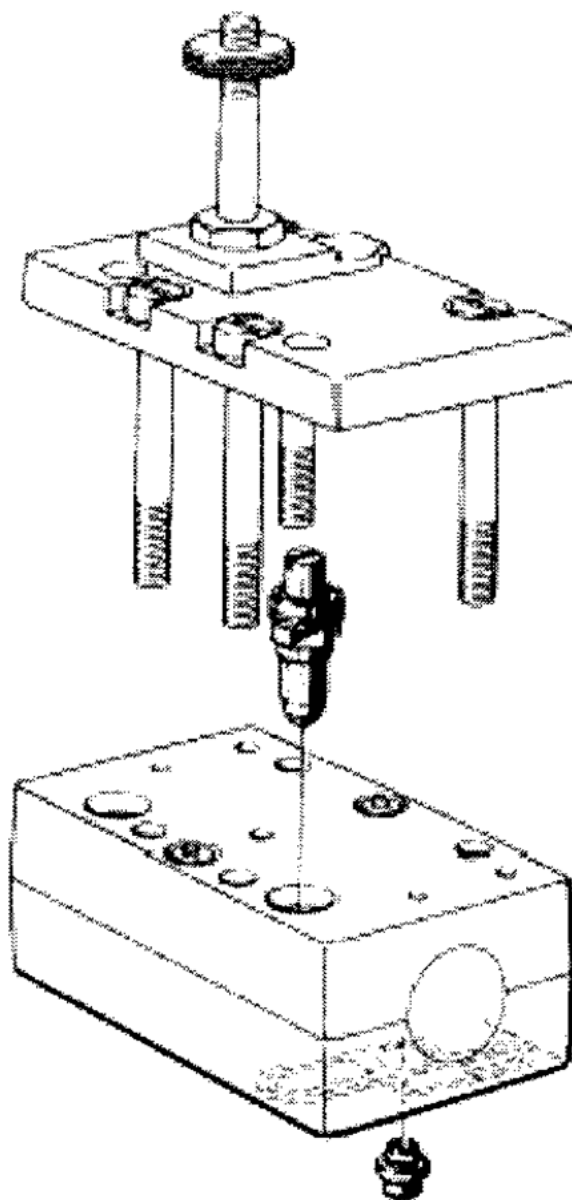
Part No.

5812001000

delivered in pairs incl. plug set

Dimensions

Dimensions



Pilot valve

- 581, Modular system
- Manual override without detent



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Protection class with connection	See table below
LED status display	Green
Duty cycle	100 %
Weight	See table below

Technical data

Part No.	Operational voltage DC	Power consumption DC	Cable length	Protection class
0493833308	24 V	2,2 W	0,2 m	IP67
0493832506	24 V	2,2 W	0,35 m	IP67
0493833103	24 V	2,2 W	0,5 m	IP67
0493838601	24 V	2,2 W	5 m	IP67
0493833502	24 V	2 W	-	IP65

Part No.	Power consumption	Weight	Fig.	
0493833308	-	0,05 kg	Fig. 1	-
0493832506	-	0,056 kg	Fig. 1	-
0493833103	-	0,058 kg	Fig. 1	-
0493838601	-	0,1 kg	Fig. 1	-
0493833502	Low power consumption	0,04 kg	Fig. 2	1)

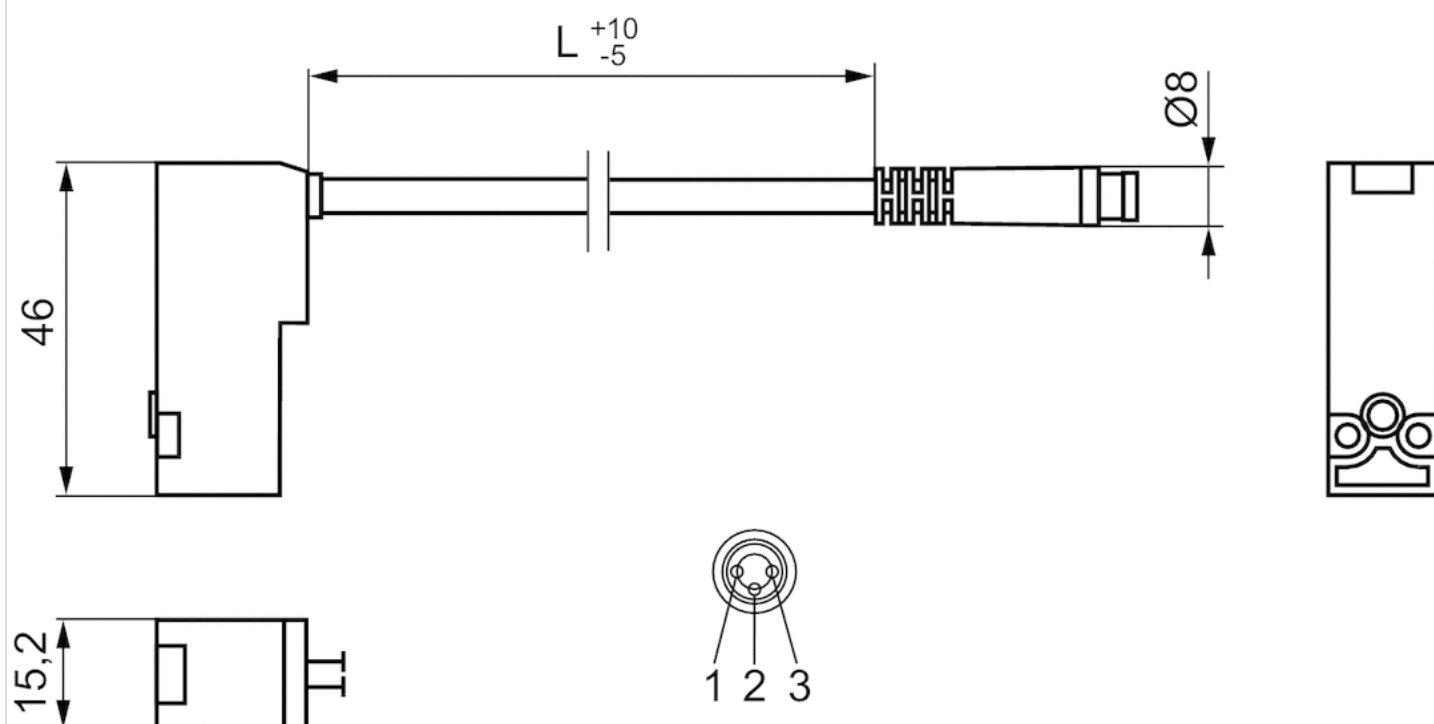
1) For valve plug connectors

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).

Dimensions

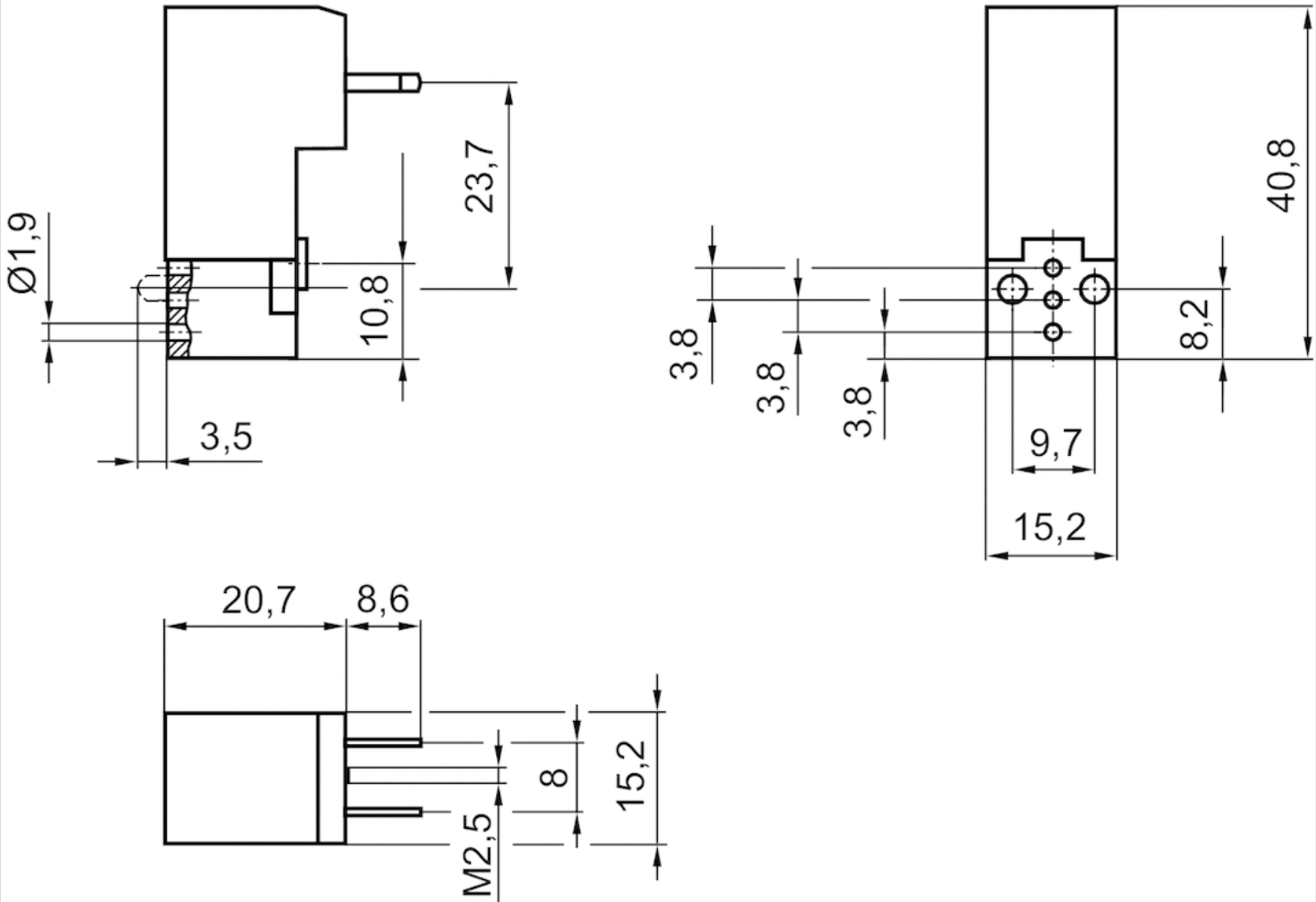
Fig. 1



Pin assignment

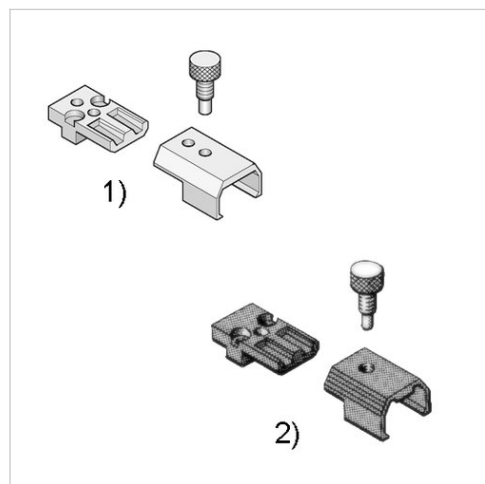
- 1) +24 V
- 2) ground
- 3) 0 V

Fig. 2



Control unit for manual override

- for 581



Weight

0,03 kg

An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

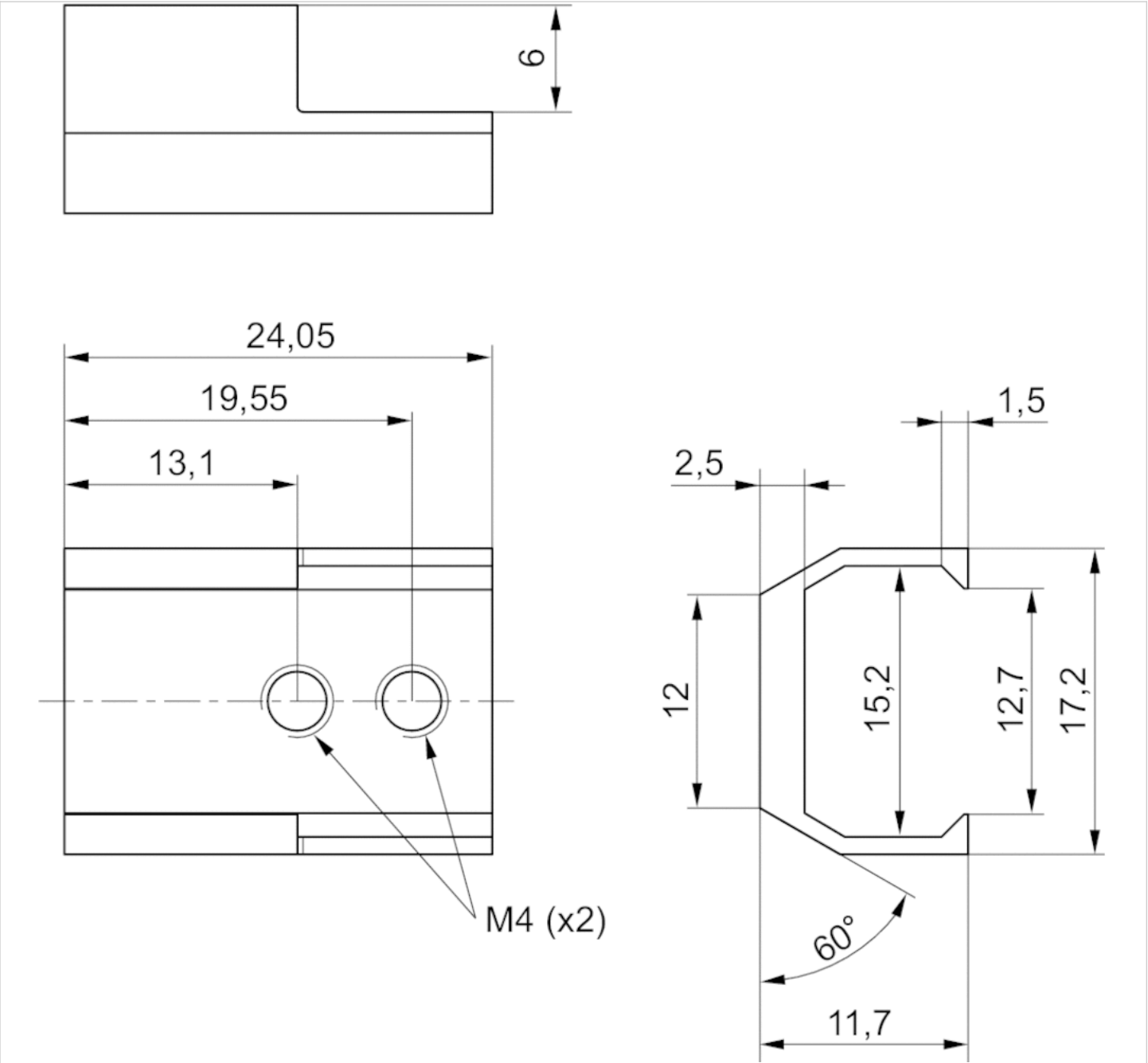
Part No.

0493835718

Version as of August 1, 2014, compatible with old applications, Version before August 1, 2014, 6 controls per set

Dimensions

Dimensions

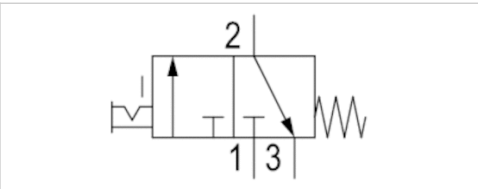


Pilot valve

- 581, Modular system
- Manual override with detent



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Protection class with connection	IP65
Duty cycle	100 %
Weight	See table below



Technical data

Part No.	Operational voltage DC	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz
0493818805	24 V	230 V	110 V
0493818902	24 V	-	-

Part No.	Power consumption DC	Power consumption	Weight
0493818805	5 W	-	0,031 kg
0493818902	2 W	Low power consumption	0,03 kg

Technical information

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

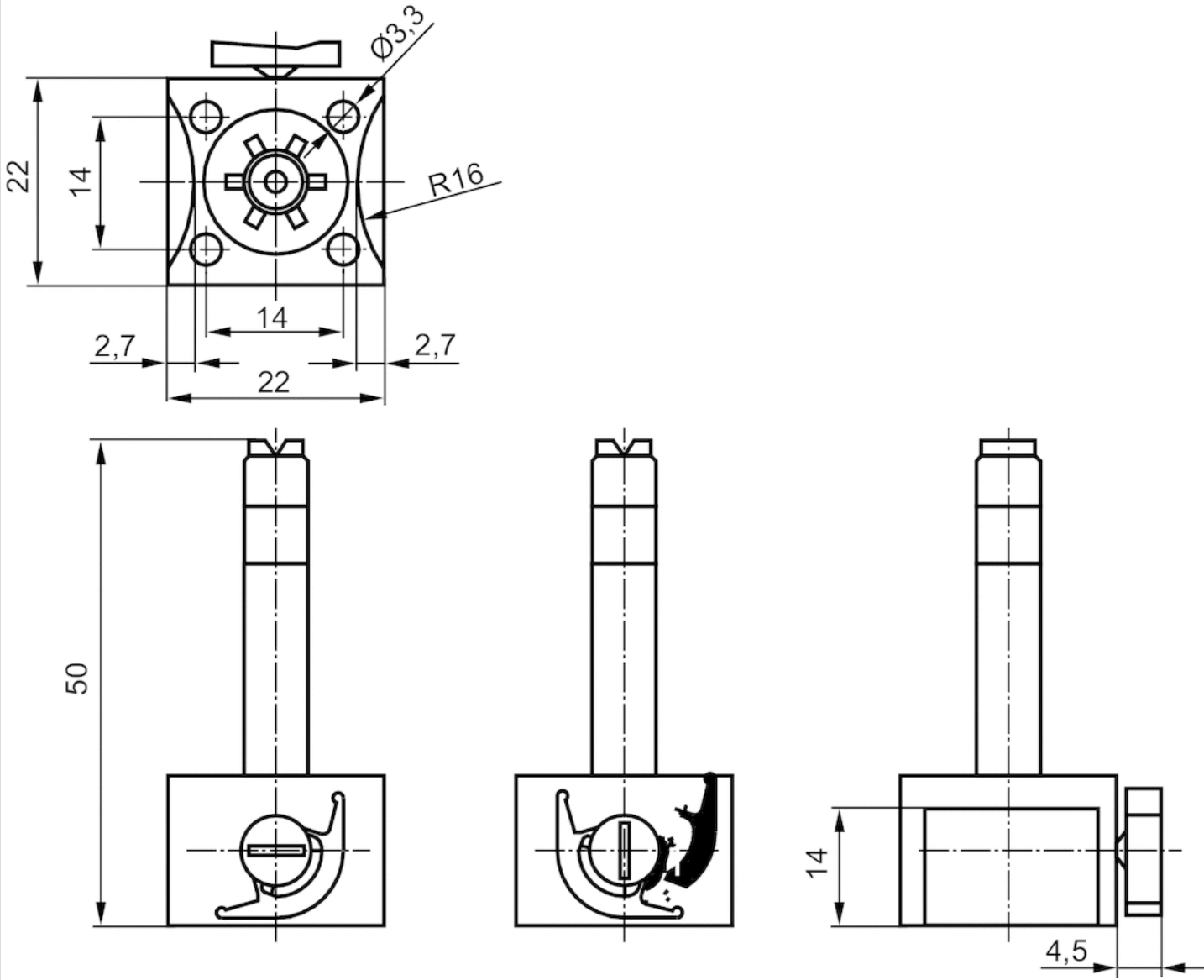
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

Dimensions

Dimensions



Coil, Series CO1

- Form B, industry
- Coil width 22 mm
- Power consumption DC 2-5 W
- Holding power AC 8 VA
- Switch-on power AC 10 VA



Connector standard
electrical connections
Ambient temperature min./max.
Protection class With valve plug
connector/plug
Duty cycle ED
Weight

ISO 6952
Plug, Form B, industry
50 °C
IP65

100 %
See table below
An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	DC	AC 50 Hz	DC
0498317405	12 V	-	-
0498317502	24 V	-	-10% / +10%
0498318800	24 V	-	-10% / +10%
0498317618	48 V	-	-
0498317707	110 V	-	-10% / +10%
0498317804	220 V	-	-10% / +10%
0498316905	-	24 V	-
0498317006	-	48 V	-
0498317103	-	110 V	-
0498322506	-	230 V	-

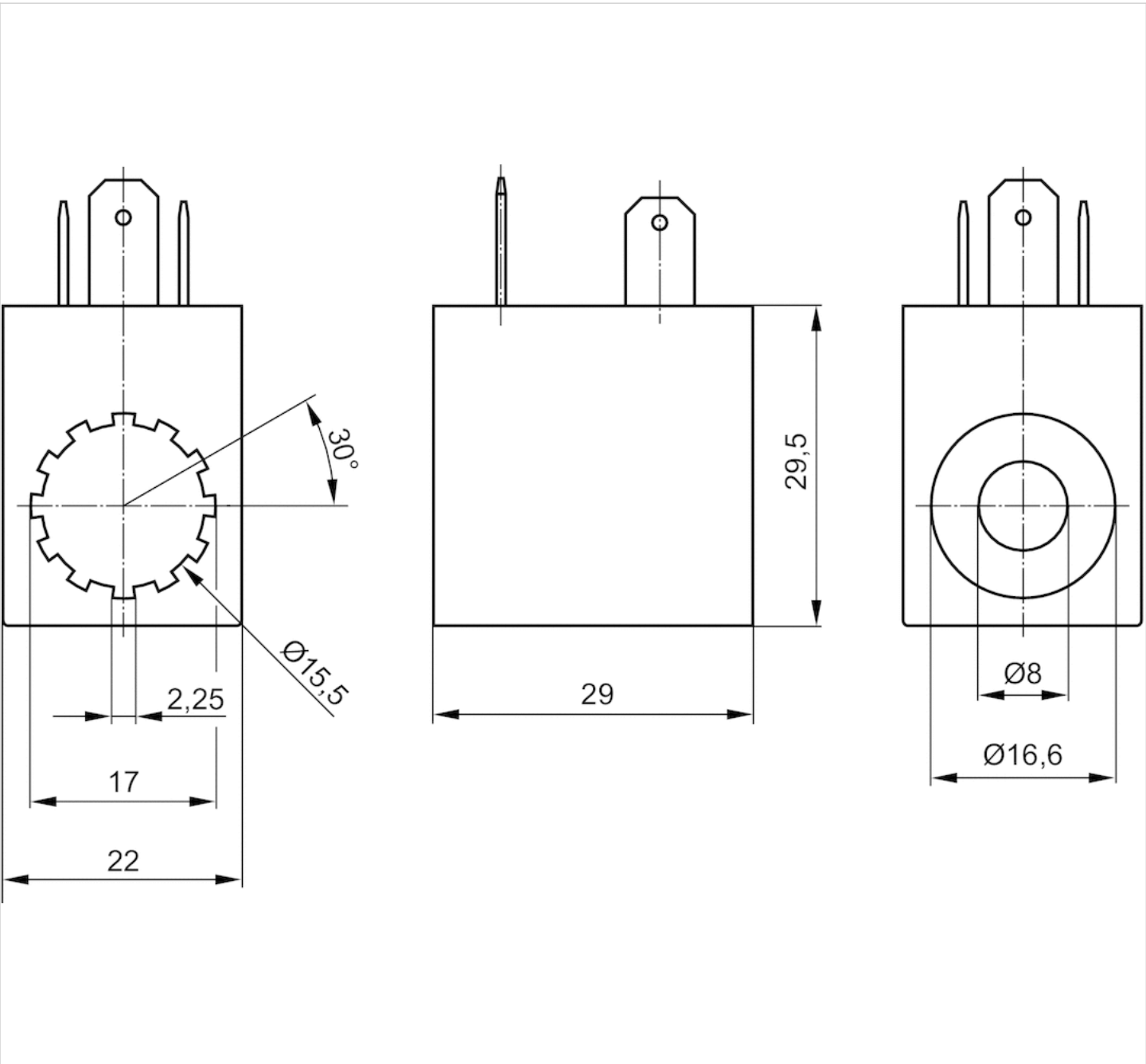
Part No.	Voltage tolerance	Power consumption	Holding power	Switch-on power
	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
0498317405	-	5 W	-	-
0498317502	-	5 W	-	-
0498318800	-	2 W	-	-
0498317618	-	5 W	-	-
0498317707	-	5 W	-	-
0498317804	-	5 W	-	-
0498316905	-10% / +10%	-	8 VA	10 VA
0498317006	-10% / +10%	-	8 VA	10 VA
0498317103	-10% / +10%	-	8 VA	10 VA
0498322506	-10% / +10%	-	8 VA	10 VA

Part No.	Weight	
0498317405	0,054 kg	-
0498317502	0,051 kg	-
0498318800	0,051 kg	1)
0498317618	0,054 kg	-
0498317707	0,054 kg	-
0498317804	0,054 kg	-
0498316905	0,054 kg	-
0498317006	0,054 kg	-
0498317103	0,051 kg	-
0498322506	0,054 kg	-

1) Low power consumption

Dimensions

Dimensions



Pilot valve

- CNOMO / NFE 49-003-1

- 581, Modular system



Standards

Working pressure min./max.

Ambient temperature min./max.

Medium

Protection class with connection

Duty cycle

Weight

CNOMO / NFE 49-003-1

See table below

-10 ... 50 °C

Compressed air

IP65

100 %

See table below

An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5428110080			-	230 V
5420890020			24 V	-
5420850020			24 V	-
5428150080			-	230 V
5420890030			48 V	-
5420890070			110 V	-
5420890080			220 V	-
5428110020			-	24 V
5428110040			-	48 V
5428110070			-	110 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5428110080	-	-20% / +10%	-	8 VA
5420890020	-10% / +10%	-	2 W	-
5420850020	-10% / +10%	-	6,7 W	-
5428150080	-	-20% / +10%	-	8 VA
5420890030	-10% / +10%	-	2 W	-
5420890070	-10% / +10%	-	2 W	-
5420890080	-10% / +10%	-	2 W	-
5428110020	-	-20% / +10%	-	8 VA
5428110040	-	-20% / +10%	-	8 VA
5428110070	-	-20% / +10%	-	8 VA

Part No.	Switch-on power AC 50 Hz	Working pressure min./max.	Power consumption
5428110080	10 VA	0 ... 10 bar	-

Part No.	Switch-on power AC 50 Hz	Working pressure min./max.	Power consumption
5420890020	-	0 ... 10 bar	Low power consumption
5420850020	-	0 ... 16 bar	-
5428150080	10 VA	0 ... 16 bar	-
5420890030	-	0 ... 10 bar	Low power consumption
5420890070	-	0 ... 10 bar	Low power consumption
5420890080	-	0 ... 10 bar	Low power consumption
5428110020	10 VA	0 ... 10 bar	-
5428110040	10 VA	0 ... 10 bar	-
5428110070	10 VA	0 ... 10 bar	-

Part No.	Weight
5428110080	0,17 kg
5420890020	0,17 kg
5420850020	0,206 kg
5428150080	0,162 kg
5420890030	0,17 kg
5420890070	0,17 kg
5420890080	0,17 kg
5428110020	0,17 kg
5428110040	0,17 kg
5428110070	0,17 kg

MO = Manual override, pilot valve 30x22 mm with CNOMO porting configuration

Technical information

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

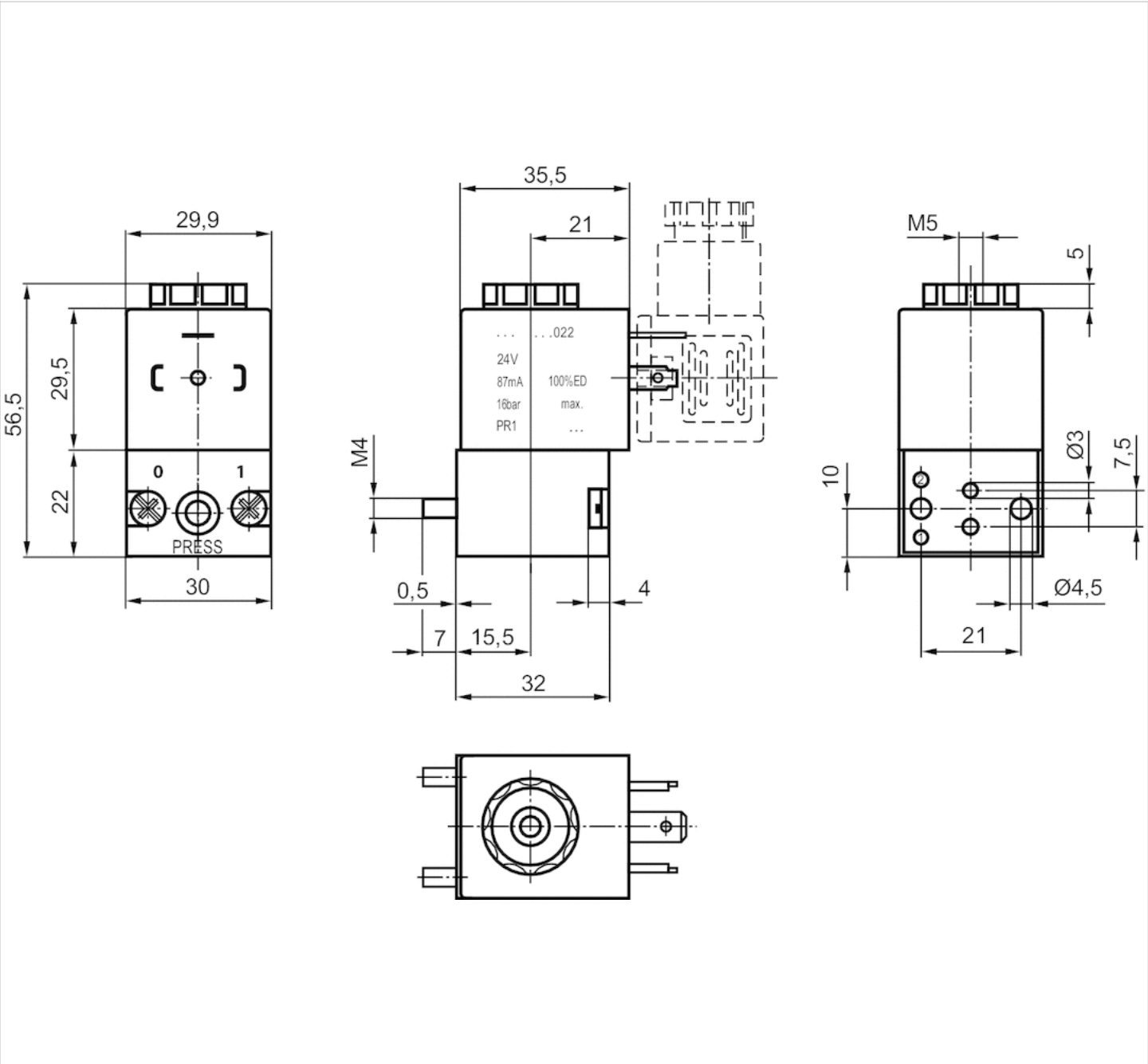
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

Dimensions

Dimensions



3/2-directional valve, Series DO30

- 3/2
- Pilot valve width : 30 mm
- Plate valve with pipe connection
- Compressed air connection output : CNOMO
- Electrical connection : Plug, EN 175301-803, form A
- Manual override : without detent with detent
- With spring return



Type	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Standards	CNOMO / NFE 49-003-1
Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class with connection	IP65
Compatibility index	See table below
Duty cycle	100 %
Mounting on manifold strip	P-strip
mounting screws	M4
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
0820019527			CNOMO	CNOMO
0820019526			CNOMO	CNOMO
0820019529			CNOMO	CNOMO
0820019528			CNOMO	CNOMO
0820019525			CNOMO	CNOMO
0820019985			CNOMO	CNOMO
0820019986			CNOMO	CNOMO
0820019987			M5	CNOMO
0820019982			M5	CNOMO
0820019502			CNOMO	CNOMO
0820019501			CNOMO	CNOMO
0820019504			CNOMO	CNOMO
0820019503			CNOMO	CNOMO
0820019500			CNOMO	CNOMO
0820019980			CNOMO	CNOMO
0820019981			CNOMO	CNOMO

Part No.	Compressed air connection	Operational voltage	Operational voltage
	Exhaust	DC	AC 50 Hz
0820019527	M5	-	24 V
0820019526	M5	24 V	-
0820019529	M5	24 V	-
0820019528	M5	-	-
0820019525	M5	-	230 V
0820019985	M5	-	-
0820019986	M5	-	-
0820019987	CNOMO	-	-
0820019982	CNOMO	-	-
0820019502	M5	-	24 V
0820019501	M5	24 V	-
0820019504	M5	24 V	-
0820019503	M5	-	-
0820019500	M5	-	230 V
0820019980	M5	-	-
0820019981	M5	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance
	AC 60 Hz	AC 50 Hz	AC 60 Hz
0820019527	-	-10% / +10%	-
0820019526	-	-	-
0820019529	-	-	-
0820019528	110 V	-	-10% / +10%
0820019525	-	-10% / +10%	-
0820019985	-	-	-
0820019986	-	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance
		AC 50 Hz	AC 60 Hz
0820019987	-	-	-
0820019982	-	-	-
0820019502	-	-10% / +10%	-
0820019501	-	-	-
0820019504	-	-	-
0820019503	110 V	-	-10% / +10%
0820019500	-	-10% / +10%	-
0820019980	-	-	-
0820019981	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820019527	-	8 VA	-	11,5 VA
0820019526	4,5 W	-	-	-
0820019529	2,7 W	-	-	-
0820019528	-	-	5,6 VA	-
0820019525	-	9,1 VA	-	12,6 VA
0820019985	-	-	-	-
0820019986	-	-	-	-
0820019987	-	-	-	-
0820019982	-	-	-	-
0820019502	-	8 VA	-	11,5 VA
0820019501	4,5 W	-	-	-
0820019504	2,7 W	-	-	-
0820019503	-	-	5,6 VA	-
0820019500	-	9,1 VA	-	12,6 VA
0820019980	-	-	-	-
0820019981	-	-	-	-

Part No.	Switch-on power	Nominal flow 1 ► 2	Nominal flow 2 ► 3	Compatibility index
	AC 60 Hz			
0820019527	-	68 l/min	90 l/min	15
0820019526	-	68 l/min	90 l/min	15
0820019529	-	54 l/min	80 l/min	14
0820019528	9,5 VA	68 l/min	90 l/min	15
0820019525	-	68 l/min	90 l/min	15
0820019985	-	68 l/min	90 l/min	15
0820019986	-	54 l/min	80 l/min	14
0820019987	-	72 l/min	105 l/min	15
0820019982	-	72 l/min	105 l/min	15
0820019502	-	65 l/min	80 l/min	15
0820019501	-	65 l/min	80 l/min	15
0820019504	-	54 l/min	80 l/min	14
0820019503	9,5 VA	65 l/min	80 l/min	15
0820019500	-	65 l/min	80 l/min	15
0820019980	-	65 l/min	80 l/min	15
0820019981	-	54 l/min	80 l/min	14

Part No.	basic valve with electrical connector	Power consumption	ATEX
0820019527	-	Higher voltage tolerance	-
0820019526	-	Higher voltage tolerance	-
0820019529	-	Low power consumption	-
0820019528	-	Higher voltage tolerance	-
0820019525	-	Higher voltage tolerance	-
0820019985	Basic valve without coil	Higher voltage tolerance	suitable for ATEX
0820019986	Basic valve without coil	Low power consumption	suitable for ATEX
0820019987	Basic valve without coil	Higher voltage tolerance	suitable for ATEX
0820019982	Basic valve without coil	Higher voltage tolerance	suitable for ATEX
0820019502	-	Higher voltage tolerance	-
0820019501	-	Higher voltage tolerance	-
0820019504	-	Low power consumption	-
0820019503	-	Higher voltage tolerance	-
0820019500	-	Higher voltage tolerance	-
0820019980	Basic valve without coil	Higher voltage tolerance	suitable for ATEX
0820019981	Basic valve without coil	Low power consumption	suitable for ATEX

Part No.	Weight	
0820019527	0,16 kg	-
0820019526	0,16 kg	-
0820019529	0,16 kg	-
0820019528	0,16 kg	-
0820019525	0,16 kg	-
0820019985	0,06 kg	1)
0820019986	0,07 kg	-
0820019987	0,08 kg	-
0820019982	0,06 kg	-
0820019502	0,16 kg	-
0820019501	0,16 kg	-
0820019504	0,16 kg	-
0820019503	0,16 kg	-
0820019500	0,16 kg	-
0820019980	0,06 kg	1)
0820019981	0,06 kg	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

1) pilot valve without coil

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.

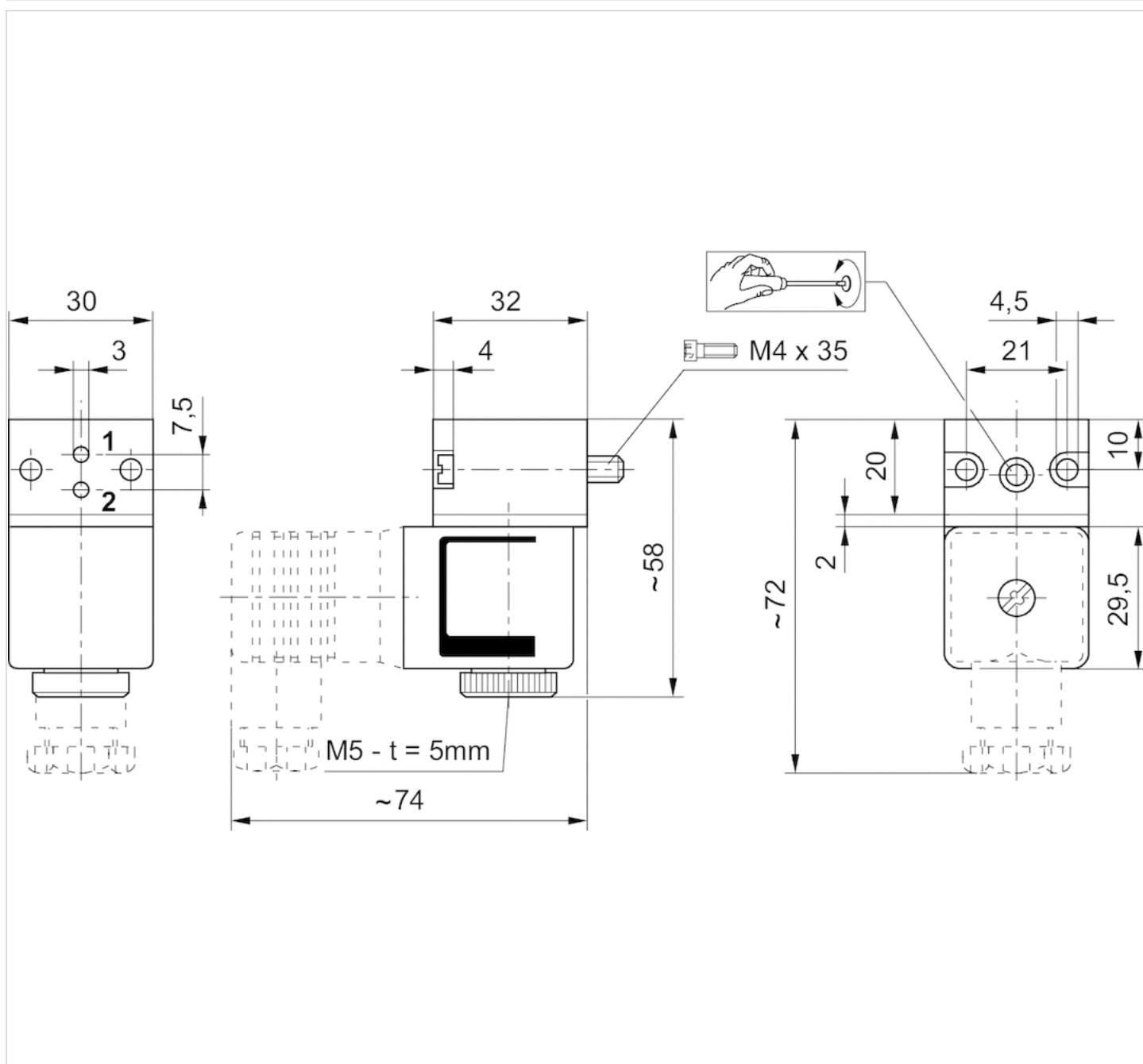
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	Plastic
Seals	Fluorocaoutchouc

Dimensions

Dimensions



t = depth

3/2-directional valve

- Manual override : without detent



Activation

Working pressure min./max.

Ambient temperature min./max.

Medium

Weight

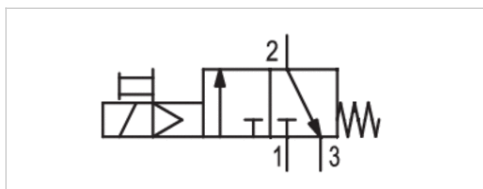
Electrically

0 ... 16 bar

-10 ... 50 °C

Compressed air Compressed air

0,15 kg



Technical data

Part No.	Operational voltage	Operational voltage	Voltage tolerance
	DC	AC 50 Hz	DC
5420800390	24 V	42 V	-10% / +10%
5428200380	-	230 V	-
5428200370	-	110 V	-

Part No.	Voltage tolerance	Power consumption	Holding power	Switch-on power
	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
5420800390	-20% / +10%	6,7 W	-	-
5428200380	-20% / +10%	-	8 VA	10 VA
5428200370	-20% / +10%	-	8 VA	10 VA

Nominal flow Qn with secondary pressure 6 bar at $\Delta p = 1$ bar

Technical information

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

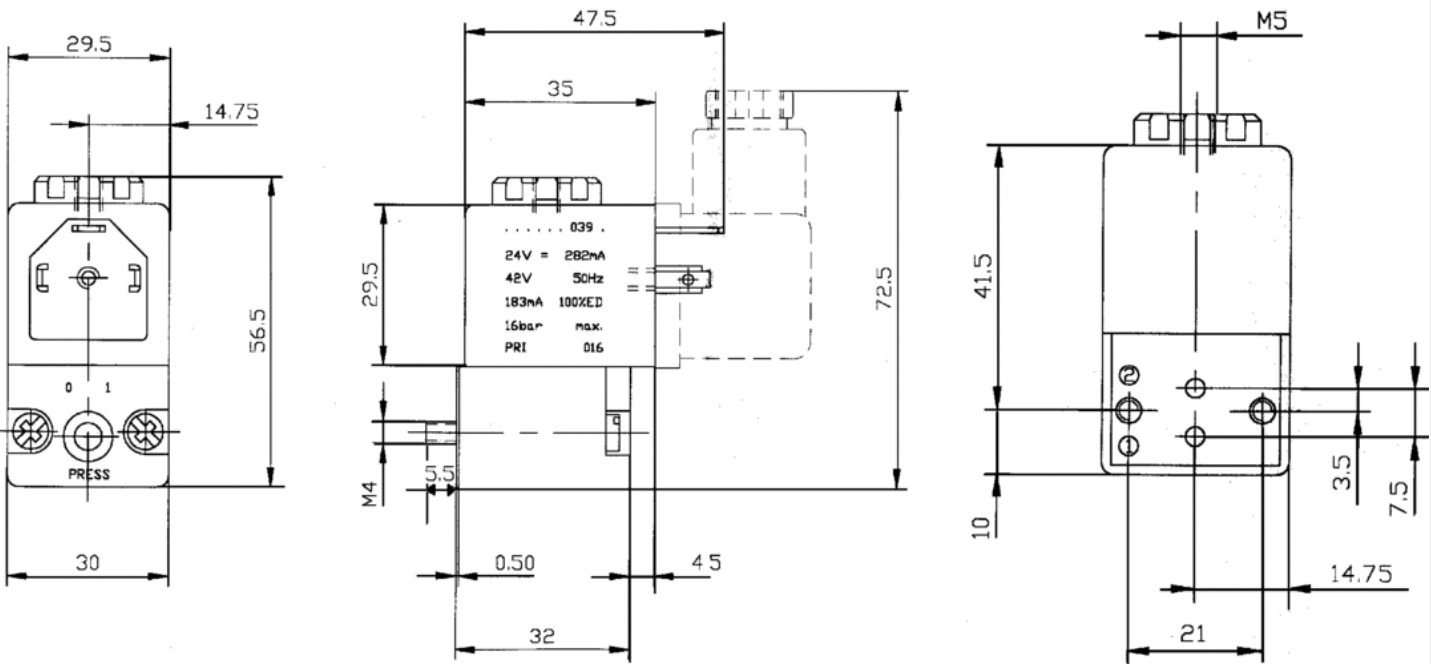
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

Dimensions

Dimensions



Coil, Series CO1

- Cable with valve plug connector
- Coil width 30 mm
- Power consumption DC 3.25 W
- Holding power AC 2.9-3 VA
- Switch-on power AC 3-3.1 VA
- ATEX



Certificates

ATEX class G

ATEX class D

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index

Weight

ATEX

II 2G Ex mb IIC T4 Gb

II 2D Ex mb tb IIIC T130°C Db IP65

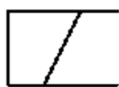
-20 ... 50 °C

IP65

100 %

14

See table below



Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
1827414297	-	230 V	230 V
1827414298	-	230 V	230 V
1827414299	-	110 V	110 V
1827414301	-	24 V	24 V
1827414303	24 V	-	-
1827414304	24 V	-	-

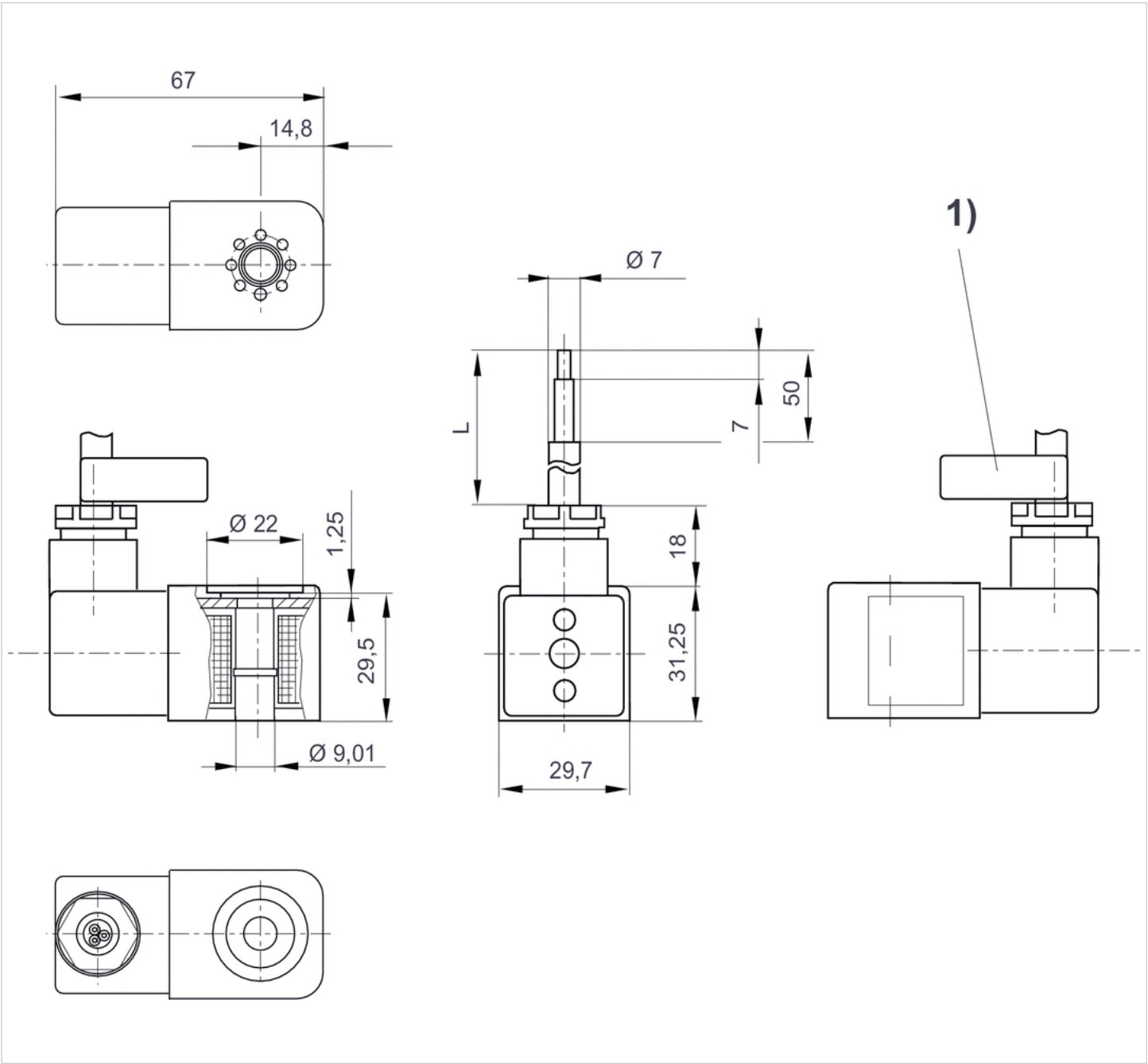
Part No.	Voltage tolerance	Voltage tolerance	Power consumption	Holding power
	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA
1827414298	-	-10% / +10%	-	3 VA
1827414299	-	-10% / +10%	-	2,9 VA
1827414301	-	-10% / +10%	-	2,9 VA
1827414303	-10% / +10%	-	3,25 W	-
1827414304	-10% / +10%	-	3,25 W	-

Part No.	Switch-on power	Cable length	Weight
	AC 50 Hz		
1827414297	3,1 VA	3 m	0,38 kg

Part No.	Switch-on power	Cable length	Weight
	AC 50 Hz		
1827414298	3,1 VA	10 m	0,91 kg
1827414299	3 VA	3 m	0,38 kg
1827414301	3 VA	3 m	0,38 kg
1827414303	-	3 m	0,38 kg
1827414304	-	10 m	0,91 kg

Dimensions

Dimensions



L = cable length

1) Cable ID band with serial number

Valve plug connector, series CON-VP

- Socket, 2+E, angled, 90° Socket, 3+E, angled, 90°

- EN 175301-803

- unshielded

- with LED Yellow Red Green green/red



Connection type

Ambient temperature min./max.

Operational
voltage

Protection class

Mounting screw tightening torque

Weight

Screws

-40 ... 90 °C

See table below

IP65

0,4 Nm

See table below

Technical data

Part No.		Electrical connection	Operational voltage	Max. current
		1		
1834484048		Socket 2+E angled 90°	-	10 A
1834484059		Socket 3+E angled 90°	-	10 A
1834484101		Socket 2+E angled 90°	24 V AC/DC	-
1834484102		Socket 2+E angled 90°	110 V AC	-
1834484103		Socket 2+E angled 90°	230 V AC	-
8941016112		Socket 2+E angled 90°	230 V AC	-
8941012462		Socket 3+E angled 90°	24 V DC	8 A

Part No.	Protective circuit	Contact assignment	LED status display	suitable cable-Ø min./max
1834484048	-	2+E	-	6 / 8 mm
1834484059	-	3+E	-	6 / 8 mm
1834484101	Z-diode	2+E	Yellow	6 / 8 mm
1834484102	Varistor	2+E	Red	6 / 8 mm
1834484103	Varistor	2+E	Red	6 / 8 mm
8941016112	Varistor	2+E	Green	6 / 10 mm
8941012462	-	3+E	green/red	4,5 / 11 mm

Part No.	Seal	Weight	
1834484048	caoutchouc/butadiene caoutchouc	0,03 kg	1)
1834484059	caoutchouc/butadiene caoutchouc	0,03 kg	1)
1834484101	Silicone caoutchouc	0,03 kg	2)
1834484102	caoutchouc/butadiene caoutchouc	0,03 kg	1)
1834484103	Silicone caoutchouc	0,025 kg	1)
8941016112	caoutchouc/butadiene caoutchouc	0,03 kg	1)
8941012462	caoutchouc/butadiene caoutchouc	0,03 kg	2)

- 1) Profile seal
- 2) Flat gasket

Technical information

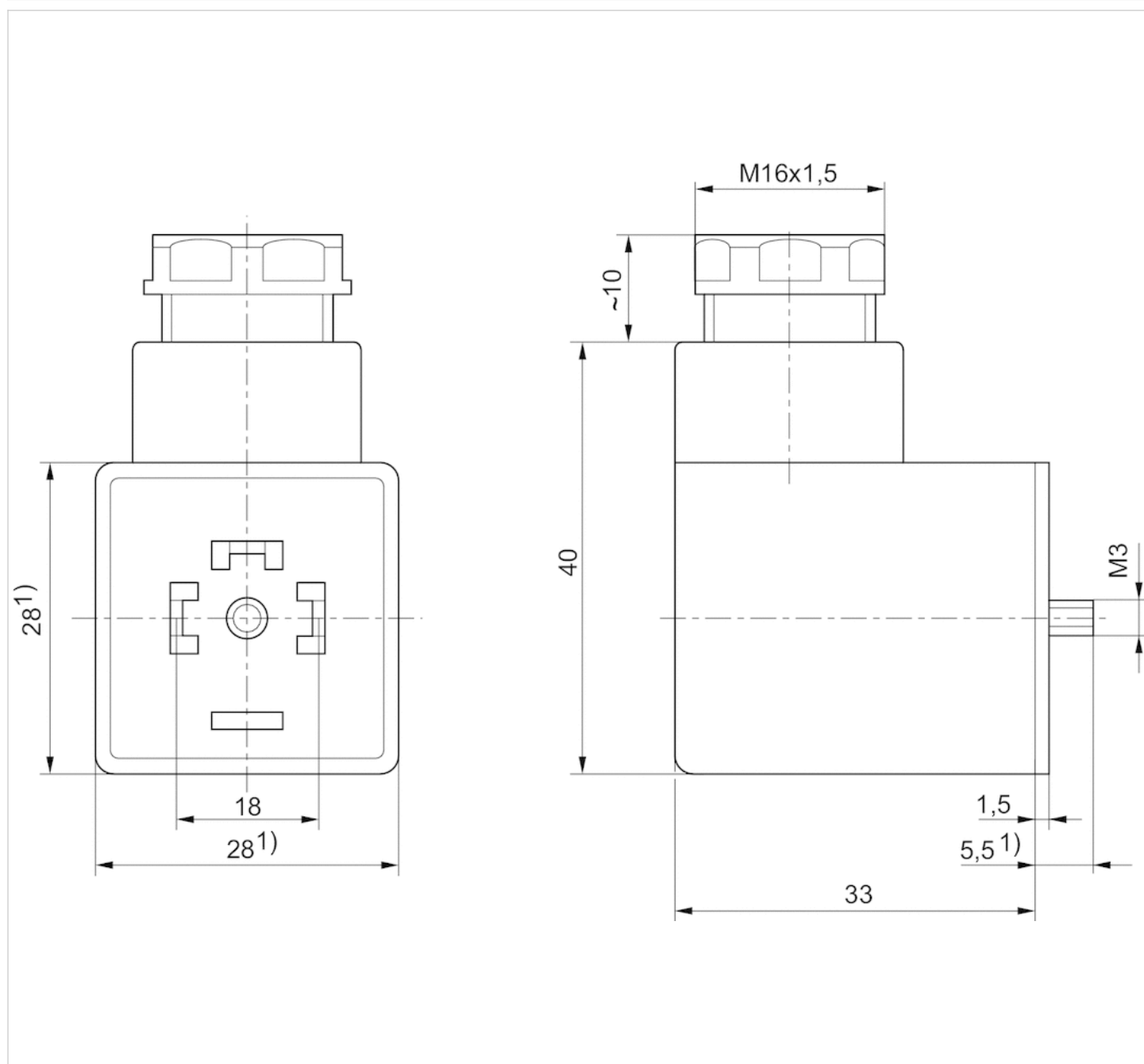
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc Silicone caoutchouc

Dimensions

Dimensions



1) Max.

Valve plug connector, series CON-VP

- Socket form A 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	See table below
Protection class	IP67
Wire cross-section	0,75 mm ²
Mounting screw tightening torque	0,4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Protective circuit	Contact assignment	LED status display
1834484160		230 V AC/DC	-	2+E	-
1834484162		24 V AC/DC	Z-diode	2+E	Yellow
1834484163		24 V AC/DC	Z-diode	2+E	Yellow
1834484164		230 V AC/DC	Varistor	2+E	Red
1834484165		230 V AC/DC	Varistor	2+E	Red

Part No.	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484160	3	5,9 mm	3 m	0,2 kg	Fig. 1	1)
1834484162	3	5,9 mm	3 m	0,2 kg	Fig. 2	-
1834484163	3	5,9 mm	5 m	0,31 kg	Fig. 2	-
1834484164	3	5,9 mm	3 m	0,2 kg	Fig. 2	-
1834484165	3	5,9 mm	5 m	0,31 kg	Fig. 2	-

1) Scope of delivery incl. flat gasket

Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

Dimensions

Fig. 1

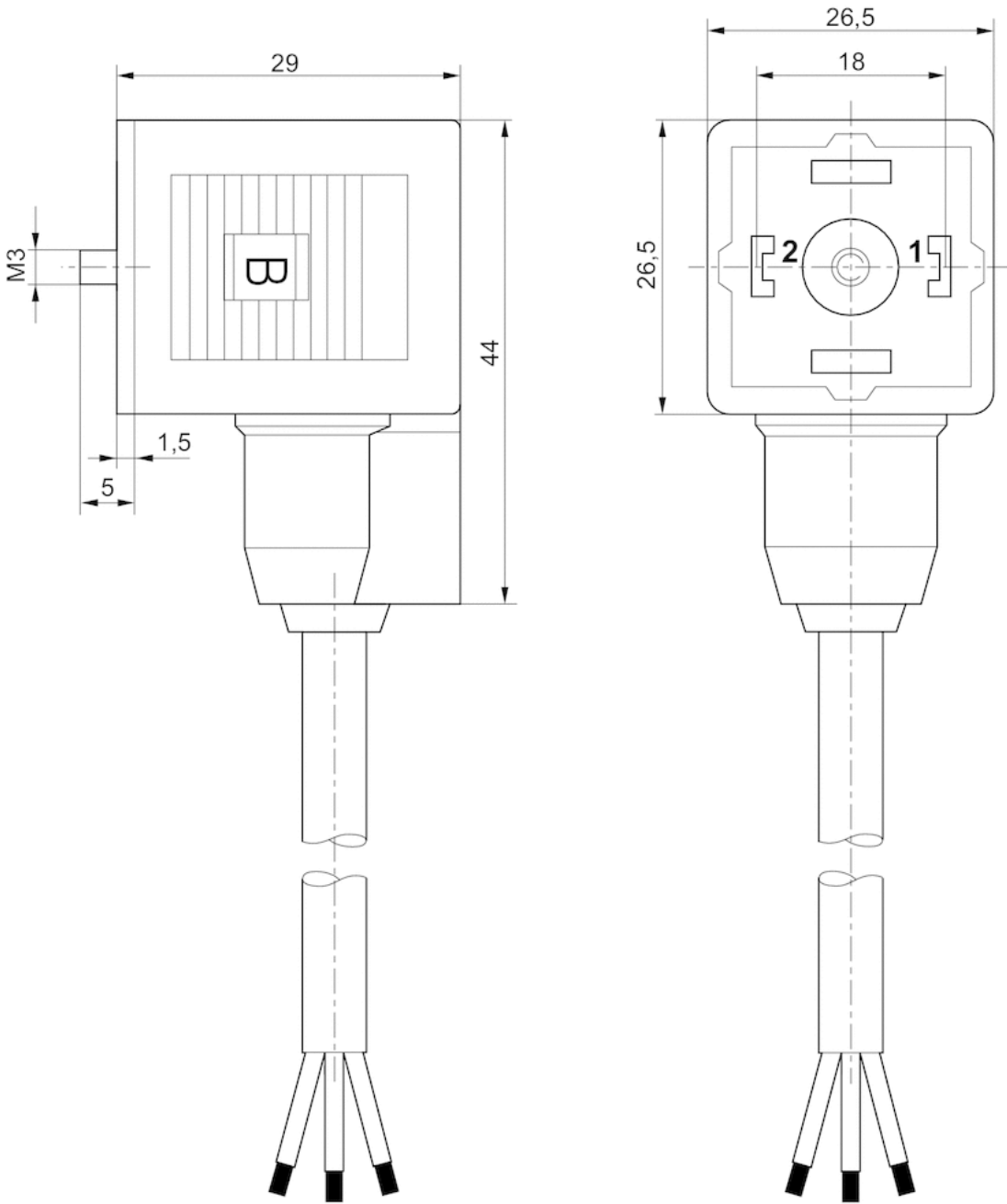
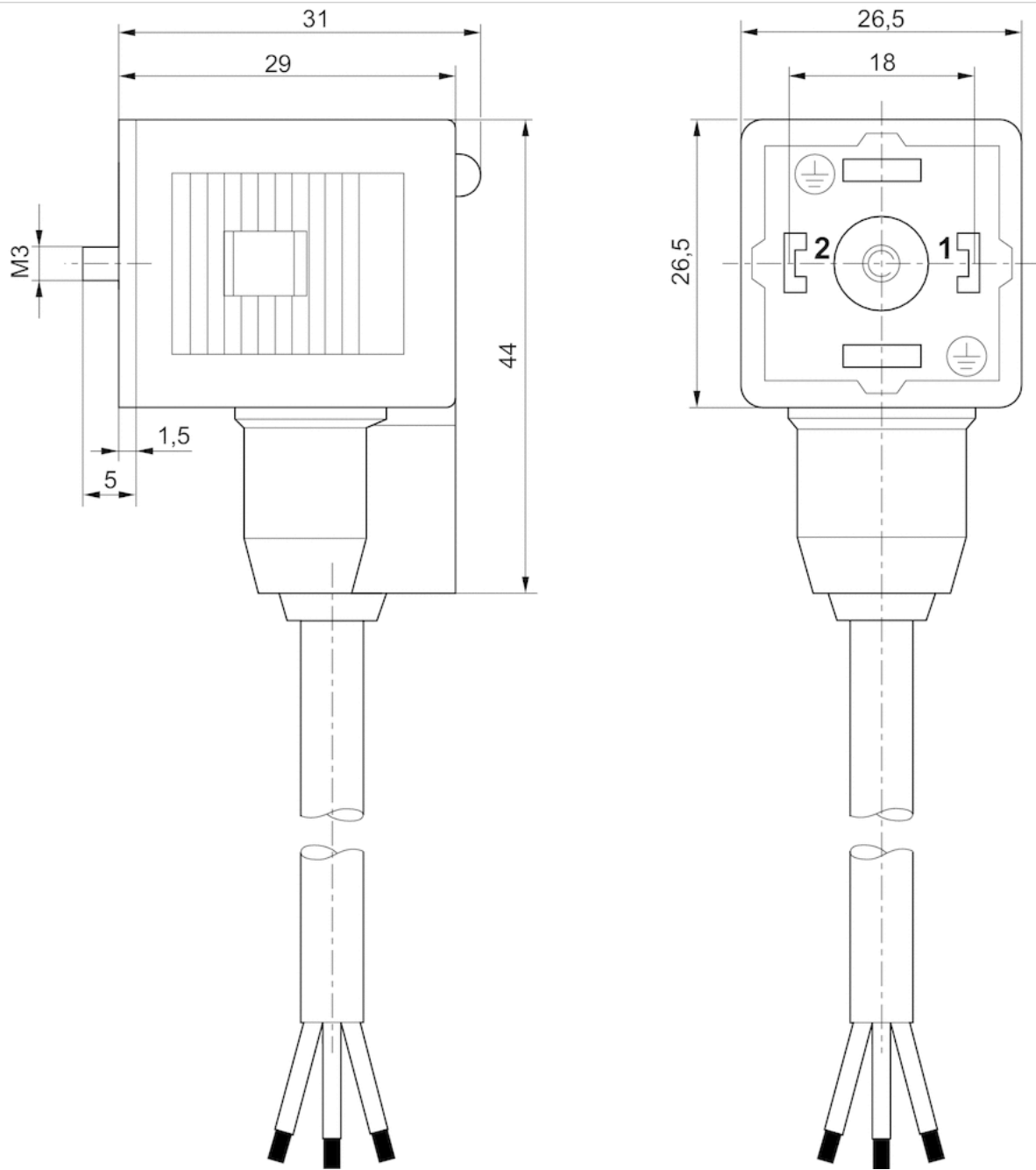


Fig. 2



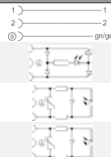
Valve plug connector, series CON-VP

- Socket, Form B, industry, 2+E, angled, 90°
- Industry standard
- unshielded
- with LED Yellow Red



Connection type	Screws
Ambient temperature min./max.	-25 ... 50 °C
Operational voltage	See table below
Protection class	IP65
Mounting screw tightening torque	0,4 Nm
Weight	0,02 kg

Technical data

Part No.		Operational voltage	Max. current	Protective circuit	Contact assignment
1834484051		-	10 A	-	2+E
1834484107		24 V AC/DC	-	Z-diode	2+E
1834484108		110 V AC	-	Varistor	2+E
1834484109		230 V AC	-	Varistor	2+E

Part No.	LED status display	suitable cable-Ø min./max	Seal	Fig.	
1834484051	-	4 / 8 mm	caoutchouc/butadiene caoutchouc	Fig. 1	1)
1834484107	Yellow	6 / 8 mm	Silicone caoutchouc	Fig. 2	2)
1834484108	Red	6 / 8 mm	Silicone caoutchouc	Fig. 2	1)
1834484109	Red	4 / 8 mm	Silicone caoutchouc	Fig. 2	2)

1) Profile seal

2) Flat gasket,

Technical information

For security reasons, the valve plug connector must be plugged properly and centrally.
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc Silicone caoutchouc

Dimensions

Fig. 1

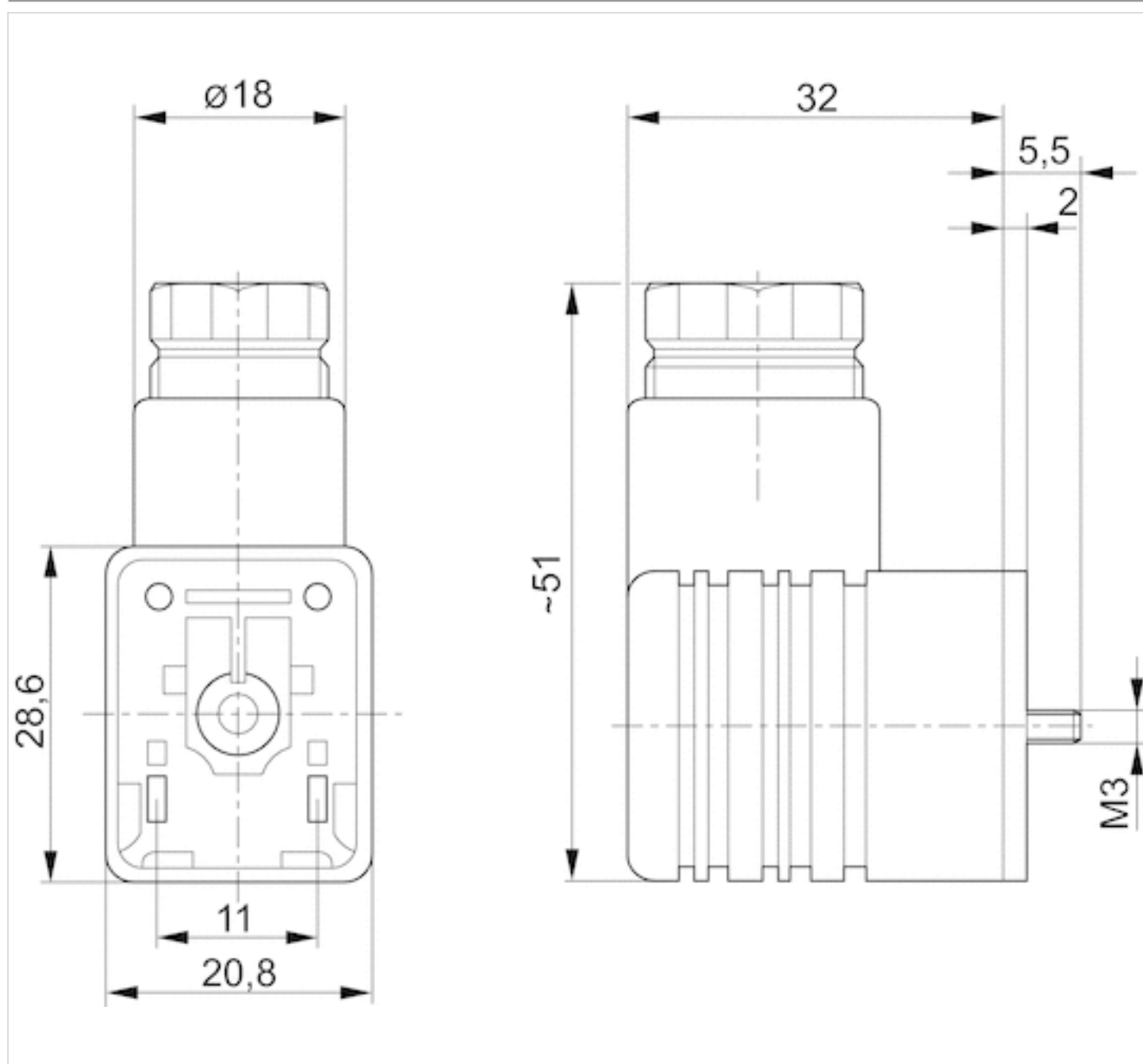
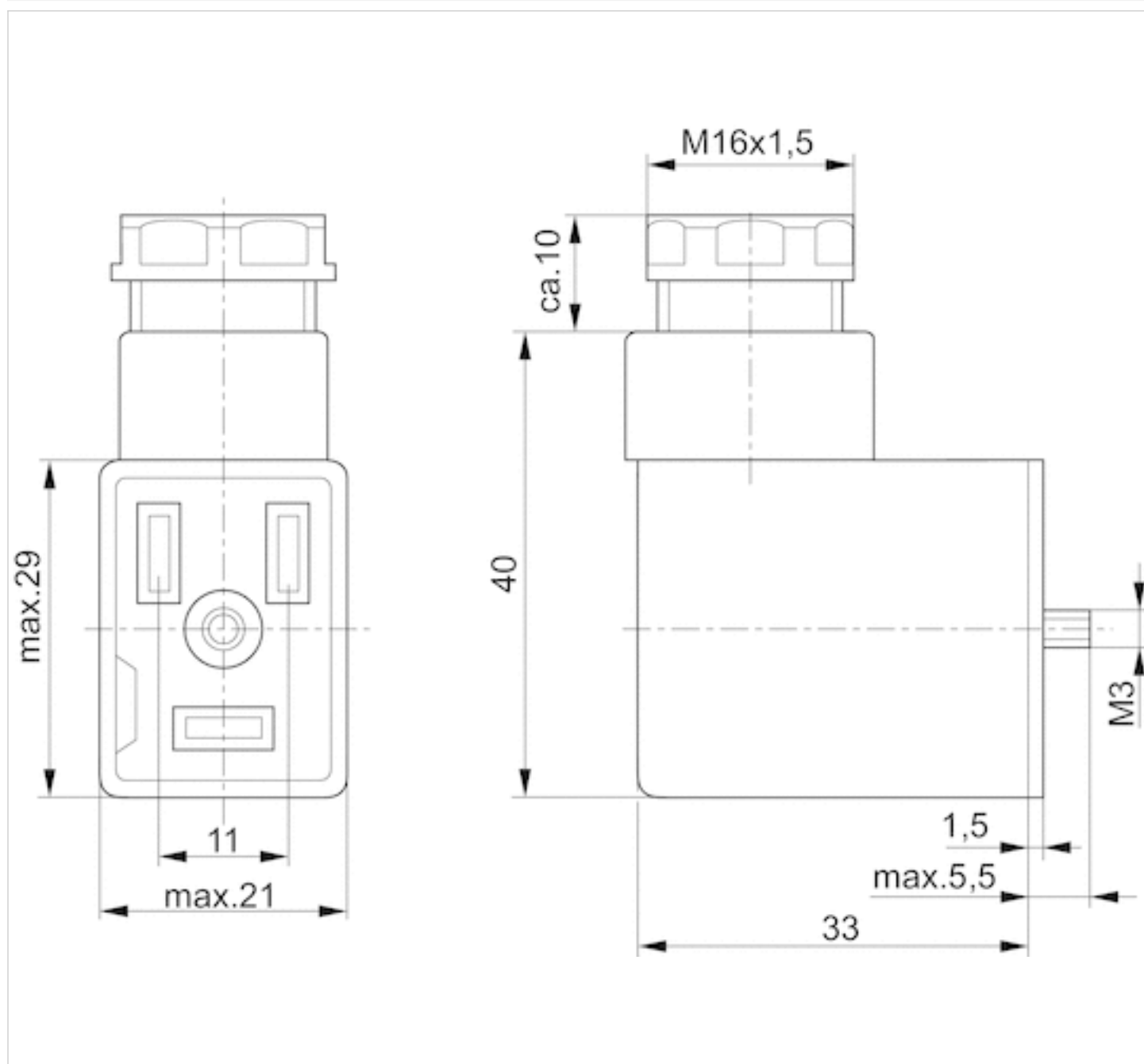


Fig. 2



Valve plug connector, series CON-VP

- Socket Form B, industry 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-20 ... 80 °C
Protection class	IP67
Wire cross-section	0,75 mm²
Mounting screw tightening torque	0,4 Nm
Weight	0,02 kg



Technical data

Part No.	Max. current	Contact assignment	Number of wires	Cable-Ø	Cable length
8946201912	4 A	2+E	3	5,9 mm	3 m

Technical information

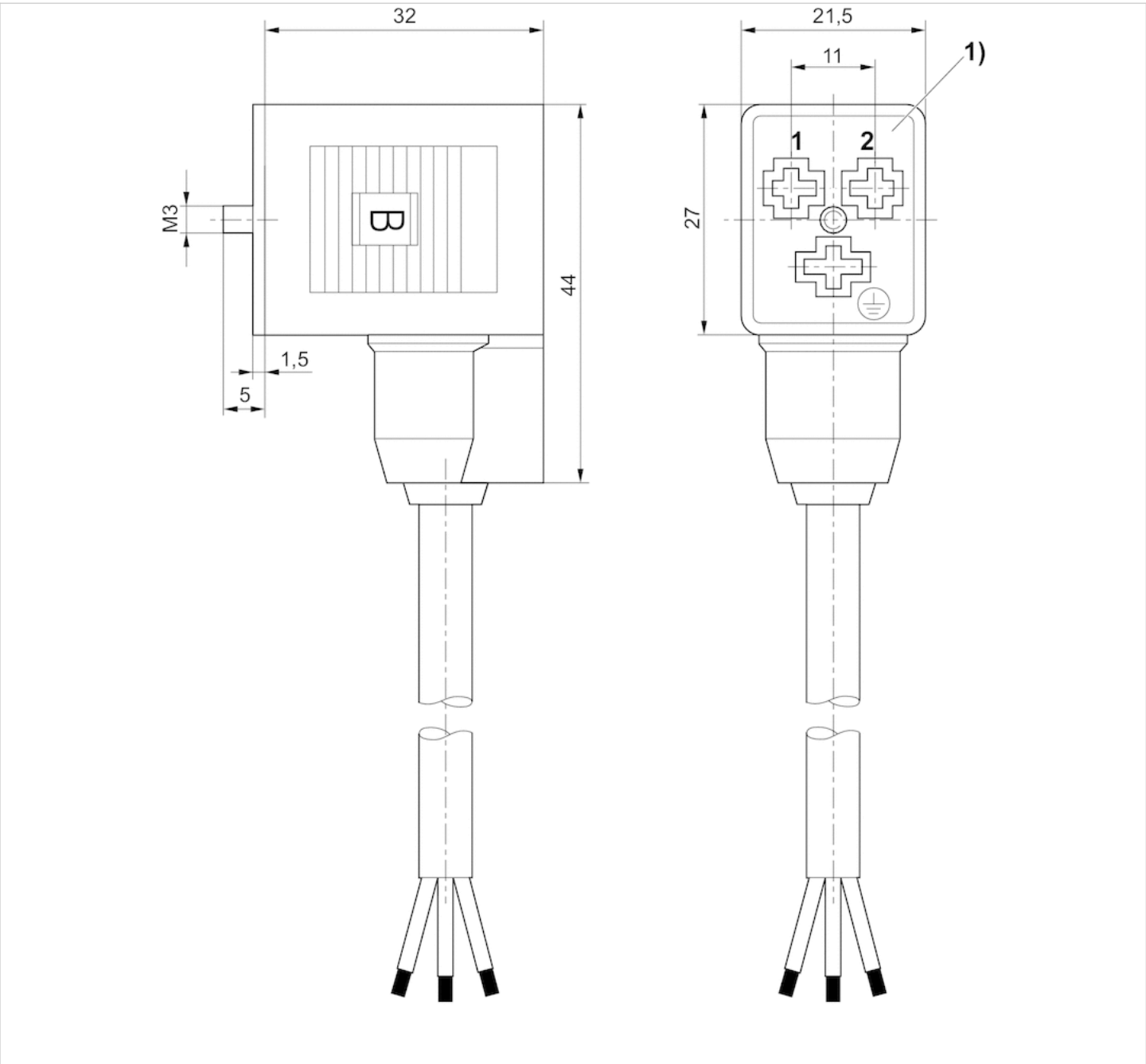
For security reasons, the valve plug connector must be plugged properly and centrally.
 The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyvinyl chloride

Dimensions

Dimensions



1) 0° female insert

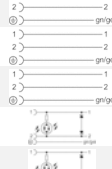
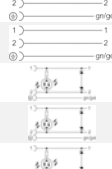
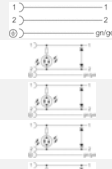
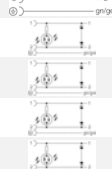
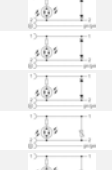
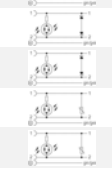
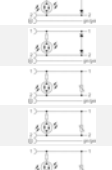
Valve plug connector, series CON-VP

- Socket form C 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	See table below
Protection class	IP67
Wire cross-section	0,75 mm ²
Mounting screw tightening torque	0,4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Max. current	Protective circuit	Contact assignment
1834484212		230 V AC/DC	6 A	-	2+E
1834484213		230 V AC/DC	6 A	-	2+E
1834484214		230 V AC/DC	6 A	-	2+E
1834484215		230 V AC/DC	6 A	-	2+E
1834484204		24 V AC/DC	6 A	Z-diode	2+E
1834484205		24 V AC/DC	6 A	Z-diode	2+E
1834484206		24 V AC/DC	6 A	Z-diode	2+E
1834484207		24 V AC/DC	6 A	Z-diode	2+E
1834484208		230 V AC/DC	6 A	Varistor	2+E
1834484209		230 V AC/DC	6 A	Varistor	2+E
1834484210		230 V AC/DC	6 A	Varistor	2+E
1834484211		230 V AC/DC	6 A	Varistor	2+E
1834484236		24 V AC/DC	6 A	Z-diode	2+E

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484212	-	3	5,9 mm	3 m	0,183 kg	Fig. 1	-
1834484213	-	3	5,9 mm	3 m	0,183 kg	Fig. 2	-
1834484214	-	3	5,9 mm	5 m	0,308 kg	Fig. 1	-
1834484215	-	3	5,9 mm	5 m	0,308 kg	Fig. 2	-
1834484204	Yellow	3	5,9 mm	3 m	0,185 kg	Fig. 1	1)
1834484205	Yellow	3	5,9 mm	3 m	0,185 kg	Fig. 2	1)
1834484206	Yellow	3	5,9 mm	5 m	0,292 kg	Fig. 1	1)
1834484207	Yellow	3	5,9 mm	5 m	0,298 kg	Fig. 2	1)
1834484208	Yellow	3	5,9 mm	3 m	0,171 kg	Fig. 1	1)
1834484209	Yellow	3	5,9 mm	3 m	0,194 kg	Fig. 2	1)
1834484210	Yellow	3	5,9 mm	5 m	0,297 kg	Fig. 1	1)

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484211	Yellow	3	5,9 mm	5 m	0,285 kg	Fig. 2	1)
1834484236	Yellow	3	5,9 mm	10 m	0,571 kg	Fig. 2	1)

1) Scope of delivery incl. flat gasket

Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

Dimensions

Fig. 1, Dimensions in mm, 0° female insert

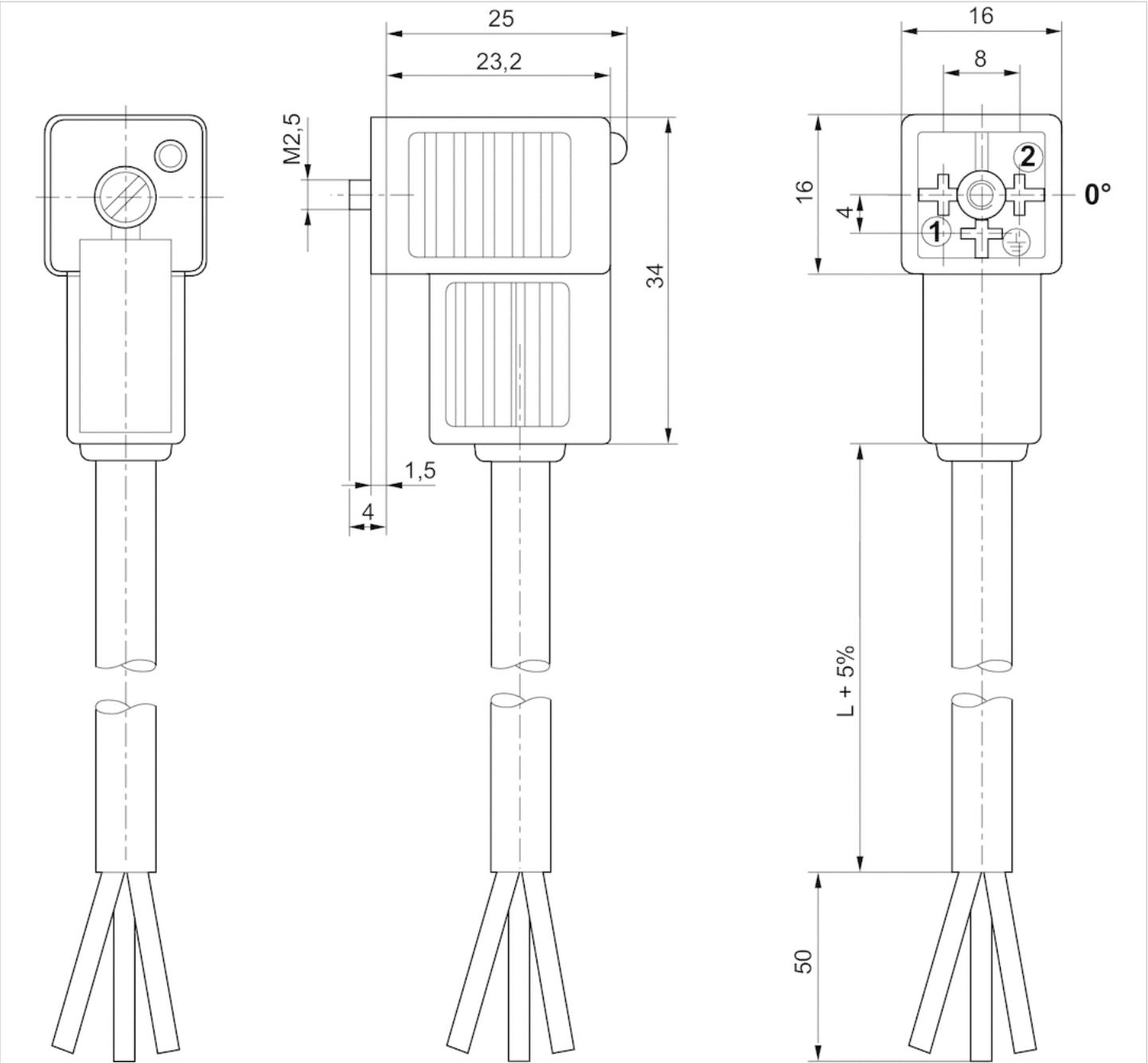
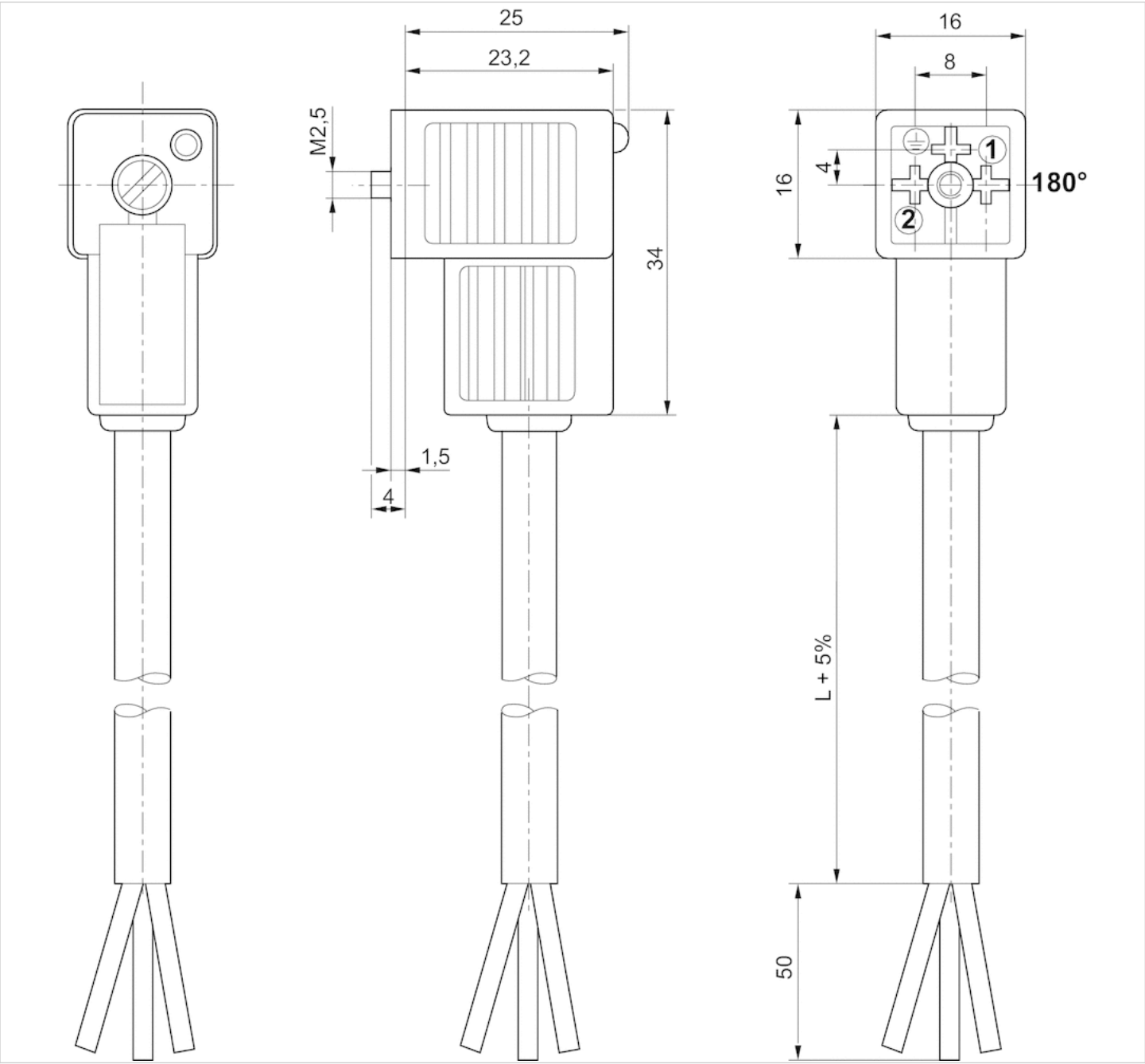


Fig. 2, Dimensions in mm, 180° female insert



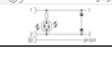
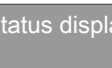
Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- ISO 15217
- unshielded
- with LED Green



Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Operational voltage	See table below
Protection class	IP65
Mounting screw tightening torque	0,4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Max. current	Protective circuit	Contact assignment
1834484187		250 / 300 V AC/DC	6 A	-	2+E
8941012202		250 / 300 V AC/DC	6 A	-	2+E
4402050330		24 V AC/DC	-	Z-diode	2+E

Part No.	LED status display	suitable cable-Ø min./max	Seal	Weight
1834484187	-	4 / 8 mm	caoutchouc/butadiene caoutchouc	0,012 kg
8941012202	-	4 / 8 mm	-	0,012 kg
4402050330	Green	-	-	0,014 kg

Part No.	Fig.	
1834484187	Fig. 1	-
8941012202	Fig. 2	-
4402050330	Fig. 3	1)

1)

Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

Material

Seals

caoutchouc/butadiene caoutchouc

Dimensions

Fig. 1

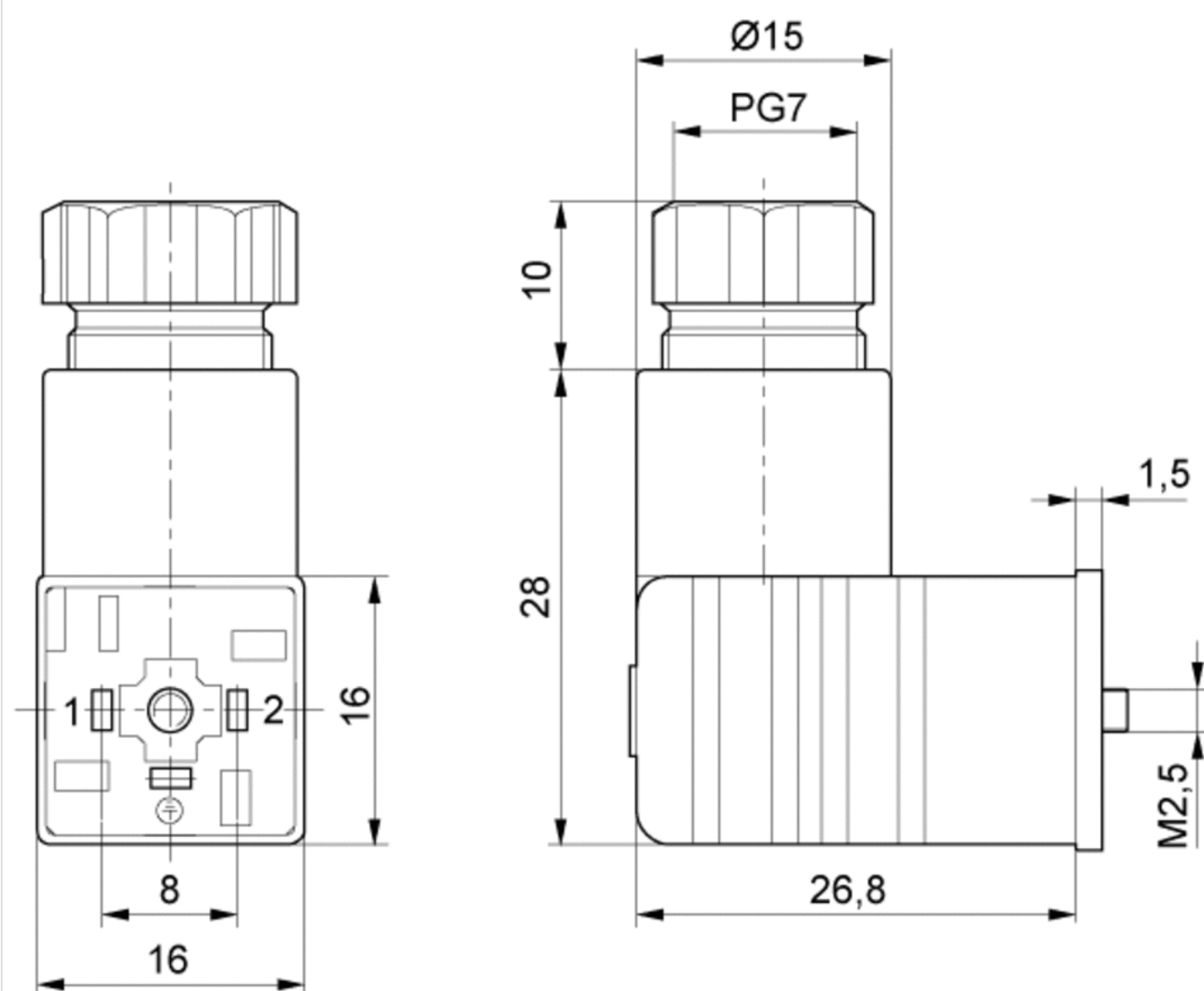


Fig. 2

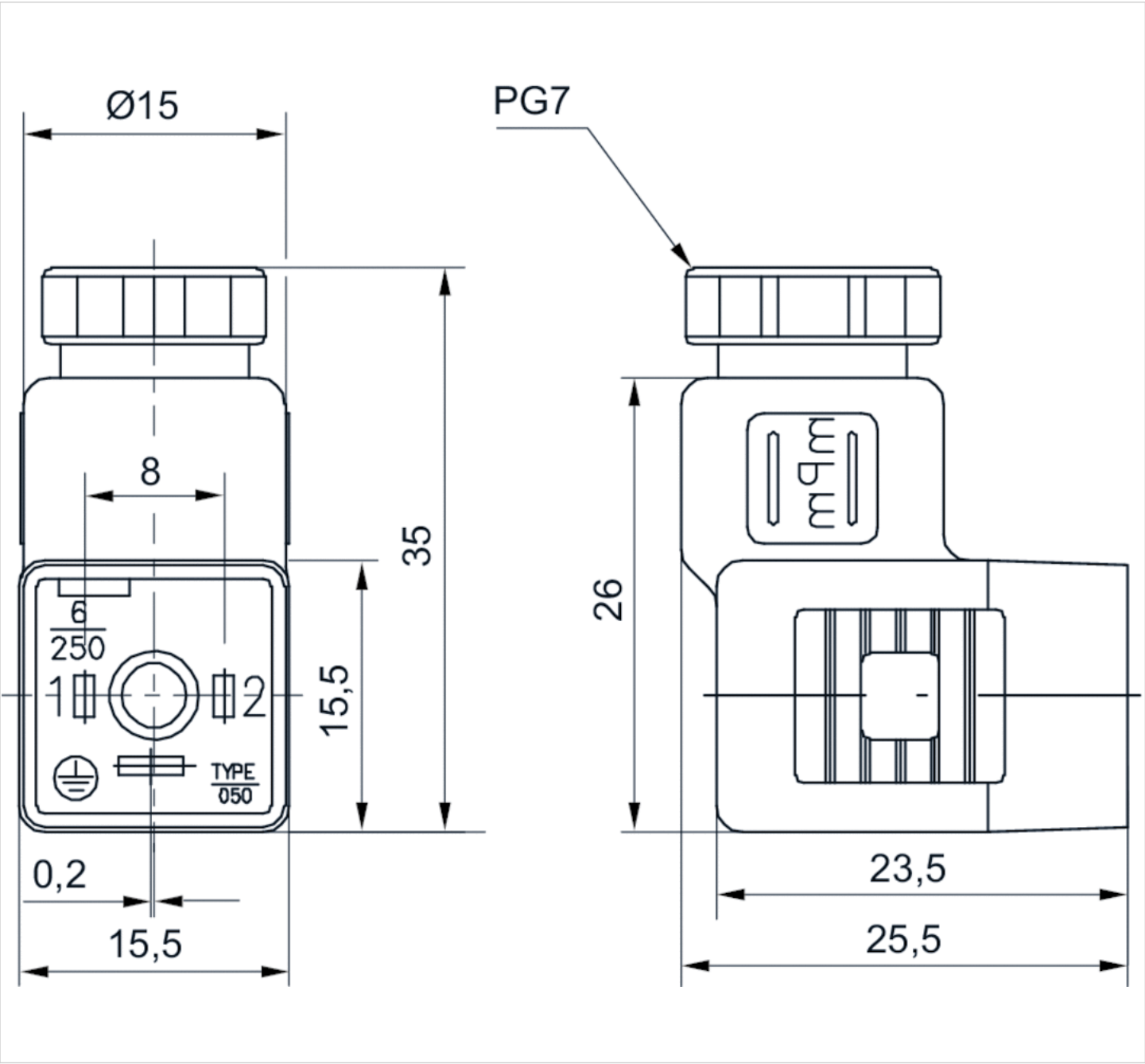
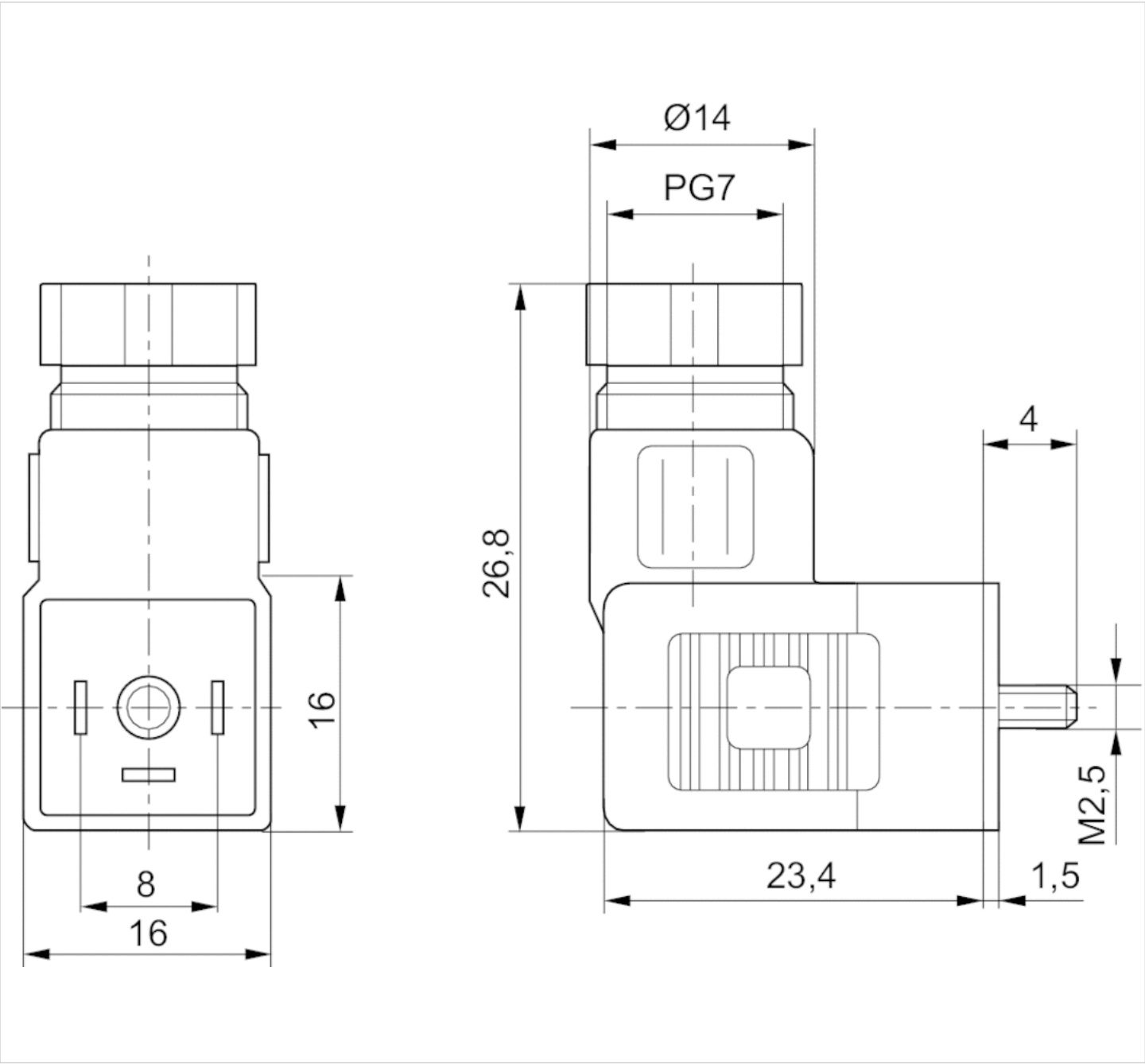


Fig. 3



Adapter, Series CON-AP

- open cable ends 10 x snap Ø8 14-pin
- Socket M8x1 straight 180°
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 90 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Wire cross-section	0,34 mm²
Weight	See table below

Technical data

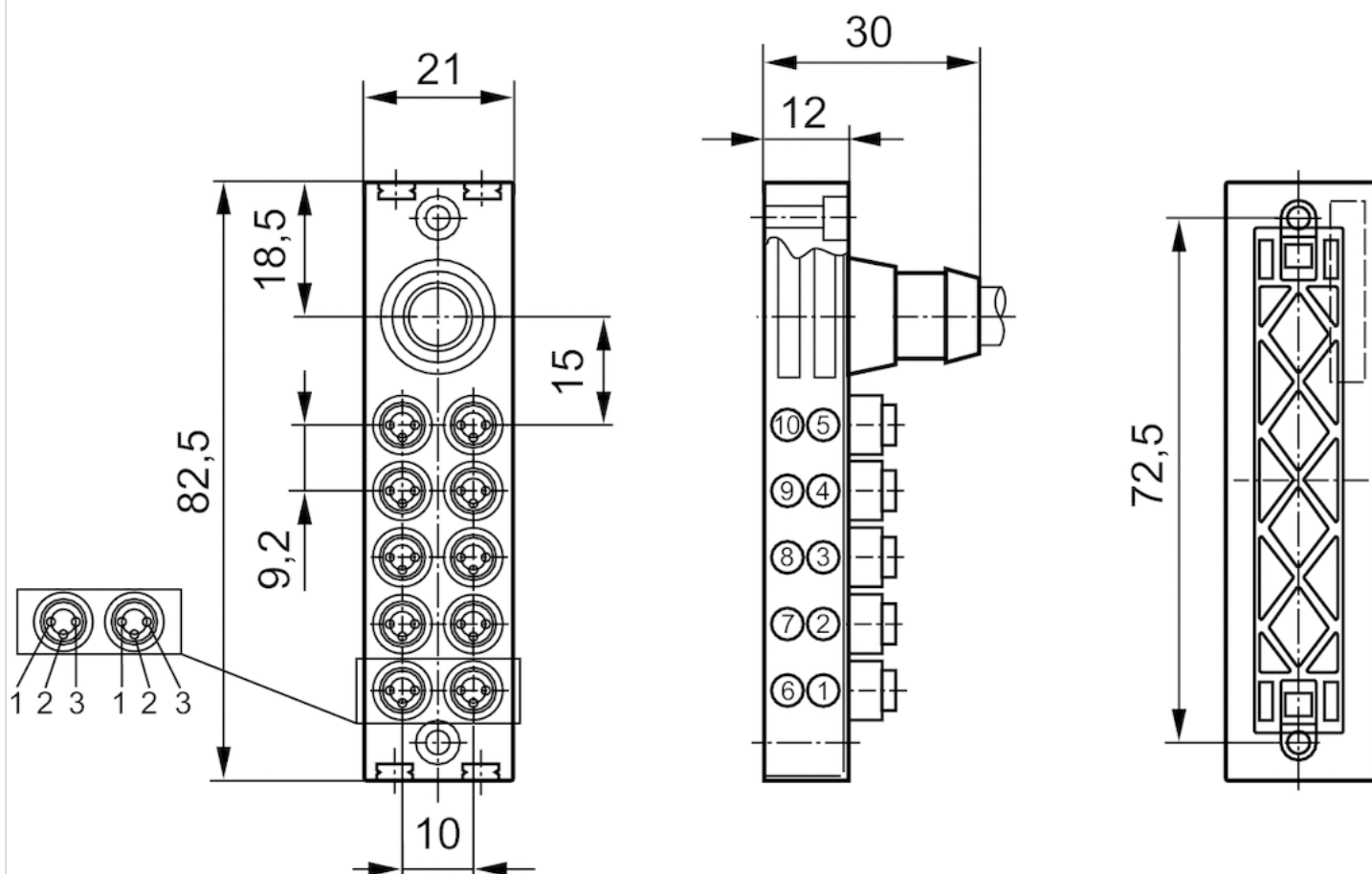
Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
0493831909	2,1 A	14	8,6 mm	3 m	0,39 kg
0493832018	2,1 A	14	8,6 mm	10 m	1,167 kg

Technical information

Material	
Housing	Polyurethane Polyamide
Cable sheath	Polyvinyl chloride

Dimensions

Dimensions

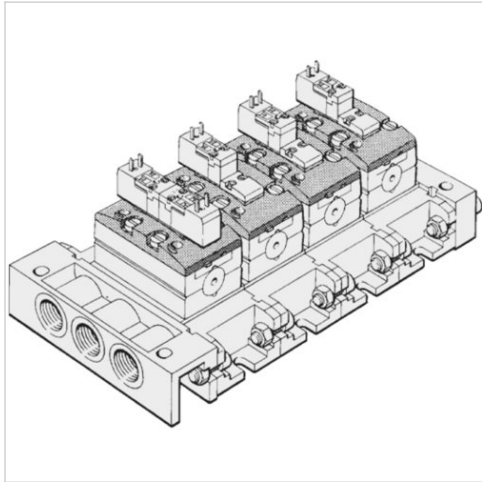


Pin assignment

- 1) +24 V
- 2) ground
- 3) 0 V

valve cover, with or without pilot valve

- for 581
- size 2
- standard ISO 5599-1



standard	ISO 5599-1
Ambient temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	40 ... 400 mg/m ³
Weight	See table below

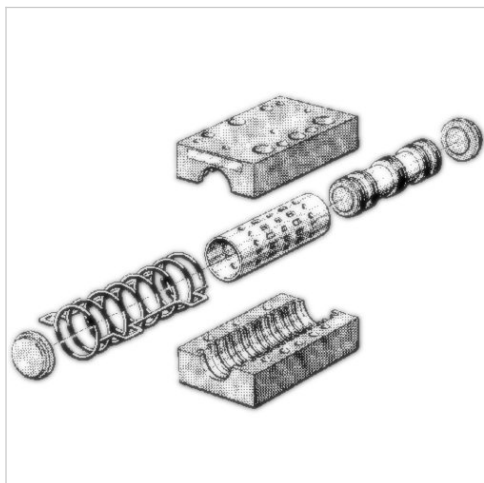
Technical data

Part No.	Type	Pilot valve width	Weight	
0493842706	5/2-directional valve, single solenoid	15 mm	0,085 kg	1)
0493842803	2x3/2-, 5/2-, 5/3-directional valve	15 mm	0,08 kg	2)
5812010000	5/2-directional valve, mono-stable	22 mm	1 kg	3)
5812020000	2x3/2-, 5/2-, 5/3-directional valve	22 mm	1 kg	4)
5812050000	5/2-directional valve, mono-stable	22 mm	0,17 kg	5)
5812060000	2x3/2-, 5/2-, 5/3-directional valve	22 mm	0,18 kg	5)
5812080000	all	30 mm	0,241 kg	-

- 1) without pilot valve
- 2) without pilot valve, For version 12 V DC - 230 V AC, 5 W
- 3) with pilot valve without coil, For version 12 V DC - 230 V AC, 5 W
- 4) with pilot valve without coil
- 5) with pilot valve without coil, For version 24 V DC, 2 W

valve housing, without cover

- Aluminum
- for 581
- size 2
- standard ISO 5599-1



standard	ISO 5599-1
Ambient temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	40 ... 400 mg/m³
Weight	See table below

Technical data

Part No.	Type	Weight
5812100000	5/2-directional valve, mono-stable	0,255 kg
5812200000	5/2-directional valve, double solenoid	0,4 kg
5812300000	5/2-directional valve, double solenoid, with manual override	0,4 kg
5812400000	5/3-directional valve, closed center	0,26 kg
5812500000	5/3-directional valve, exhausted center	0,26 kg
5812600000	5/2-way solenoid valve, with differential piston	0,27 kg
5812700000	5/3-directional valve, pressurized center	0,26 kg

The valve can be changed to a single solenoid version with air return., signal 14 has priority

Technical information

Material	
Housing	Aluminum

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

