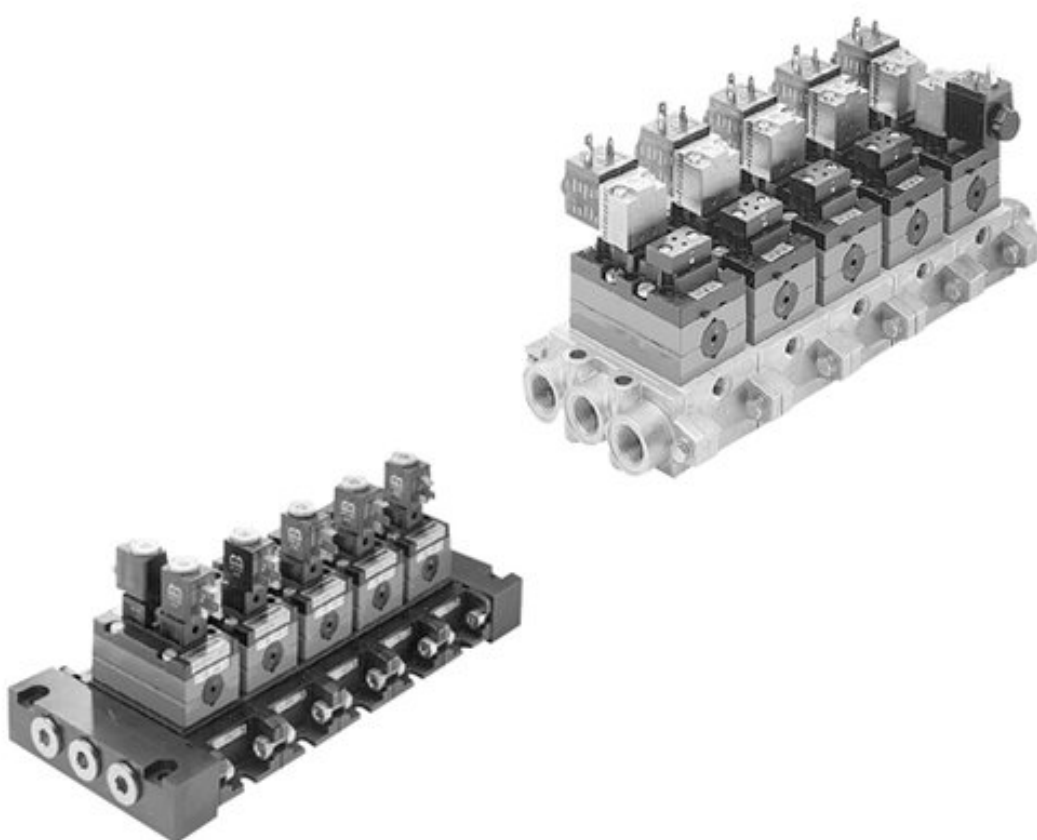


## Series 581, size 4

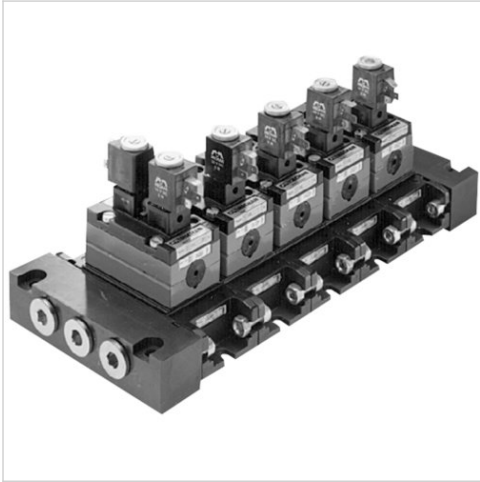


**AVENTICS™ Series 581, size 4**



# Valve system, Series 581, size 4

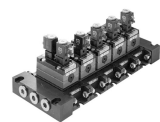
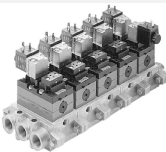
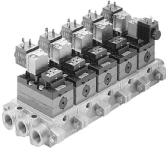

- Configurable valve systems



Blocking principle	Single base plate principle
Standards	ISO 5599-1, ISO 4
Working pressure min./max.	-0,95 ... 10 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow Qn	5000 l/min
Protection class with connection	IP65
Voltage tolerance DC	-10% / +10%
Voltage tolerance AC 50 Hz	-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:
	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

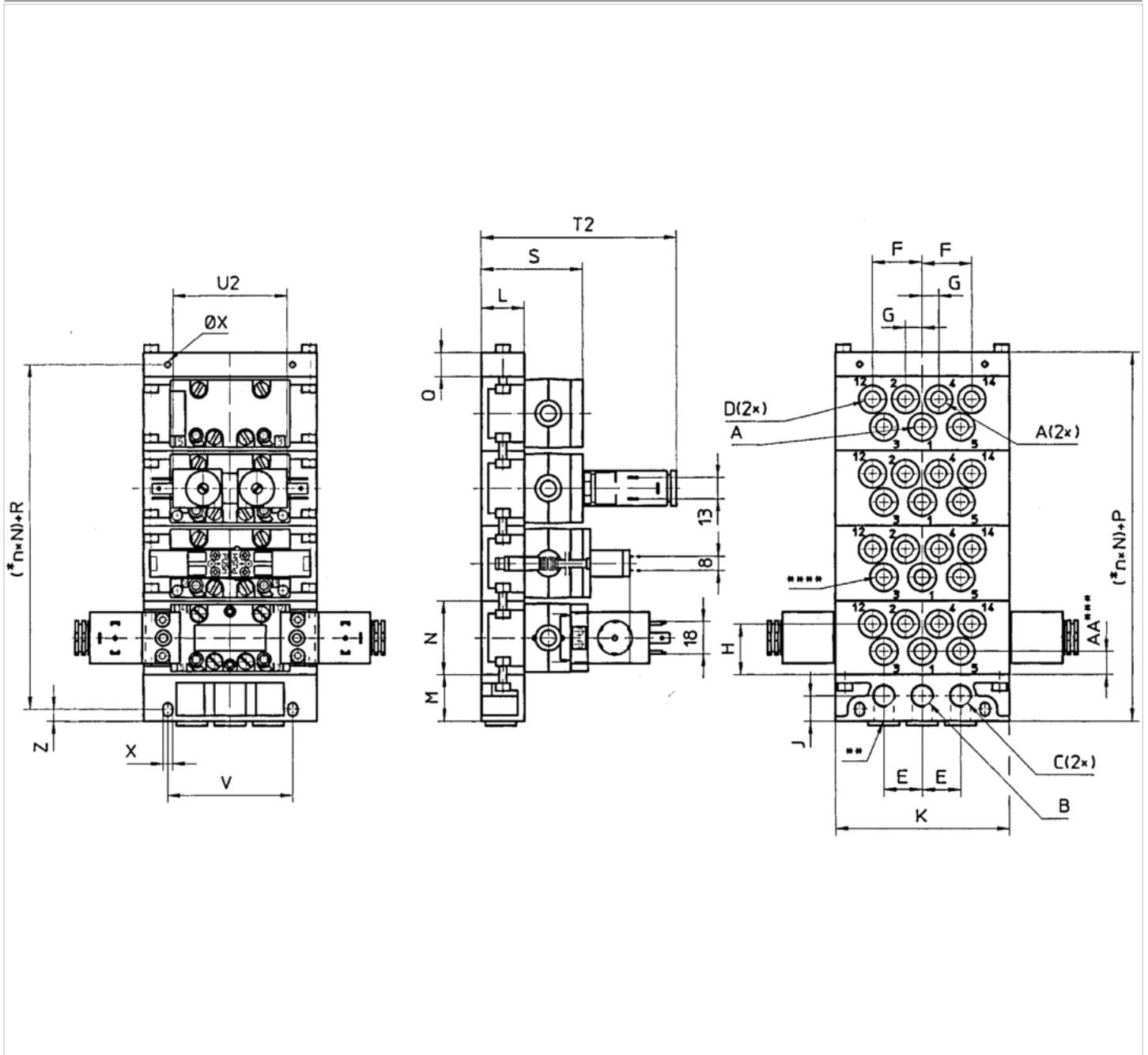
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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

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	G 1/2
B	G 3/4
C	G 3/4
D	G 1/8
E	44
F	60.5
G	22
H	53.5
J	24
K	190
L	43
M	44
N	82
P (=M+Q)	64
Q	20
R (=Q/2+M-Z)	45
S	105
V	146
X	8.4
Z	10
T2	159
U2	144

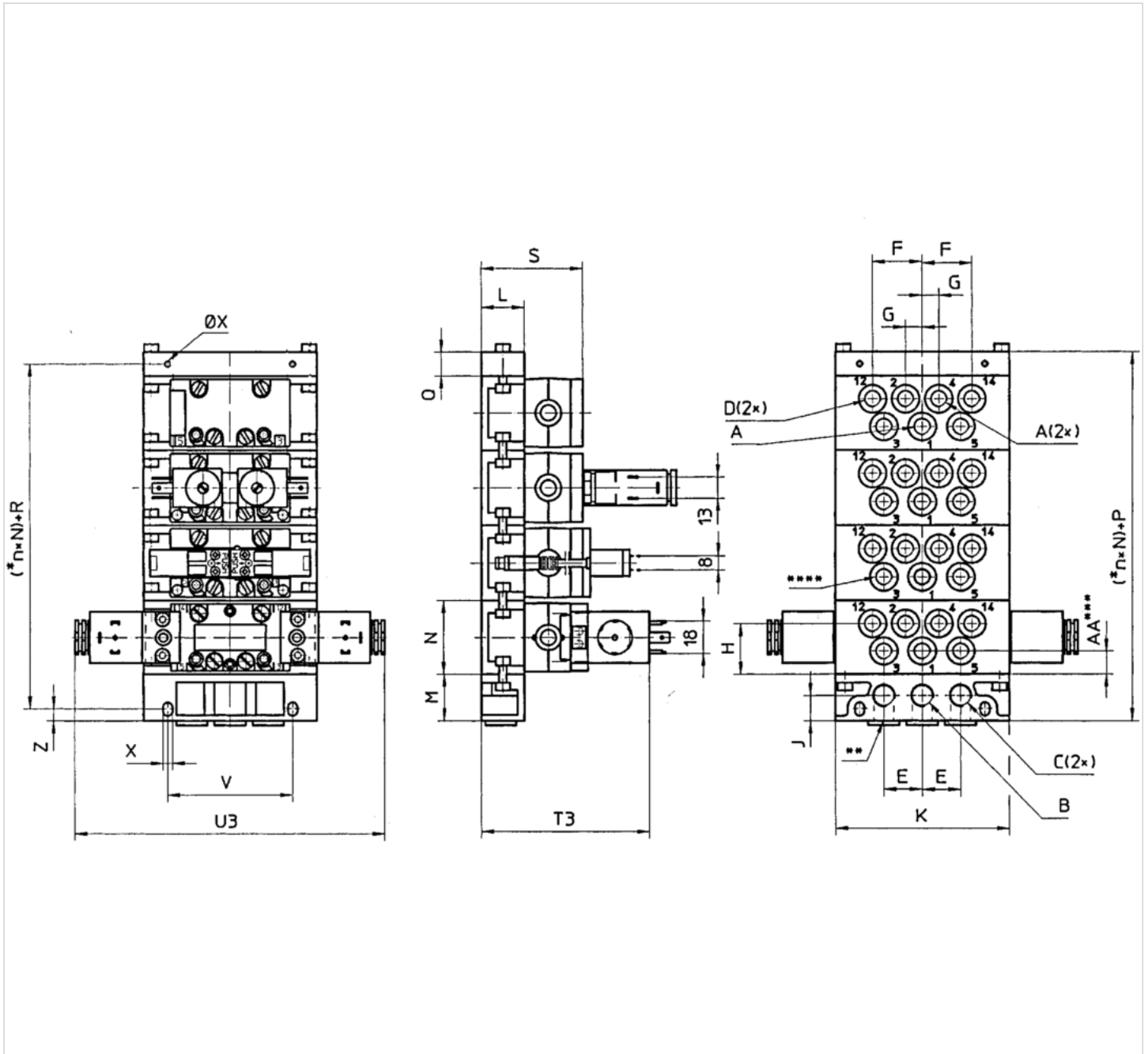
A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate



A	G 3/4
H1	50
H2	33
H3	48
J	30
K	215
L	58
M	30
N	82
P	142
Q	41
R	44
S	124
V	56
X	12
Z	15
T2	174
U2	144

## Dimensions

30 mm CNOMO pilot valve width, 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 1/2
B	G 3/4
C	G 3/4

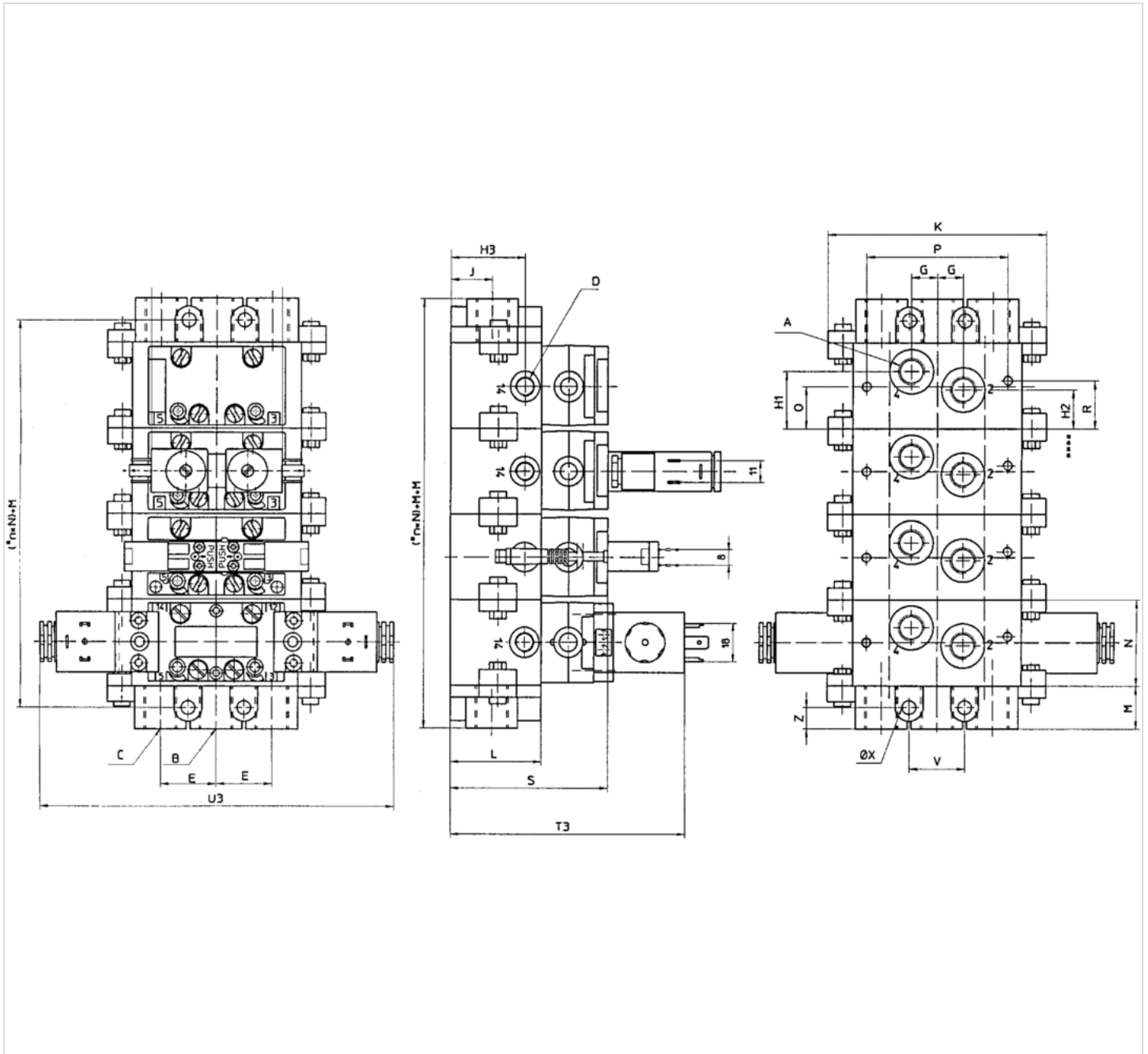
A	G 1/2
D	G 1/8
E	44
F	60.5
G	22
H	53.5
J	24
K	190
L	43
M	44
N	82
P (=M+Q)	64
Q	20
R (=Q/2+M-Z)	45
S	105
V	146
X	8.4
Z	10
T3	148
U3	144

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.

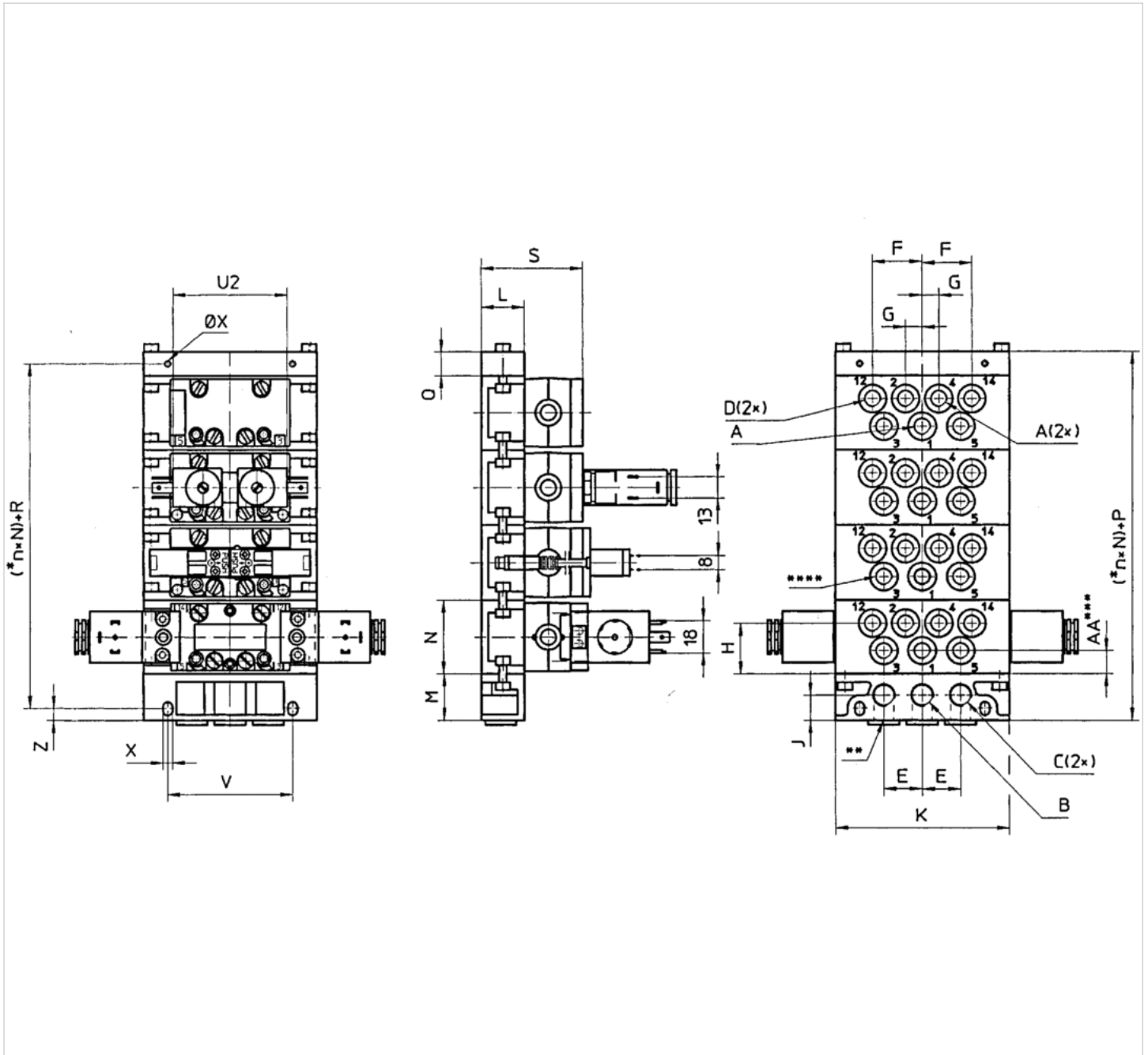
## Dimensions

A	G 3/4
B	G 1
C	G 3/4
D	G 1
E	54
G	26

A	G 3/4
H1	50
H2	33
H3	48
J	30
K	215
L	58
M	30
N	82
P	142
Q	41
R	44
S	124
V	56
X	12
Z	15
T3	163
U3	144

## 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

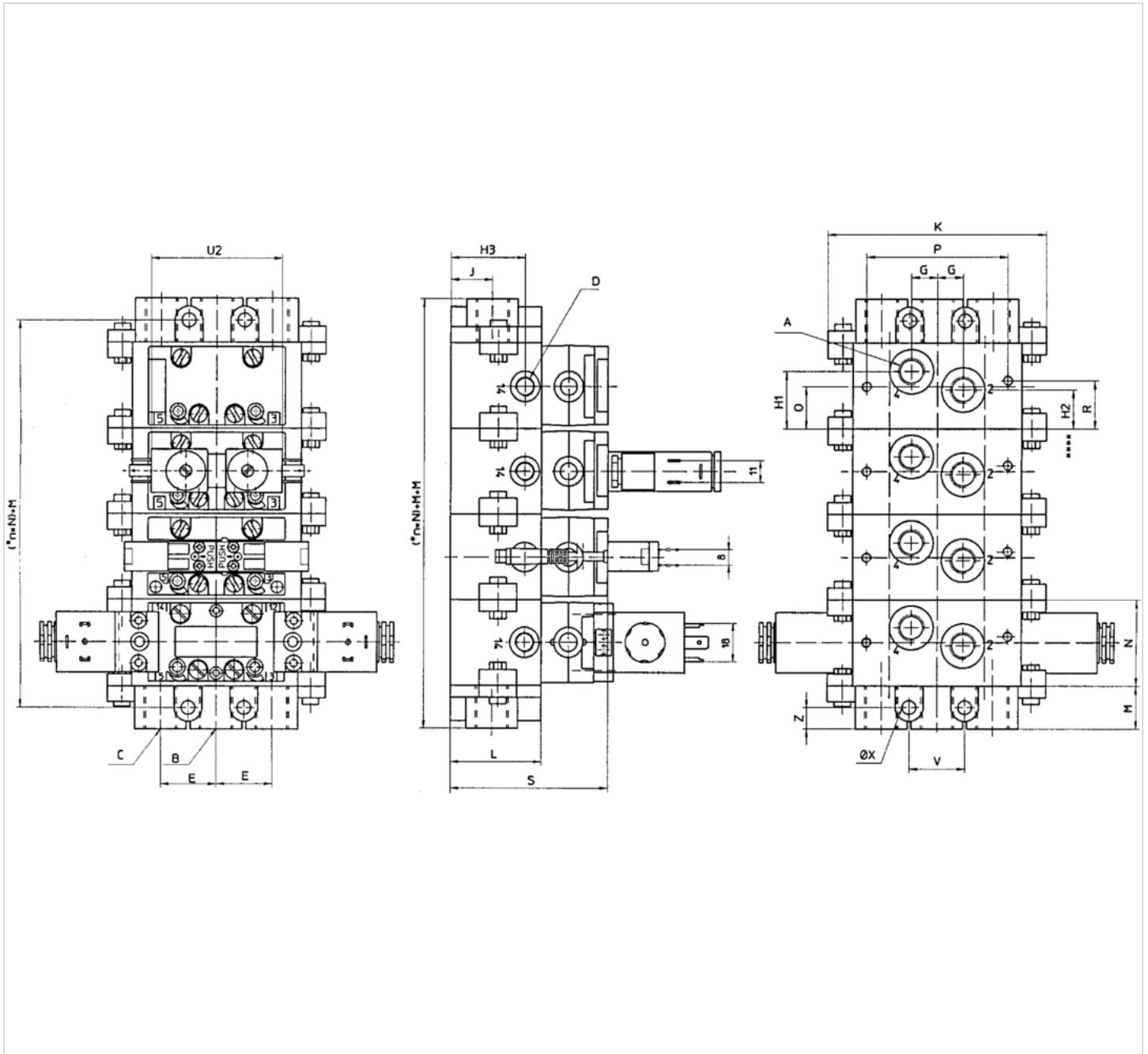
A	G 1/2
B	G 3/4
C	G 3/4
D	G 1/8

A	G 1/2
E	44
F	60.5
G	22
H	53.5
J	24
K	190
L	43
M	44
N	82
P (=M+Q)	64
Q	20
R (=Q/2+M-Z)	45
S	105
V	146
X	8.4
Z	10
U2	144

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 3/4
B	G 1
C	G 3/4
D	G 1
E	54
G	26

A	G 3/4
H1	50
H2	33
H3	48
J	30
K	215
L	58
M	30
N	82
P	142
Q	41
R	44
S	120
V	56
X	12
Z	15
U2	144

## 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	22 ms
Typ. switch-off time	98 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,36 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814110500			12 V	-
5814110200			-	24 V
5814110100			24 V	-
5814110600			48 V	-
5814110300			-	-
5814110400			-	230 V
5814110000			-	-
5814111500			12 V	-
5814111200			-	24 V
5814111100			24 V	-
5814111600			48 V	-
5814111300			-	-
5814111400			-	230 V
5814111000			-	-
5814112500			12 V	-
5814112200			-	24 V
5814112100			24 V	-
5814112600			48 V	-
5814112300			-	-
5814112400			-	230 V
5814112000			-	-
5814113500			12 V	-
5814113200			-	24 V
5814113100			24 V	-
5814113600			48 V	-
5814113300			-	-
5814113400			-	230 V
5814113000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814110500	-	-10% / +10%	-	-
5814110200	-	-	-10% / +10%	-
5814110100	-	-10% / +10%	-	-
5814110600	-	-10% / +10%	-	-
5814110300	110 V	-	-	-10% / +10%
5814110400	-	-	-10% / +10%	-
5814110000	-	-	-	-
5814111500	-	-10% / +10%	-	-
5814111200	-	-	-10% / +10%	-
5814111100	-	-10% / +10%	-	-
5814111600	-	-10% / +10%	-	-
5814111300	110 V	-	-	-10% / +10%



Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814111400	-	-	-10% / +10%	-
5814111000	-	-	-	-
5814112500	-	-10% / +10%	-	-
5814112200	-	-	-10% / +10%	-
5814112100	-	-10% / +10%	-	-
5814112600	-	-10% / +10%	-	-
5814112300	110 V	-	-	-10% / +10%
5814112400	-	-	-10% / +10%	-
5814112000	-	-	-	-
5814113500	-	-10% / +10%	-	-
5814113200	-	-	-10% / +10%	-
5814113100	-	-10% / +10%	-	-
5814113600	-	-10% / +10%	-	-
5814113300	110 V	-	-	-10% / +10%
5814113400	-	-	-10% / +10%	-
5814113000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5814110500	5 W	-	-	-
5814110200	-	8 VA	-	10 VA
5814110100	5 W	-	-	-
5814110600	5 W	-	-	-
5814110300	-	-	8 VA	-
5814110400	-	8 VA	-	10 VA
5814110000	-	-	-	-
5814111500	5 W	-	-	-
5814111200	-	8 VA	-	10 VA
5814111100	5 W	-	-	-
5814111600	5 W	-	-	-
5814111300	-	-	8 VA	-
5814111400	-	8 VA	-	10 VA
5814111000	-	-	-	-
5814112500	5 W	-	-	-
5814112200	-	8 VA	-	10 VA
5814112100	5 W	-	-	-
5814112600	5 W	-	-	-
5814112300	-	-	8 VA	-
5814112400	-	8 VA	-	10 VA
5814112000	-	-	-	-
5814113500	5 W	-	-	-
5814113200	-	8 VA	-	10 VA
5814113100	5 W	-	-	-
5814113600	5 W	-	-	-
5814113300	-	-	8 VA	-
5814113400	-	8 VA	-	10 VA
5814113000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5814110500	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110200	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110100	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110600	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5814110400	-	Internal	3 ... 10 bar	Plug Form B, industry
5814110000	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111500	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111200	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111100	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111600	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5814111400	-	Internal	3 ... 10 bar	Plug Form B, industry
5814111000	-	Internal	3 ... 10 bar	Plug Form B, industry
5814112500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814112400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814112000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814113400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814113000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814110500	-	-
5814110200	-	-
5814110100	-	-
5814110600	-	-
5814110300	-	-
5814110400	-	-
5814110000	Basic valve without coil	-
5814111500	-	with throttle
5814111200	-	with throttle
5814111100	-	with throttle
5814111600	-	with throttle
5814111300	-	with throttle
5814111400	-	with throttle
5814111000	Basic valve without coil	with throttle
5814112500	-	-
5814112200	-	-

Part No.	basic valve with electrical connector	Throttle
5814112100	-	-
5814112600	-	-
5814112300	-	-
5814112400	-	-
5814112000	Basic valve without coil	-
5814113500	-	with throttle
5814113200	-	with throttle
5814113100	-	with throttle
5814113600	-	with throttle
5814113300	-	with throttle
5814113400	-	with throttle
5814113000	Basic valve without coil	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.

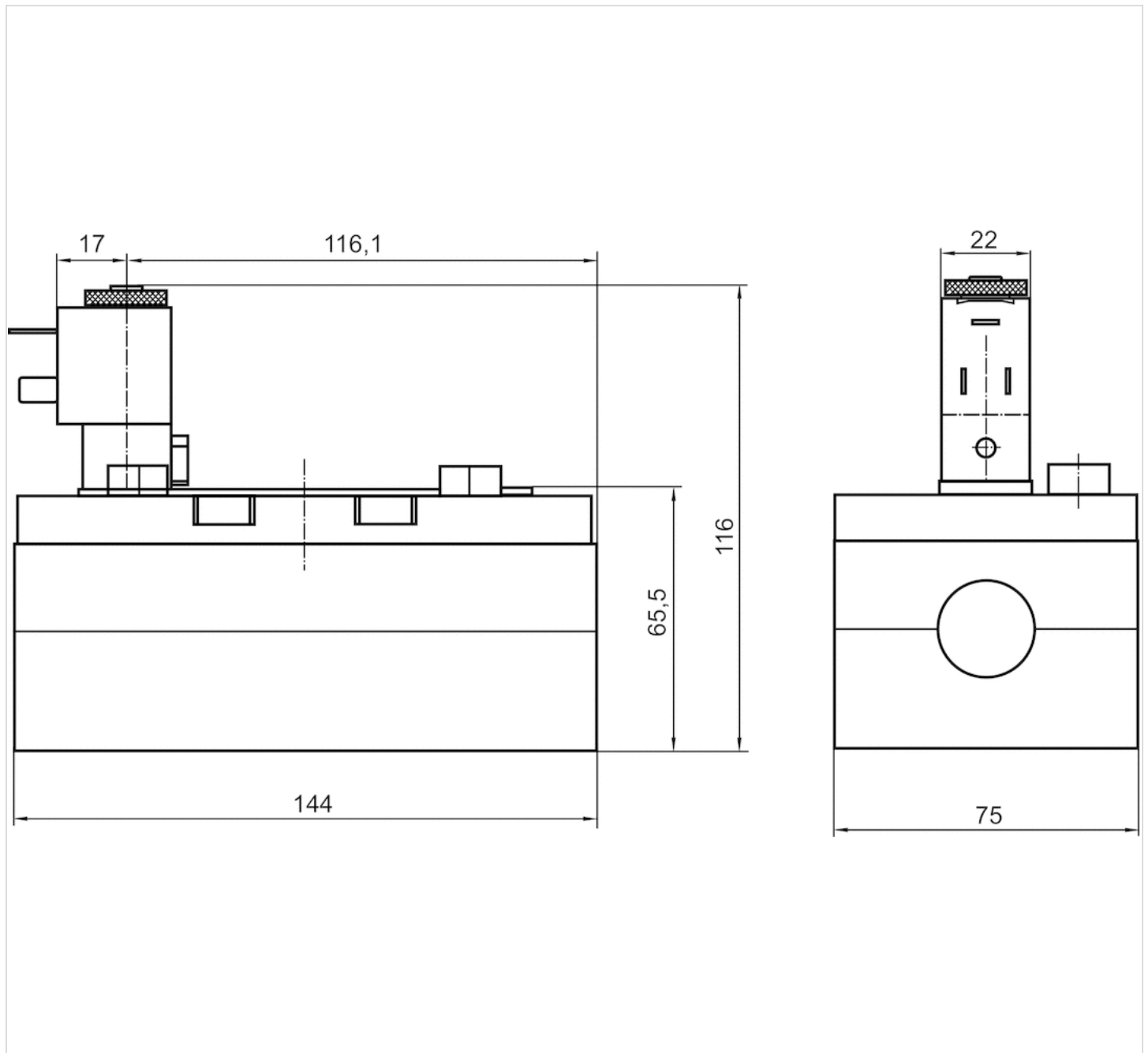
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

























































## 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	23 ms
Typ. switch-off time	64 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,36 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814610500			12 V	-
5814610200			-	24 V
5814610100			24 V	-
5814610600			48 V	-
5814610300			-	-
5814610400			-	230 V
5814610000			-	-
5814611500			12 V	-
5814611200			-	24 V
5814611100			24 V	-
5814611600			48 V	-
5814611300			-	-
5814611400			-	230 V
5814611000			-	-
5814612500			12 V	-
5814612200			-	24 V
5814612100			24 V	-
5814612600			48 V	-
5814612300			-	-
5814612400			-	230 V
5814612000			-	-
5814613500			12 V	-
5814613200			-	24 V
5814613100			24 V	-
5814613600			48 V	-
5814613300			-	-
5814613400			-	230 V
5814613000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814610500	-	-10% / +10%	-	-
5814610200	-	-	-10% / +10%	-
5814610100	-	-10% / +10%	-	-
5814610600	-	-10% / +10%	-	-
5814610300	110 V	-	-	-10% / +10%
5814610400	-	-	-10% / +10%	-
5814610000	-	-	-	-
5814611500	-	-10% / +10%	-	-
5814611200	-	-	-10% / +10%	-
5814611100	-	-10% / +10%	-	-
5814611600	-	-10% / +10%	-	-
5814611300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814611400	-	-	-10% / +10%	-
5814611000	-	-	-	-
5814612500	-	-10% / +10%	-	-
5814612200	-	-	-10% / +10%	-
5814612100	-	-10% / +10%	-	-
5814612600	-	-10% / +10%	-	-
5814612300	110 V	-	-	-10% / +10%
5814612400	-	-	-10% / +10%	-
5814612000	-	-	-	-
5814613500	-	-10% / +10%	-	-
5814613200	-	-	-10% / +10%	-
5814613100	-	-10% / +10%	-	-
5814613600	-	-10% / +10%	-	-
5814613300	110 V	-	-	-10% / +10%
5814613400	-	-	-10% / +10%	-
5814613000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5814610500	5 W	-	-	-
5814610200	-	8 VA	-	10 VA
5814610100	5 W	-	-	-
5814610600	5 W	-	-	-
5814610300	-	-	8 VA	-
5814610400	-	8 VA	-	10 VA
5814610000	-	-	-	-
5814611500	5 W	-	-	-
5814611200	-	8 VA	-	10 VA
5814611100	5 W	-	-	-
5814611600	5 W	-	-	-
5814611300	-	-	8 VA	-
5814611400	-	8 VA	-	10 VA
5814611000	-	-	-	-
5814612500	5 W	-	-	-
5814612200	-	8 VA	-	10 VA
5814612100	5 W	-	-	-
5814612600	5 W	-	-	-
5814612300	-	-	8 VA	-
5814612400	-	8 VA	-	10 VA
5814612000	-	-	-	-
5814613500	5 W	-	-	-
5814613200	-	8 VA	-	10 VA
5814613100	5 W	-	-	-
5814613600	5 W	-	-	-
5814613300	-	-	8 VA	-
5814613400	-	8 VA	-	10 VA
5814613000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5814610500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814610000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814611000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814612500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814612200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814612100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814612600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814612300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814612400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814612000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814613400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814613000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814610500	-	-
5814610200	-	-
5814610100	-	-
5814610600	-	-
5814610300	-	-
5814610400	-	-
5814610000	Basic valve without coil	-
5814611500	-	with throttle
5814611200	-	with throttle
5814611100	-	with throttle
5814611600	-	with throttle
5814611300	-	with throttle
5814611400	-	with throttle
5814611000	Basic valve without coil	with throttle
5814612500	-	-
5814612200	-	-



Part No.	basic valve with electrical connector	Throttle
5814612100	-	-
5814612600	-	-
5814612300	-	-
5814612400	-	-
5814612000	Basic valve without coil	-
5814613500	-	with throttle
5814613200	-	with throttle
5814613100	-	with throttle
5814613600	-	with throttle
5814613300	-	with throttle
5814613400	-	with throttle
5814613000	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

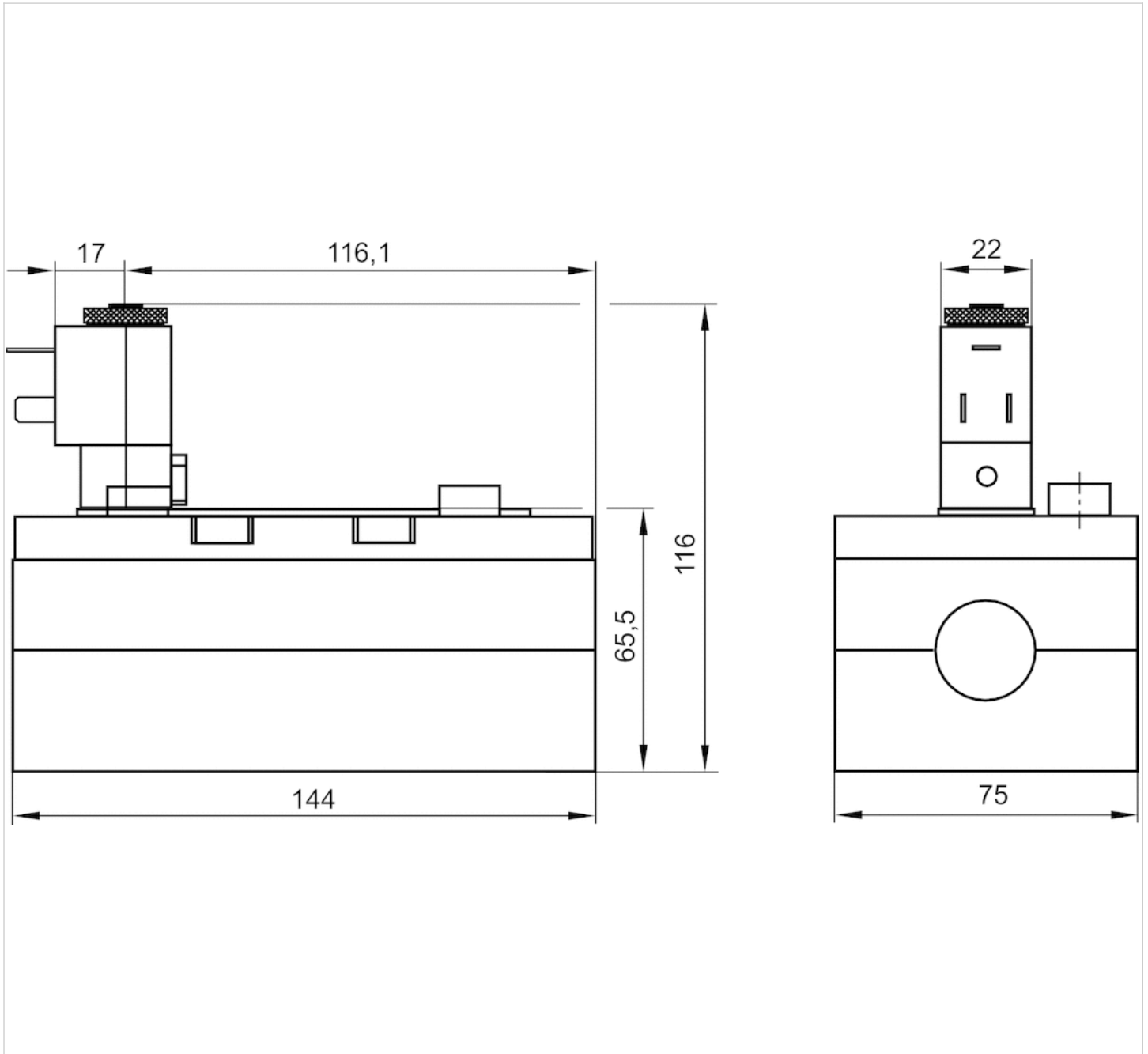
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

























































## 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	16 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814220500			12 V	-
5814220200			-	24 V
5814220100			24 V	-
5814220600			48 V	-
5814220300			-	-
5814220400			-	230 V
5814220000			-	-
5814221500			12 V	-
5814221200			-	24 V
5814221100			24 V	-
5814221600			48 V	-
5814221300			-	-
5814221400			-	230 V
5814221000			-	-
5814222500			12 V	-
5814222200			-	24 V
5814222100			24 V	-
5814222600			48 V	-
5814222300			-	-
5814222400			-	230 V
5814222000			-	-
5814223500			12 V	-
5814223200			-	24 V
5814223100			24 V	-
5814223600			48 V	-
5814223300			-	-
5814223400			-	230 V
5814223000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814220500	-	-10% / +10%	-	-
5814220200	-	-	-10% / +10%	-
5814220100	-	-10% / +10%	-	-
5814220600	-	-10% / +10%	-	-
5814220300	110 V	-	-	-10% / +10%
5814220400	-	-	-10% / +10%	-
5814220000	-	-	-	-
5814221500	-	-10% / +10%	-	-
5814221200	-	-	-10% / +10%	-
5814221100	-	-10% / +10%	-	-
5814221600	-	-10% / +10%	-	-
5814221300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5814221400	-	-	-10% / +10%	-
5814221000	-	-	-	-
5814222500	-	-10% / +10%	-	-
5814222200	-	-	-10% / +10%	-
5814222100	-	-10% / +10%	-	-
5814222600	-	-10% / +10%	-	-
5814222300	110 V	-	-	-10% / +10%
5814222400	-	-	-10% / +10%	-
5814222000	-	-	-	-
5814223500	-	-10% / +10%	-	-
5814223200	-	-	-10% / +10%	-
5814223100	-	-10% / +10%	-	-
5814223600	-	-10% / +10%	-	-
5814223300	110 V	-	-	-10% / +10%
5814223400	-	-	-10% / +10%	-
5814223000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5814220500	5 W	-	-	-
5814220200	-	8 VA	-	10 VA
5814220100	5 W	-	-	-
5814220600	5 W	-	-	-
5814220300	-	-	8 VA	-
5814220400	-	8 VA	-	10 VA
5814220000	-	-	-	-
5814221500	5 W	-	-	-
5814221200	-	8 VA	-	10 VA
5814221100	5 W	-	-	-
5814221600	5 W	-	-	-
5814221300	-	-	8 VA	-
5814221400	-	8 VA	-	10 VA
5814221000	-	-	-	-
5814222500	5 W	-	-	-
5814222200	-	8 VA	-	10 VA
5814222100	5 W	-	-	-
5814222600	5 W	-	-	-
5814222300	-	-	8 VA	-
5814222400	-	8 VA	-	10 VA
5814222000	-	-	-	-
5814223500	5 W	-	-	-
5814223200	-	8 VA	-	10 VA
5814223100	5 W	-	-	-
5814223600	5 W	-	-	-
5814223300	-	-	8 VA	-
5814223400	-	8 VA	-	10 VA
5814223000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5814220500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814220000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814221000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5814222500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814222200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814222100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814222600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814222300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814222400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814222000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5814223400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5814223000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814220500	-	-
5814220200	-	-
5814220100	-	-
5814220600	-	-
5814220300	-	-
5814220400	-	-
5814220000	Basic valve without coil	-
5814221500	-	with throttle
5814221200	-	with throttle
5814221100	-	with throttle
5814221600	-	with throttle
5814221300	-	with throttle
5814221400	-	with throttle
5814221000	Basic valve without coil	with throttle
5814222500	-	-
5814222200	-	-

Part No.	basic valve with electrical connector	Throttle
5814222100	-	-
5814222600	-	-
5814222300	-	-
5814222400	-	-
5814222000	Basic valve without coil	-
5814223500	-	with throttle
5814223200	-	with throttle
5814223100	-	with throttle
5814223600	-	with throttle
5814223300	-	with throttle
5814223400	-	with throttle
5814223000	Basic valve without coil	with throttle

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.

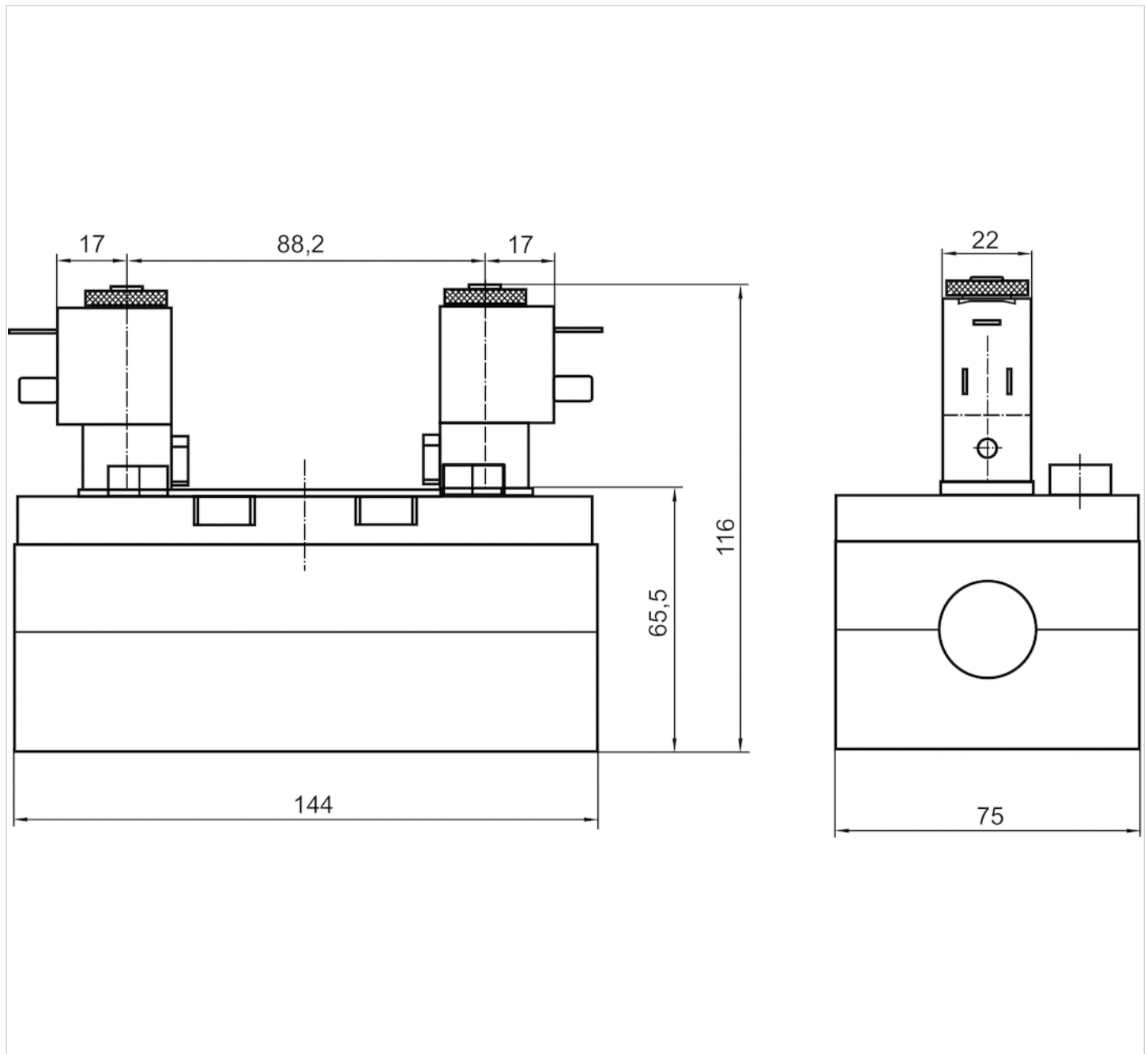
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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



## 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center
- closed center
- $Q_n = 5000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	30 ms
Typ. switch-off time	74 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

## Technical data

Part No.		MO		Operational voltage DC
5814420500			closed center	12 V
5814420200			closed center	-
5814420100			closed center	24 V
5814420600			closed center	48 V
5814420300			closed center	-
5814420400			closed center	-
5814420000			closed center	-
5814421500			closed center	12 V
5814421200			closed center	-
5814421100			closed center	24 V
5814421600			closed center	48 V
5814421300			closed center	-
5814421400			closed center	-
5814421000			closed center	-
5814422500			closed center	12 V
5814422200			closed center	-
5814422100			closed center	24 V
5814422600			closed center	48 V
5814422300			closed center	-
5814422400			closed center	-
5814422000			closed center	-
5814423500			closed center	12 V
5814423200			closed center	-
5814423100			closed center	24 V
5814423600			closed center	48 V
5814423300			closed center	-
5814423400			closed center	-
5814423000			closed center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814420500	-	-	-10% / +10%
5814420200	24 V	-	-
5814420100	-	-	-10% / +10%
5814420600	-	-	-10% / +10%
5814420300	-	110 V	-
5814420400	230 V	-	-
5814420000	-	-	-
5814421500	-	-	-10% / +10%
5814421200	24 V	-	-
5814421100	-	-	-10% / +10%
5814421600	-	-	-10% / +10%
5814421300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814421400	230 V	-	-
5814421000	-	-	-
5814422500	-	-	-10% / +10%
5814422200	24 V	-	-
5814422100	-	-	-10% / +10%
5814422600	-	-	-10% / +10%
5814422300	-	110 V	-
5814422400	230 V	-	-
5814422000	-	-	-
5814423500	-	-	-10% / +10%
5814423200	24 V	-	-
5814423100	-	-	-10% / +10%
5814423600	-	-	-10% / +10%
5814423300	-	110 V	-
5814423400	230 V	-	-
5814423000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814420500	-	-	5 W	-
5814420200	-10% / +10%	-	-	8 VA
5814420100	-	-	5 W	-
5814420600	-	-	5 W	-
5814420300	-	-10% / +10%	-	-
5814420400	-10% / +10%	-	-	8 VA
5814420000	-	-	-	-
5814421500	-	-	5 W	-
5814421200	-10% / +10%	-	-	8 VA
5814421100	-	-	5 W	-
5814421600	-	-	5 W	-
5814421300	-	-10% / +10%	-	-
5814421400	-10% / +10%	-	-	8 VA
5814421000	-	-	-	-
5814422500	-	-	5 W	-
5814422200	-10% / +10%	-	-	8 VA
5814422100	-	-	5 W	-
5814422600	-	-	5 W	-
5814422300	-	-10% / +10%	-	-
5814422400	-10% / +10%	-	-	8 VA
5814422000	-	-	-	-
5814423500	-	-	5 W	-
5814423200	-10% / +10%	-	-	8 VA
5814423100	-	-	5 W	-
5814423600	-	-	5 W	-
5814423300	-	-10% / +10%	-	-
5814423400	-10% / +10%	-	-	8 VA
5814423000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5814420500	-	-	-	Internal
5814420200	-	10 VA	-	Internal
5814420100	-	-	-	Internal
5814420600	-	-	-	Internal
5814420300	8 VA	-	10 VA	Internal
5814420400	-	10 VA	-	Internal
5814420000	-	-	-	Internal
5814421500	-	-	-	Internal
5814421200	-	10 VA	-	Internal
5814421100	-	-	-	Internal
5814421600	-	-	-	Internal
5814421300	8 VA	-	10 VA	Internal
5814421400	-	10 VA	-	Internal
5814421000	-	-	-	Internal
5814422500	-	-	-	External
5814422200	-	10 VA	-	External
5814422100	-	-	-	External
5814422600	-	-	-	External
5814422300	8 VA	-	10 VA	External
5814422400	-	10 VA	-	External
5814422000	-	-	-	External
5814423500	-	-	-	External
5814423200	-	10 VA	-	External
5814423100	-	-	-	External
5814423600	-	-	-	External
5814423300	8 VA	-	10 VA	External
5814423400	-	10 VA	-	External
5814423000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814420500	3 ... 10 bar	Plug Form B, industry
5814420200	3 ... 10 bar	Plug Form B, industry
5814420100	3 ... 10 bar	Plug Form B, industry
5814420600	3 ... 10 bar	Plug Form B, industry
5814420300	3 ... 10 bar	Plug Form B, industry
5814420400	3 ... 10 bar	Plug Form B, industry
5814420000	3 ... 10 bar	Plug Form B, industry
5814421500	3 ... 10 bar	Plug Form B, industry
5814421200	3 ... 10 bar	Plug Form B, industry
5814421100	3 ... 10 bar	Plug Form B, industry
5814421600	3 ... 10 bar	Plug Form B, industry
5814421300	3 ... 10 bar	Plug Form B, industry
5814421400	3 ... 10 bar	Plug Form B, industry
5814421000	3 ... 10 bar	Plug Form B, industry
5814422500	-0,95 ... 10 bar	Plug Form B, industry
5814422200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814422100	-0,95 ... 10 bar	Plug Form B, industry
5814422600	-0,95 ... 10 bar	Plug Form B, industry
5814422300	-0,95 ... 10 bar	Plug Form B, industry
5814422400	-0,95 ... 10 bar	Plug Form B, industry
5814422000	-0,95 ... 10 bar	Plug Form B, industry
5814423500	-0,95 ... 10 bar	Plug Form B, industry
5814423200	-0,95 ... 10 bar	Plug Form B, industry
5814423100	-0,95 ... 10 bar	Plug Form B, industry
5814423600	-0,95 ... 10 bar	Plug Form B, industry
5814423300	-0,95 ... 10 bar	Plug Form B, industry
5814423400	-0,95 ... 10 bar	Plug Form B, industry
5814423000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814420500	-	-
5814420200	-	-
5814420100	-	-
5814420600	-	-
5814420300	-	-
5814420400	-	-
5814420000	Basic valve without coil	-
5814421500	-	with throttle
5814421200	-	with throttle
5814421100	-	with throttle
5814421600	-	with throttle
5814421300	-	with throttle
5814421400	-	with throttle
5814421000	Basic valve without coil	with throttle
5814422500	-	-
5814422200	-	-
5814422100	-	-
5814422600	-	-
5814422300	-	-
5814422400	-	-
5814422000	Basic valve without coil	-
5814423500	-	with throttle
5814423200	-	with throttle
5814423100	-	with throttle
5814423600	-	with throttle
5814423300	-	with throttle
5814423400	-	with throttle
5814423000	Basic valve without coil	with throttle

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.

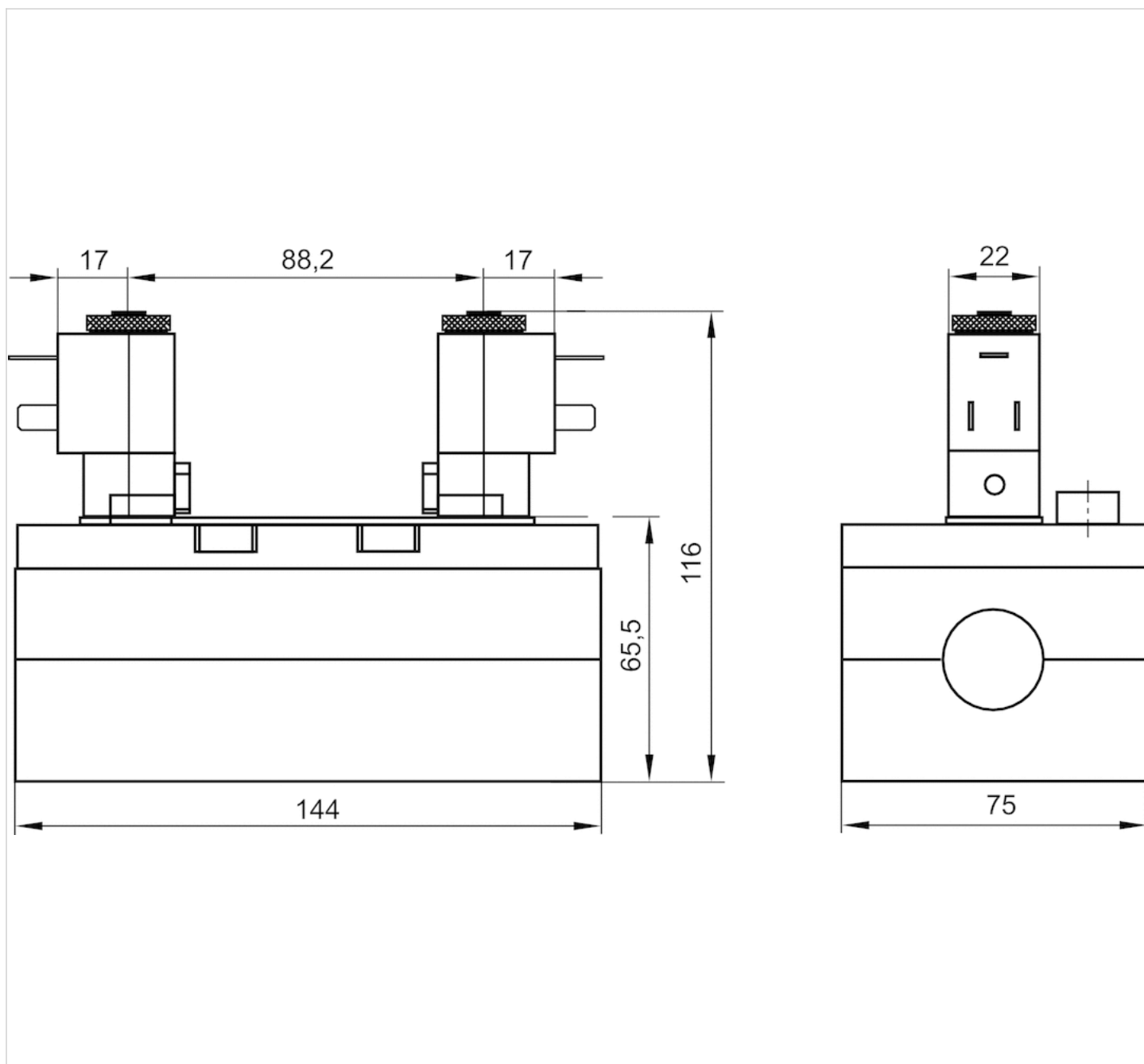
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

## 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- exhausted center
- exhausted center
- $Q_n = 5000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	30 ms
Typ. switch-off time	74 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg



## Technical data

Part No.		MO		Operational voltage DC
5814520500			exhausted center	12 V
5814520200			exhausted center	-
5814520100			exhausted center	24 V
5814520600			exhausted center	48 V
5814520300			exhausted center	-
5814520400			exhausted center	-
5814520000			exhausted center	-
5814521500			exhausted center	12 V
5814521200			exhausted center	-
5814521100			exhausted center	24 V
5814521600			exhausted center	48 V
5814521300			exhausted center	-
5814521400			exhausted center	-
5814521000			exhausted center	-
5814522500			exhausted center	12 V
5814522200			exhausted center	-
5814522100			exhausted center	24 V
5814522600			exhausted center	48 V
5814522300			exhausted center	-
5814522400			exhausted center	-
5814522000			exhausted center	-
5814523500			exhausted center	12 V
5814523200			exhausted center	-
5814523100			exhausted center	24 V
5814523600			exhausted center	48 V
5814523300			exhausted center	-
5814523400			exhausted center	-
5814523000			exhausted center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814520500	-	-	-10% / +10%
5814520200	24 V	-	-
5814520100	-	-	-10% / +10%
5814520600	-	-	-10% / +10%
5814520300	-	110 V	-
5814520400	230 V	-	-
5814520000	-	-	-
5814521500	-	-	-10% / +10%
5814521200	24 V	-	-
5814521100	-	-	-10% / +10%
5814521600	-	-	-10% / +10%
5814521300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814521400	230 V	-	-
5814521000	-	-	-
5814522500	-	-	-10% / +10%
5814522200	24 V	-	-
5814522100	-	-	-10% / +10%
5814522600	-	-	-10% / +10%
5814522300	-	110 V	-
5814522400	230 V	-	-
5814522000	-	-	-
5814523500	-	-	-10% / +10%
5814523200	24 V	-	-
5814523100	-	-	-10% / +10%
5814523600	-	-	-10% / +10%
5814523300	-	110 V	-
5814523400	230 V	-	-
5814523000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814520500	-	-	5 W	-
5814520200	-10% / +10%	-	-	8 VA
5814520100	-	-	5 W	-
5814520600	-	-	5 W	-
5814520300	-	-10% / +10%	-	-
5814520400	-10% / +10%	-	-	8 VA
5814520000	-	-	-	-
5814521500	-	-	5 W	-
5814521200	-10% / +10%	-	-	8 VA
5814521100	-	-	5 W	-
5814521600	-	-	5 W	-
5814521300	-	-10% / +10%	-	-
5814521400	-10% / +10%	-	-	8 VA
5814521000	-	-	-	-
5814522500	-	-	5 W	-
5814522200	-10% / +10%	-	-	8 VA
5814522100	-	-	5 W	-
5814522600	-	-	5 W	-
5814522300	-	-10% / +10%	-	-
5814522400	-10% / +10%	-	-	8 VA
5814522000	-	-	-	-
5814523500	-	-	5 W	-
5814523200	-10% / +10%	-	-	8 VA
5814523100	-	-	5 W	-
5814523600	-	-	5 W	-
5814523300	-	-10% / +10%	-	-
5814523400	-10% / +10%	-	-	8 VA
5814523000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5814520500	-	-	-	Internal
5814520200	-	10 VA	-	Internal
5814520100	-	-	-	Internal
5814520600	-	-	-	Internal
5814520300	8 VA	-	10 VA	Internal
5814520400	-	10 VA	-	Internal
5814520000	-	-	-	Internal
5814521500	-	-	-	Internal
5814521200	-	10 VA	-	Internal
5814521100	-	-	-	Internal
5814521600	-	-	-	Internal
5814521300	8 VA	-	10 VA	Internal
5814521400	-	10 VA	-	Internal
5814521000	-	-	-	Internal
5814522500	-	-	-	External
5814522200	-	10 VA	-	External
5814522100	-	-	-	External
5814522600	-	-	-	External
5814522300	8 VA	-	10 VA	External
5814522400	-	10 VA	-	External
5814522000	-	-	-	External
5814523500	-	-	-	External
5814523200	-	10 VA	-	External
5814523100	-	-	-	External
5814523600	-	-	-	External
5814523300	8 VA	-	10 VA	External
5814523400	-	10 VA	-	External
5814523000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814520500	3 ... 10 bar	Plug Form B, industry
5814520200	3 ... 10 bar	Plug Form B, industry
5814520100	3 ... 10 bar	Plug Form B, industry
5814520600	3 ... 10 bar	Plug Form B, industry
5814520300	3 ... 10 bar	Plug Form B, industry
5814520400	3 ... 10 bar	Plug Form B, industry
5814520000	3 ... 10 bar	Plug Form B, industry
5814521500	3 ... 10 bar	Plug Form B, industry
5814521200	3 ... 10 bar	Plug Form B, industry
5814521100	3 ... 10 bar	Plug Form B, industry
5814521600	3 ... 10 bar	Plug Form B, industry
5814521300	3 ... 10 bar	Plug Form B, industry
5814521400	3 ... 10 bar	Plug Form B, industry
5814521000	3 ... 10 bar	Plug Form B, industry
5814522500	-0,95 ... 10 bar	Plug Form B, industry
5814522200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814522100	-0,95 ... 10 bar	Plug Form B, industry
5814522600	-0,95 ... 10 bar	Plug Form B, industry
5814522300	-0,95 ... 10 bar	Plug Form B, industry
5814522400	-0,95 ... 10 bar	Plug Form B, industry
5814522000	-0,95 ... 10 bar	Plug Form B, industry
5814523500	-0,95 ... 10 bar	Plug Form B, industry
5814523200	-0,95 ... 10 bar	Plug Form B, industry
5814523100	-0,95 ... 10 bar	Plug Form B, industry
5814523600	-0,95 ... 10 bar	Plug Form B, industry
5814523300	-0,95 ... 10 bar	Plug Form B, industry
5814523400	-0,95 ... 10 bar	Plug Form B, industry
5814523000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814520500	-	-
5814520200	-	-
5814520100	-	-
5814520600	-	-
5814520300	-	-
5814520400	-	-
5814520000	Basic valve without coil	-
5814521500	-	with throttle
5814521200	-	with throttle
5814521100	-	with throttle
5814521600	-	with throttle
5814521300	-	with throttle
5814521400	-	with throttle
5814521000	Basic valve without coil	with throttle
5814522500	-	-
5814522200	-	-
5814522100	-	-
5814522600	-	-
5814522300	-	-
5814522400	-	-
5814522000	Basic valve without coil	-
5814523500	-	with throttle
5814523200	-	with throttle
5814523100	-	with throttle
5814523600	-	with throttle
5814523300	-	with throttle
5814523400	-	with throttle
5814523000	Basic valve without coil	with throttle

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.

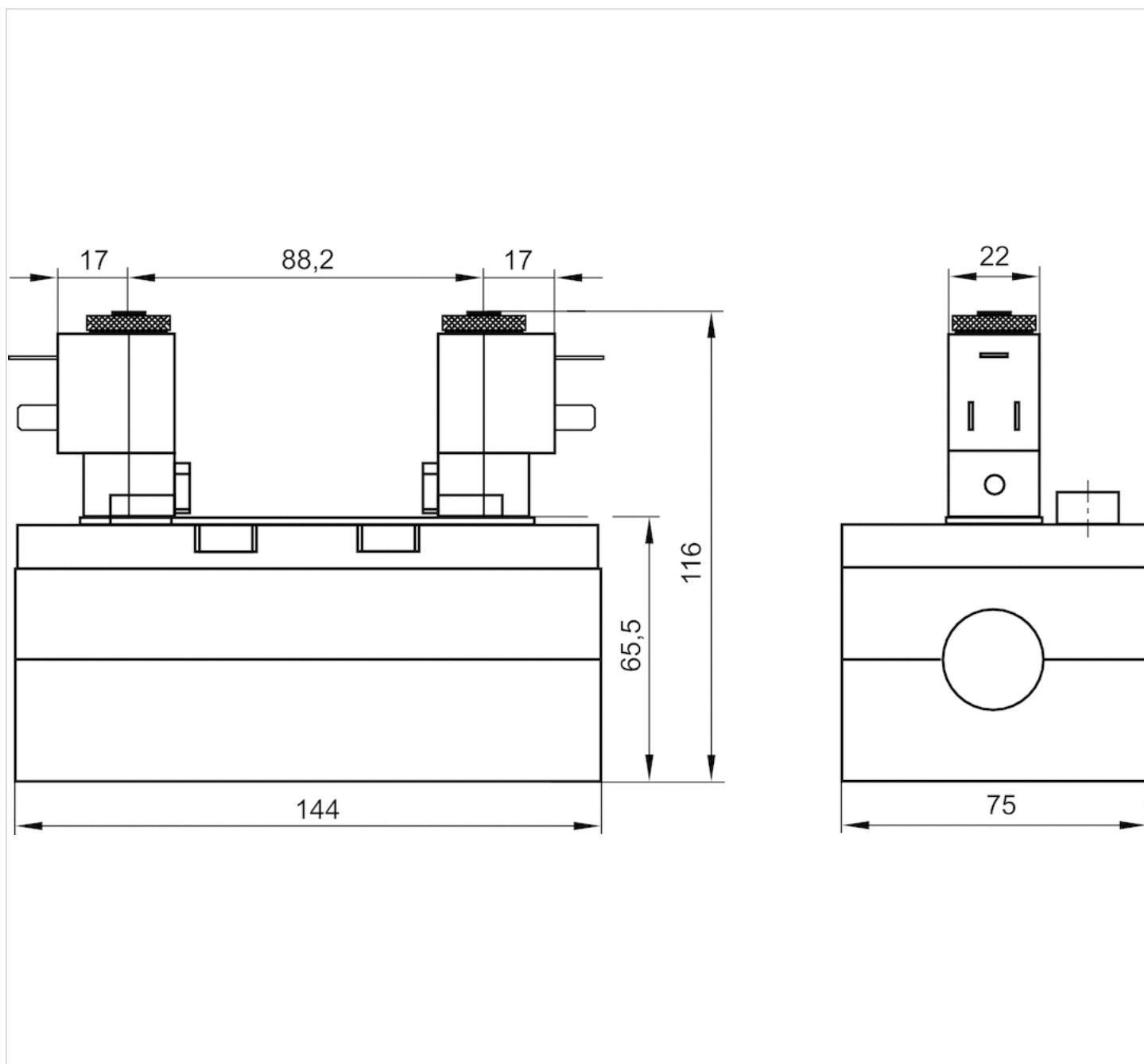
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

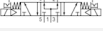

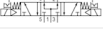

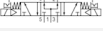

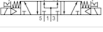

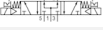

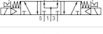



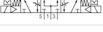

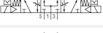

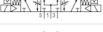

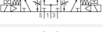

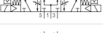

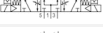



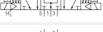

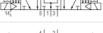

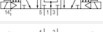

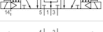







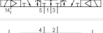

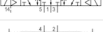

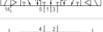

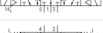

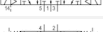

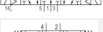

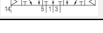

# 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- pressurized center
- $Q_n = 5000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	30 ms
Typ. switch-off time	74 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

## Technical data

Part No.		MO		Operational voltage DC
5814720500			pressurized center	12 V
5814720200			pressurized center	-
5814720100			pressurized center	24 V
5814720600			pressurized center	48 V
5814720300			pressurized center	-
5814720400			pressurized center	-
5814720000			pressurized center	-
5814721500			pressurized center	12 V
5814721200			pressurized center	-
5814721100			pressurized center	24 V
5814721600			pressurized center	48 V
5814721300			pressurized center	-
5814721400			pressurized center	-
5814721000			pressurized center	-
5814722500			pressurized center	12 V
5814722200			pressurized center	-
5814722100			pressurized center	24 V
5814722600			pressurized center	48 V
5814722300			pressurized center	-
5814722400			pressurized center	-
5814722000			pressurized center	-
5814723500			pressurized center	12 V
5814723200			pressurized center	-
5814723100			pressurized center	24 V
5814723600			pressurized center	48 V
5814723300			pressurized center	-
5814723400			pressurized center	-
5814723000			pressurized center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814720500	-	-	-10% / +10%
5814720200	24 V	-	-
5814720100	-	-	-10% / +10%
5814720600	-	-	-10% / +10%
5814720300	-	110 V	-
5814720400	230 V	-	-
5814720000	-	-	-
5814721500	-	-	-10% / +10%
5814721200	24 V	-	-
5814721100	-	-	-10% / +10%
5814721600	-	-	-10% / +10%
5814721300	-	110 V	-



Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5814721400	230 V	-	-
5814721000	-	-	-
5814722500	-	-	-10% / +10%
5814722200	24 V	-	-
5814722100	-	-	-10% / +10%
5814722600	-	-	-10% / +10%
5814722300	-	110 V	-
5814722400	230 V	-	-
5814722000	-	-	-
5814723500	-	-	-10% / +10%
5814723200	24 V	-	-
5814723100	-	-	-10% / +10%
5814723600	-	-	-10% / +10%
5814723300	-	110 V	-
5814723400	230 V	-	-
5814723000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5814720500	-	-	5 W	-
5814720200	-10% / +10%	-	-	8 VA
5814720100	-	-	5 W	-
5814720600	-	-	5 W	-
5814720300	-	-10% / +10%	-	-
5814720400	-10% / +10%	-	-	8 VA
5814720000	-	-	-	-
5814721500	-	-	5 W	-
5814721200	-10% / +10%	-	-	8 VA
5814721100	-	-	5 W	-
5814721600	-	-	5 W	-
5814721300	-	-10% / +10%	-	-
5814721400	-10% / +10%	-	-	8 VA
5814721000	-	-	-	-
5814722500	-	-	5 W	-
5814722200	-10% / +10%	-	-	8 VA
5814722100	-	-	5 W	-
5814722600	-	-	5 W	-
5814722300	-	-10% / +10%	-	-
5814722400	-10% / +10%	-	-	8 VA
5814722000	-	-	-	-
5814723500	-	-	5 W	-
5814723200	-10% / +10%	-	-	8 VA
5814723100	-	-	5 W	-
5814723600	-	-	5 W	-
5814723300	-	-10% / +10%	-	-
5814723400	-10% / +10%	-	-	8 VA
5814723000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5814720500	-	-	-	Internal
5814720200	-	10 VA	-	Internal
5814720100	-	-	-	Internal
5814720600	-	-	-	Internal
5814720300	8 VA	-	10 VA	Internal
5814720400	-	10 VA	-	Internal
5814720000	-	-	-	Internal
5814721500	-	-	-	Internal
5814721200	-	10 VA	-	Internal
5814721100	-	-	-	Internal
5814721600	-	-	-	Internal
5814721300	8 VA	-	10 VA	Internal
5814721400	-	10 VA	-	Internal
5814721000	-	-	-	Internal
5814722500	-	-	-	External
5814722200	-	10 VA	-	External
5814722100	-	-	-	External
5814722600	-	-	-	External
5814722300	8 VA	-	10 VA	External
5814722400	-	10 VA	-	External
5814722000	-	-	-	External
5814723500	-	-	-	External
5814723200	-	10 VA	-	External
5814723100	-	-	-	External
5814723600	-	-	-	External
5814723300	8 VA	-	10 VA	External
5814723400	-	10 VA	-	External
5814723000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814720500	3 ... 10 bar	Plug Form B, industry
5814720200	3 ... 10 bar	Plug Form B, industry
5814720100	3 ... 10 bar	Plug Form B, industry
5814720600	3 ... 10 bar	Plug Form B, industry
5814720300	3 ... 10 bar	Plug Form B, industry
5814720400	3 ... 10 bar	Plug Form B, industry
5814720000	3 ... 10 bar	Plug Form B, industry
5814721500	3 ... 10 bar	Plug Form B, industry
5814721200	3 ... 10 bar	Plug Form B, industry
5814721100	3 ... 10 bar	Plug Form B, industry
5814721600	3 ... 10 bar	Plug Form B, industry
5814721300	3 ... 10 bar	Plug Form B, industry
5814721400	3 ... 10 bar	Plug Form B, industry
5814721000	3 ... 10 bar	Plug Form B, industry
5814722500	-0,95 ... 10 bar	Plug Form B, industry
5814722200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5814722100	-0,95 ... 10 bar	Plug Form B, industry
5814722600	-0,95 ... 10 bar	Plug Form B, industry
5814722300	-0,95 ... 10 bar	Plug Form B, industry
5814722400	-0,95 ... 10 bar	Plug Form B, industry
5814722000	-0,95 ... 10 bar	Plug Form B, industry
5814723500	-0,95 ... 10 bar	Plug Form B, industry
5814723200	-0,95 ... 10 bar	Plug Form B, industry
5814723100	-0,95 ... 10 bar	Plug Form B, industry
5814723600	-0,95 ... 10 bar	Plug Form B, industry
5814723300	-0,95 ... 10 bar	Plug Form B, industry
5814723400	-0,95 ... 10 bar	Plug Form B, industry
5814723000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5814720500	-	-
5814720200	-	-
5814720100	-	-
5814720600	-	-
5814720300	-	-
5814720400	-	-
5814720000	Basic valve without coil	-
5814721500	-	with throttle
5814721200	-	with throttle
5814721100	-	with throttle
5814721600	-	with throttle
5814721300	-	with throttle
5814721400	-	with throttle
5814721000	Basic valve without coil	with throttle
5814722500	-	-
5814722200	-	-
5814722100	-	-
5814722600	-	-
5814722300	-	-
5814722400	-	-
5814722000	Basic valve without coil	-
5814723500	-	with throttle
5814723200	-	with throttle
5814723100	-	with throttle
5814723600	-	with throttle
5814723300	-	with throttle
5814723400	-	with throttle
5814723000	Basic valve without coil	with throttle

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.

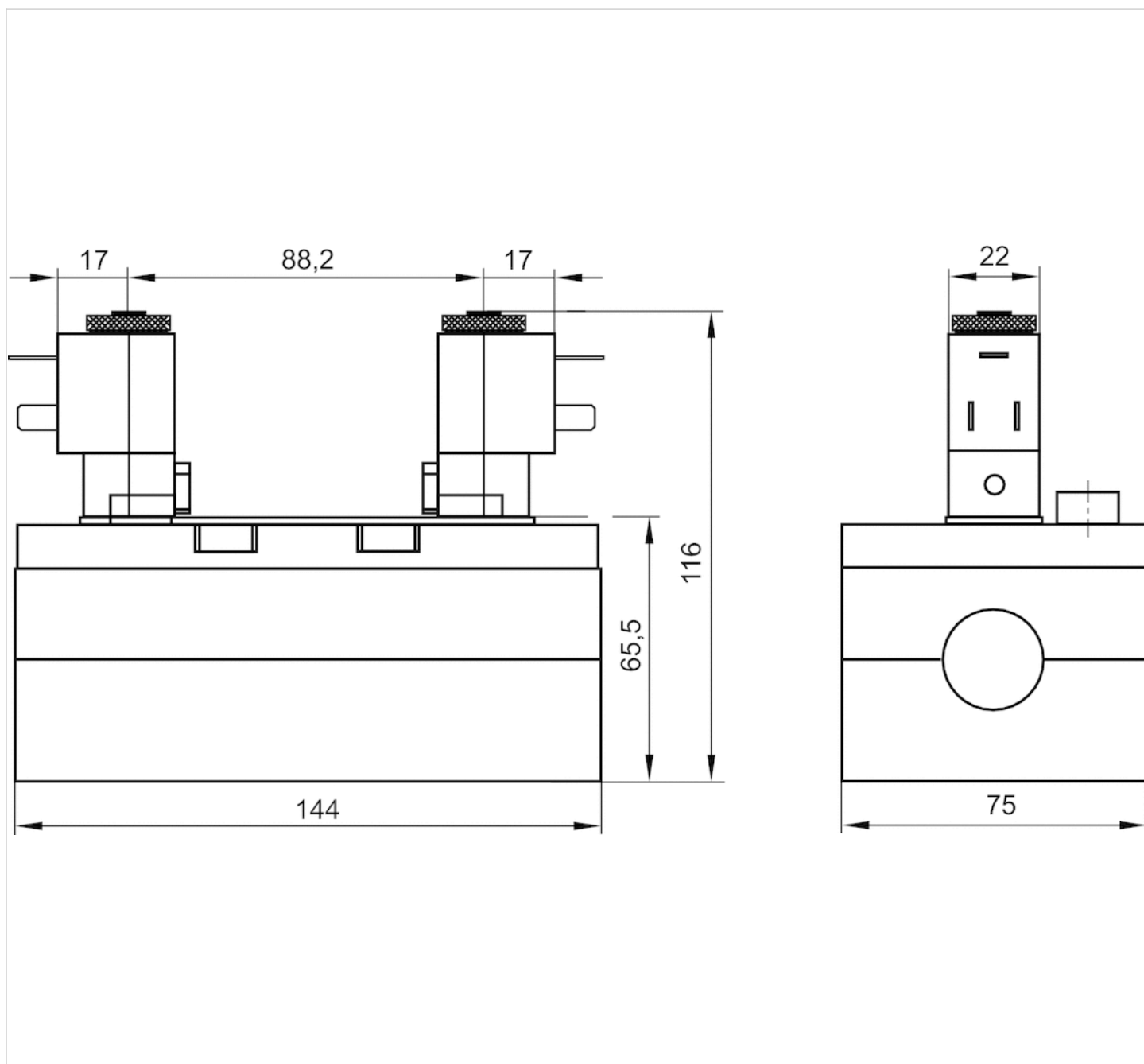
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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

















# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814170540			24 V	42 V
5814170440			-	230 V
5814171540			24 V	42 V
5814171440			-	230 V
5814172540			24 V	42 V
5814172440			-	230 V
5814173540			24 V	42 V
5814173440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5814170540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814170440	-	-10% / +10%	-	10,8 VA
5814171540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814171440	-	-10% / +10%	-	10,8 VA
5814172540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814172440	-	-10% / +10%	-	10,8 VA
5814173540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814173440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5814170540	12 VA	Internal	3 ... 16 bar
5814170440	15,2 VA	Internal	3 ... 16 bar
5814171540	12 VA	Internal	3 ... 16 bar
5814171440	15,2 VA	Internal	3 ... 16 bar
5814172540	12 VA	External	-0,95 ... 16 bar
5814172440	15,2 VA	External	-0,95 ... 16 bar
5814173540	12 VA	External	-0,95 ... 16 bar
5814173440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5814170540	Plug EN 175301-803, form A	-
5814170440	Plug EN 175301-803, form A	-
5814171540	Plug EN 175301-803, form A	with throttle
5814171440	Plug EN 175301-803, form A	with throttle
5814172540	Plug EN 175301-803, form A	-
5814172440	Plug EN 175301-803, form A	-
5814173540	Plug EN 175301-803, form A	with throttle
5814173440	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.

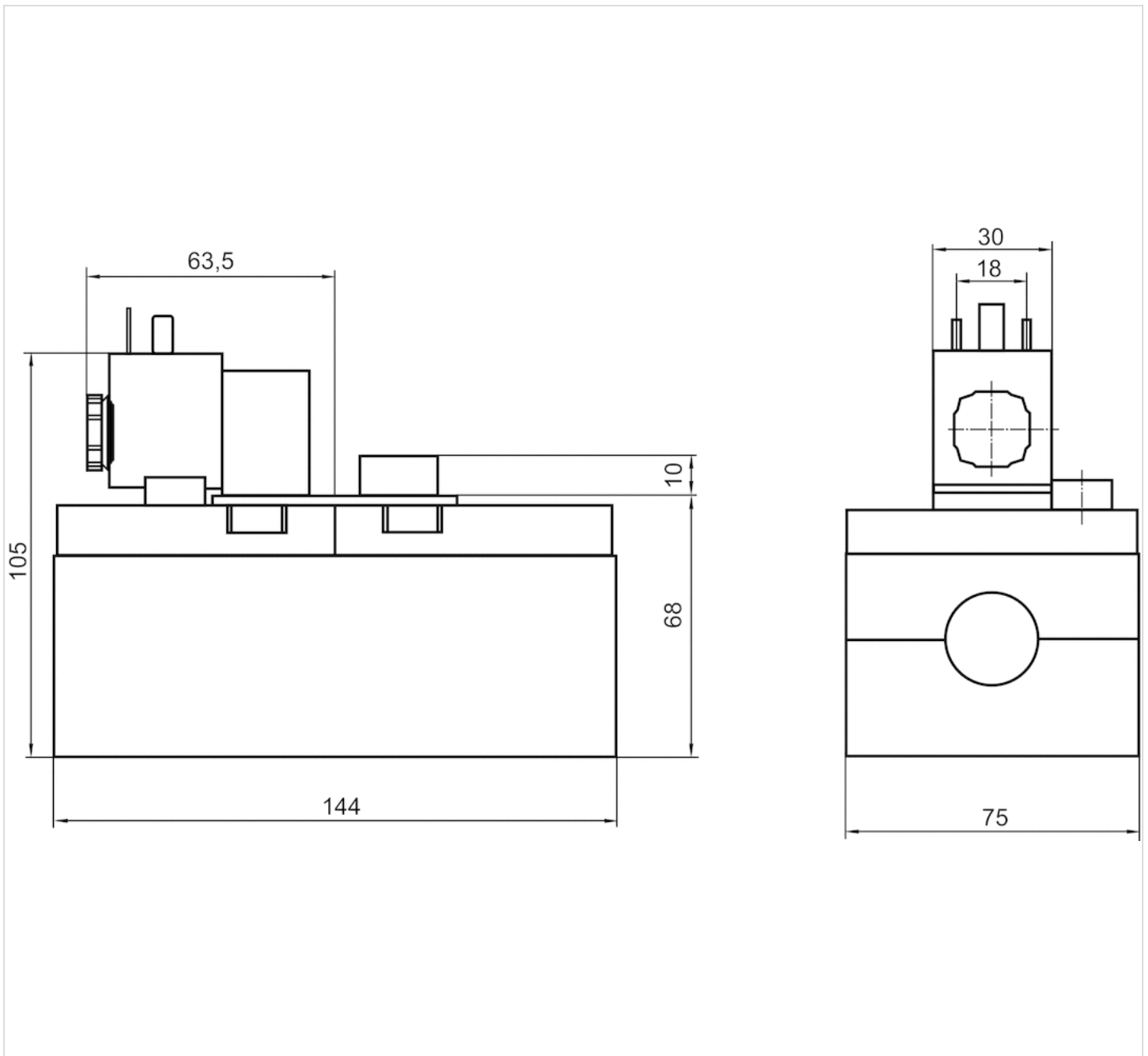
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





















# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	21 ms
Typ. switch-off time	21 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,57 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814290540			24 V	42 V
5814290440			-	230 V
5814291540			24 V	42 V
5814291440			-	230 V
5814292540			24 V	42 V
5814292440			-	230 V
5814293540			24 V	42 V
5814293440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5814290540	-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
5814290440	-	-10% / +10%	-	10,8 VA
5814291540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814291440	-	-10% / +10%	-	10,8 VA
5814292540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814292440	-	-10% / +10%	-	10,8 VA
5814293540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814293440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5814290540	12 VA	Internal	1,5 ... 16 bar
5814290440	15,2 VA	Internal	1,5 ... 16 bar
5814291540	12 VA	Internal	1,5 ... 16 bar
5814291440	15,2 VA	Internal	1,5 ... 16 bar
5814292540	12 VA	External	-0,95 ... 16 bar
5814292440	15,2 VA	External	-0,95 ... 16 bar
5814293540	12 VA	External	-0,95 ... 16 bar
5814293440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5814290540	Plug EN 175301-803, form A	-
5814290440	Plug EN 175301-803, form A	-
5814291540	Plug EN 175301-803, form A	with throttle
5814291440	Plug EN 175301-803, form A	with throttle
5814292540	Plug EN 175301-803, form A	-
5814292440	Plug EN 175301-803, form A	-
5814293540	Plug EN 175301-803, form A	with throttle
5814293440	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.

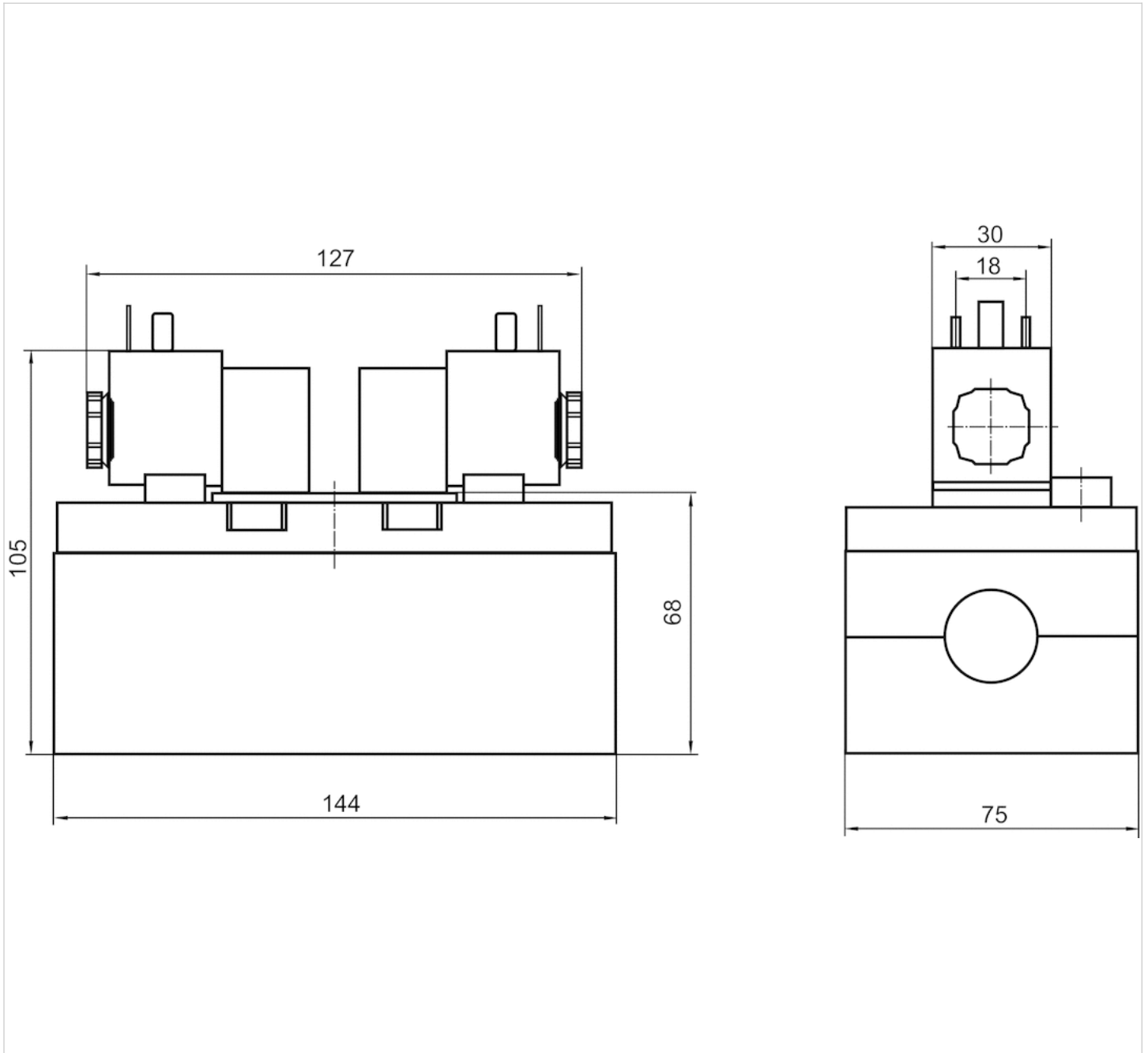
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



















# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 kg

## Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5814670540			24 V	42 V
5814670440			-	230 V
5814671540			24 V	42 V
5814671440			-	230 V
5814672540			24 V	42 V
5814672440			-	230 V
5814673540			24 V	42 V
5814673440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5814670540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814670440	-	-10% / +10%	-	10,8 VA
5814671540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814671440	-	-10% / +10%	-	10,8 VA
5814672540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814672440	-	-10% / +10%	-	10,8 VA
5814673540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5814673440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5814670540	12 VA	Internal	1,5 ... 16 bar
5814670440	15,2 VA	Internal	1,5 ... 16 bar
5814671540	12 VA	Internal	1,5 ... 16 bar
5814671440	15,2 VA	Internal	1,5 ... 16 bar
5814672540	12 VA	External	-0,95 ... 16 bar
5814672440	15,2 VA	External	-0,95 ... 16 bar
5814673540	12 VA	External	-0,95 ... 16 bar
5814673440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5814670540	Plug EN 175301-803, form A	-
5814670440	Plug EN 175301-803, form A	-
5814671540	Plug EN 175301-803, form A	with throttle
5814671440	Plug EN 175301-803, form A	with throttle
5814672540	Plug EN 175301-803, form A	-
5814672440	Plug EN 175301-803, form A	-
5814673540	Plug EN 175301-803, form A	with throttle
5814673440	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

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.

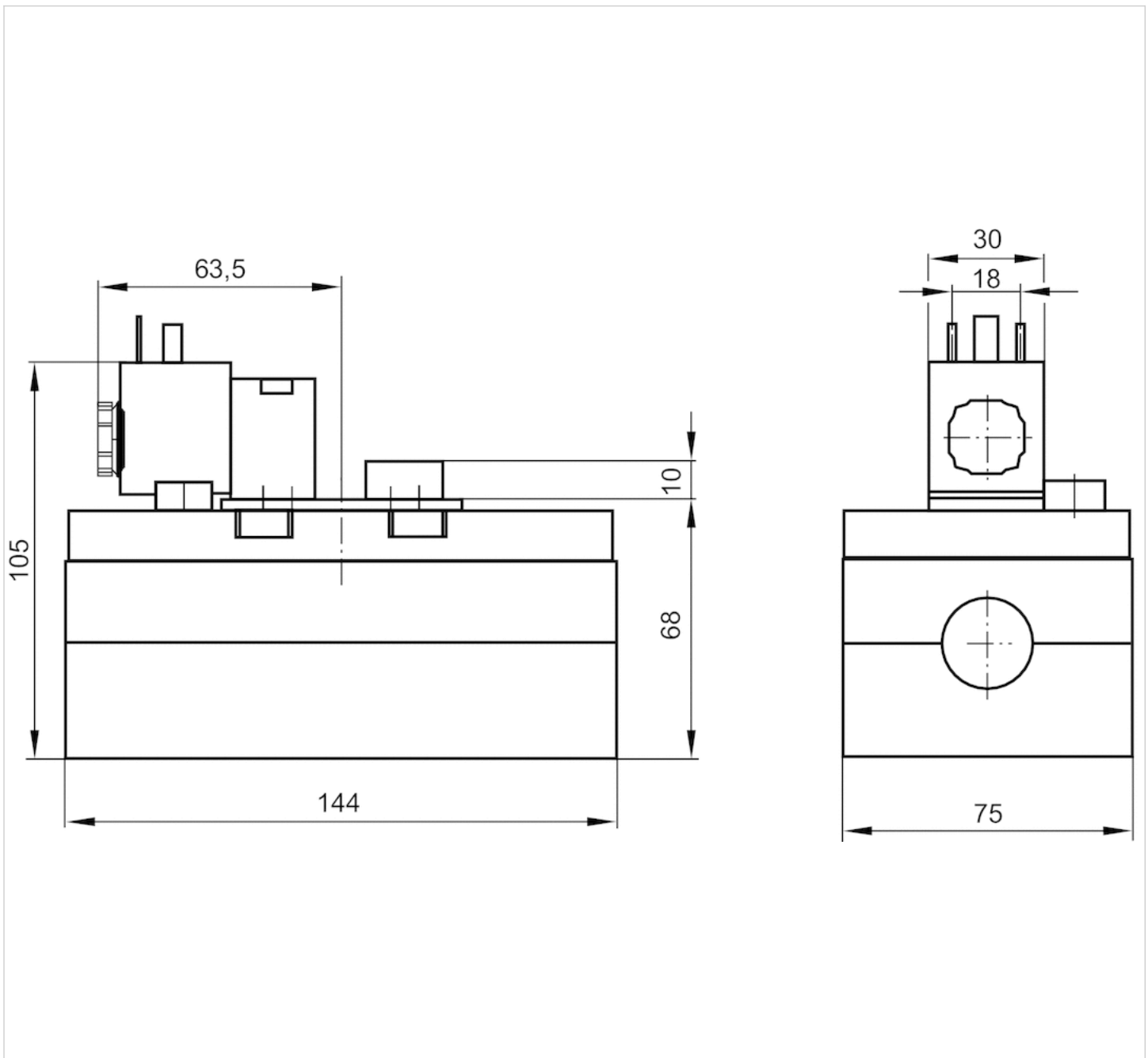
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



## 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 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.

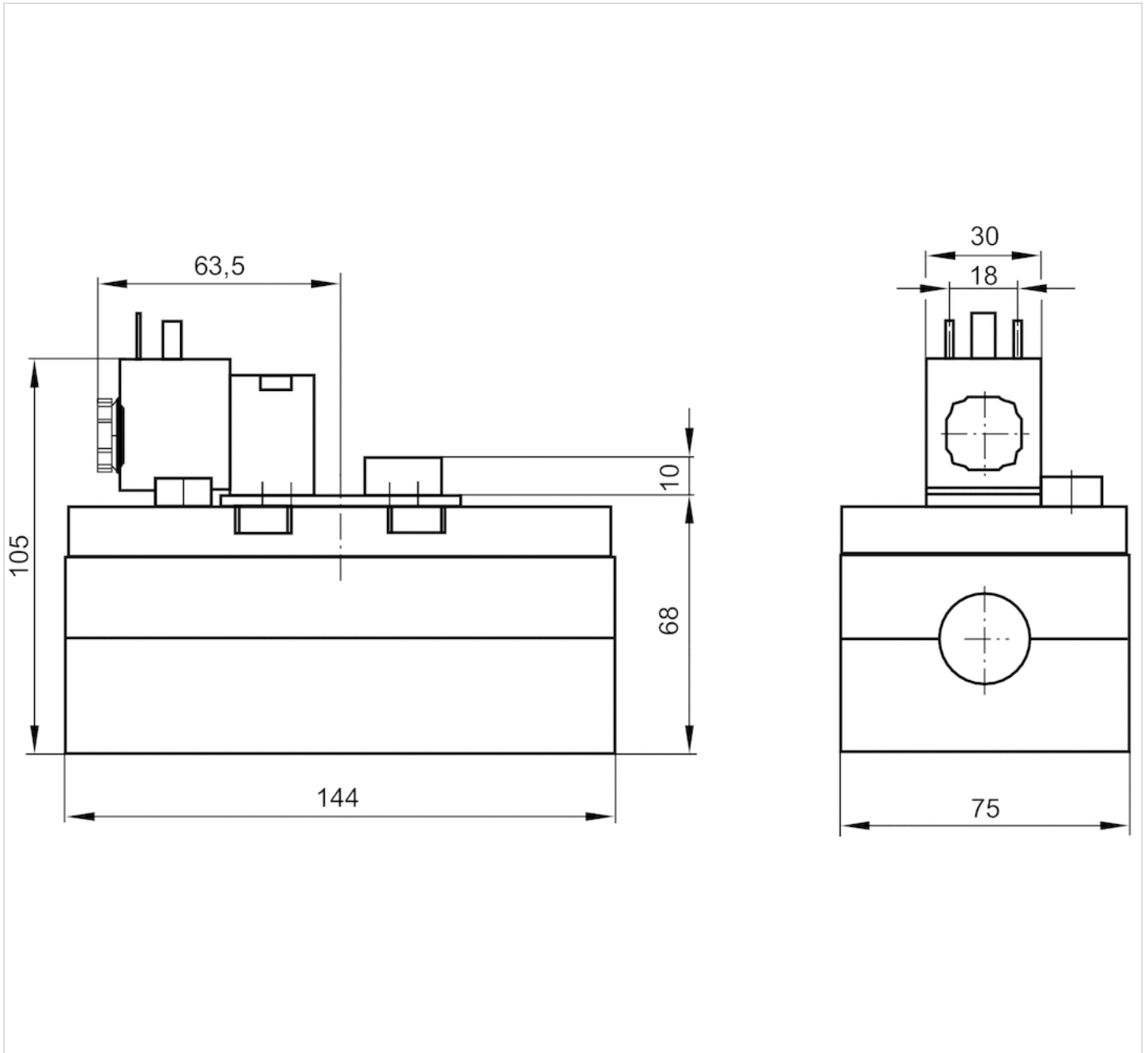
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions





Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5814290650	-10% / +10%	-	2 W	-
5814290450	-	-10% / +10%	-	4,8 VA
5814291650	-10% / +10%	-	2 W	-
5814291450	-	-10% / +10%	-	4,8 VA
5814292650	-10% / +10%	-	2 W	-
5814292450	-	-10% / +10%	-	4,8 VA
5814293650	-10% / +10%	-	2 W	-
5814293450	-	-10% / +10%	-	4,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.	Compatibility index
5814290650	-	Internal	1,5 ... 10 bar	14
5814290450	7 VA	Internal	1,5 ... 10 bar	14
5814291650	-	Internal	1,5 ... 10 bar	14
5814291450	7 VA	Internal	1,5 ... 10 bar	14
5814292650	-	External	-0,95 ... 10 bar	14
5814292450	7 VA	External	-0,95 ... 10 bar	14
5814293650	-	External	-0,95 ... 10 bar	14
5814293450	7 VA	External	-0,95 ... 10 bar	14

Part No.	Electrical connection Pilot valve	Throttle
5814290650	Plug EN 175301-803, form A	-
5814290450	Plug EN 175301-803, form A	-
5814291650	Plug EN 175301-803, form A	with throttle
5814291450	Plug EN 175301-803, form A	with throttle
5814292650	Plug EN 175301-803, form A	-
5814292450	Plug EN 175301-803, form A	-
5814293650	Plug EN 175301-803, form A	with throttle
5814293450	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.

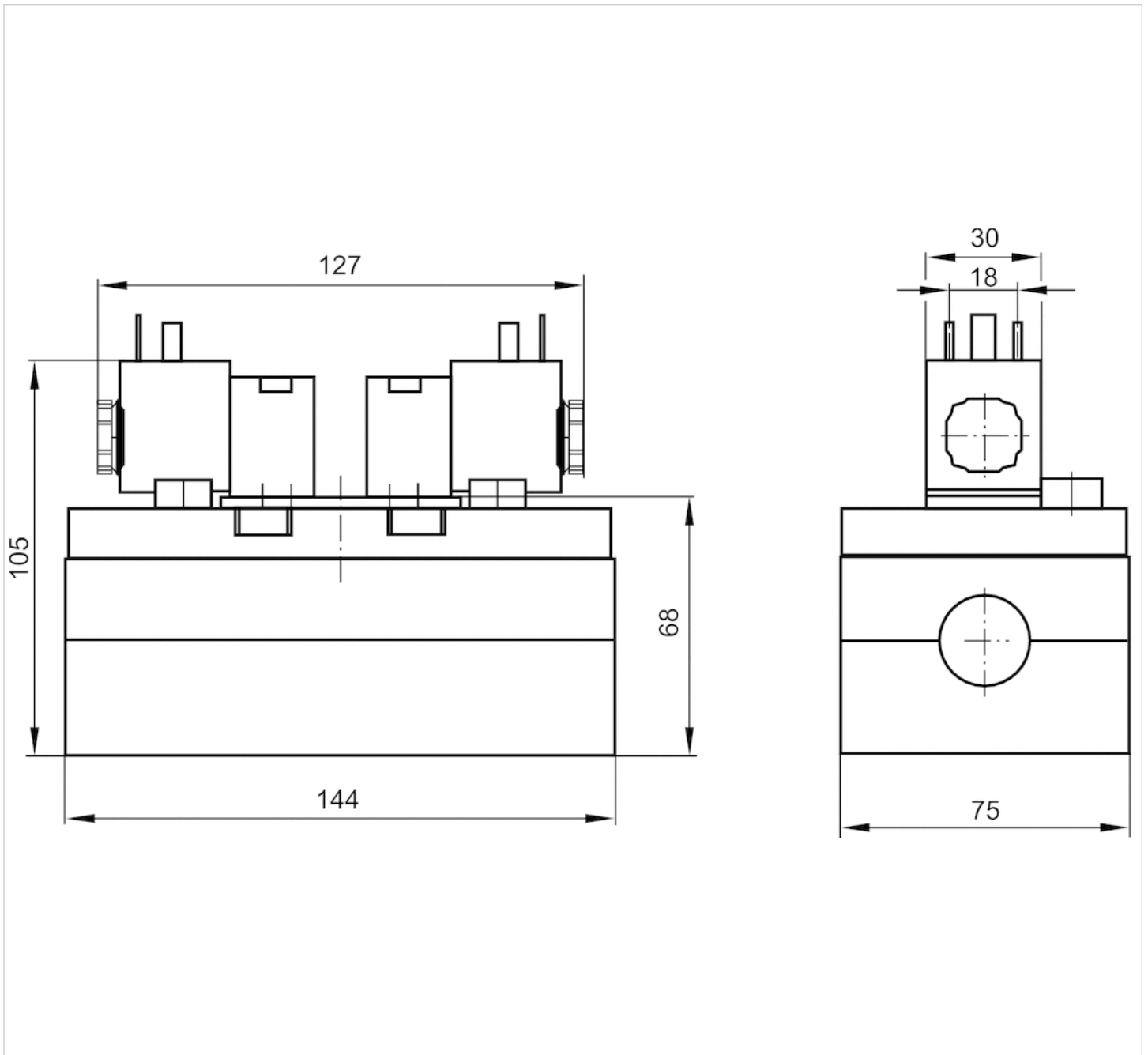
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



## 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 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).

Differential piston, signal 14 has priority

The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

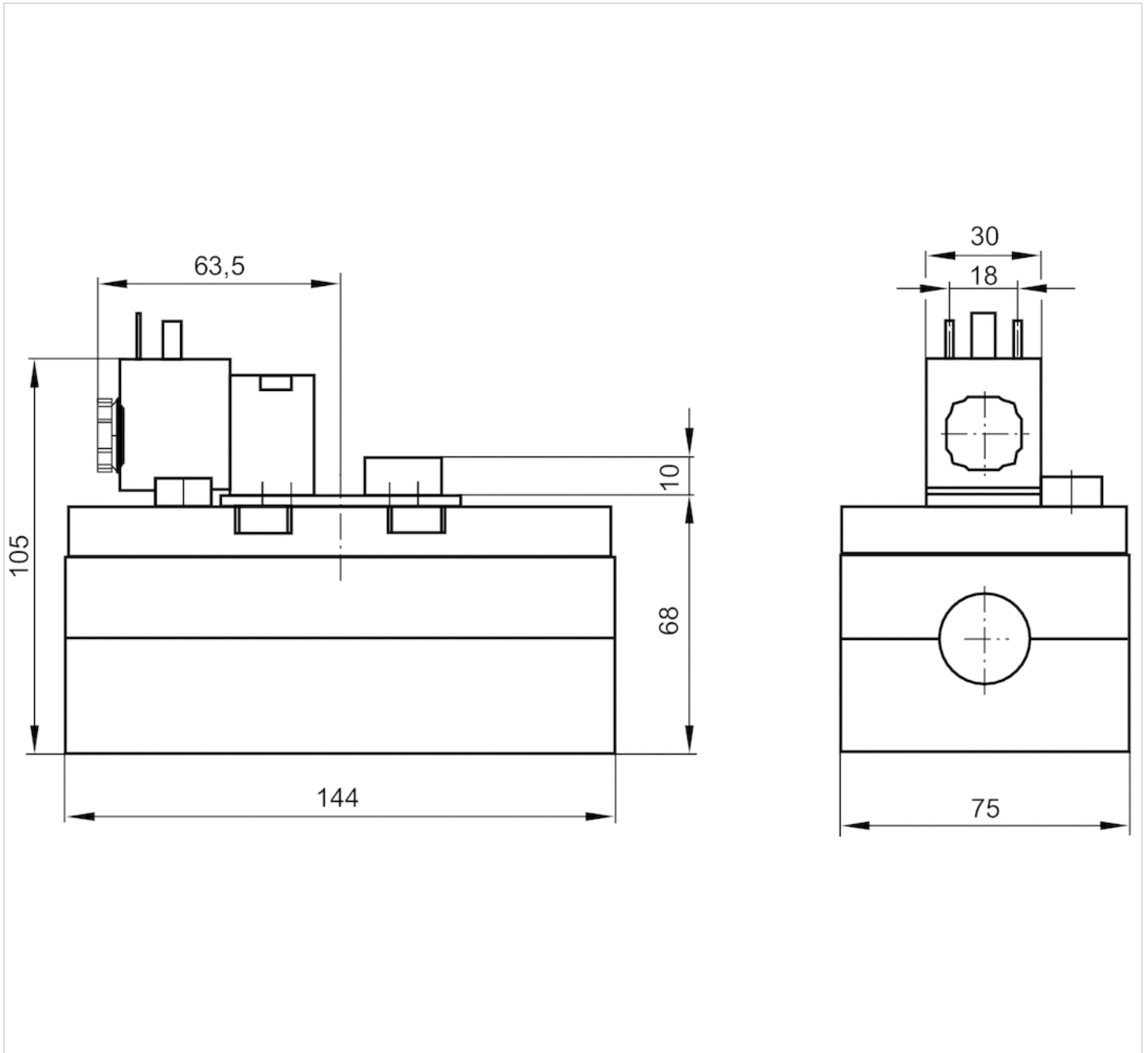
## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber



## Dimensions

### Dimensions











# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	21 ms
Typ. switch-off time	21 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,57 kg

## Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5814290530		24 V	-	-10% / +10%
5814290430		-	230 V	-
5814291530		24 V	-	-10% / +10%
5814291430		-	230 V	-
5814292530		24 V	-	-10% / +10%
5814292430		-	230 V	-
5814293530		24 V	-	-10% / +10%
5814293430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5814290530	-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
5814290430	-10% / +10%	-	10,8 VA	15,2 VA
5814291530	-10% / +10%	6,7 W	-	-
5814291430	-10% / +10%	-	10,8 VA	15,2 VA
5814292530	-10% / +10%	6,7 W	-	-
5814292430	-10% / +10%	-	10,8 VA	15,2 VA
5814293530	-10% / +10%	6,7 W	-	-
5814293430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5814290530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5814290430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5814291530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814291430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814292530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814292430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814293530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814293430	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.

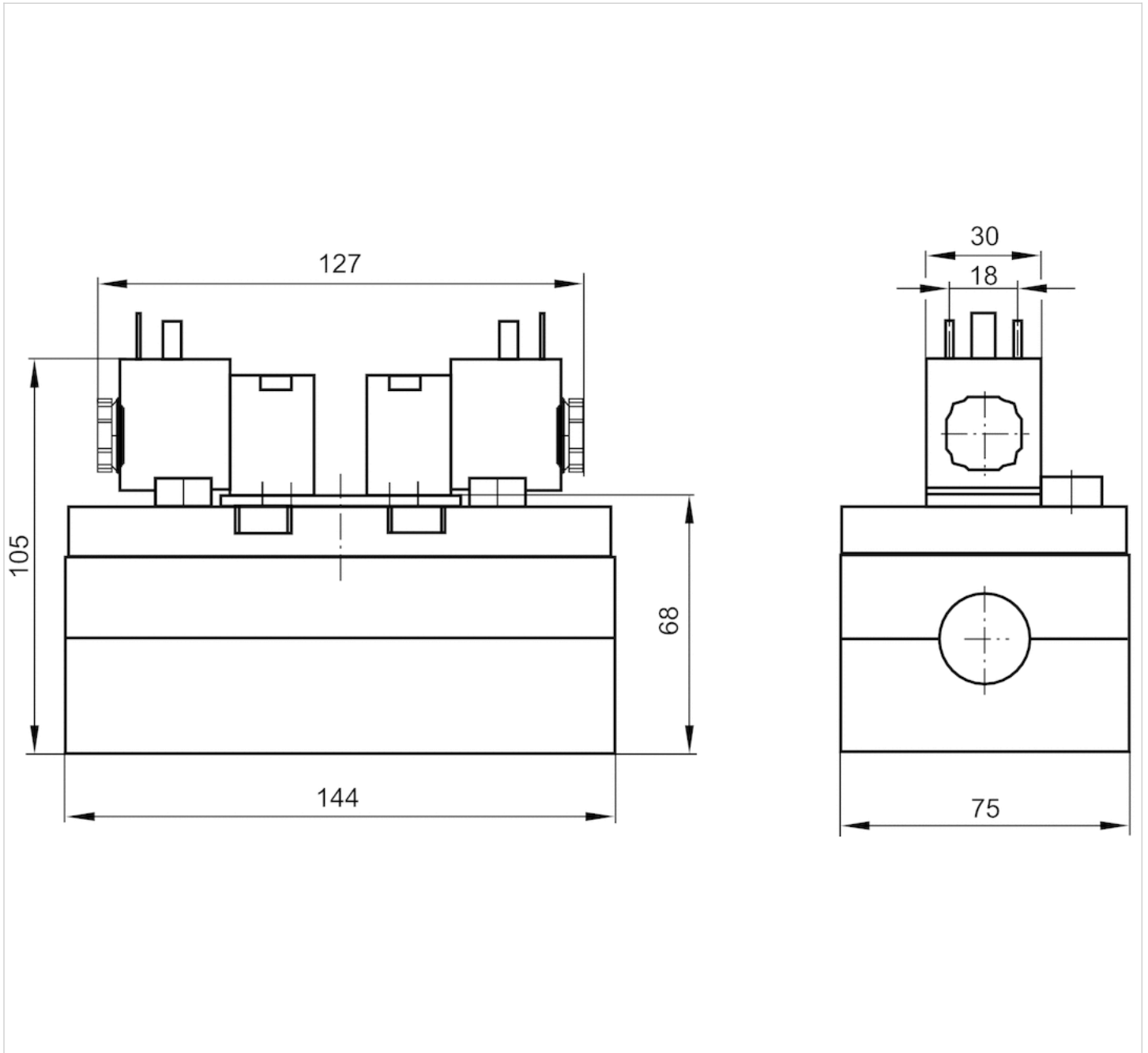
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions











# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 kg

## Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5814670530		24 V	-	-10% / +10%
5814670430		-	230 V	-
5814671530		24 V	-	-10% / +10%
5814671430		-	230 V	-
5814672530		24 V	-	-10% / +10%
5814672430		-	230 V	-
5814673530		24 V	-	-10% / +10%
5814673430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5814670530	-10% / +10%	6,7 W	-	-
5814670430	-10% / +10%	-	10,8 VA	15,2 VA
5814671530	-10% / +10%	6,7 W	-	-
5814671430	-10% / +10%	-	10,8 VA	15,2 VA
5814672530	-10% / +10%	6,7 W	-	-
5814672430	-10% / +10%	-	10,8 VA	15,2 VA
5814673530	-10% / +10%	6,7 W	-	-
5814673430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5814670530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5814670430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	-
5814671530	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814671430	Internal	1,5 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814672530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814672430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814673530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814673430	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  $\Delta p = 1$  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.

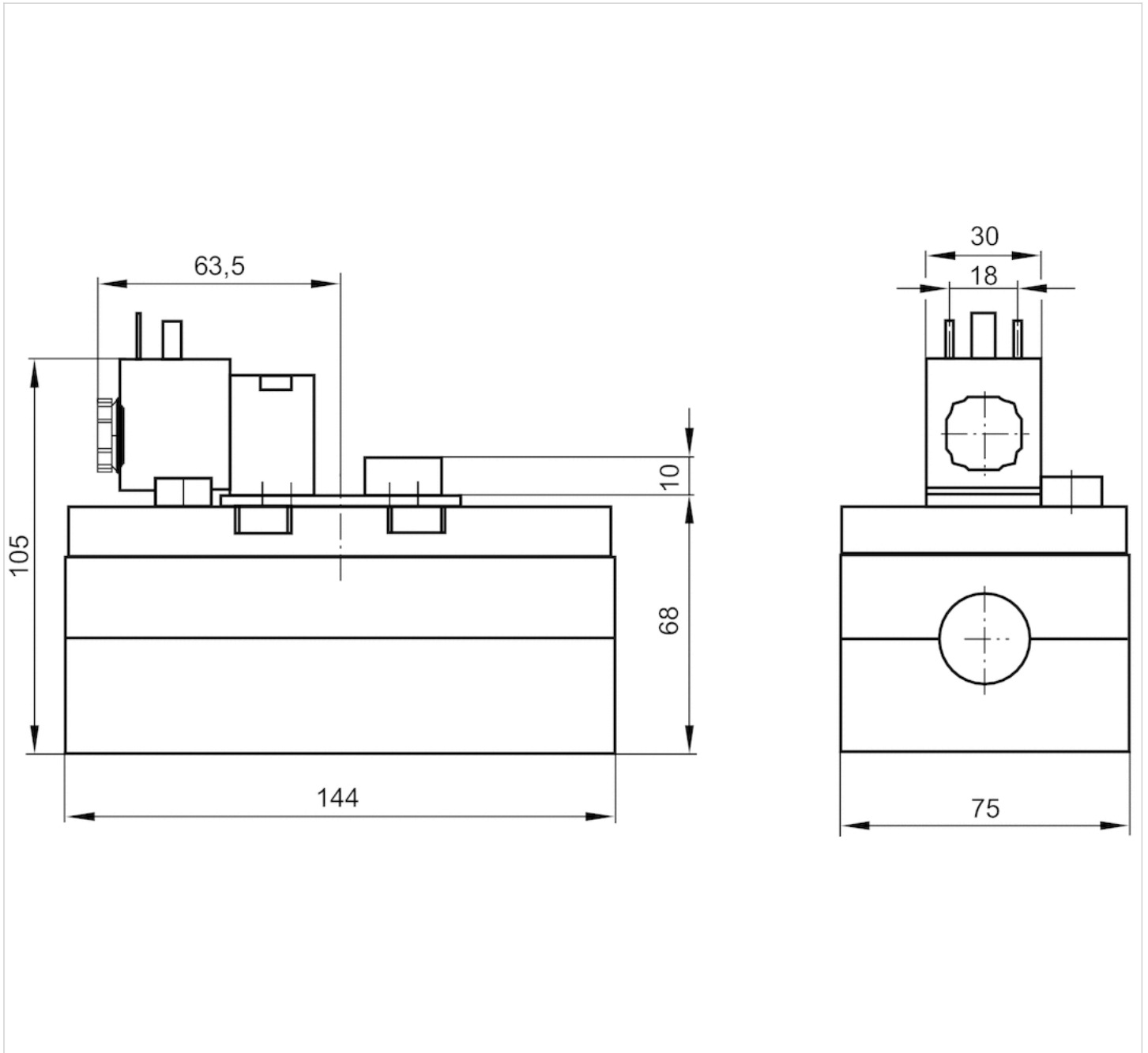
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions











# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,4 kg

## Technical data

Part No.		Operational voltage DC	Operational voltage AC 50 Hz	Voltage tolerance DC
5814170530		24 V	-	-10% / +10%
5814170430		-	230 V	-
5814171530		24 V	-	-10% / +10%
5814171430		-	230 V	-
5814172530		24 V	-	-10% / +10%
5814172430		-	230 V	-
5814173530		24 V	-	-10% / +10%
5814173430		-	230 V	-



Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5814170530	-10% / +10%	6,7 W	-	-
5814170430	-10% / +10%	-	10,8 VA	15,2 VA
5814171530	-10% / +10%	6,7 W	-	-
5814171430	-10% / +10%	-	10,8 VA	15,2 VA
5814172530	-10% / +10%	6,7 W	-	-
5814172430	-10% / +10%	-	10,8 VA	15,2 VA
5814173530	-10% / +10%	6,7 W	-	-
5814173430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5814170530	Internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5814170430	Internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5814171530	Internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814171430	Internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814172530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814172430	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814173530	External	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814173430	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.

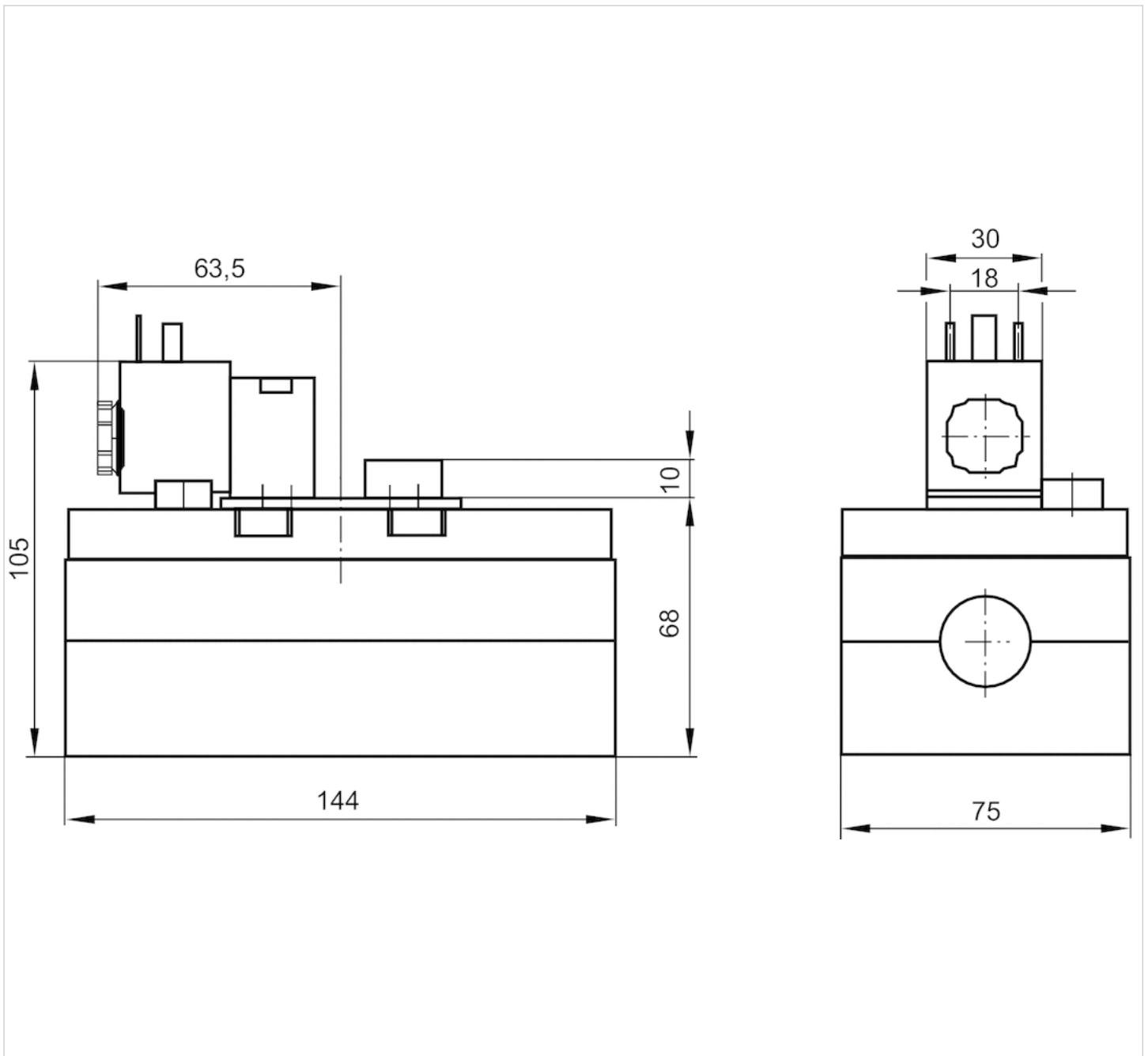
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions











# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	21 ms
Typ. switch-off time	21 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,65 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814290190			24 V	-10% / +10%
5814291190			24 V	-10% / +10%
5814292190			24 V	-10% / +10%
5814293190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5814290190	6 W	Internal	1,5 ... 10 bar
5814291190	6 W	Internal	1,5 ... 10 bar
5814292190	6 W	External	-0,95 ... 10 bar
5814293190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5814290190	Plug EN 175301-803, form A	-
5814291190	Plug EN 175301-803, form A	with throttle
5814292190	Plug EN 175301-803, form A	-
5814293190	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.

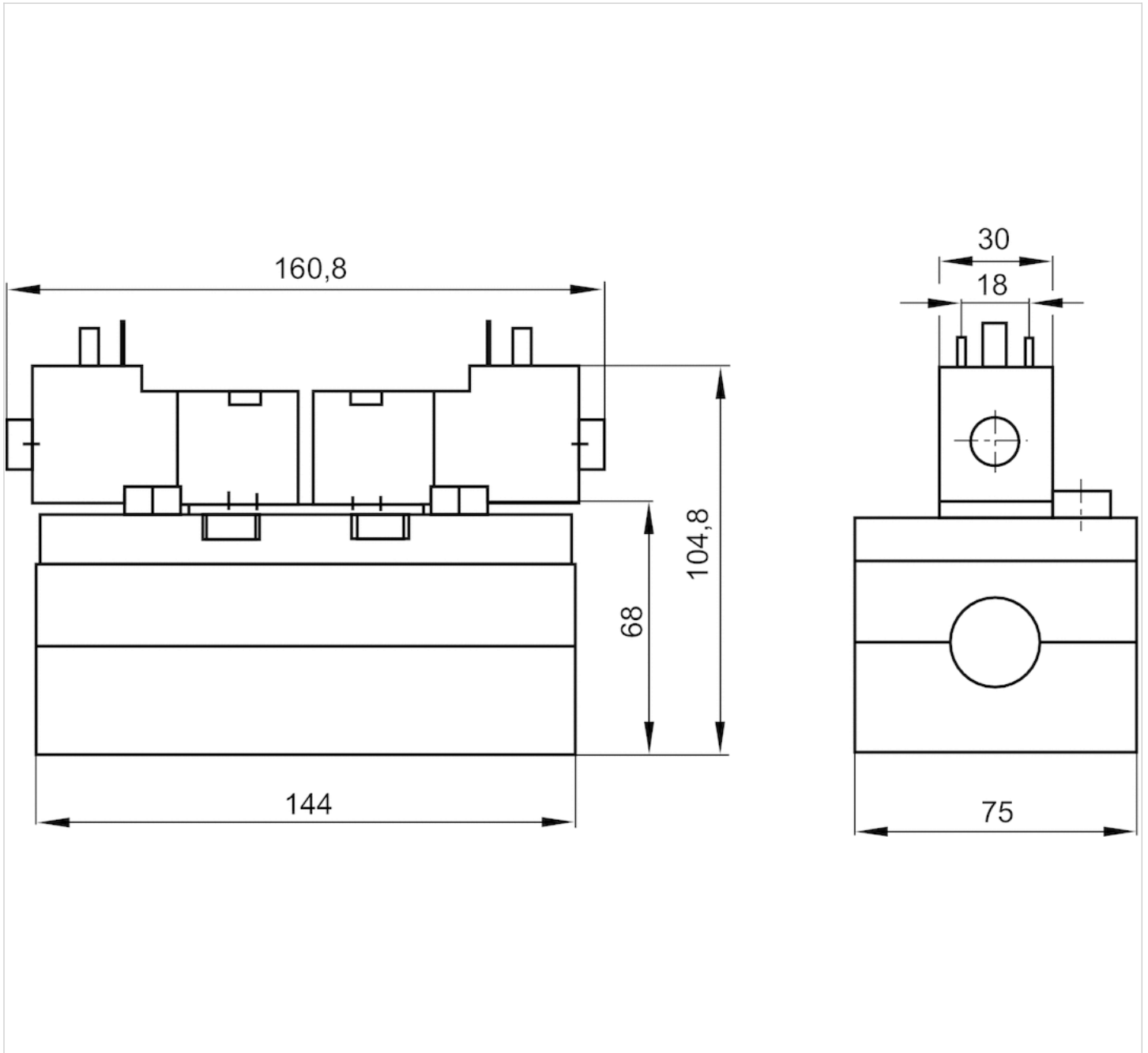
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions











# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814670190			24 V	-10% / +10%
5814671190			24 V	-10% / +10%
5814672190			24 V	-10% / +10%
5814673190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5814670190	6 W	Internal	1,5 ... 10 bar
5814671190	6 W	Internal	1,5 ... 10 bar
5814672190	6 W	External	-0,95 ... 10 bar
5814673190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5814670190	Plug EN 175301-803, form A	-
5814671190	Plug EN 175301-803, form A	with throttle
5814672190	Plug EN 175301-803, form A	-
5814673190	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

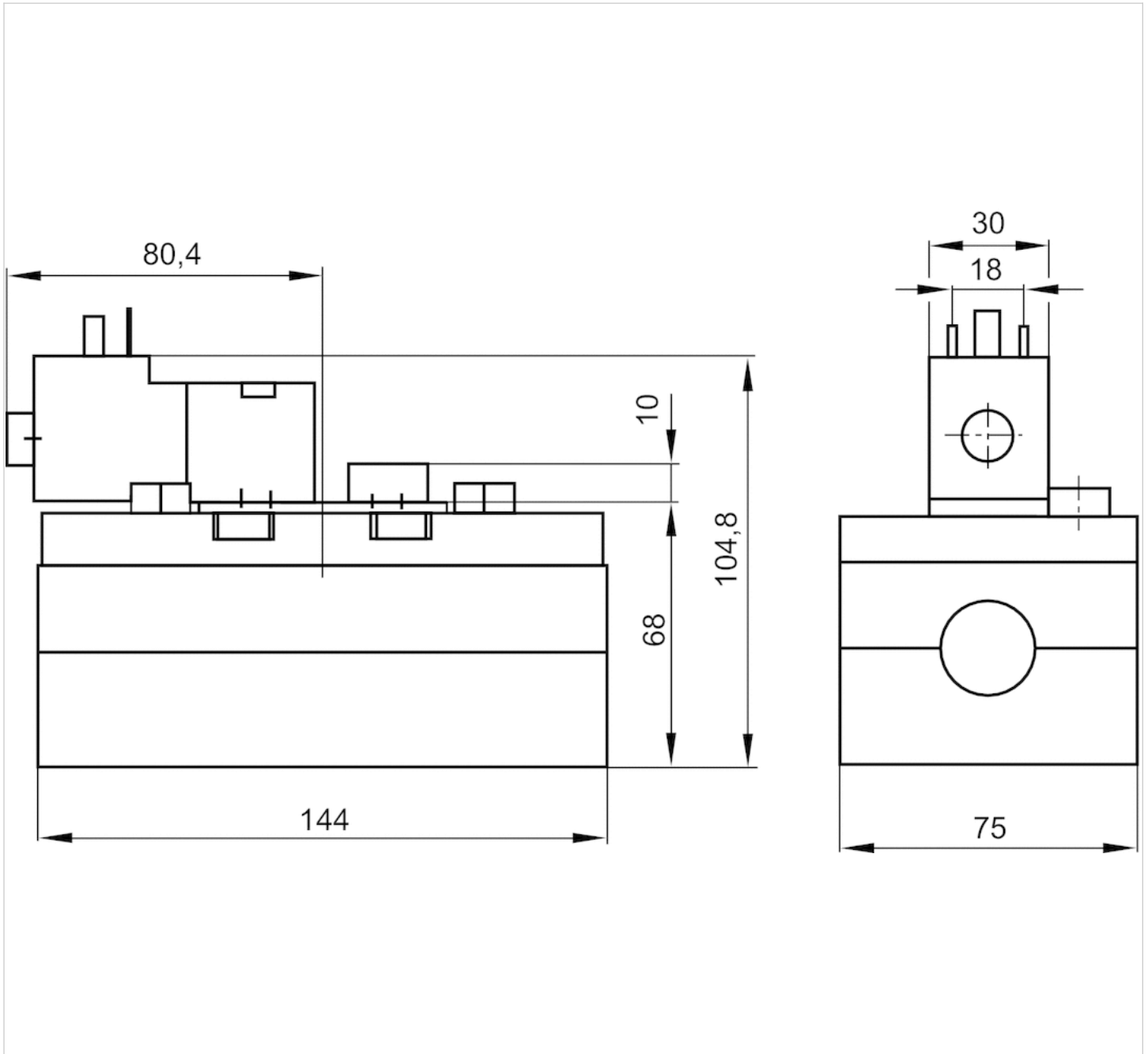
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.  
 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 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	33 ms
Typ. switch-off time	77 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,44 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814170190			24 V	-10% / +10%
5814171190			24 V	-10% / +10%
5814172190			24 V	-10% / +10%
5814173190			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
5814170190	6 W	Internal	3 ... 10 bar
5814171190	6 W	Internal	3 ... 10 bar
5814172190	6 W	External	-0,95 ... 10 bar
5814173190	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5814170190	Plug EN 175301-803, form A	-
5814171190	Plug EN 175301-803, form A	with throttle
5814172190	Plug EN 175301-803, form A	-
5814173190	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.

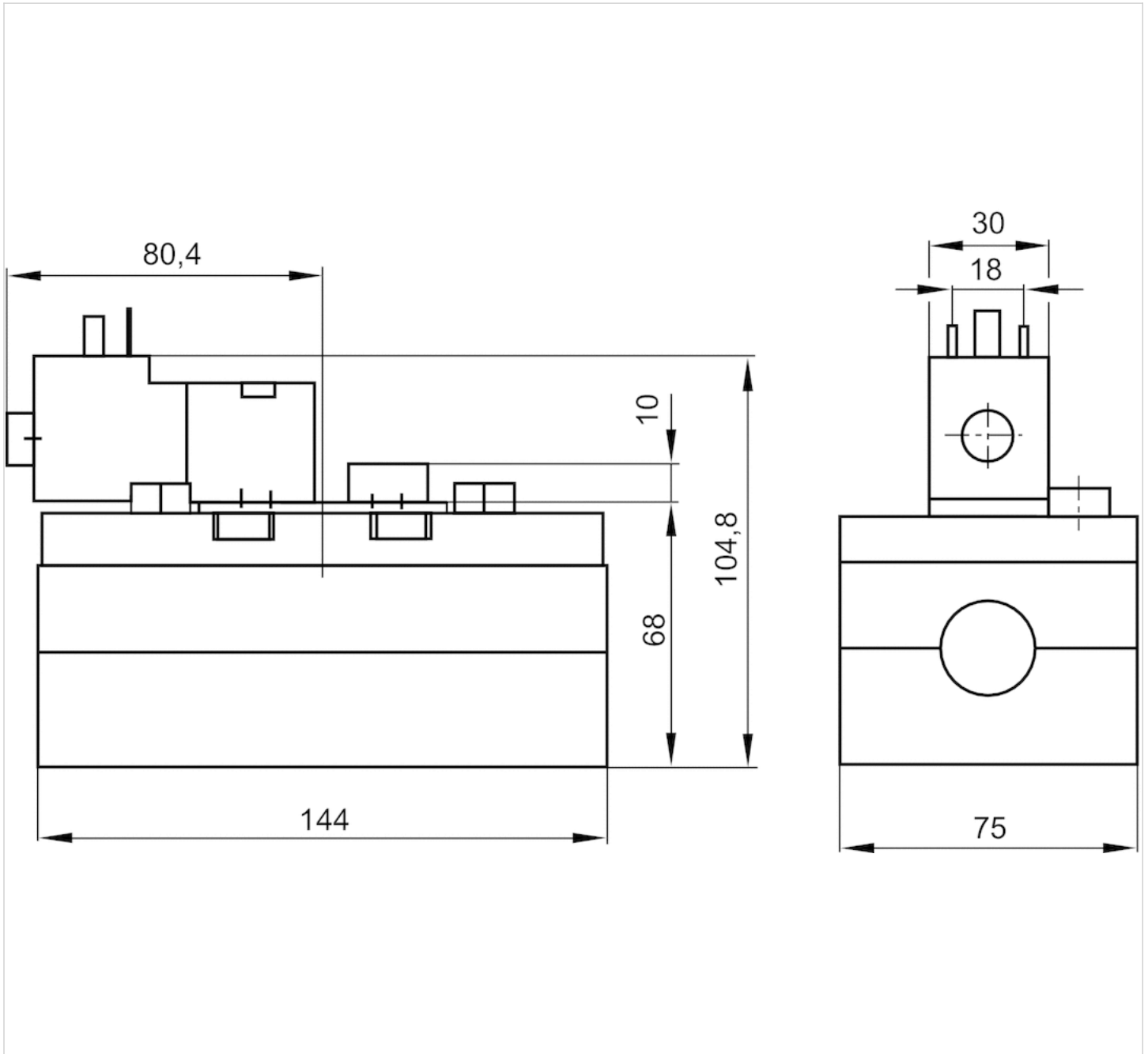
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





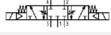
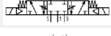
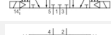
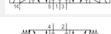
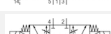
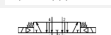


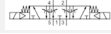

# 5/3-directional valve, Series 581, size 4

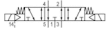


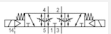

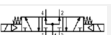
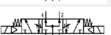

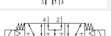
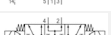
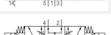
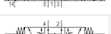
- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 4
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 <sup>3</sup>
Nominal flow Qn	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	26 ms
Typ. switch-off time	68 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,57 kg

## Technical data

Part No.			Operational voltage DC	Operational voltage AC 50 Hz
5814490530		closed center	24 V	-
5814490430		closed center	-	230 V
5814491530		closed center	24 V	-
5814491430		closed center	-	230 V
5814492530		closed center	24 V	-
5814492430		closed center	-	230 V
5814493530		closed center	24 V	-
5814493430		closed center	-	230 V
5814590530		exhausted center	24 V	-
5814590430		exhausted center	-	230 V
5814591530		exhausted center	24 V	-
5814591430		exhausted center	-	230 V

Part No.			Operational voltage DC	Operational voltage AC 50 Hz
5814592530		exhausted center	24 V	-
5814592430		exhausted center	-	230 V
5814593530		exhausted center	24 V	-
5814593430		exhausted center	-	230 V
5814790530		pressurized center	24 V	-
5814790430		pressurized center	-	230 V
5814791530		pressurized center	24 V	-
5814791430		pressurized center	-	230 V
5814792530		pressurized center	24 V	-
5814792430		pressurized center	-	230 V
5814793530		pressurized center	24 V	-
5814793430		pressurized center	-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5814490530	-10% / +10%	-10% / +10%	6,7 W	-
5814490430	-	-10% / +10%	-	10,8 VA
5814491530	-10% / +10%	-10% / +10%	6,7 W	-
5814491430	-	-10% / +10%	-	10,8 VA
5814492530	-10% / +10%	-10% / +10%	6,7 W	-
5814492430	-	-10% / +10%	-	10,8 VA
5814493530	-10% / +10%	-10% / +10%	6,7 W	-
5814493430	-	-10% / +10%	-	10,8 VA
5814590530	-10% / +10%	-10% / +10%	6,7 W	-
5814590430	-	-10% / +10%	-	10,8 VA
5814591530	-10% / +10%	-10% / +10%	6,7 W	-
5814591430	-	-10% / +10%	-	10,8 VA
5814592530	-10% / +10%	-10% / +10%	6,7 W	-
5814592430	-	-10% / +10%	-	10,8 VA
5814593530	-10% / +10%	-10% / +10%	6,7 W	-
5814593430	-	-10% / +10%	-	10,8 VA
5814790530	-10% / +10%	-10% / +10%	6,7 W	-
5814790430	-	-10% / +10%	-	10,8 VA
5814791530	-10% / +10%	-10% / +10%	6,7 W	-
5814791430	-	-10% / +10%	-	10,8 VA
5814792530	-10% / +10%	-10% / +10%	6,7 W	-
5814792430	-	-10% / +10%	-	10,8 VA
5814793530	-10% / +10%	-10% / +10%	6,7 W	-
5814793430	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5814490530	-	Internal	3 ... 16 bar
5814490430	15,2 VA	Internal	3 ... 16 bar
5814491530	-	Internal	3 ... 16 bar
5814491430	15,2 VA	Internal	3 ... 16 bar

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5814492530	-	External	-0,95 ... 16 bar
5814492430	15,2 VA	External	-0,95 ... 16 bar
5814493530	-	External	-0,95 ... 16 bar
5814493430	15,2 VA	External	-0,95 ... 16 bar
5814590530	-	Internal	3 ... 16 bar
5814590430	15,2 VA	Internal	3 ... 16 bar
5814591530	-	Internal	3 ... 16 bar
5814591430	15,2 VA	Internal	3 ... 16 bar
5814592530	-	External	-0,95 ... 16 bar
5814592430	15,2 VA	External	-0,95 ... 16 bar
5814593530	-	External	-0,95 ... 16 bar
5814593430	15,2 VA	External	-0,95 ... 16 bar
5814790530	-	Internal	3 ... 16 bar
5814790430	15,2 VA	Internal	3 ... 16 bar
5814791530	-	Internal	3 ... 16 bar
5814791430	15,2 VA	Internal	3 ... 16 bar
5814792530	-	External	-0,95 ... 16 bar
5814792430	15,2 VA	External	-0,95 ... 16 bar
5814793530	-	External	-0,95 ... 16 bar
5814793430	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5814490530	Plug EN 175301-803, form A	-
5814490430	Plug EN 175301-803, form A	-
5814491530	Plug EN 175301-803, form A	with throttle
5814491430	Plug EN 175301-803, form A	with throttle
5814492530	Plug EN 175301-803, form A	-
5814492430	Plug EN 175301-803, form A	-
5814493530	Plug EN 175301-803, form A	with throttle
5814493430	Plug EN 175301-803, form A	with throttle
5814590530	Plug EN 175301-803, form A	-
5814590430	Plug EN 175301-803, form A	-
5814591530	Plug EN 175301-803, form A	with throttle
5814591430	Plug EN 175301-803, form A	with throttle
5814592530	Plug EN 175301-803, form A	-
5814592430	Plug EN 175301-803, form A	-
5814593530	Plug EN 175301-803, form A	with throttle
5814593430	Plug EN 175301-803, form A	with throttle
5814790530	Plug EN 175301-803, form A	-
5814790430	Plug EN 175301-803, form A	-
5814791530	Plug EN 175301-803, form A	with throttle
5814791430	Plug EN 175301-803, form A	with throttle
5814792530	Plug EN 175301-803, form A	-
5814792430	Plug EN 175301-803, form A	-
5814793530	Plug EN 175301-803, form A	with throttle
5814793430	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.

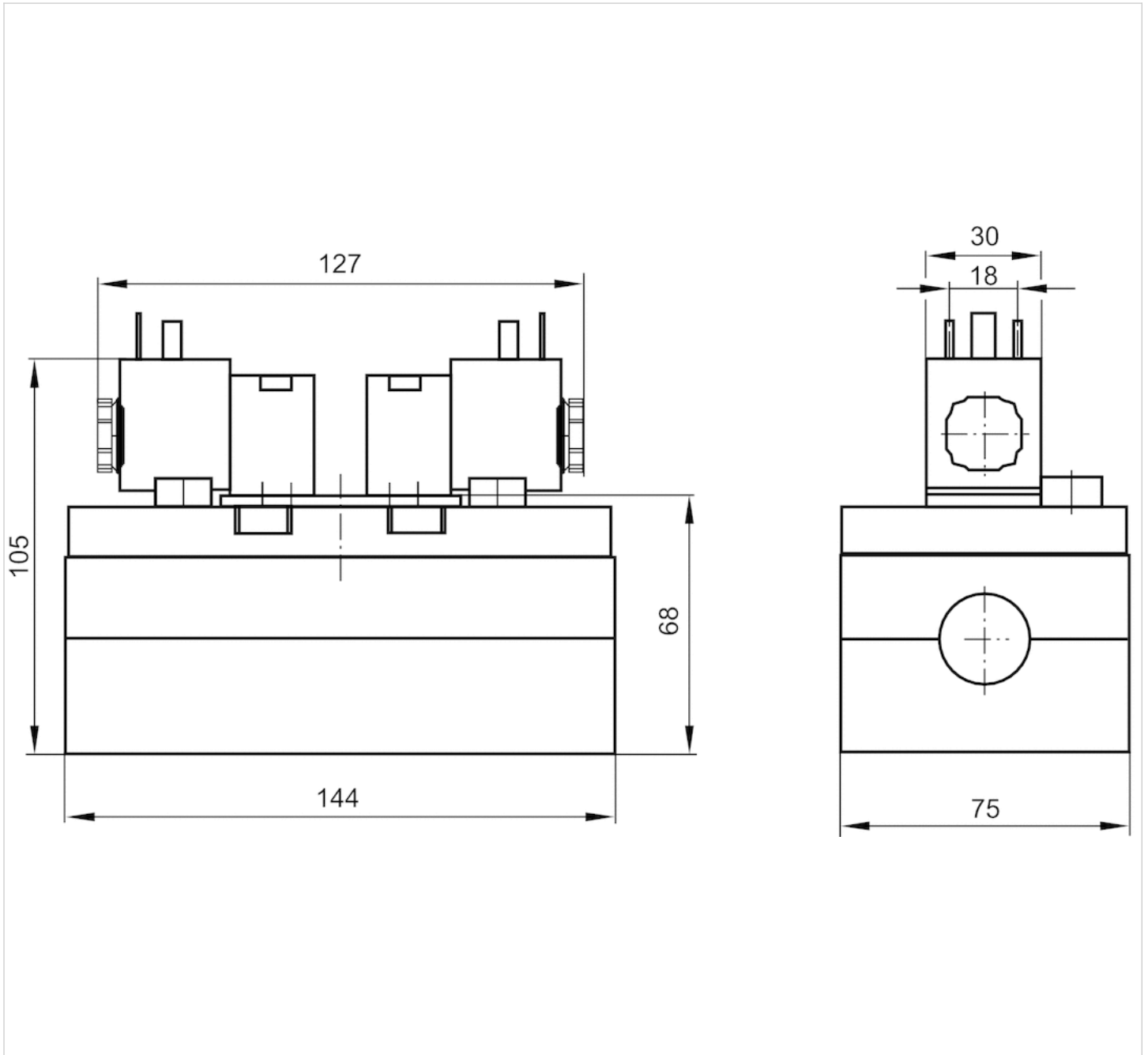
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions





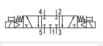

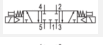



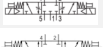

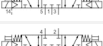





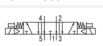









# 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 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 4
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 <sup>3</sup>
Nominal flow Qn	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	26 ms
Typ. switch-off time	68 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,57 kg

## Technical data

Part No.		MO		Operational voltage DC
5814490540			closed center	24 V
5814490440			closed center	-
5814491540			closed center	24 V
5814491440			closed center	-
5814492540			closed center	24 V
5814492440			closed center	-
5814493540			closed center	24 V
5814493440			closed center	-
5814590540			exhausted center	24 V
5814590440			exhausted center	-
5814591540			exhausted center	24 V
5814591440			exhausted center	-

Part No.		MO		Operational voltage DC
5814592540				24 V
5814592440				-
5814593540				24 V
5814593440				-
5814790540				24 V
5814790440				-
5814791540				24 V
5814791440				-
5814792540				24 V
5814792440				-
5814793540				24 V
5814793440				-

Part No.	Operational voltage AC 50 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5814490540	42 V	-10% / +10%	-10% / +10%
5814490440	230 V	-	-10% / +10%
5814491540	42 V	-10% / +10%	-10% / +10%
5814491440	230 V	-	-10% / +10%
5814492540	42 V	-10% / +10%	-10% / +10%
5814492440	230 V	-	-10% / +10%
5814493540	42 V	-10% / +10%	-10% / +10%
5814493440	230 V	-	-10% / +10%
5814590540	42 V	-10% / +10%	-10% / +10%
5814590440	230 V	-	-10% / +10%
5814591540	42 V	-10% / +10%	-10% / +10%
5814591440	230 V	-	-10% / +10%
5814592540	42 V	-10% / +10%	-10% / +10%
5814592440	230 V	-	-10% / +10%
5814593540	42 V	-10% / +10%	-10% / +10%
5814593440	230 V	-	-10% / +10%
5814790540	42 V	-10% / +10%	-10% / +10%
5814790440	230 V	-	-10% / +10%
5814791540	42 V	-10% / +10%	-10% / +10%
5814791440	230 V	-	-10% / +10%
5814792540	42 V	-10% / +10%	-10% / +10%
5814792440	230 V	-	-10% / +10%
5814793540	42 V	-10% / +10%	-10% / +10%
5814793440	230 V	-	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5814490540	6,7 W	7,7 VA	12 VA	Internal
5814490440	-	10,8 VA	15,2 VA	Internal
5814491540	6,7 W	7,7 VA	12 VA	Internal
5814491440	-	10,8 VA	15,2 VA	Internal

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5814492540	6,7 W	7,7 VA	12 VA	External
5814492440	-	10,8 VA	15,2 VA	External
5814493540	6,7 W	7,7 VA	12 VA	External
5814493440	-	10,8 VA	15,2 VA	External
5814590540	6,7 W	7,7 VA	12 VA	Internal
5814590440	-	10,8 VA	15,2 VA	Internal
5814591540	6,7 W	7,7 VA	12 VA	Internal
5814591440	-	10,8 VA	15,2 VA	Internal
5814592540	6,7 W	7,7 VA	12 VA	External
5814592440	-	10,8 VA	15,2 VA	External
5814593540	6,7 W	7,7 VA	12 VA	External
5814593440	-	10,8 VA	15,2 VA	External
5814790540	6,7 W	7,7 VA	12 VA	Internal
5814790440	-	10,8 VA	15,2 VA	Internal
5814791540	6,7 W	7,7 VA	12 VA	Internal
5814791440	-	10,8 VA	15,2 VA	Internal
5814792540	6,7 W	7,7 VA	12 VA	External
5814792440	-	10,8 VA	15,2 VA	External
5814793540	6,7 W	7,7 VA	12 VA	External
5814793440	-	10,8 VA	15,2 VA	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5814490540	3 ... 16 bar	Plug EN 175301-803, form A	-
5814490440	3 ... 16 bar	Plug EN 175301-803, form A	-
5814491540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814491440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814492540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814492440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814493540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814493440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814590540	3 ... 16 bar	Plug EN 175301-803, form A	-
5814590440	3 ... 16 bar	Plug EN 175301-803, form A	-
5814591540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814591440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814592540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814592440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814593540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814593440	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814790540	3 ... 16 bar	Plug EN 175301-803, form A	-
5814790440	3 ... 16 bar	Plug EN 175301-803, form A	-
5814791540	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814791440	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814792540	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814792440	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5814793540	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5814793440	-0,95 ... 16 bar	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.

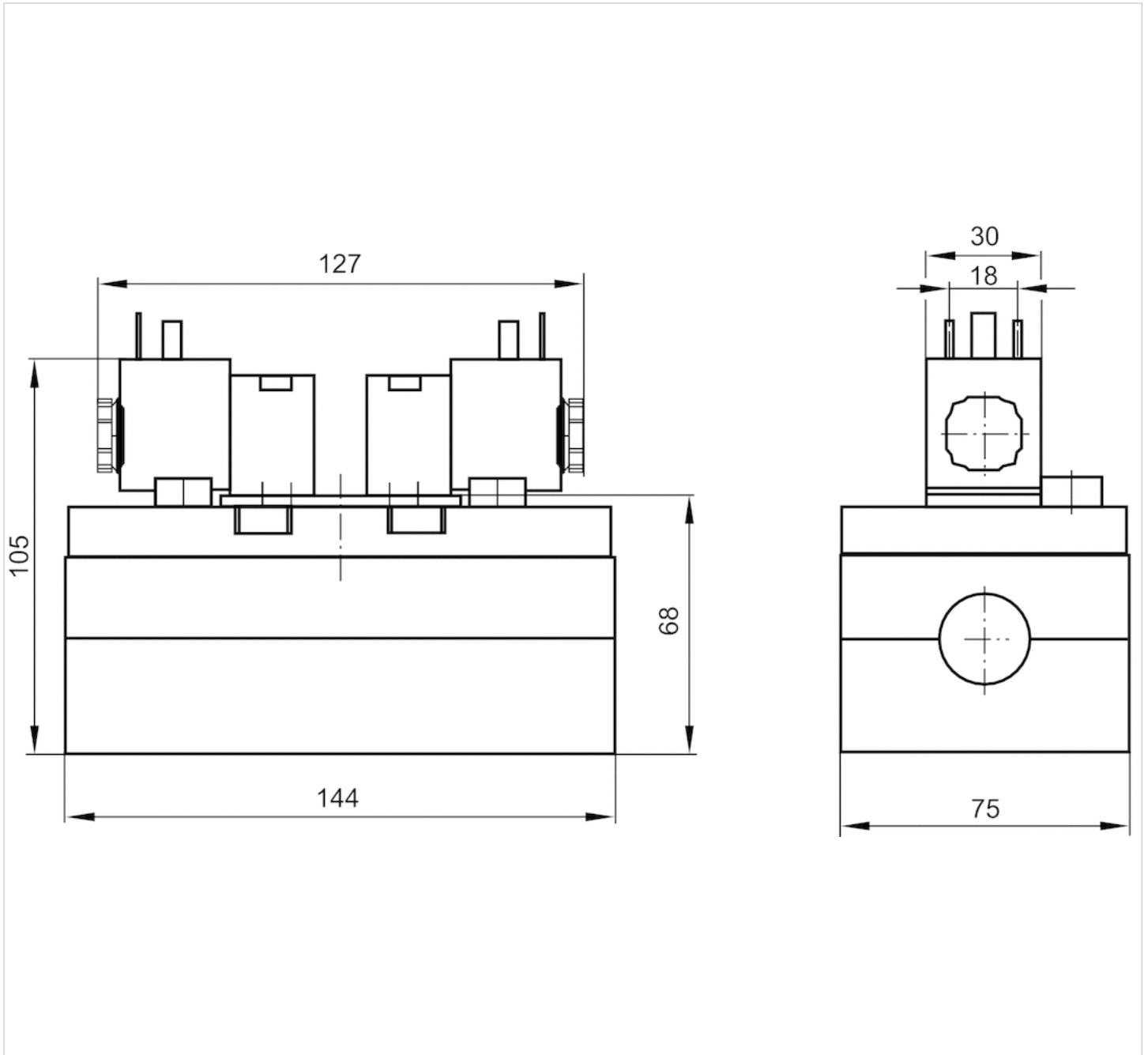
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



## 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 5000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
Duty cycle	100 %
Typ. switch-on time	26 ms
Typ. switch-off time	68 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,57 kg



Part No.	Operational voltage AC 50 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5814790650	-	-10% / +10%	-
5814790450	230 V	-	-10% / +10%
5814791650	-	-10% / +10%	-
5814791450	230 V	-	-10% / +10%
5814792650	-	-10% / +10%	-
5814792450	230 V	-	-10% / +10%
5814793650	-	-10% / +10%	-
5814793450	230 V	-	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz	Pilot
5814490650	2 W	-	-	Internal
5814490450	-	4,8 VA	7 VA	Internal
5814491650	2 W	-	-	Internal
5814491450	-	4,8 VA	7 VA	Internal
5814492650	2 W	-	-	External
5814492450	-	4,8 VA	7 VA	External
5814493650	2 W	-	-	External
5814493450	-	4,8 VA	7 VA	External
5814590650	2 W	-	-	Internal
5814590450	-	4,8 VA	7 VA	Internal
5814591650	2 W	-	-	Internal
5814591450	-	4,8 VA	7 VA	Internal
5814592650	2 W	-	-	External
5814592450	-	4,8 VA	7 VA	External
5814593650	2 W	-	-	External
5814593450	-	4,8 VA	7 VA	External
5814790650	2 W	-	-	Internal
5814790450	-	4,8 VA	7 VA	Internal
5814791650	2 W	-	-	Internal
5814791450	-	4,8 VA	7 VA	Internal
5814792650	2 W	-	-	External
5814792450	-	4,8 VA	7 VA	External
5814793650	2 W	-	-	External
5814793450	-	4,8 VA	7 VA	External

Part No.	Working pressure min./max.	Compatibility index	Electrical connection Pilot valve
5814490650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814490450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814491650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814491450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814492650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814492450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814493650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814493450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A



Part No.	Working pressure min./max.	Compatibility index	Electrical connection Pilot valve
5814590650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814590450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814591650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814591450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814592650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814592450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814593650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814593450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814790650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814790450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814791650	3 ... 10 bar	14	Plug EN 175301-803, form A
5814791450	3 ... 10 bar	14	Plug EN 175301-803, form A
5814792650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814792450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814793650	-0,95 ... 10 bar	14	Plug EN 175301-803, form A
5814793450	-0,95 ... 10 bar	14	Plug EN 175301-803, form A

Part No.	Throttle
5814490650	-
5814490450	-
5814491650	with throttle
5814491450	with throttle
5814492650	-
5814492450	-
5814493650	with throttle
5814493450	with throttle
5814590650	-
5814590450	-
5814591650	with throttle
5814591450	with throttle
5814592650	-
5814592450	-
5814593650	with throttle
5814593450	with throttle
5814790650	-
5814790450	-
5814791650	with throttle
5814791450	with throttle
5814792650	-
5814792450	-
5814793650	with throttle
5814793450	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.

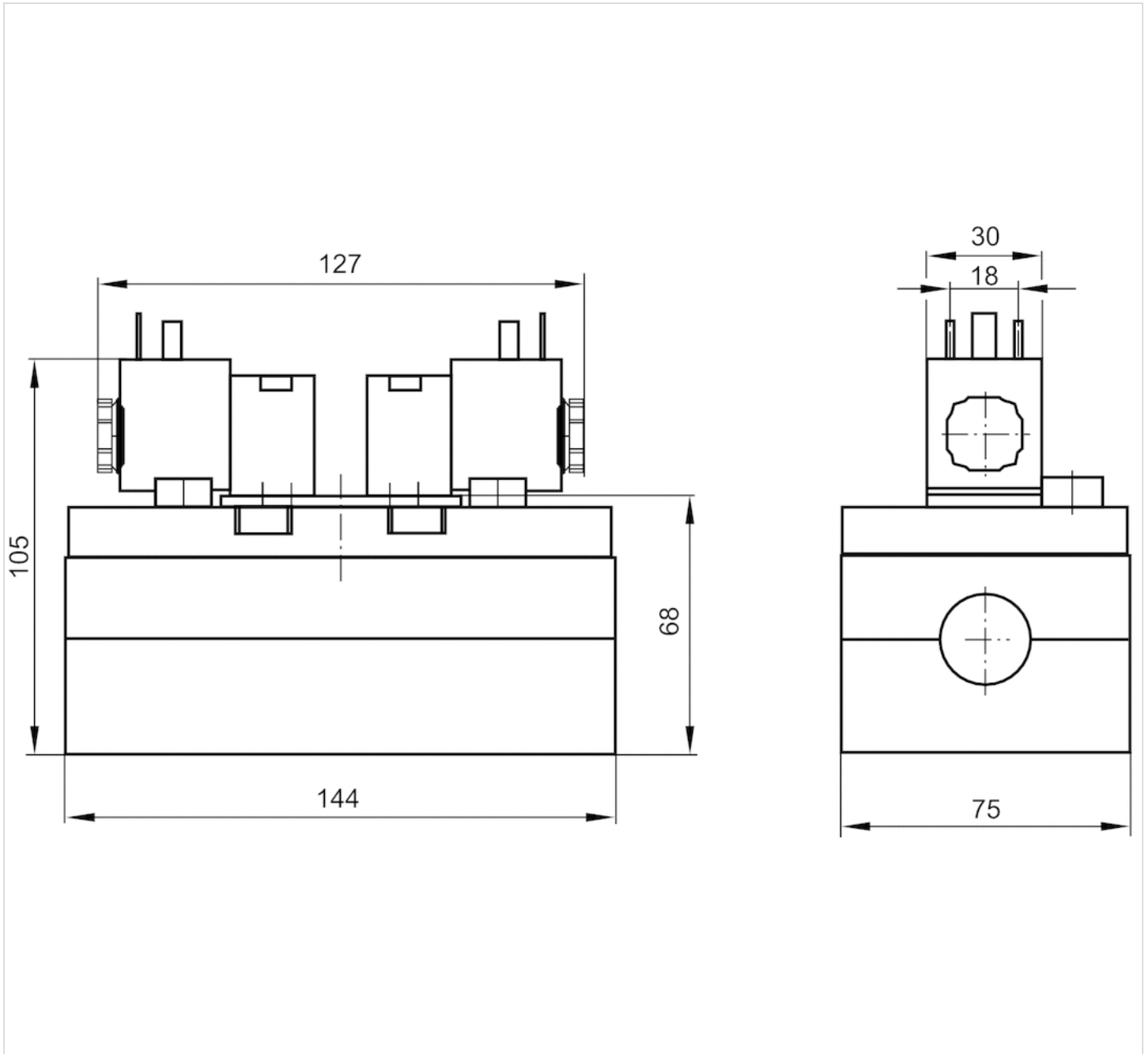
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

# Dimensions

## Dimensions



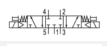



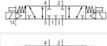



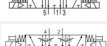

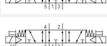

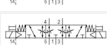

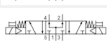



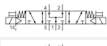



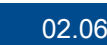

# 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 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 4
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 <sup>3</sup>
Nominal flow Qn	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	26 ms
Typ. switch-off time	68 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,65 kg

## Technical data

Part No.		MO		Operational voltage DC
5814490190			closed center	24 V
5814491190			closed center	24 V
5814492190			closed center	24 V
5814493190			closed center	24 V
5814590190			exhausted center	24 V
5814591190			exhausted center	24 V
5814592190			exhausted center	24 V
5814593190			exhausted center	24 V
5814790190			pressurized center	24 V
5814791190			pressurized center	24 V
5814792190			pressurized center	24 V
5814793190			pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Working pressure min./max.
5814490190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814491190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814492190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5814493190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5814590190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814591190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814592190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5814593190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5814790190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814791190	-10% / +10%	6 W	Internal	3 ... 10 bar
5814792190	-10% / +10%	6 W	External	-0,95 ... 10 bar
5814793190	-10% / +10%	6 W	External	-0,95 ... 10 bar

Part No.	Electrical connection Pilot valve	Throttle
5814490190	Plug EN 175301-803, form A	-
5814491190	Plug EN 175301-803, form A	with throttle
5814492190	Plug EN 175301-803, form A	-
5814493190	Plug EN 175301-803, form A	with throttle
5814590190	Plug EN 175301-803, form A	-
5814591190	Plug EN 175301-803, form A	with throttle
5814592190	Plug EN 175301-803, form A	-
5814593190	Plug EN 175301-803, form A	with throttle
5814790190	Plug EN 175301-803, form A	-
5814791190	Plug EN 175301-803, form A	with throttle
5814792190	Plug EN 175301-803, form A	-
5814793190	Plug EN 175301-803, form A	with throttle

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar, MO = Manual override

## Technical information

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

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

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

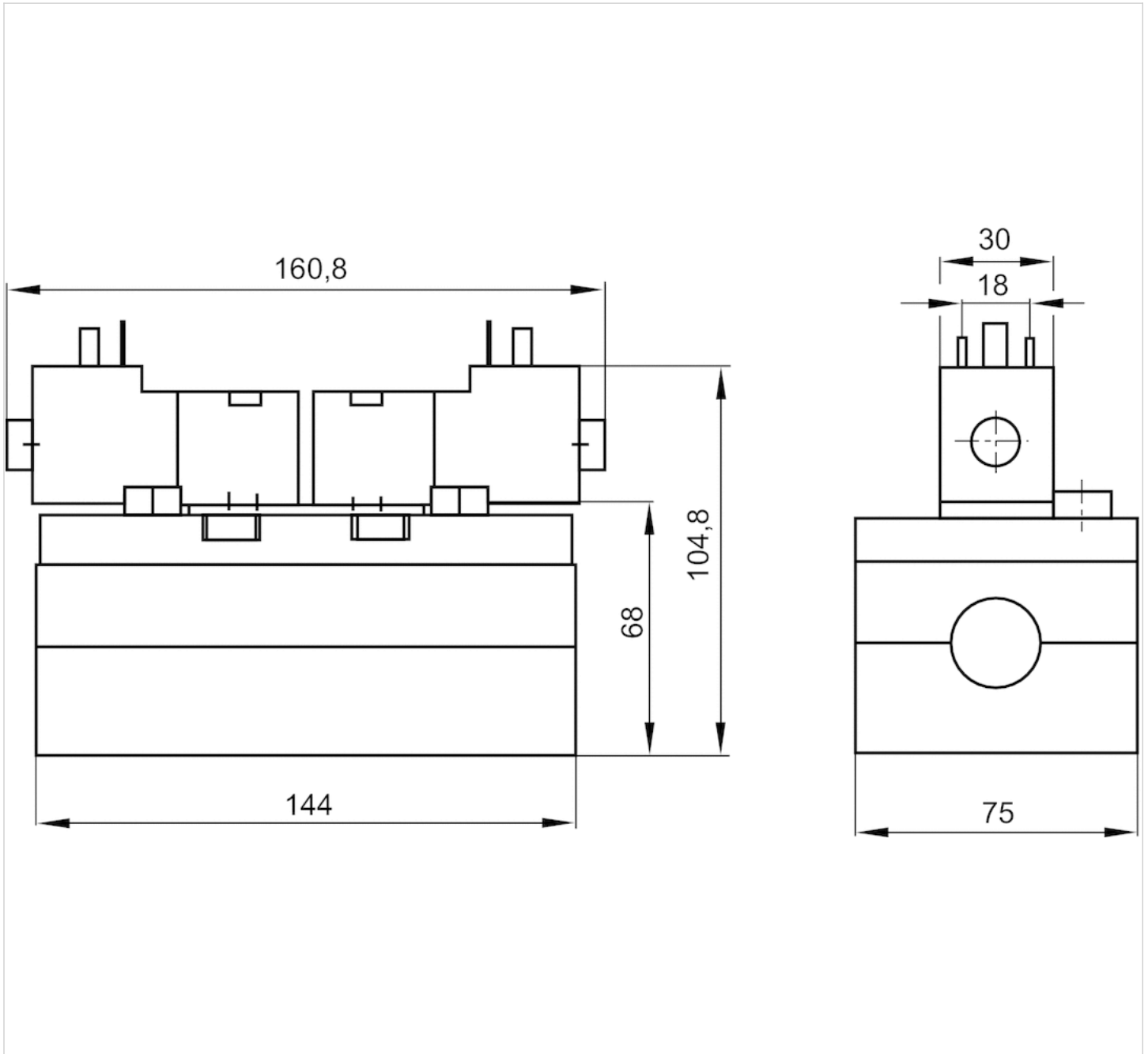
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



















# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24.5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	80 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1.4 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814612720			24 V	-10% / +10%
5814612710			24 V	-10% / +10%
5814610720			24 V	-10% / +10%
5814610710			24 V	-10% / +10%
5814613720			24 V	-10% / +10%
5814613710			24 V	-10% / +10%
5814611720			24 V	-10% / +10%
5814611710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5814612720	0.35 W	External	Plug M12 4-pin	-
5814612710	0.35 W	External	Plug M12 4-pin	-
5814610720	0.35 W	Internal	Plug M12 4-pin	-
5814610710	0.35 W	Internal	Plug M12 4-pin	-
5814613720	0.35 W	External	Plug M12 4-pin	with throttle
5814613710	0.35 W	External	Plug M12 4-pin	with throttle
5814611720	0.35 W	Internal	Plug M12 4-pin	with throttle
5814611710	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

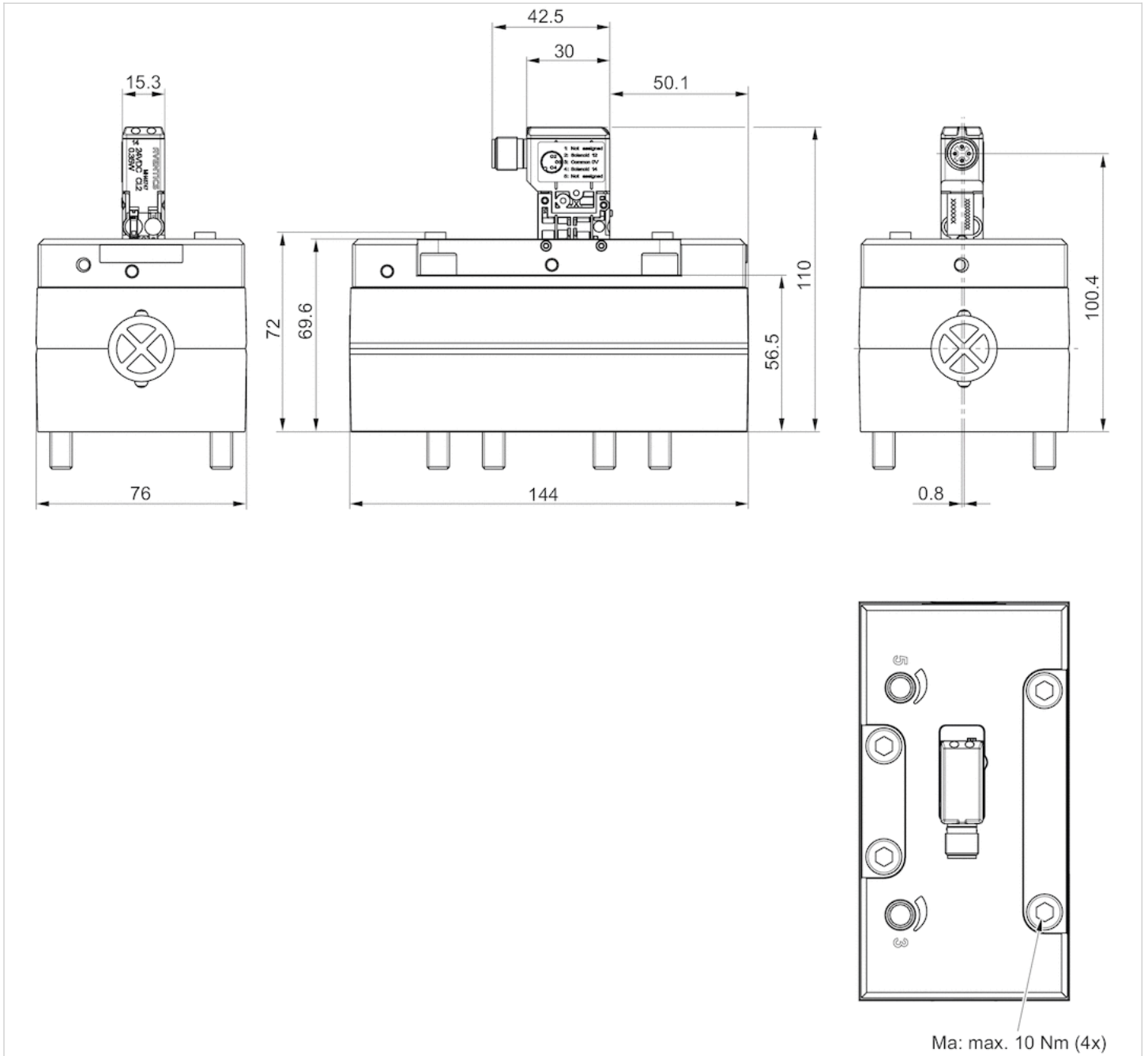
## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber



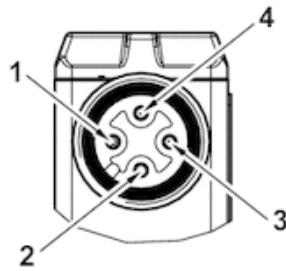
# Dimensions

## 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 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24.5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	80 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1.4 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814112720			24 V	-10% / +10%
5814112710			24 V	-10% / +10%
5814110720			24 V	-10% / +10%
5814110710			24 V	-10% / +10%
5814113720			24 V	-10% / +10%
5814113710			24 V	-10% / +10%
5814111720			24 V	-10% / +10%
5814111710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5814112720	0.35 W	External	Plug M12 4-pin	-
5814112710	0.35 W	External	Plug M12 4-pin	-
5814110720	0.35 W	Internal	Plug M12 4-pin	-
5814110710	0.35 W	Internal	Plug M12 4-pin	-
5814113720	0.35 W	External	Plug M12 4-pin	with throttle
5814113710	0.35 W	External	Plug M12 4-pin	with throttle
5814111720	0.35 W	Internal	Plug M12 4-pin	with throttle
5814111710	0.35 W	Internal	Plug M12 4-pin	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).

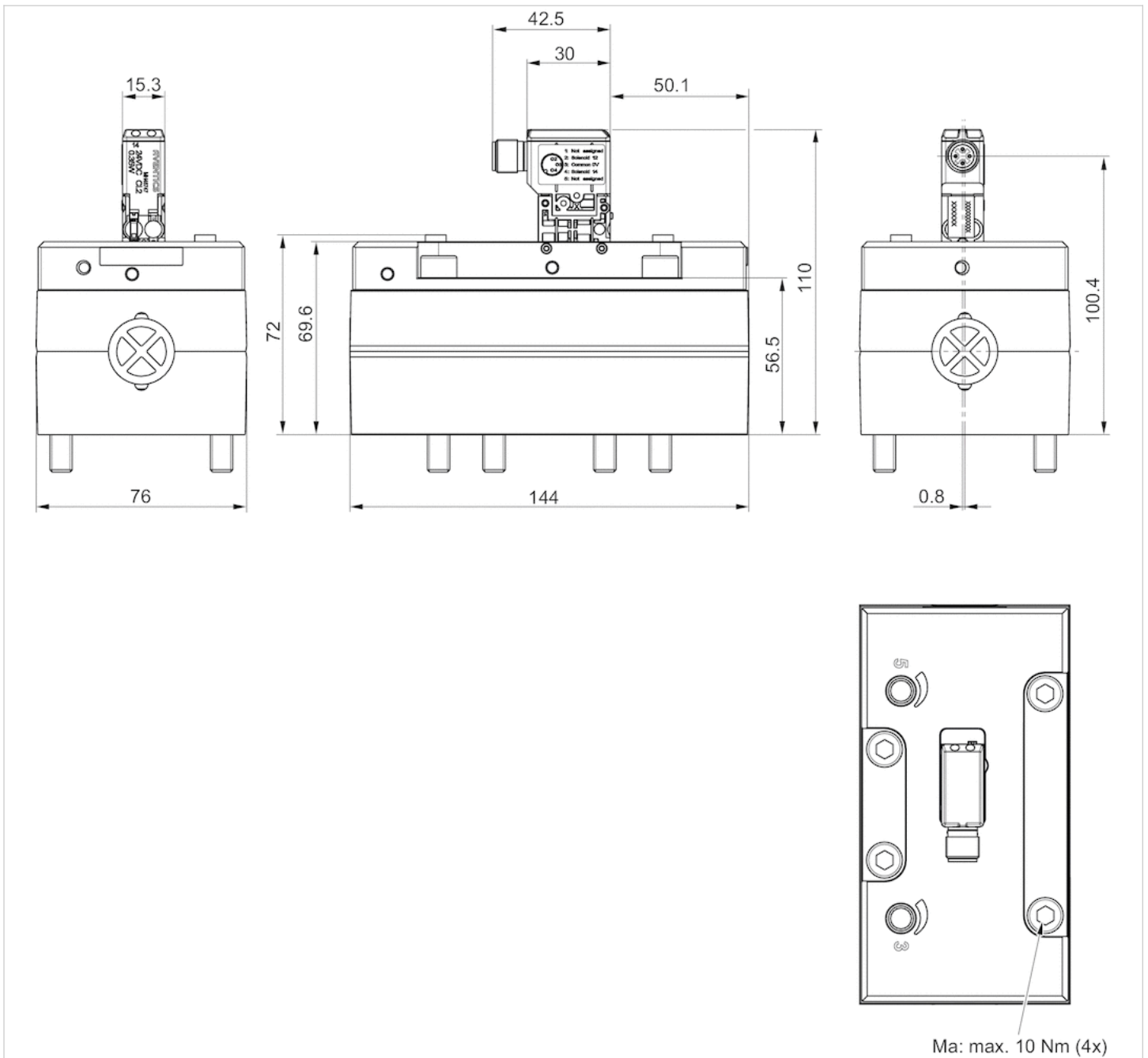
Switch-on power: 1 W for 40 ms

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

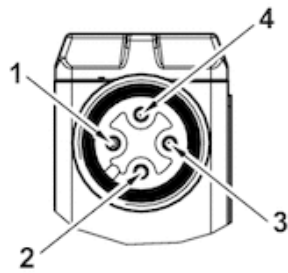
# Dimensions

## 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 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$  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 4
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 <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24.5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	17 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1.4 kg

## Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5814222720			24 V	-10% / +10%
5814222710			24 V	-10% / +10%
5814220720			24 V	-10% / +10%
5814220710			24 V	-10% / +10%
5814223720			24 V	-10% / +10%
5814223710			24 V	-10% / +10%
5814221720			24 V	-10% / +10%
5814221710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5814222720	0.35 W	External	Plug M12 4-pin	-

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5814222710	0.35 W	External	Plug M12 4-pin	-
5814220720	0.35 W	Internal	Plug M12 4-pin	-
5814220710	0.35 W	Internal	Plug M12 4-pin	-
5814223720	0.35 W	External	Plug M12 4-pin	with throttle
5814223710	0.35 W	External	Plug M12 4-pin	with throttle
5814221720	0.35 W	Internal	Plug M12 4-pin	with throttle
5814221710	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

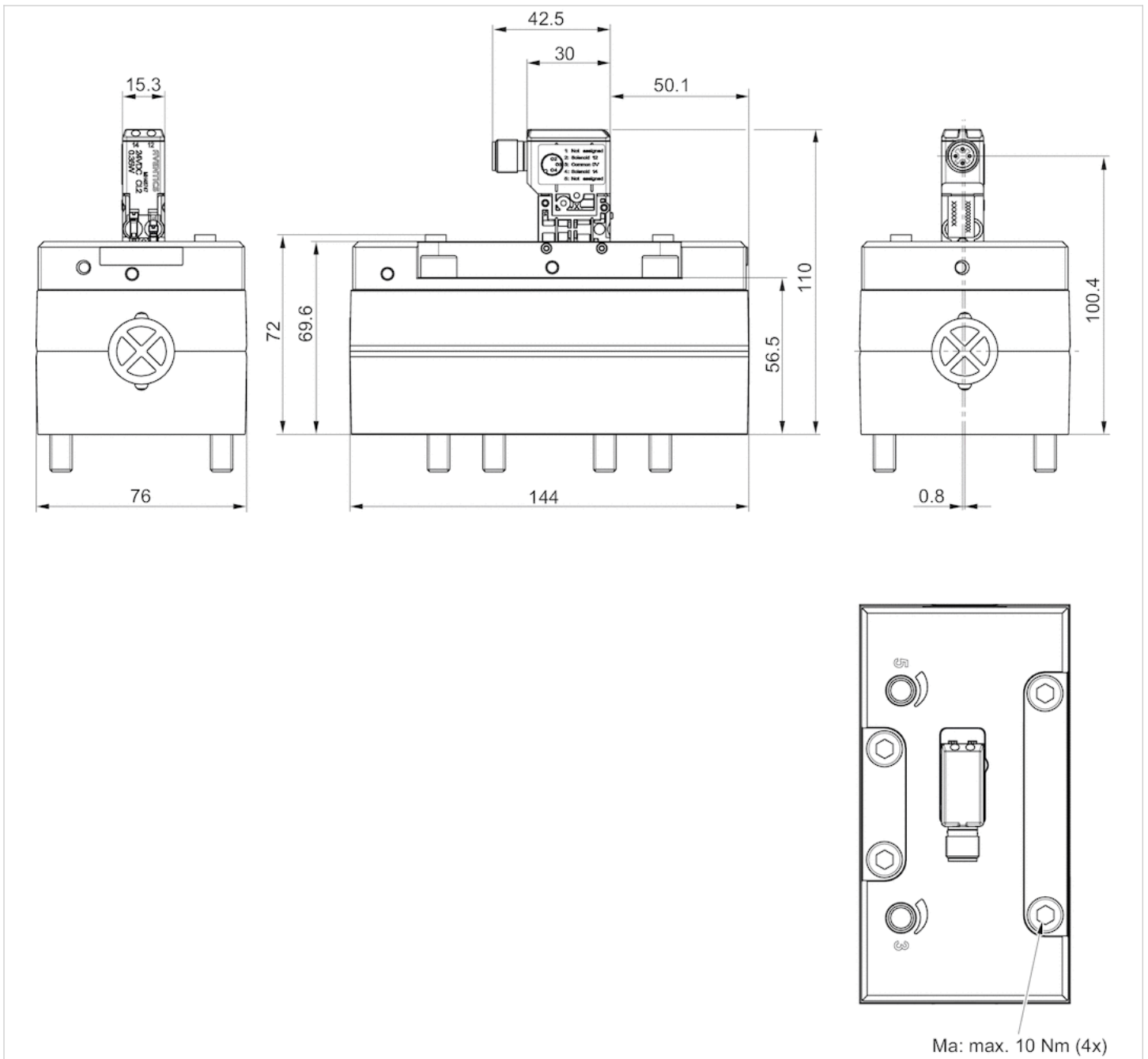
## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber



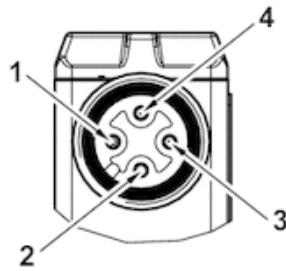
# Dimensions

## Dimensions



## Pin assignments

### Pin assignments



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

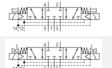







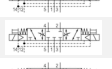







# 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center
- closed center
- $Q_n = 5000 \text{ l/min}$
- 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 4
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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15.5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	80 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	See table below

## Technical data

Part No.		MO		Operational voltage DC	Voltage tolerance DC
5814422720			closed center	24 V	-10% / +10%
5814422710			closed center	24 V	-10% / +10%
5814420720			closed center	24 V	-10% / +10%
5814420710			closed center	24 V	-10% / +10%
5814423710			closed center	24 V	-10% / +10%
5814423720			closed center	24 V	-10% / +10%
5814421720			closed center	24 V	-10% / +10%
5814421710			closed center	24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle	Weight
5814422720	0.35 W	External	Plug M12 4-pin	-	1.4 kg
5814422710	0.35 W	External	Plug M12 4-pin	-	1.44 kg
5814420720	0.35 W	Internal	Plug M12 4-pin	-	1.44 kg
5814420710	0.35 W	Internal	Plug M12 4-pin	-	1.44 kg
5814423710	0.35 W	External	Plug M12 4-pin	with throttle	1.44 kg
5814423720	0.35 W	External	Plug M12 4-pin	with throttle	1.44 kg
5814421720	0.35 W	Internal	Plug M12 4-pin	with throttle	1.44 kg
5814421710	0.35 W	Internal	Plug M12 4-pin	with throttle	1.44 kg

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).

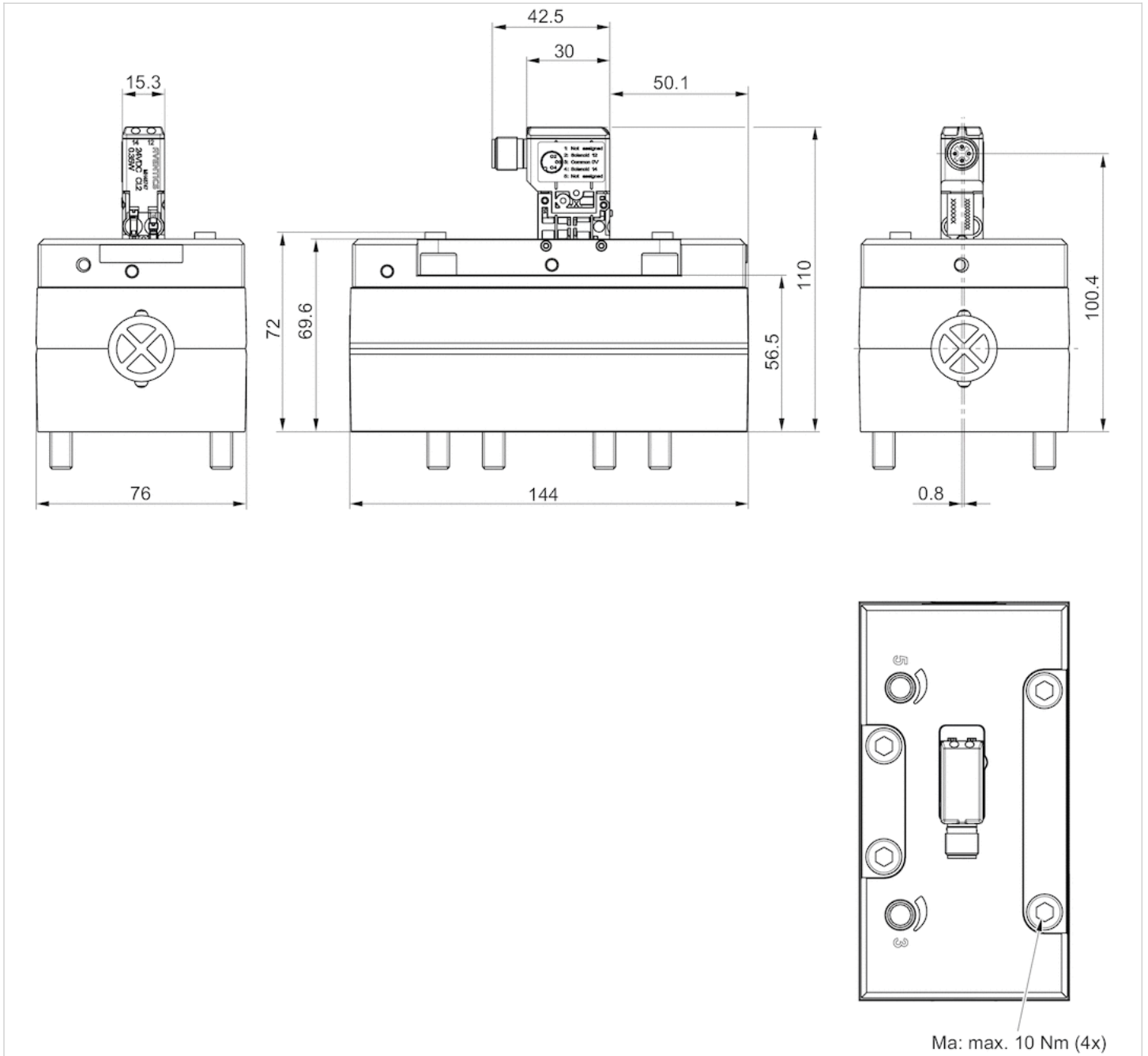
Switch-on power: 1 W for 40 ms

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

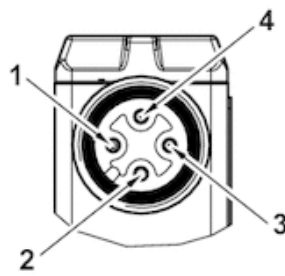
# Dimensions

## 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 4

- ISO 5599-1
- ISO 4
- 5/3
- exhausted center
- exhausted center
- $Q_n = 5000 \text{ l/min}$
- 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 4
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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15.5 $\text{l}/(\text{s} \cdot \text{bar})$
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	80 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	See table below

## Technical data

Part No.		MO		Operational voltage DC
5814522720			exhausted center	24 V
5814522710			exhausted center	24 V
5814520720			exhausted center	24 V
5814520710			exhausted center	24 V
5814523720			exhausted center	24 V
5814523710			exhausted center	24 V
5814521720			exhausted center	24 V
5814521710			exhausted center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5814522720	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814522710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814520720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814520710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814523720	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814523710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814521720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814521710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin

Part No.	Throttle	Weight
5814522720	-	1.4 kg
5814522710	-	1.44 kg
5814520720	-	1.44 kg
5814520710	-	1.44 kg
5814523720	with throttle	1.44 kg
5814523710	with throttle	1.44 kg
5814521720	with throttle	1.44 kg
5814521710	with throttle	1.44 kg

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

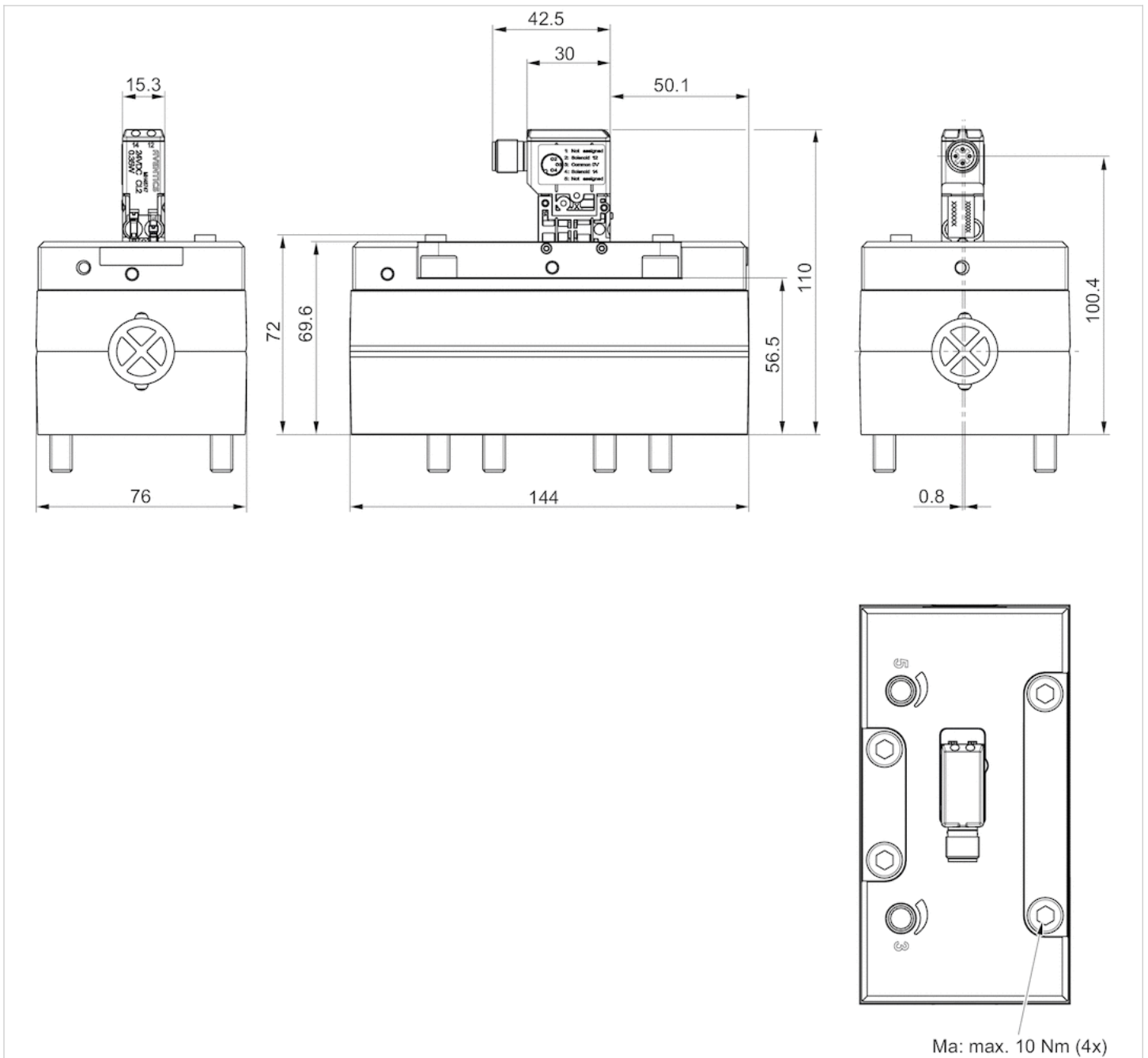
## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber



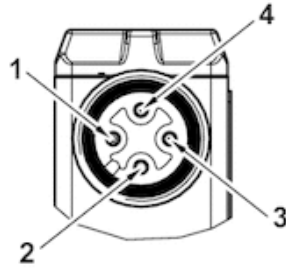
# Dimensions

## 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 4

- ISO 5599-1
- ISO 4
- 5/3
- pressurized center
- Qn = 5000 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 4
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 <sup>3</sup>
Nominal flow Qn	5000 l/min
Flow conductance C	15.5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	80 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1.4 kg

## Technical data

Part No.		MO		Operational voltage DC
5814722720			pressurized center	24 V
5814722710			pressurized center	24 V
5814720720			pressurized center	24 V
5814720710			pressurized center	24 V
5814723720			pressurized center	24 V
5814723710			pressurized center	24 V
5814721720			pressurized center	24 V
5814721710			pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5814722720	-10% / +10%	0.35 W	External	Plug M12 4-pin

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Electrical connection Pilot valve
5814722710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814720720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814720710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814723720	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814723710	-10% / +10%	0.35 W	External	Plug M12 4-pin
5814721720	-10% / +10%	0.35 W	Internal	Plug M12 4-pin
5814721710	-10% / +10%	0.35 W	Internal	Plug M12 4-pin

Part No.	Throttle
5814722720	-
5814722710	-
5814720720	-
5814720710	-
5814723720	with throttle
5814723710	with throttle
5814721720	with throttle
5814721710	with throttle

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).

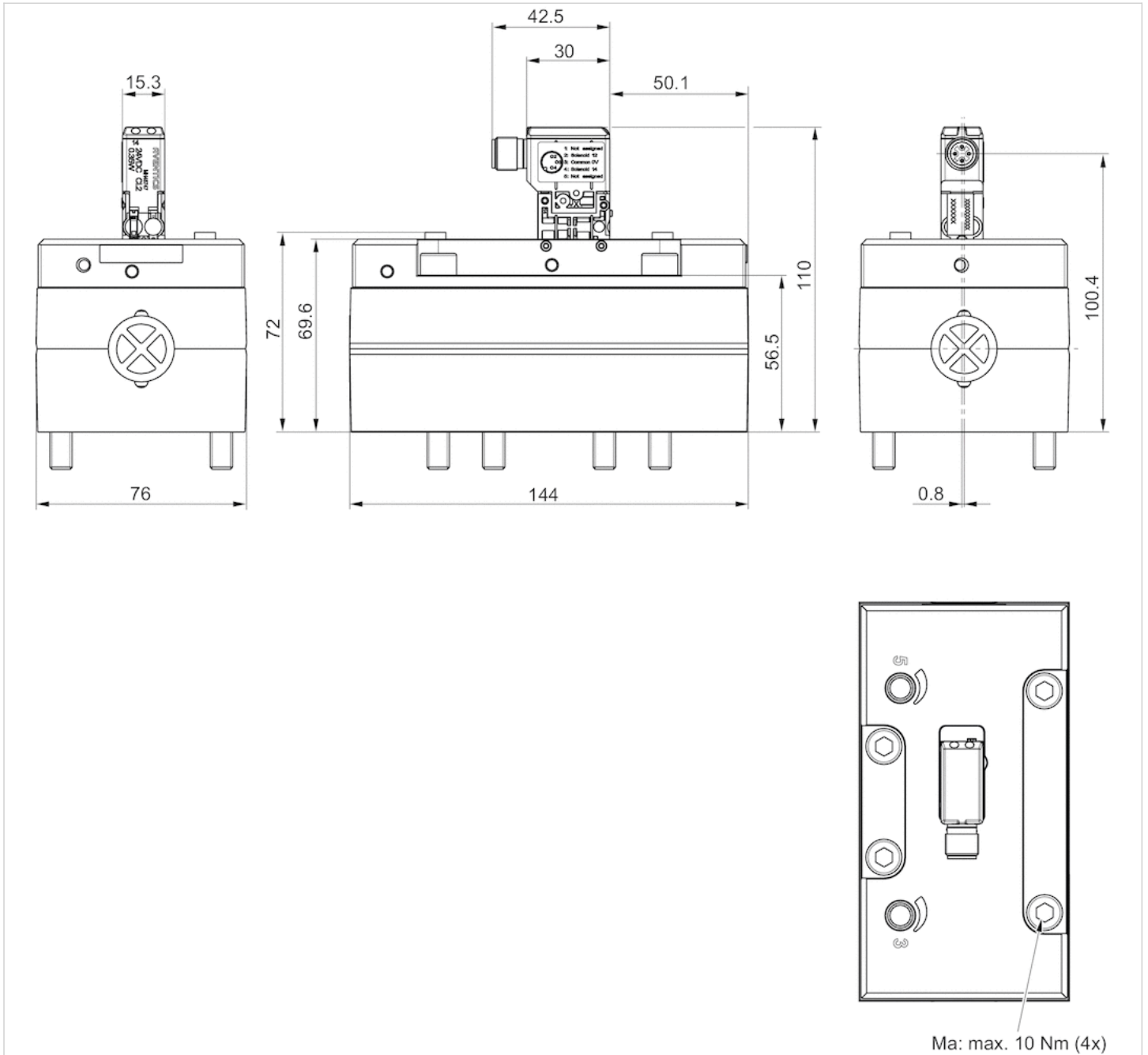
Switch-on power: 1 W for 40 ms

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

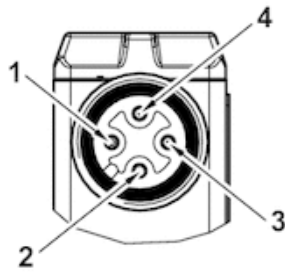
# Dimensions

## 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 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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/m <sup>3</sup>
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Throttle
5814180000		-
5814181000		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).

\* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.

ATEX ID: see ATEX coils catalog page.

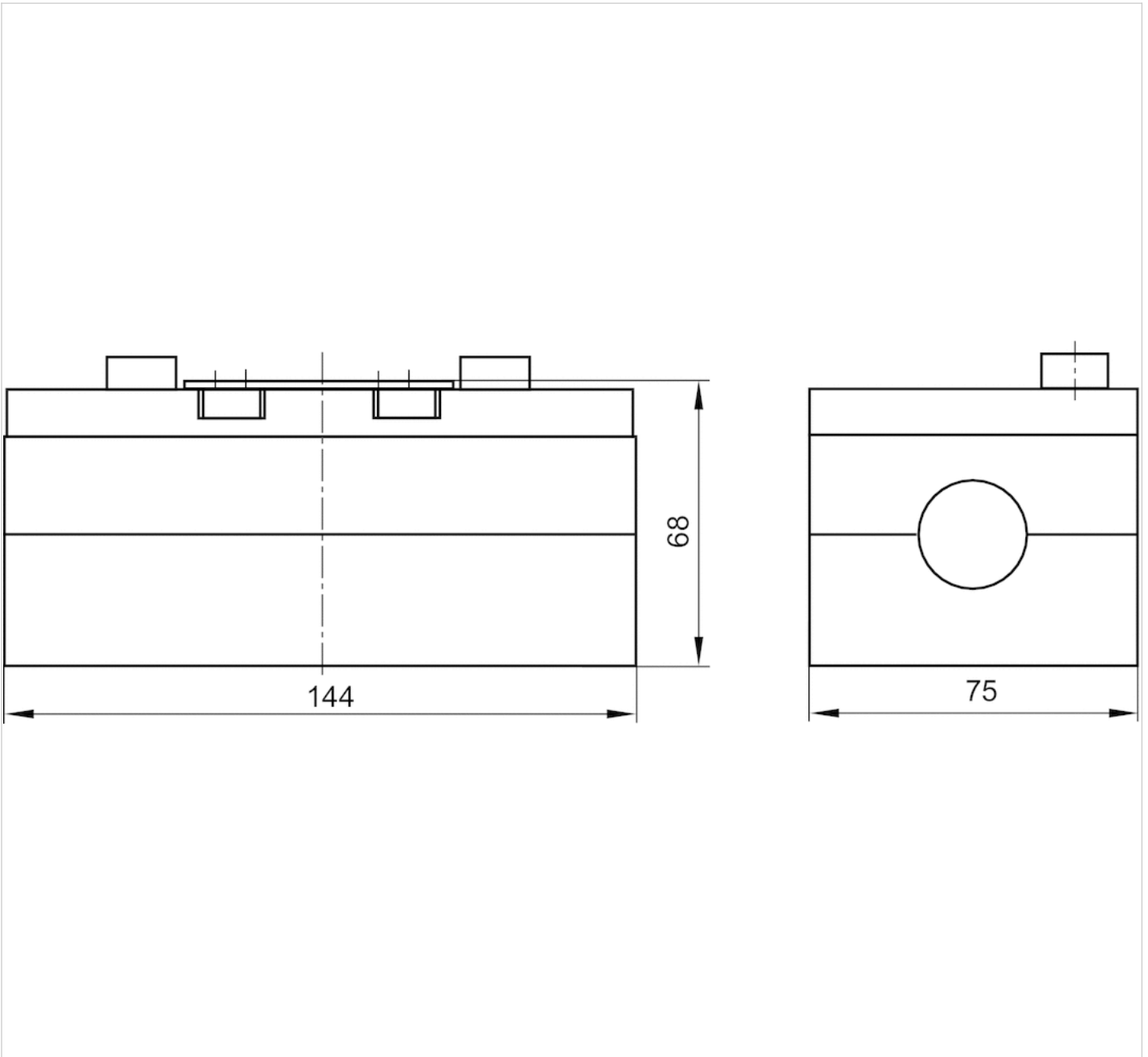
## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber



## Dimensions

### Dimensions





# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 $\text{l}/(\text{s} \cdot \text{bar})$
Compressed air connection	according to ISO 5599
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Throttle
5814280000		-
5814281000		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).

\* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.

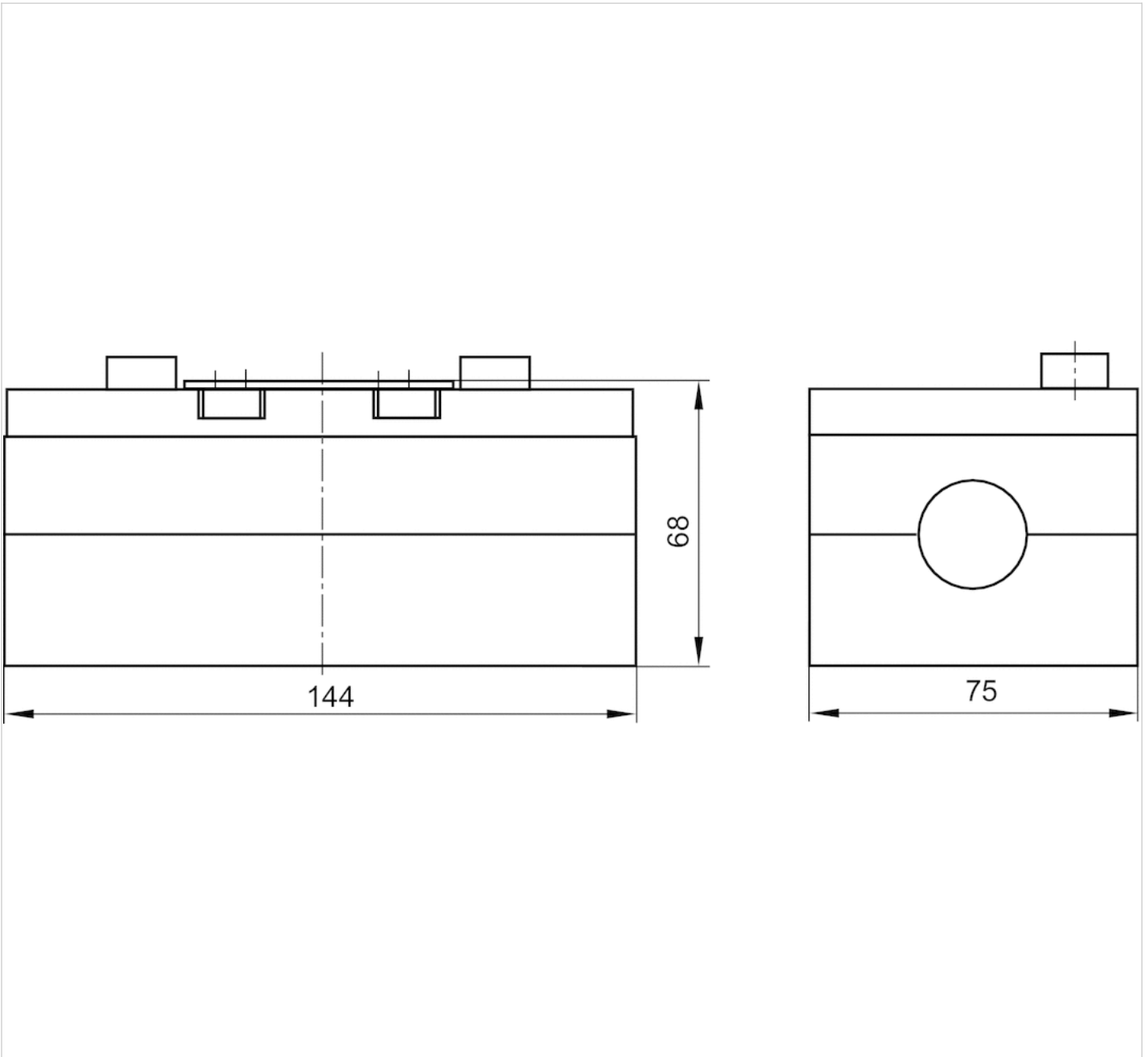
ATEX ID: see ATEX coils catalog page.

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





# 5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- 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 4
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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Nominal flow $Q_n$	6000 l/min
Flow conductance C	24,5 $\text{l}/(\text{s} \cdot \text{bar})$
Compressed air connection	according to ISO 5599
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Throttle
5814680000		-
5814681000		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).

\* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.

ATEX ID: see ATEX coils catalog page.

For internal pilot the working pressure min/max is the same as the control pressure min/max.

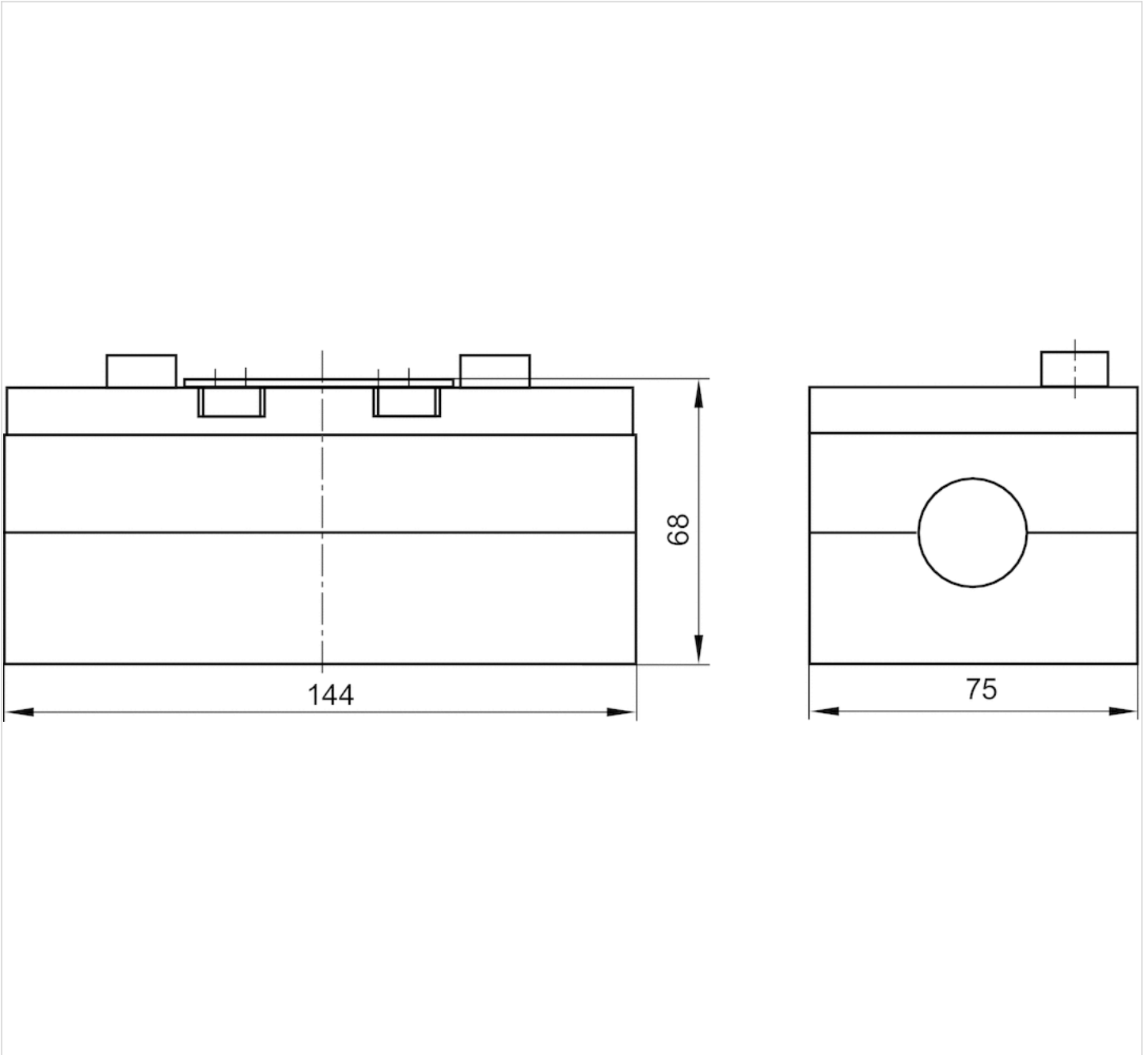
Differential piston, signal 14 has priority

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



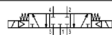
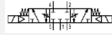
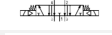

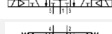
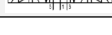
# 5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- Basic valve for CNOMO pilot valve
- closed center exhausted center pressurized center
- $Q_n = 5000 \text{ l/min}$
- 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 4
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/m <sup>3</sup>
Nominal flow $Q_n$	5000 l/min
Flow conductance C	15,5 l/(s*bar)
Compressed air connection	according to ISO 5599
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.			Throttle
5814480000		closed center	-
5814481000		closed center	with throttle
5814580000		exhausted center	-
5814581000		exhausted center	with throttle
5814780000		pressurized center	-
5814781000		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).

\* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.

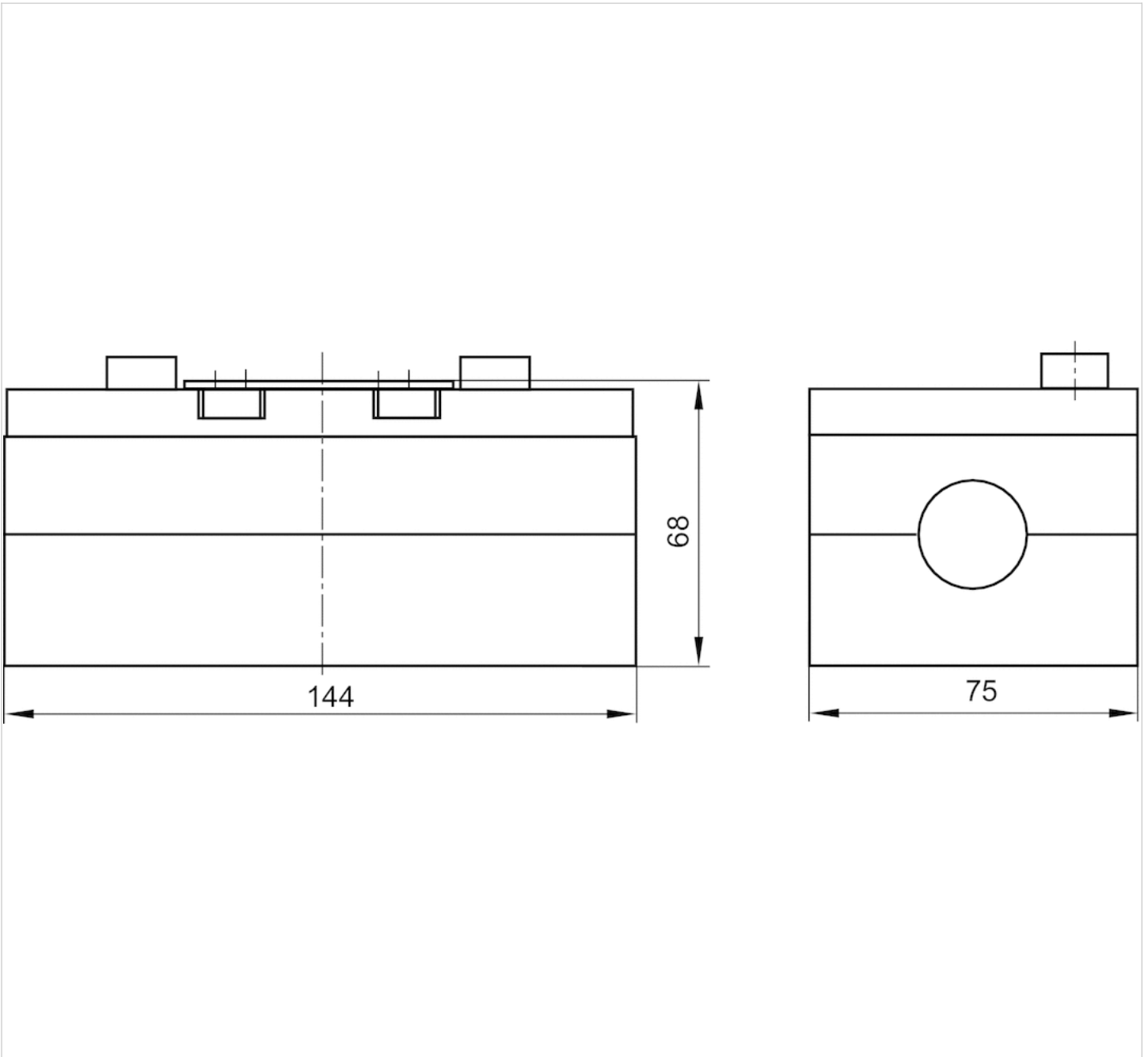
ATEX ID: see ATEX coils catalog page.

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





# 5/2-directional valve, Series 581, size 4

- Single air pilot
- $Q_n = 6000$  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 4
Nominal flow $Q_n$	6000 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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5814130000		24,5 l/(s*bar)	-	
5814131000		24,5 l/(s*bar)	with throttle	

Connection 12 must be connected with atmospheres, 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.

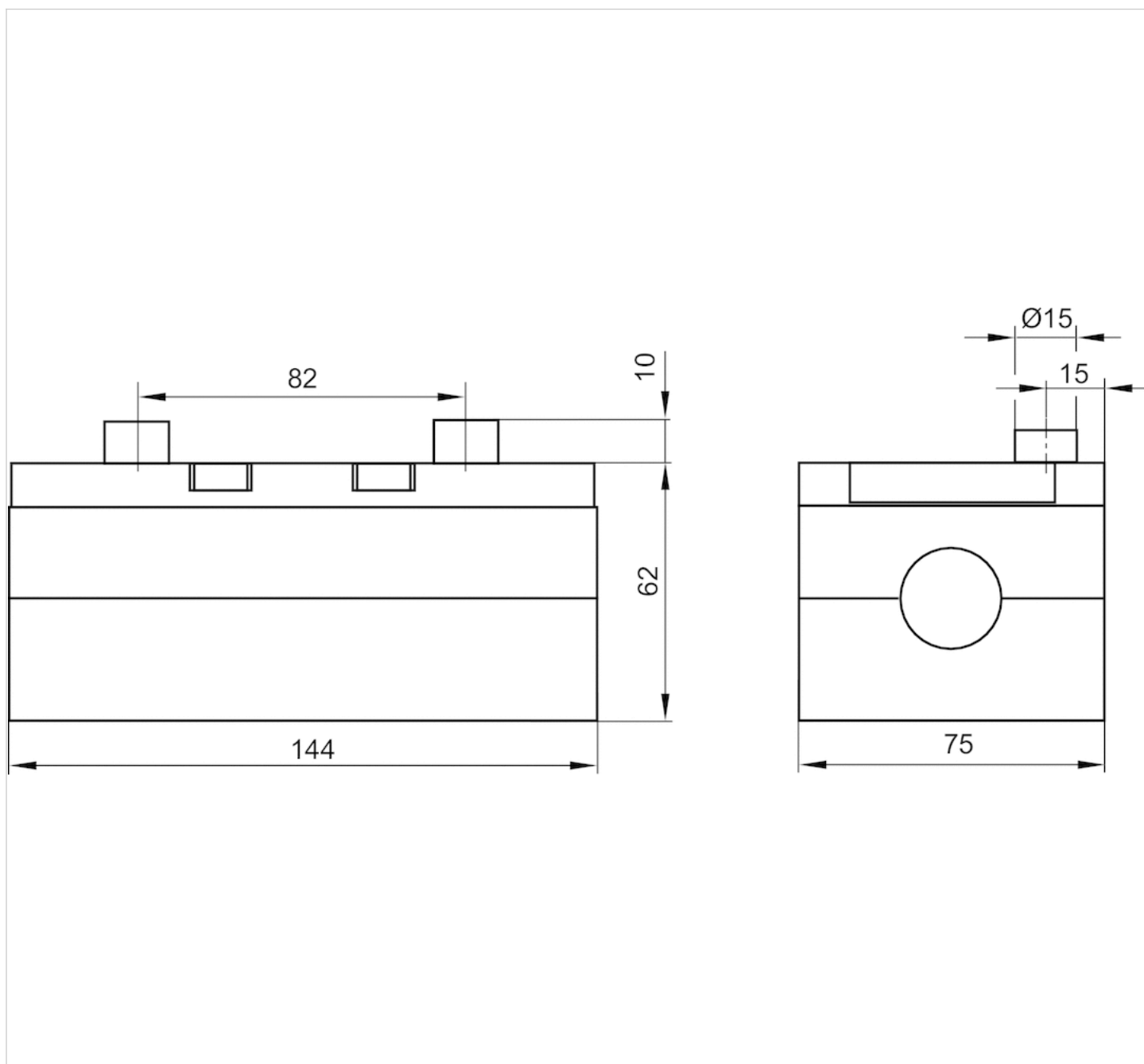
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





# 5/2-directional valve, Series 581, size 4

- double air pilot
- $Q_n = 6000 \text{ l/min}$
- 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 4
Nominal flow $Q_n$	6000 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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5814230000		24,5 l/(s*bar)	-	
5814231000		24,5 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.

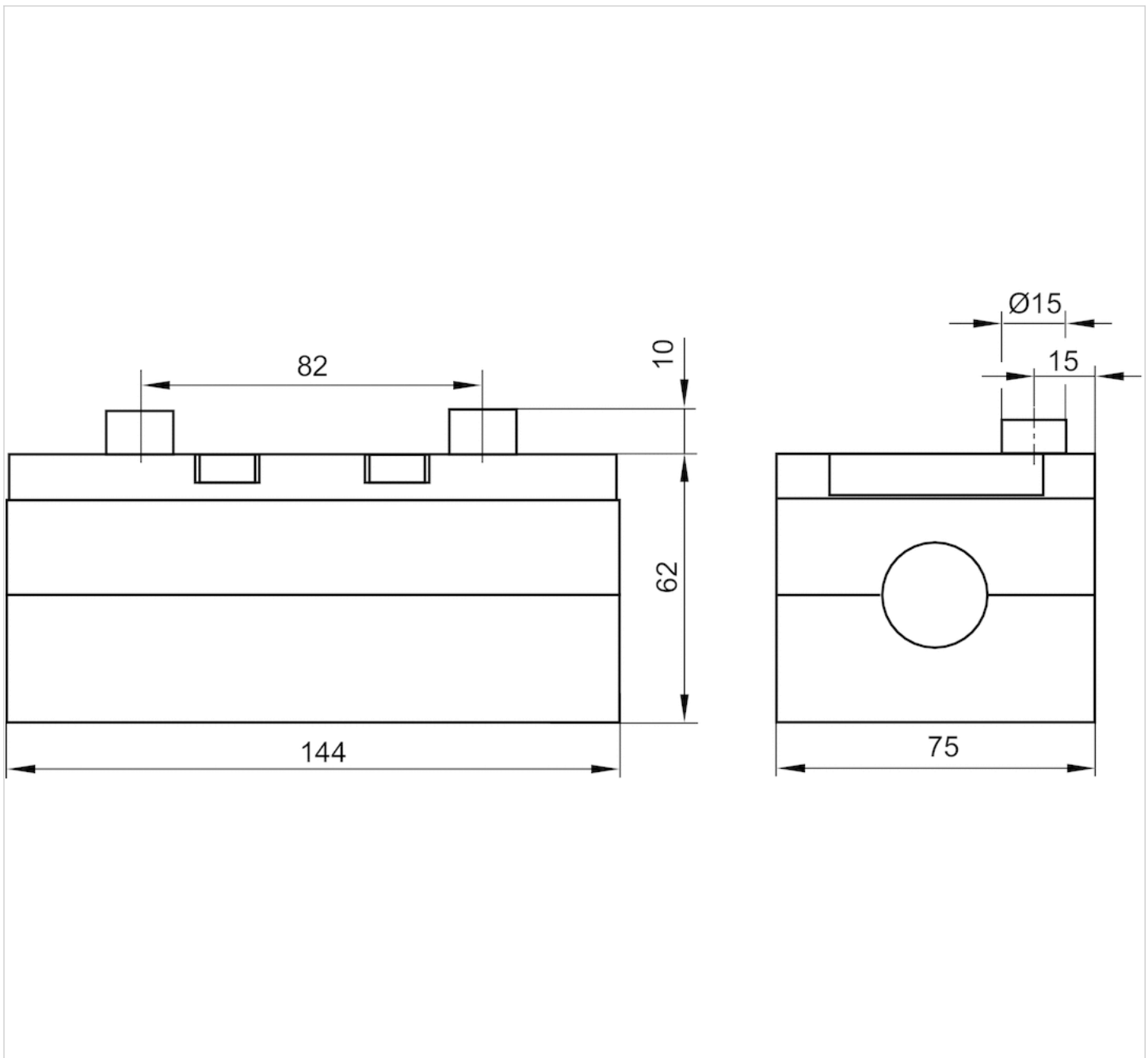
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions





# 5/2-directional valve, Series 581, size 4

- Qn = 6000 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 4
Nominal flow Qn	6000 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 <sup>3</sup>
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5814330000		24,5 l/(s*bar)	-	
5814331000		24,5 l/(s*bar)	with throttle	

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

## Technical information

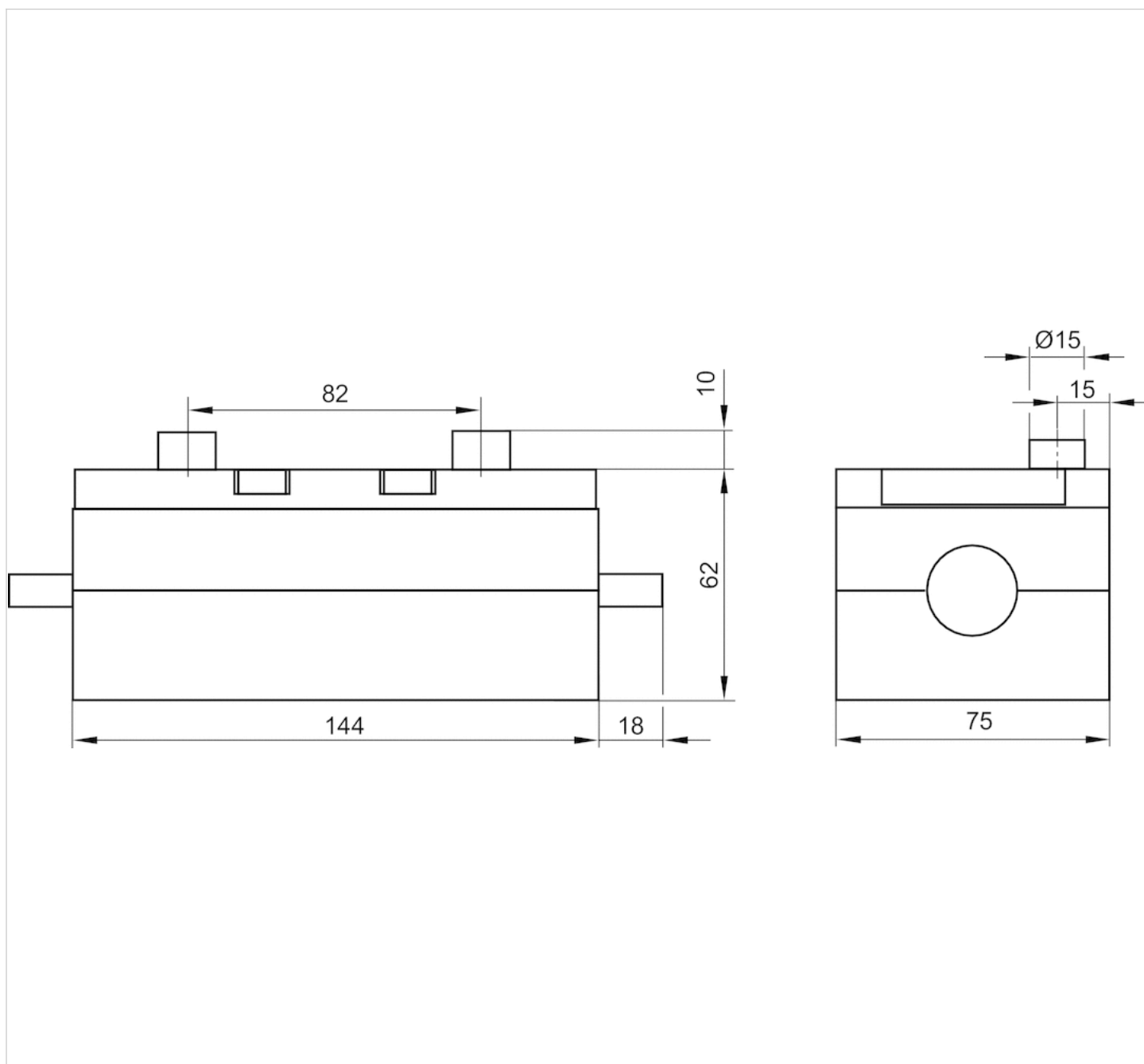
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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







# 5/2-directional valve, Series 581, size 4

- With differential piston
- $Q_n = 6000$  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 4
Nominal flow $Q_n$	6000 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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.		Flow conductance	Throttle	
		C-value		
5814630000		24,5 l/(s*bar)	-	
5814631000		24,5 l/(s*bar)	with throttle	

Differential piston, signal 14 has priority, 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.

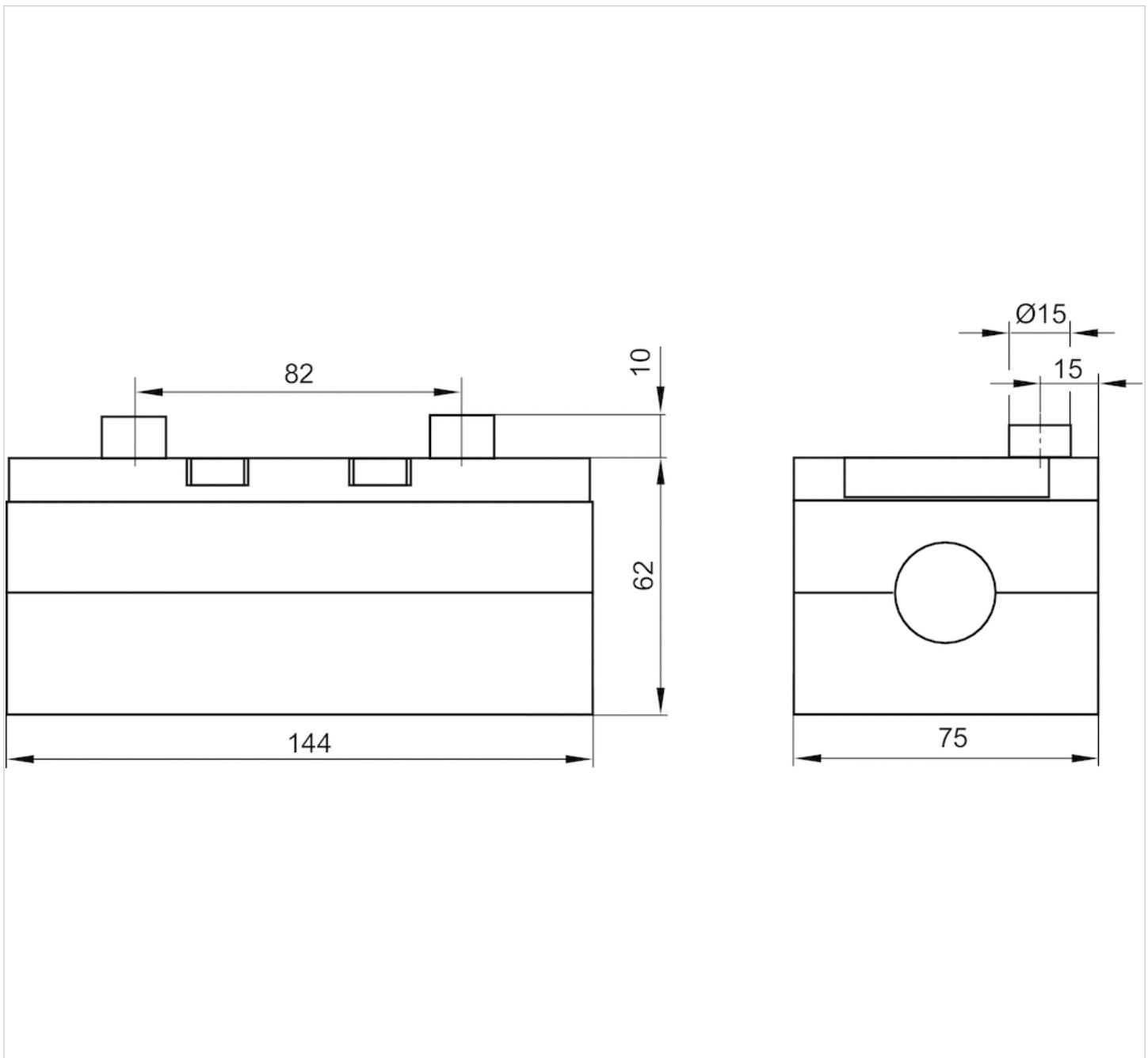
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions









# 5/3-directional valve, Series 581, size 4

- Qn = 5000 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 4
Nominal flow Qn	5000 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 <sup>3</sup>
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,28 kg

## Technical data

Part No.			Flow conductance	Throttle	
			C-value		
5814430000		closed center	15,5 l/(s*bar)	-	
5814431000		closed center	15,5 l/(s*bar)	with throttle	
5814530000		exhausted center	15,5 l/(s*bar)	-	
5814531000		exhausted center	15,5 l/(s*bar)	with throttle	
5814730000		pressurized center	15,5 l/(s*bar)	-	
5814731000		pressurized center	15,5 l/(s*bar)	with throttle	

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

## Technical information

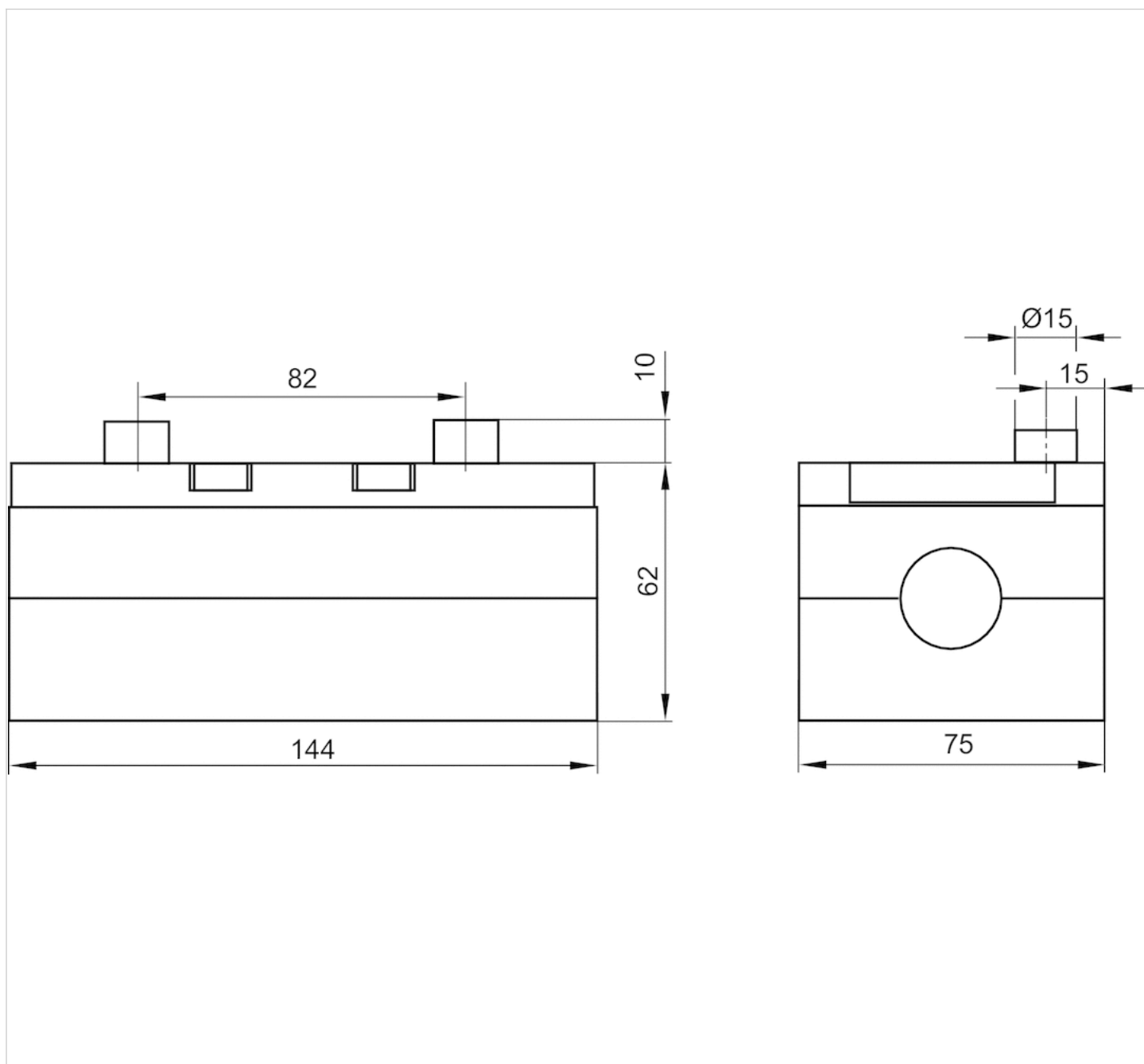
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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



# Single subbase, thread connections on the side

- standard ISO 5599-1
- Frame size ISO 4
- Compressed air connection output G 3/4
- Reversed pressure supply permissible



Standards	ISO 5599-1
Compressed air connection	according to ISO 5599-1
Working pressure min./max.	-0,95 ... 10 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	85 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	0,99 kg

## Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
8985041404	G 3/4	G 3/4

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
8985041404	G 3/4	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
8985041404	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

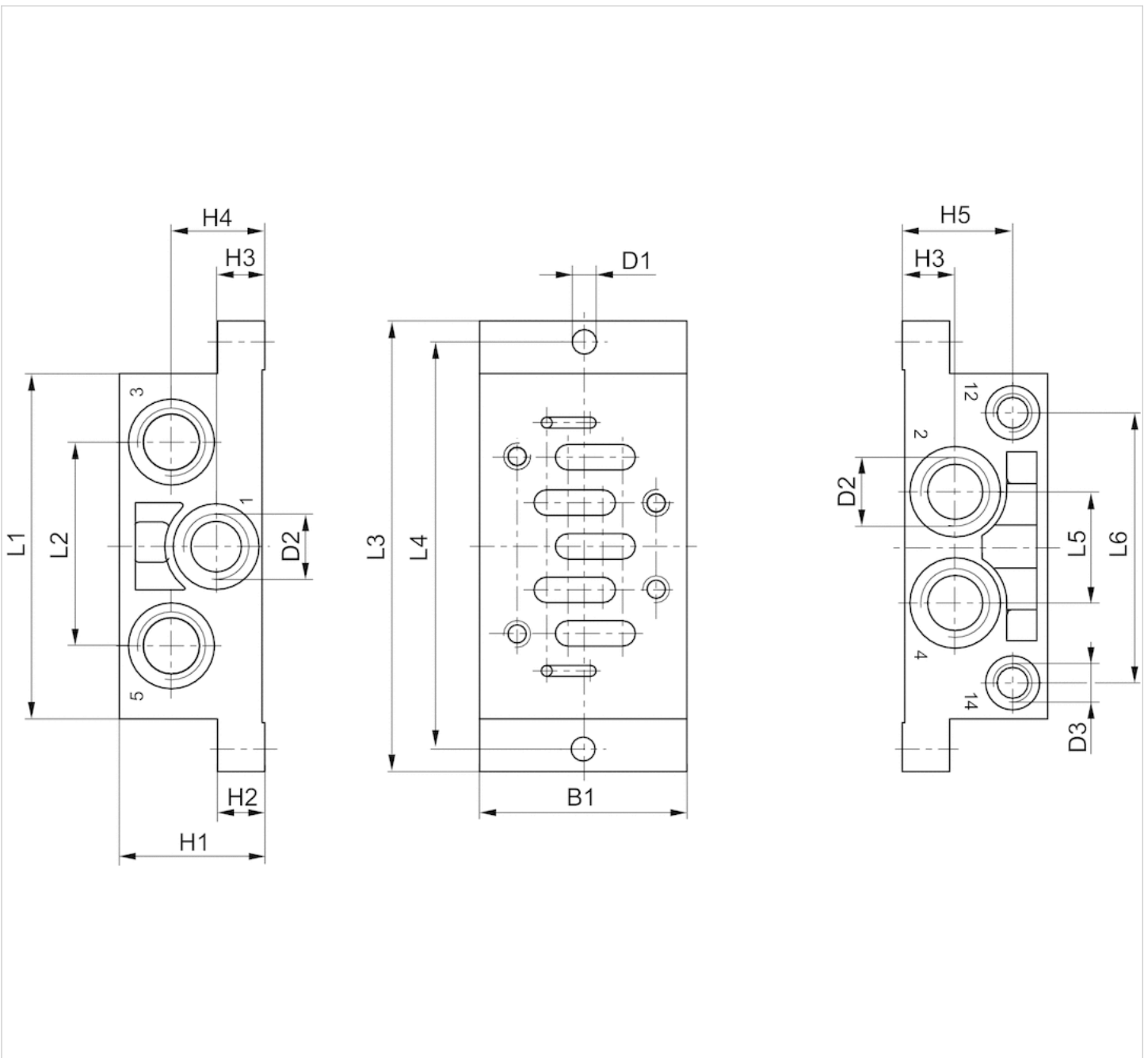
Material

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
8985041404	ISO 4	85	42	19	22	22	30	9	G 3/4	G 1/8	148	90	186	170	42	111

\*) Ports

# Single subbase, ports on side

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



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
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	0,63 kg

## Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5804710000	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
5804710000	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).

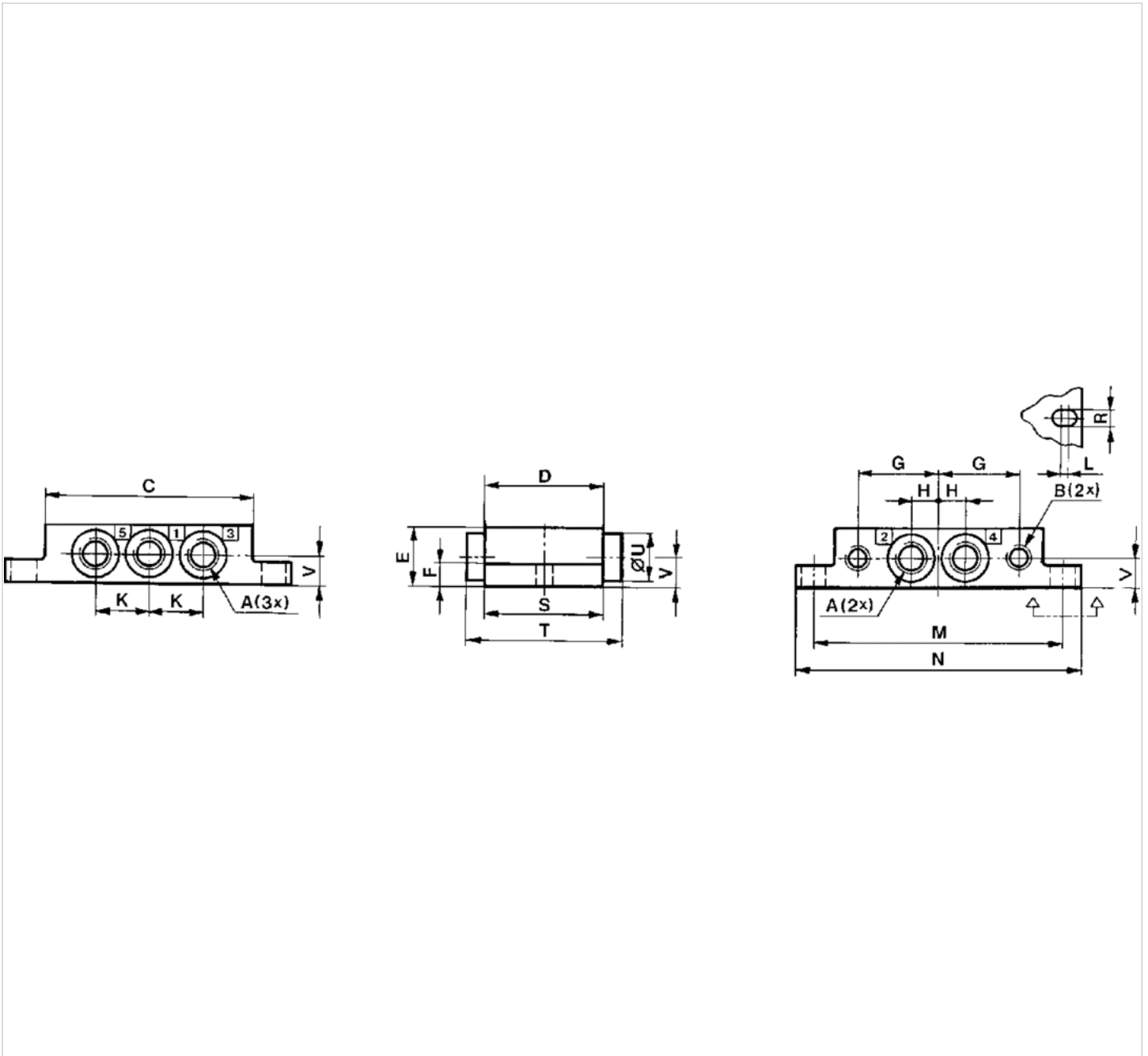
## Technical information

Material	
Base plate	Die-cast aluminum, black painted



## Dimensions

### Dimensions



## Dimensions

Part No.	Frame size	A *)	B *)	C	D	E	F	G	H	K	L	M	N	R	S	T	U	V
5804710000	ISO 4	G 1/2	G 1/8	142	76	37	10	55.5	20	40	2	175	190	8.4	76	-	-	21

\*) Ports

# Single subbase, ports on bottom

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



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
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	0,63 kg

## Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
5804700000	G 1/2	G 1/2

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [12]
5804700000	G 1/2	G 1/8

## Technical information

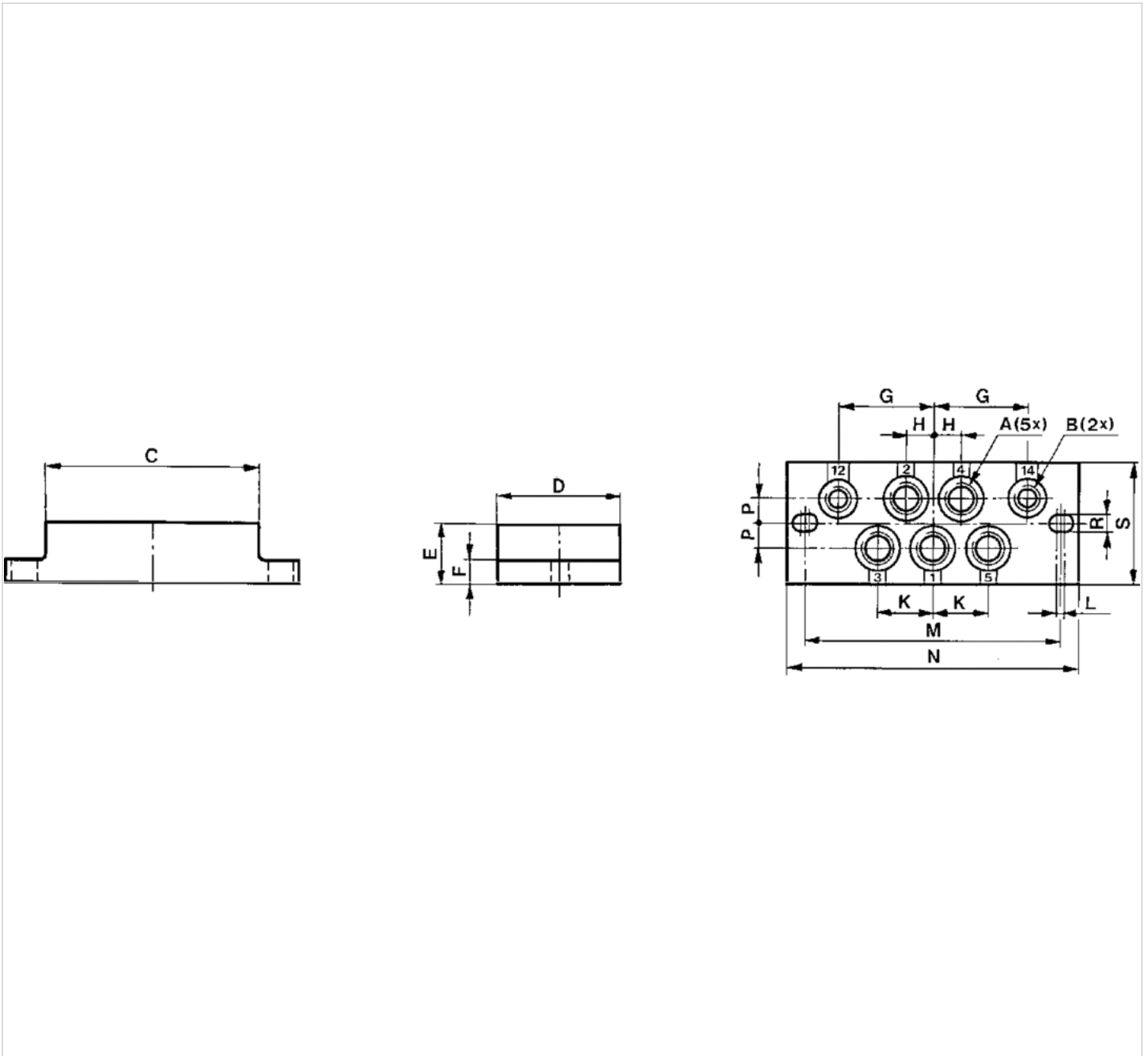
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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



## Dimensions

Part No.	Frame size	A *)	B *)	C	D	E	F	G	H	K	L	M	N	P	R	S
5804700000	ISO 4	G1/2	G1/8	142	76	37	10	55.5	20	40	2	175	190	13	8.4	76

\*) Ports

# 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

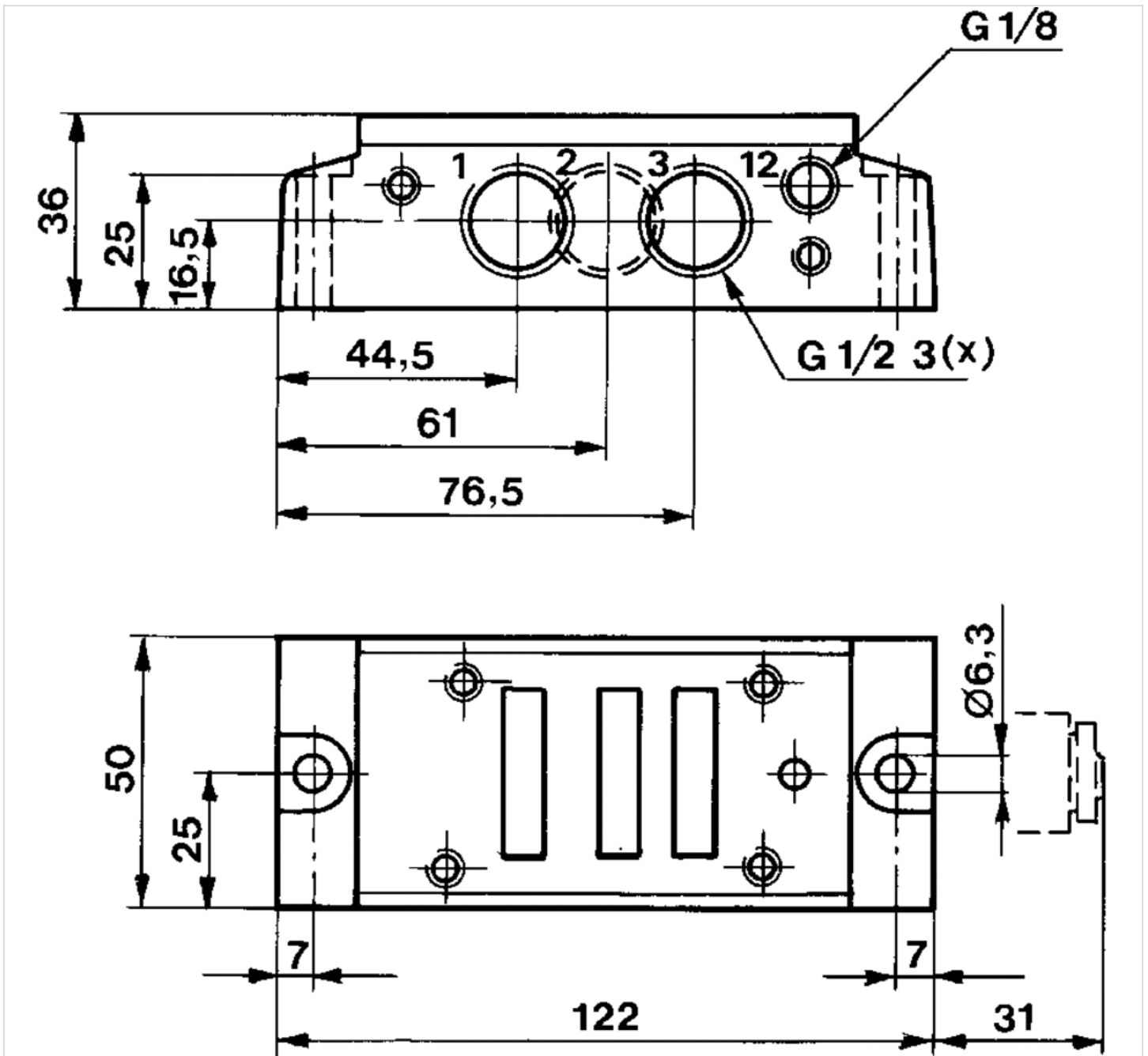
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.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



# Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 4
- type F
- Compressed air connection output G 3/4
- 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 ... 10 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	82 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
Weight	1,37 kg

## Technical data

Part No.	Compressed air connection Output [2 / 4]	Compressed air connection Pilot connection [12]
8985041422	G 3/4	G 1/8

Part No.	Compressed air connection Pilot control exhaust [R]
8985041422	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).

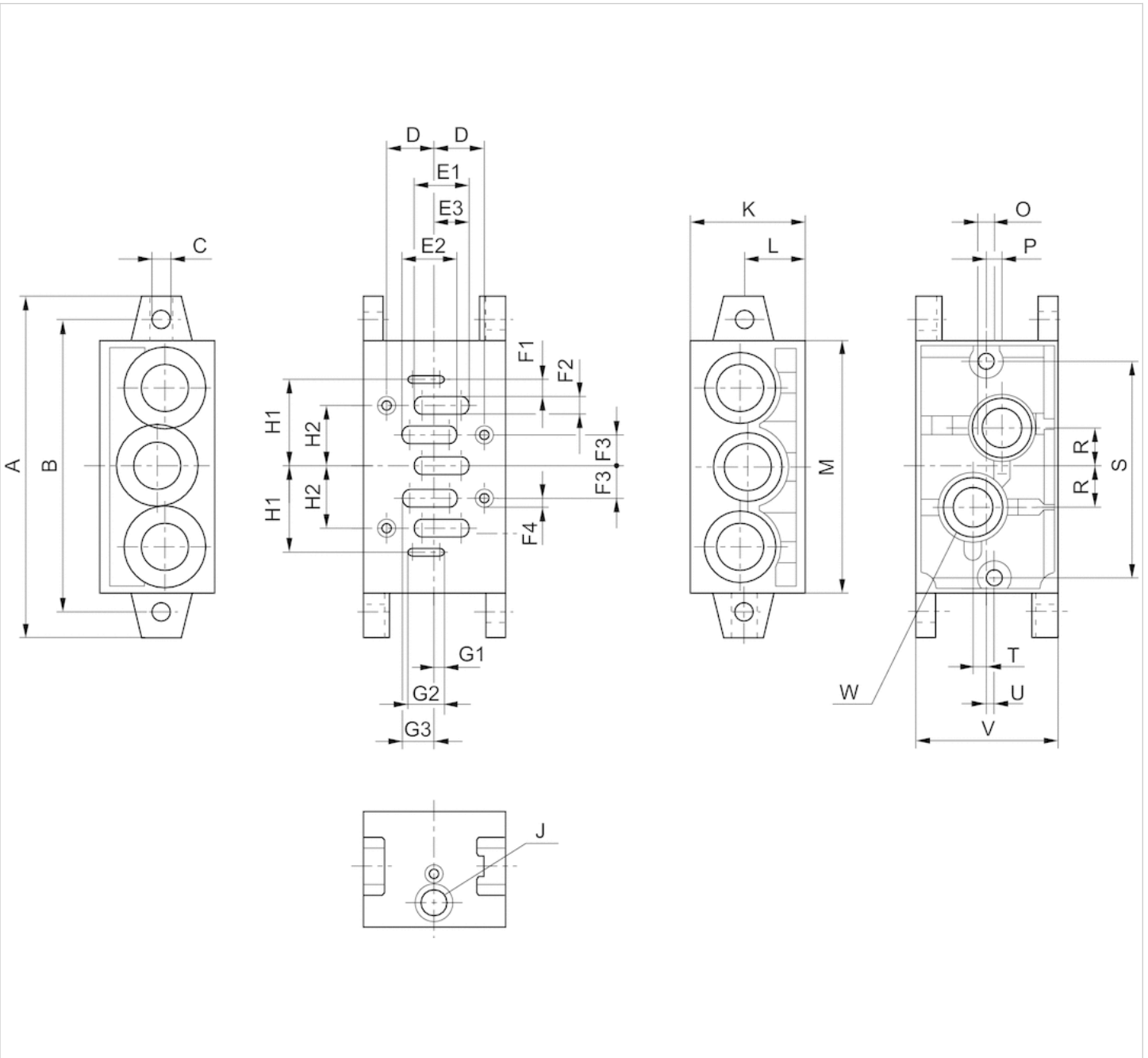
## Technical information

### Material

Base plate	Die-cast aluminum
Seal	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



## Dimensions

Part No.	A	B	C	D	E1	E2	E3	F1	F2	F3	F4	G1	G2	G3	H1	H2	J	K	L	M	O	P	R	S	T	U	V
8985041422	215	184	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55	30	142	M8	8	26	—	9	3	82

W
G 3/4



# End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 4
- type F
- Can be assembled into blocks
- Base plate principle, multiple
- Reversed pressure supply permissible



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
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
Weight	1,32 kg

## Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]
8985041442	G 1	G 1

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

## Technical information

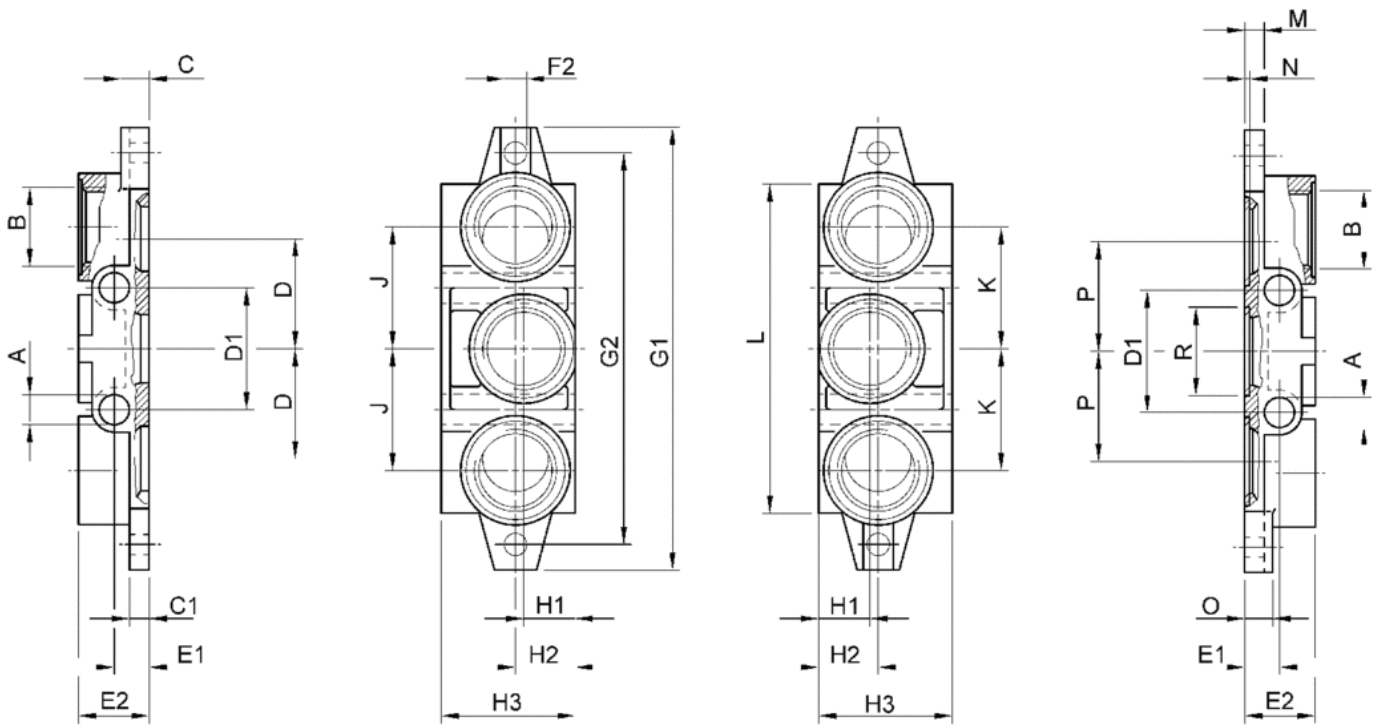
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.  
 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	M	N	O	P	R
8985041442	12	G 1	19	12	54	56	15	30	Ø 11	215	148	30	30	58	54	54	12	2,7	19	54	Ø 44,1

# Blanking plate

- standard ISO 5599-1

- Frame size ISO 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
Weight	0,27 kg

## Technical data

Part No.

5804870000

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.

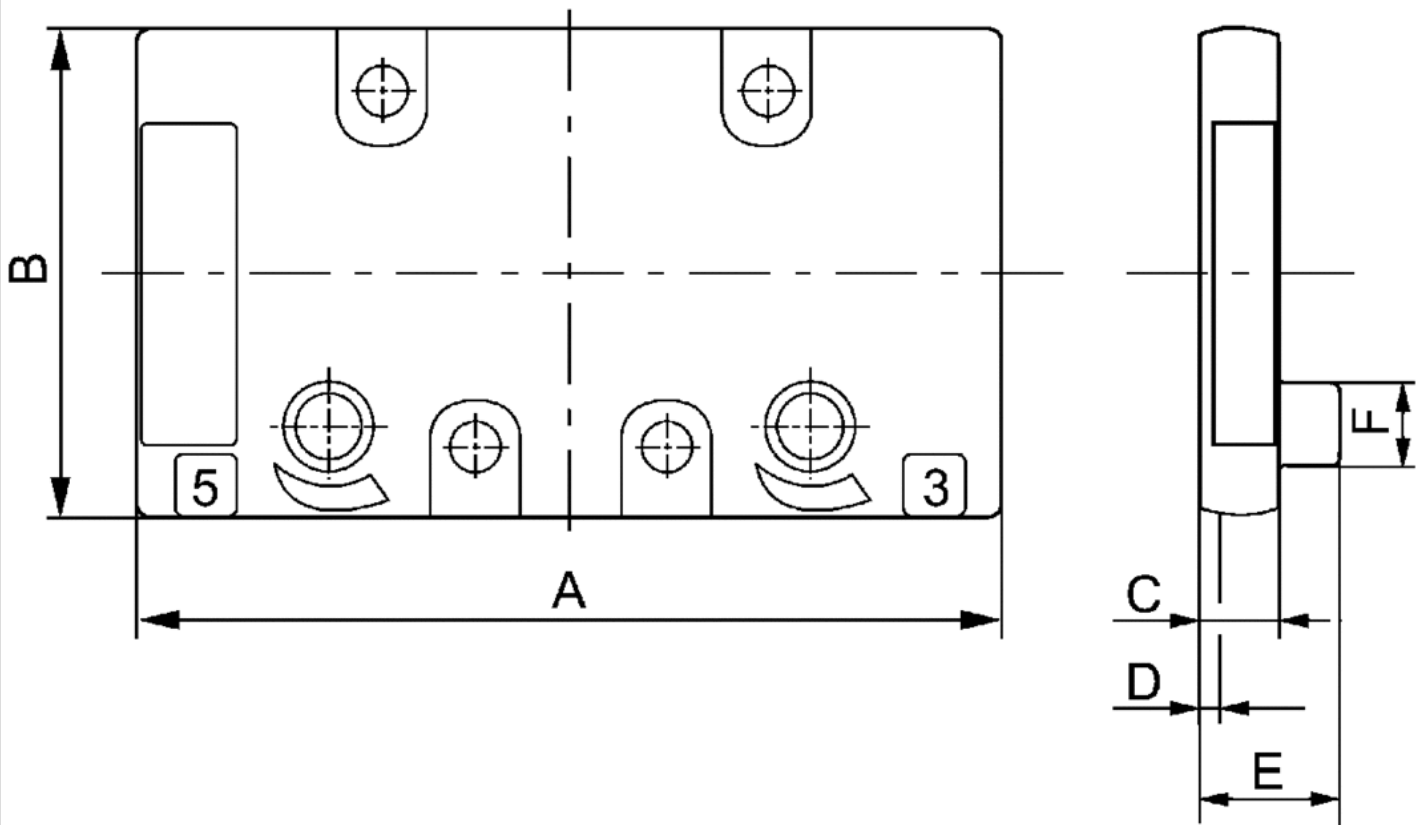
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## 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
5804870000	142.5	74.5	10	2	20	15	0,27 kg

# throttle insert for flow control in 3/5

- for 581, size 4



Weight

0,1 kg

## Technical data

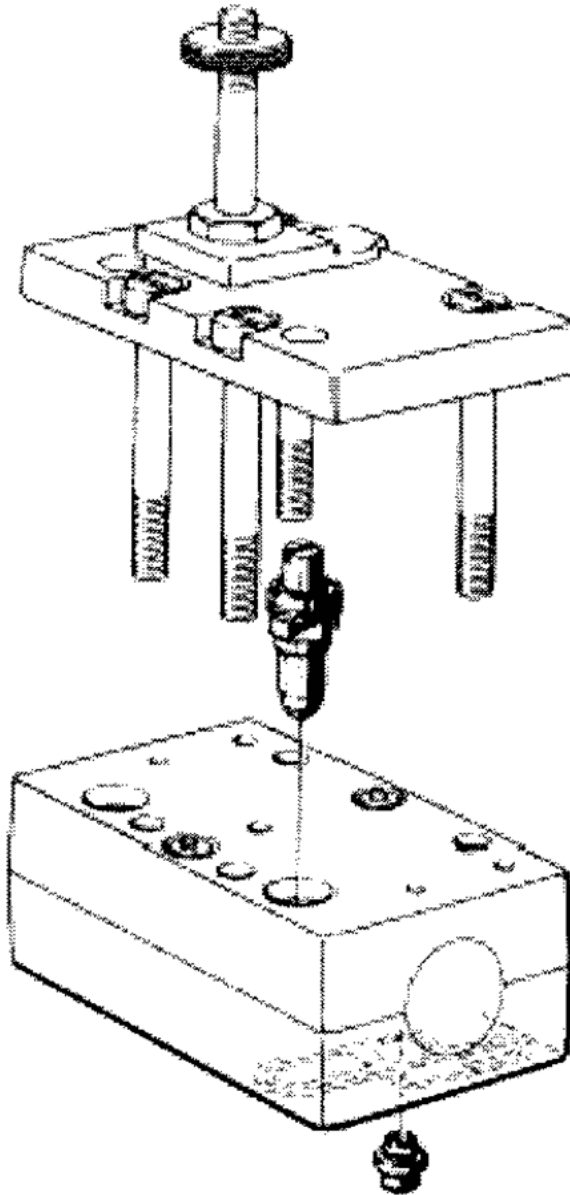
Part No.

5814001000

delivered in pairs incl. plug set

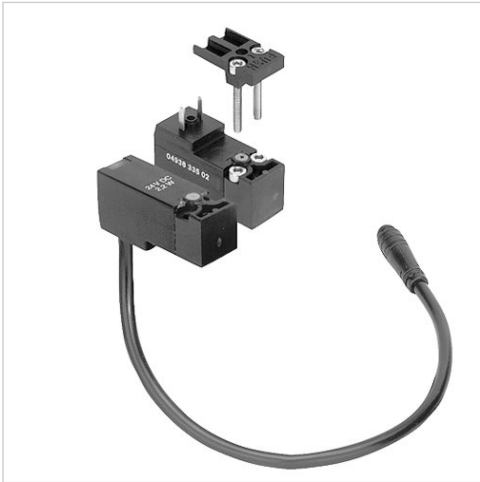
## Dimensions

### 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)

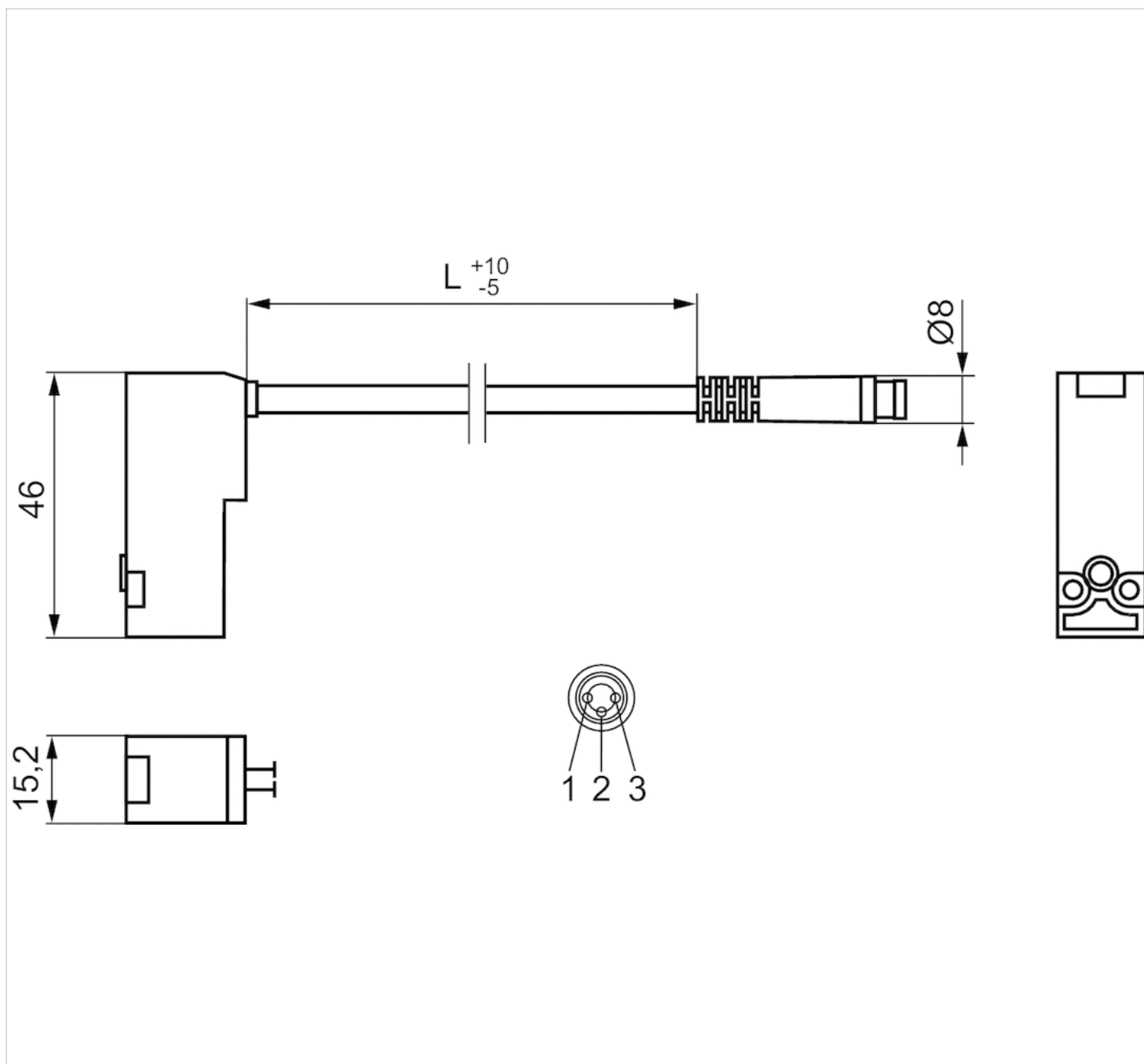
1) For valve plug connectors

## 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

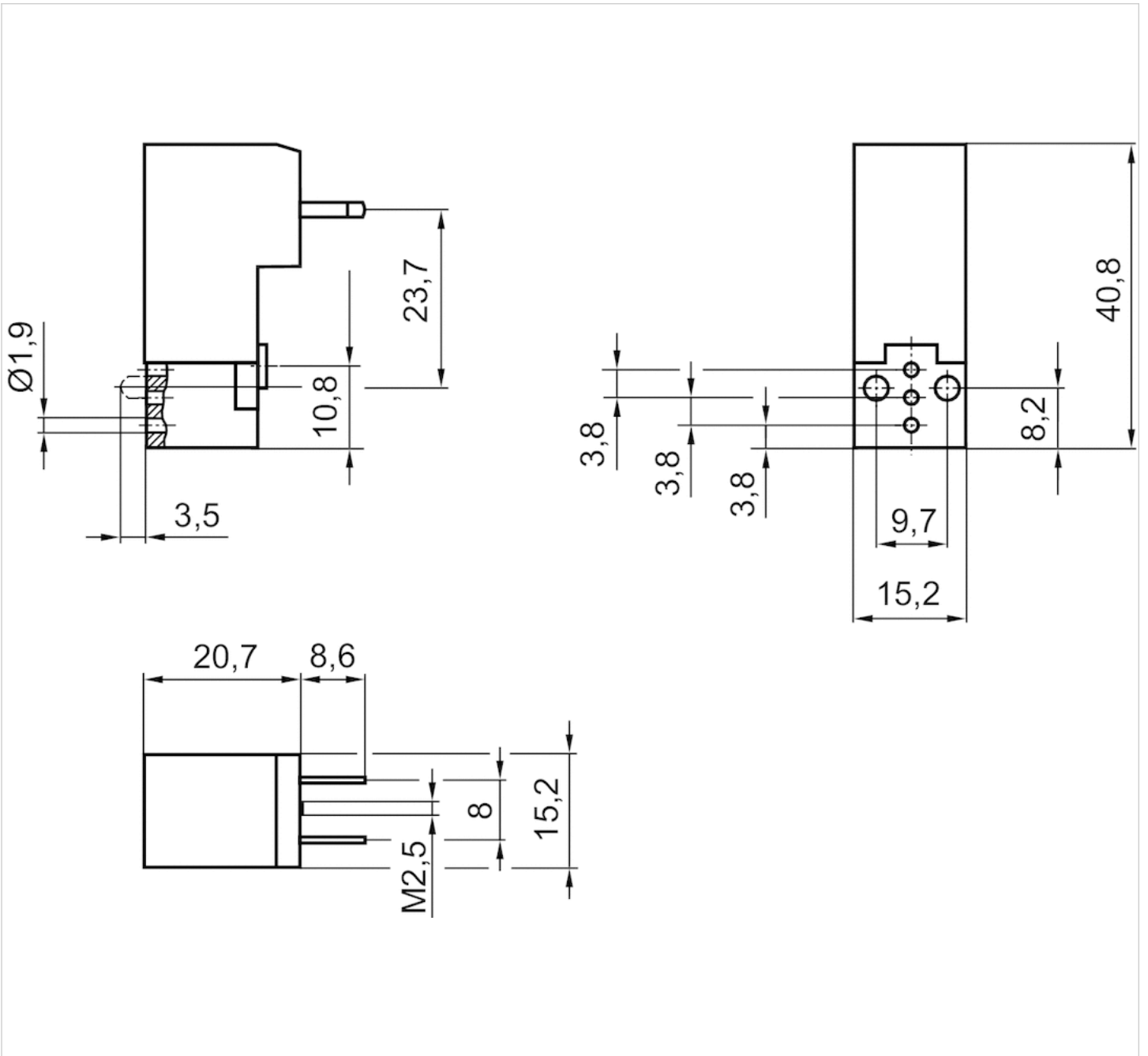


Pin assignment

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

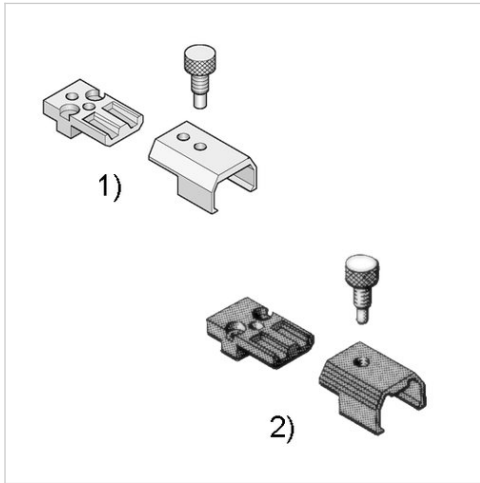


Fig. 2



# 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

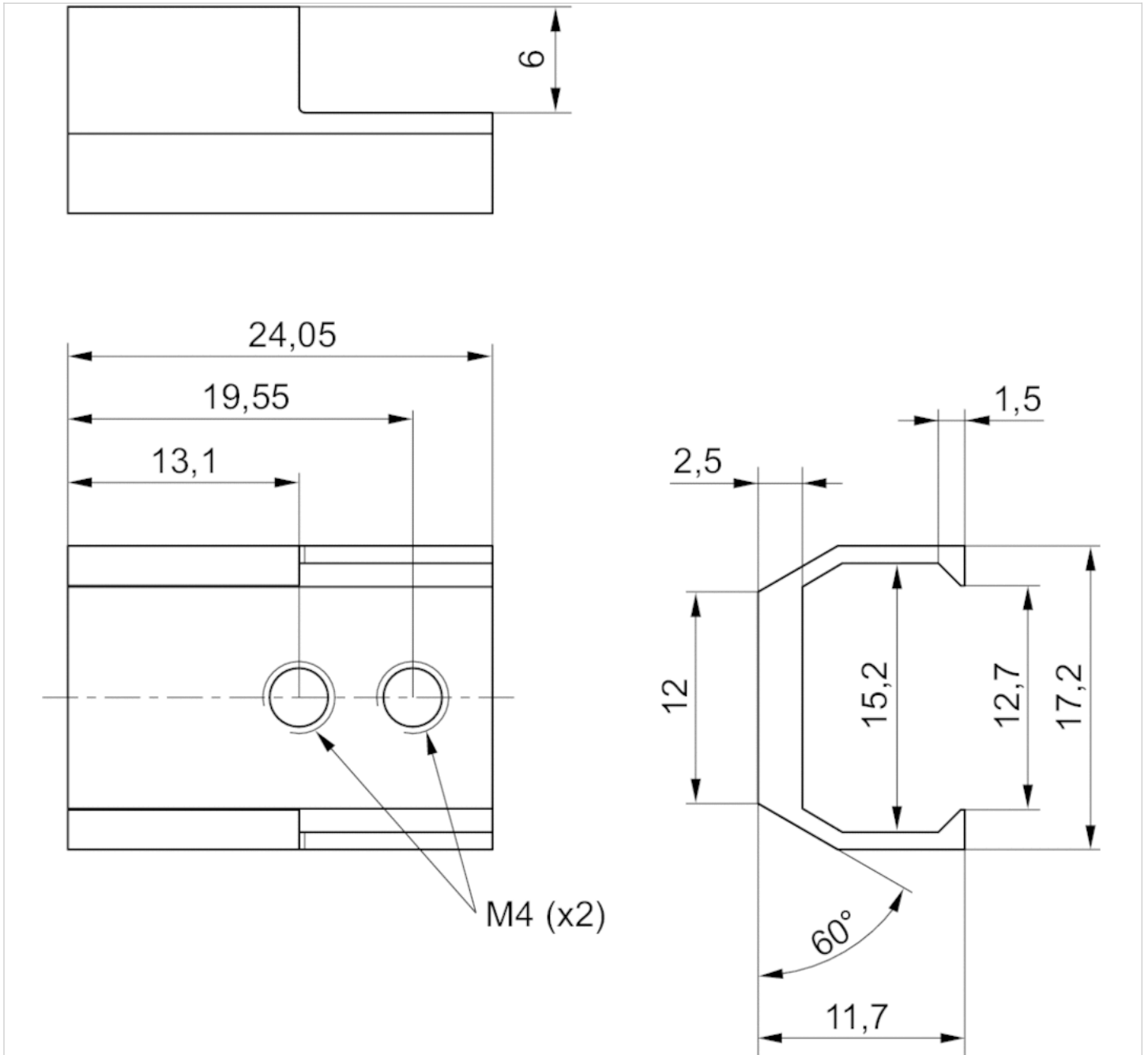
Part No.

0493835718

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

## Dimensions

### Dimensions

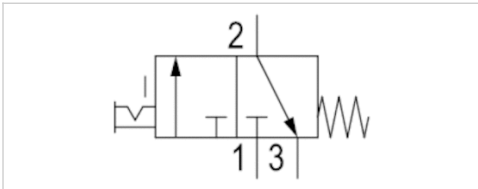


# Pilot valve

- 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	-	-

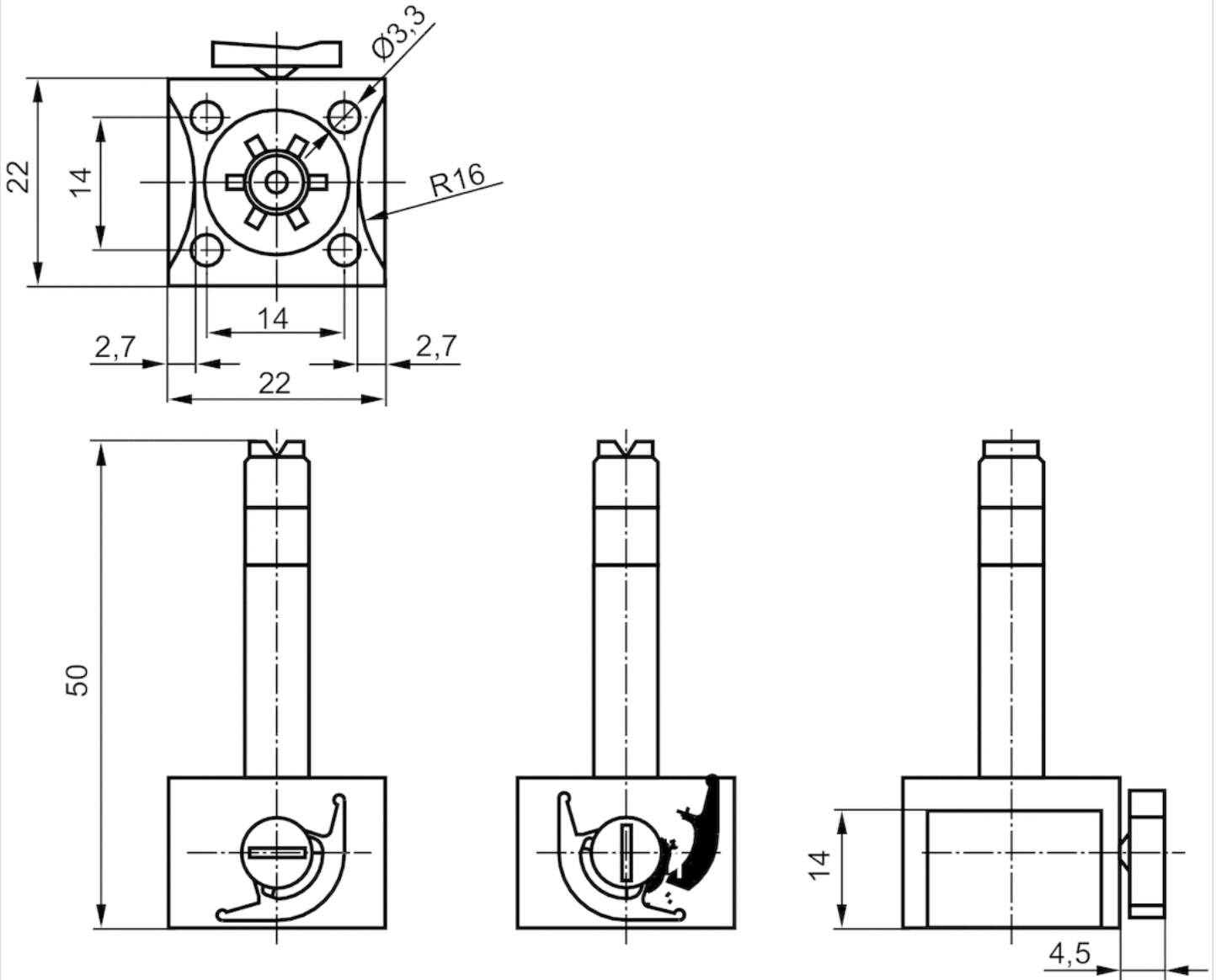
Part No.	Power consumption DC	Power consumption	Weight
0493818805	5 W	-	0,031 kg
0493818902	2 W	Low power consumption	0,03 kg

## 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 C01

- 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	-

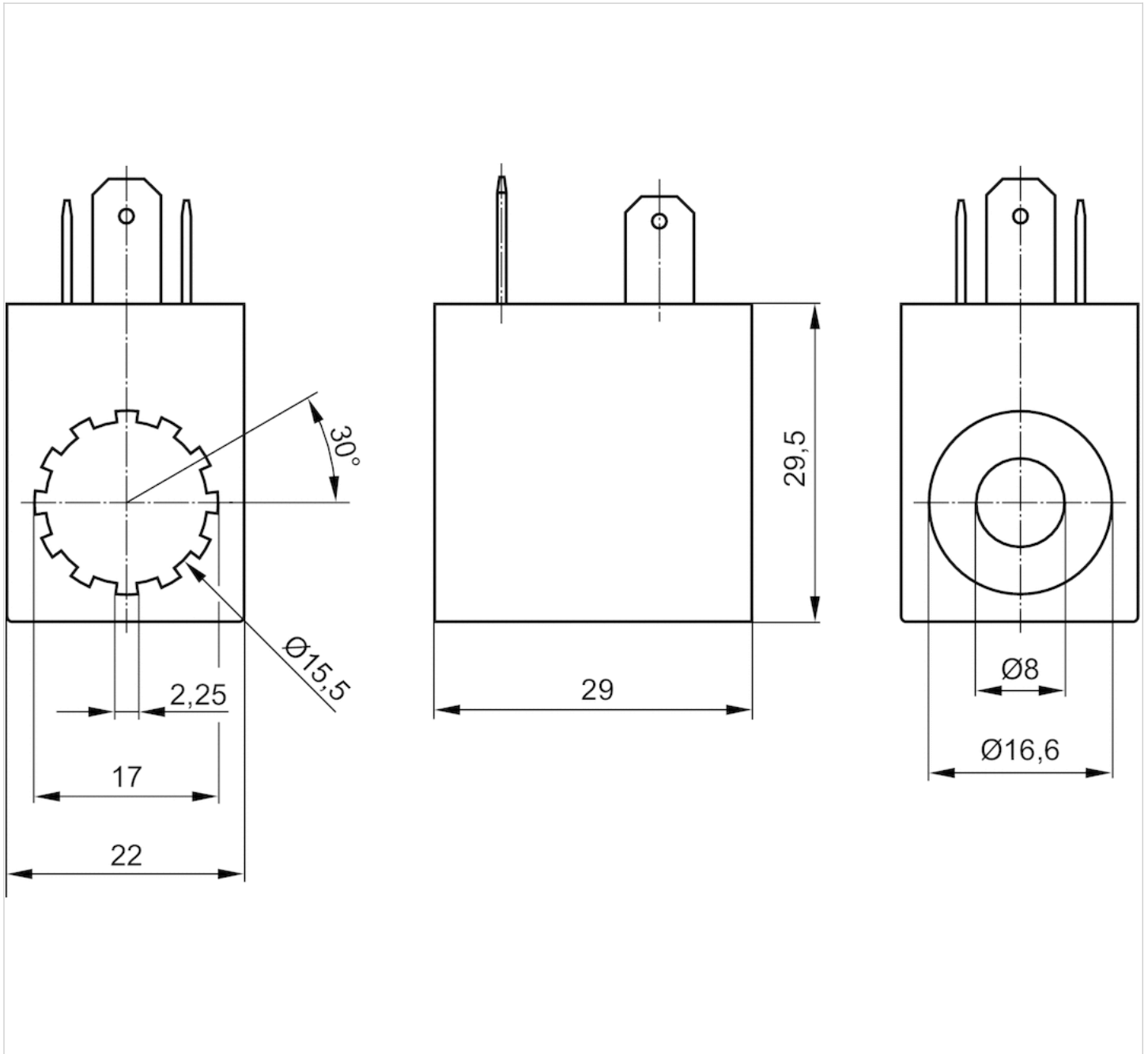
Part No.	Voltage tolerance	Power consumption	Holding power	Switch-on power
	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
0498317405	-	5 W	-	-
0498317502	-	5 W	-	-
0498318800	-	2 W	-	-
0498317618	-	5 W	-	-
0498317707	-	5 W	-	-
0498317804	-	5 W	-	-
0498316905	-10% / +10%	-	8 VA	10 VA
0498317006	-10% / +10%	-	8 VA	10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

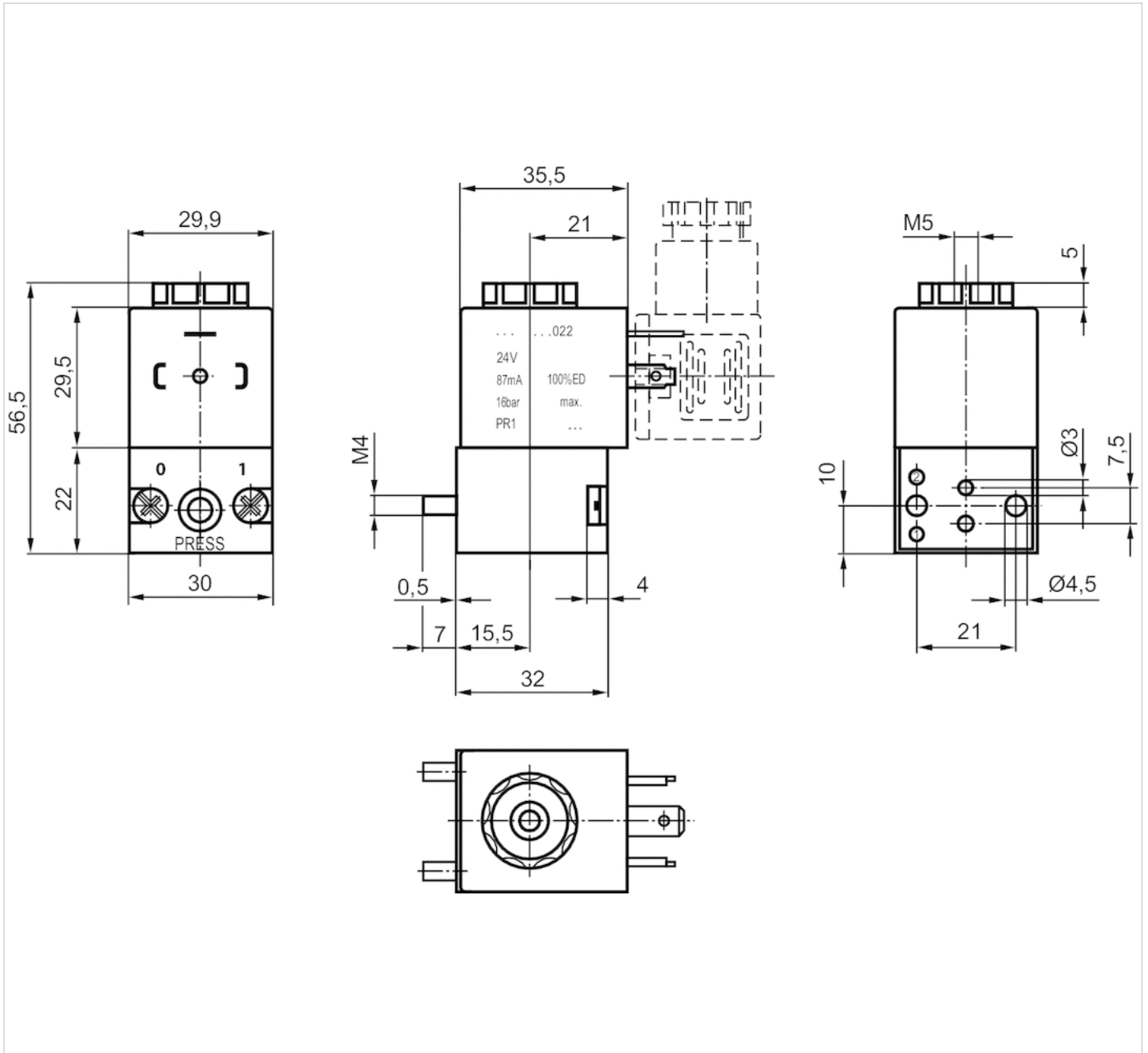
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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/m <sup>3</sup>
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	
			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	
	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	
	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	
		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).

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

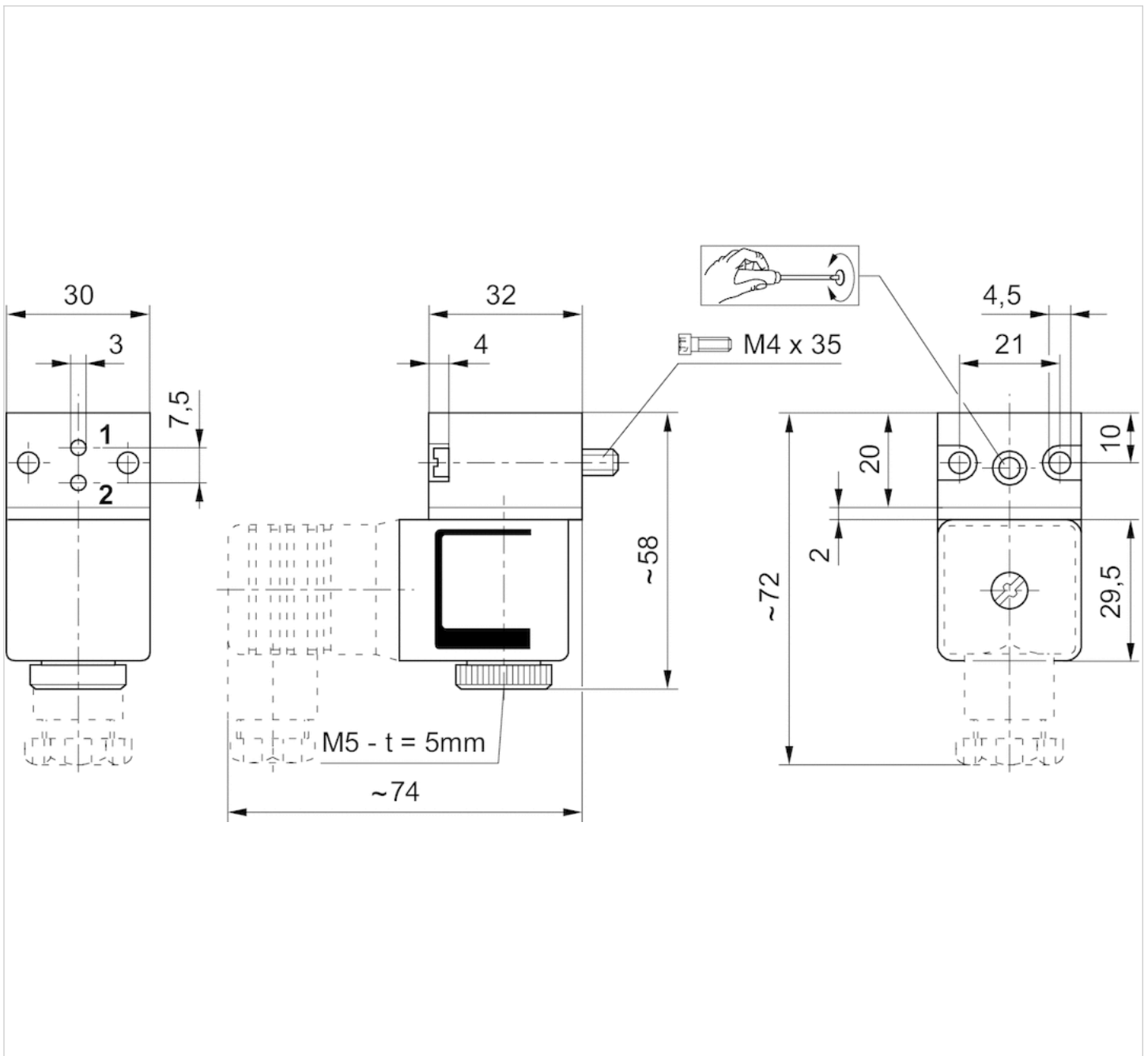
## Technical information

### Material

Housing	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

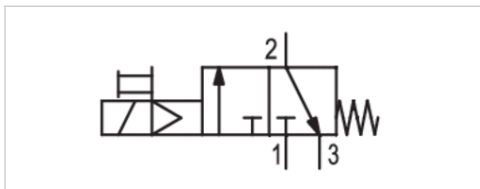
Electrically

0 ... 16 bar

-10 ... 50 °C

Compressed air Compressed air

0,15 kg



## Technical data

Part No.	Operational voltage		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  $Q_n$  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!

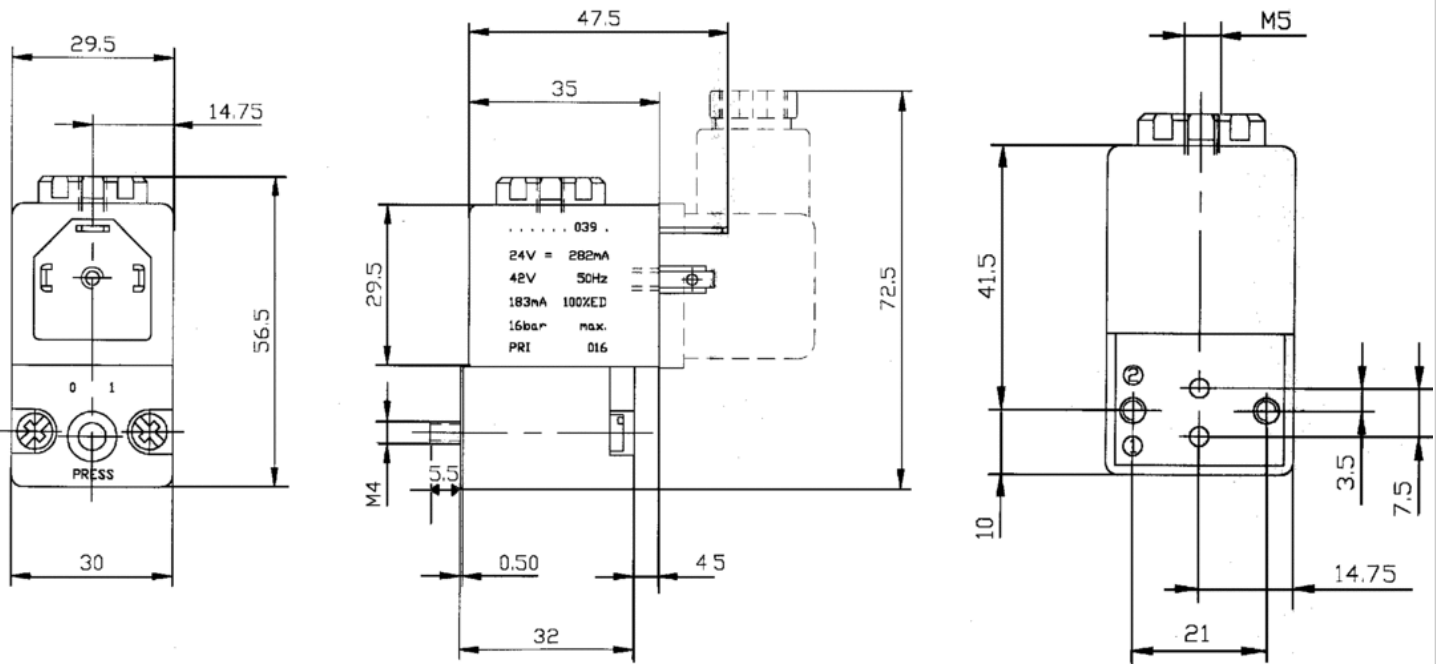
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

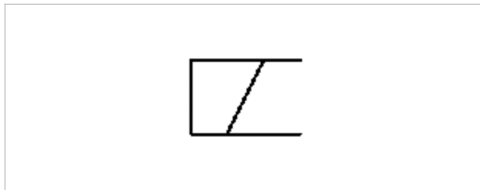
# Dimensions

## 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
ATEX class G	II 2G Ex mb IIC T4 Gb
ATEX class D	II 2D Ex mb tb IIIC T130°C Db IP65
Ambient temperature min./max.	-20 ... 50 °C
Protection class	IP65
Duty cycle ED	100 %
Compatibility index	14
Weight	See table below

## Technical data

Part No.	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	-	-

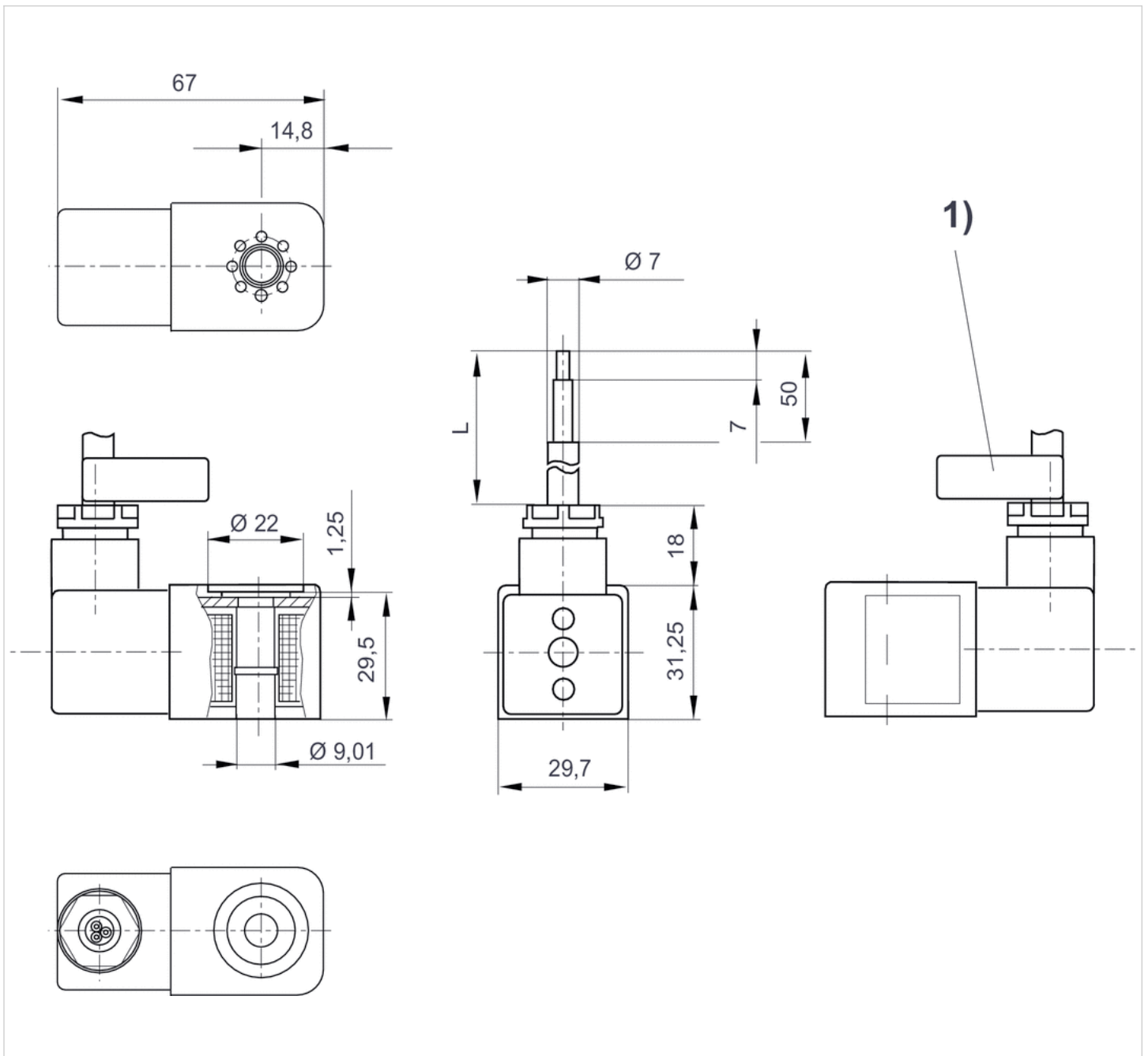
Part No.	Voltage tolerance		Power consumption		Holding power	
	DC	AC 50 Hz	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA	-	3 VA
1827414298	-	-10% / +10%	-	3 VA	-	3 VA
1827414299	-	-10% / +10%	-	2,9 VA	-	2,9 VA
1827414301	-	-10% / +10%	-	2,9 VA	-	2,9 VA
1827414303	-10% / +10%	-	3,25 W	-	-	-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

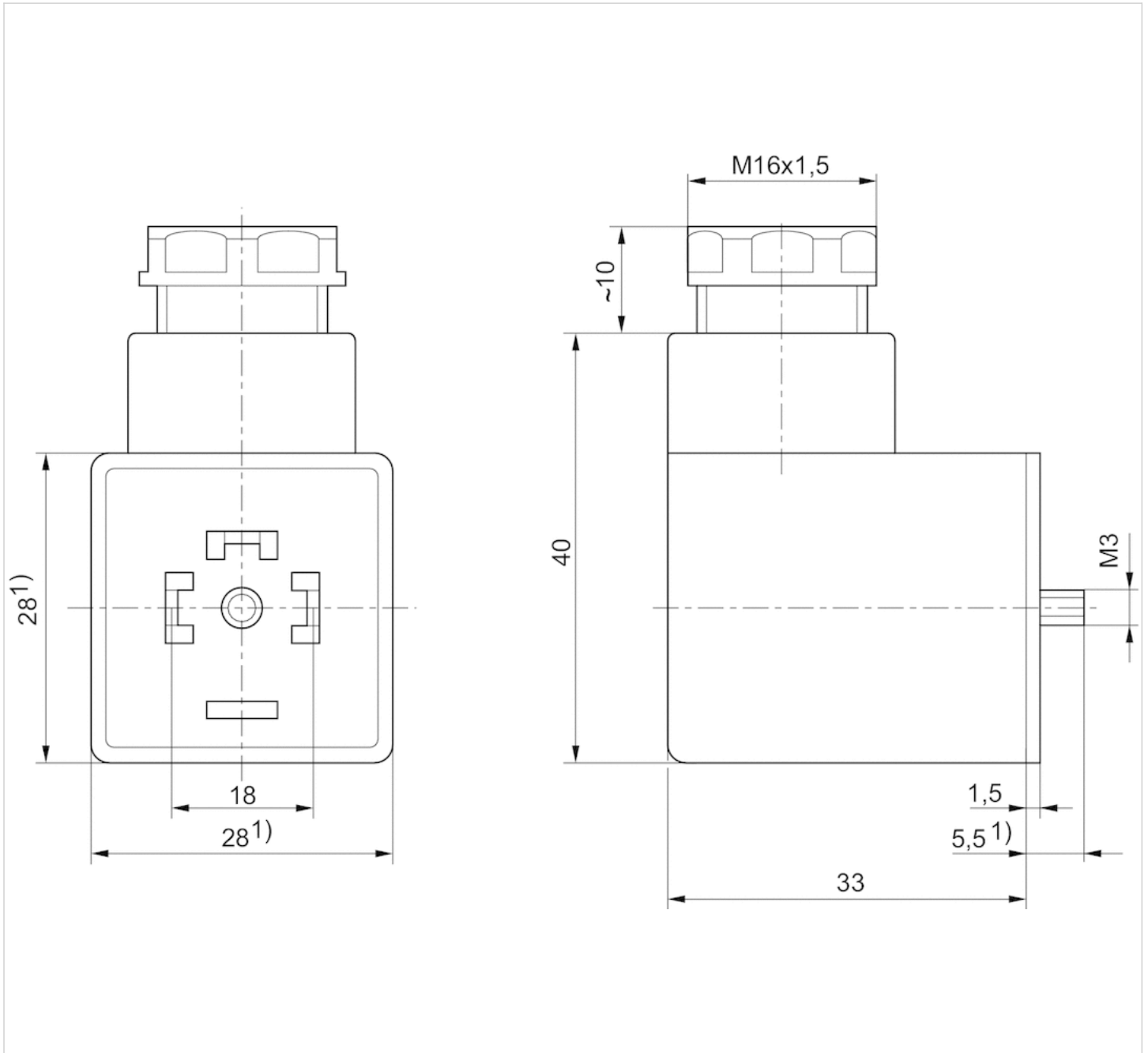
### Material

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 <sup>2</sup>
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

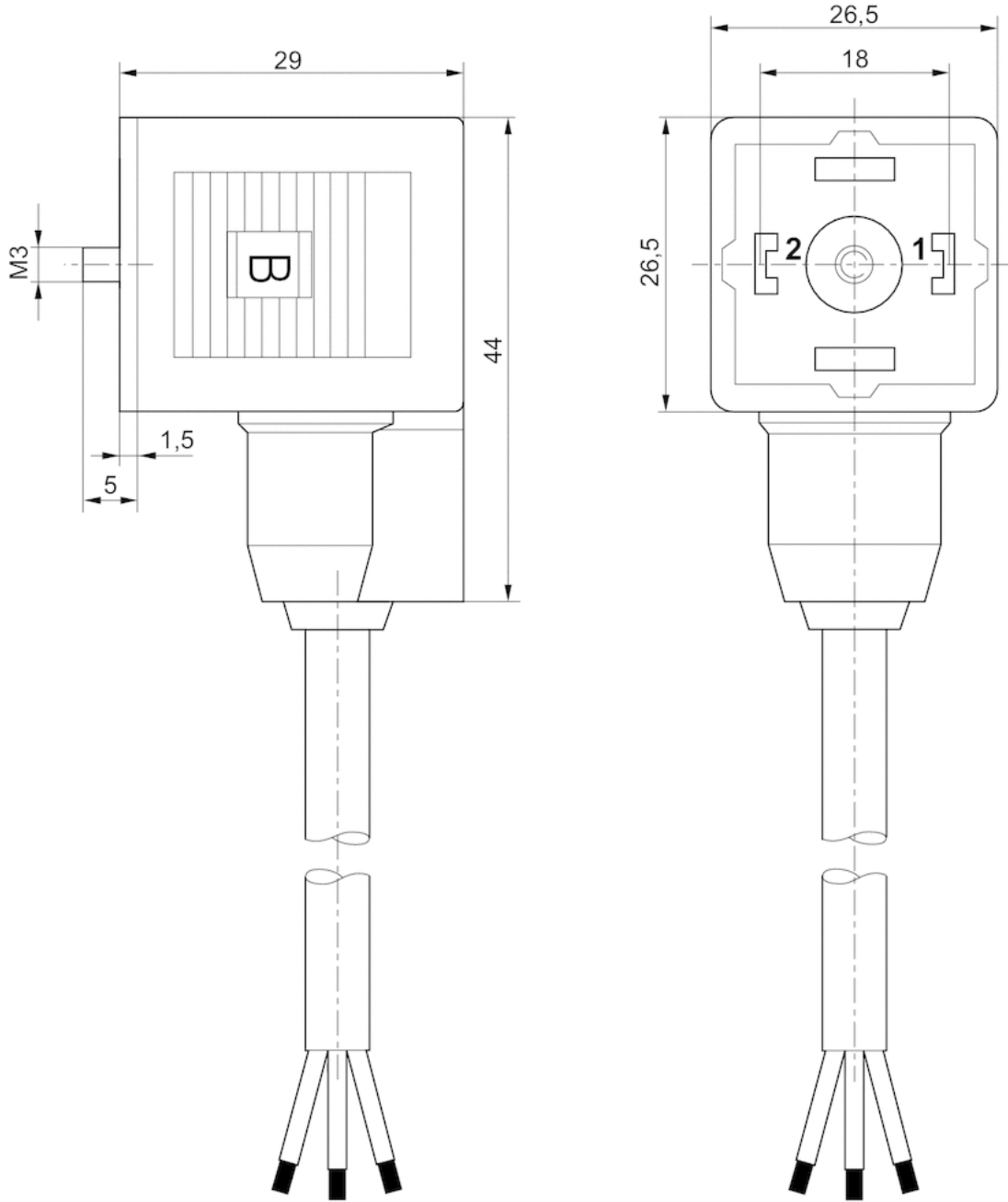
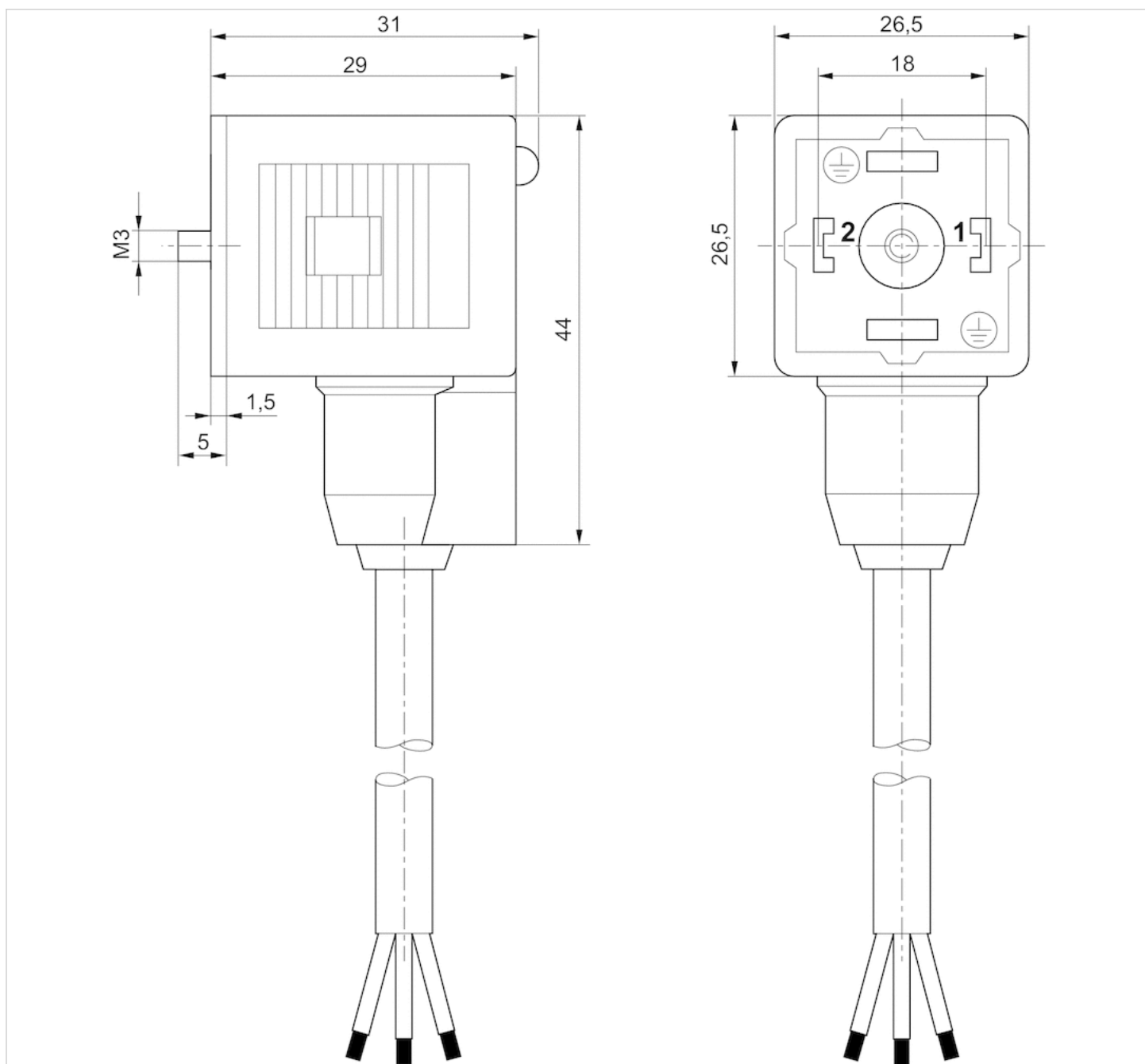


Fig. 2



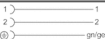
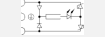
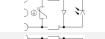
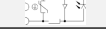
# Valve plug connector, series CON-VP

- 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

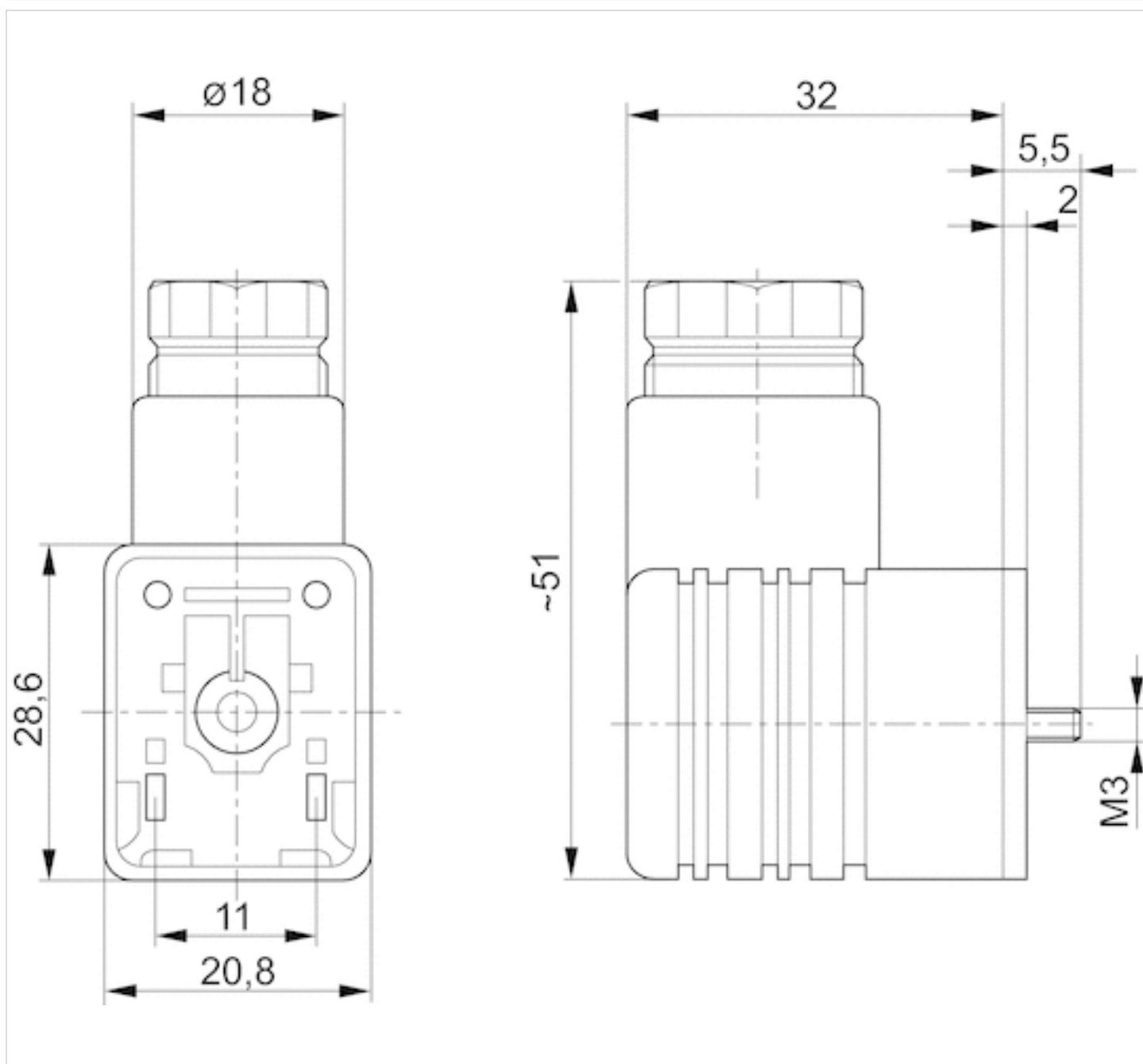
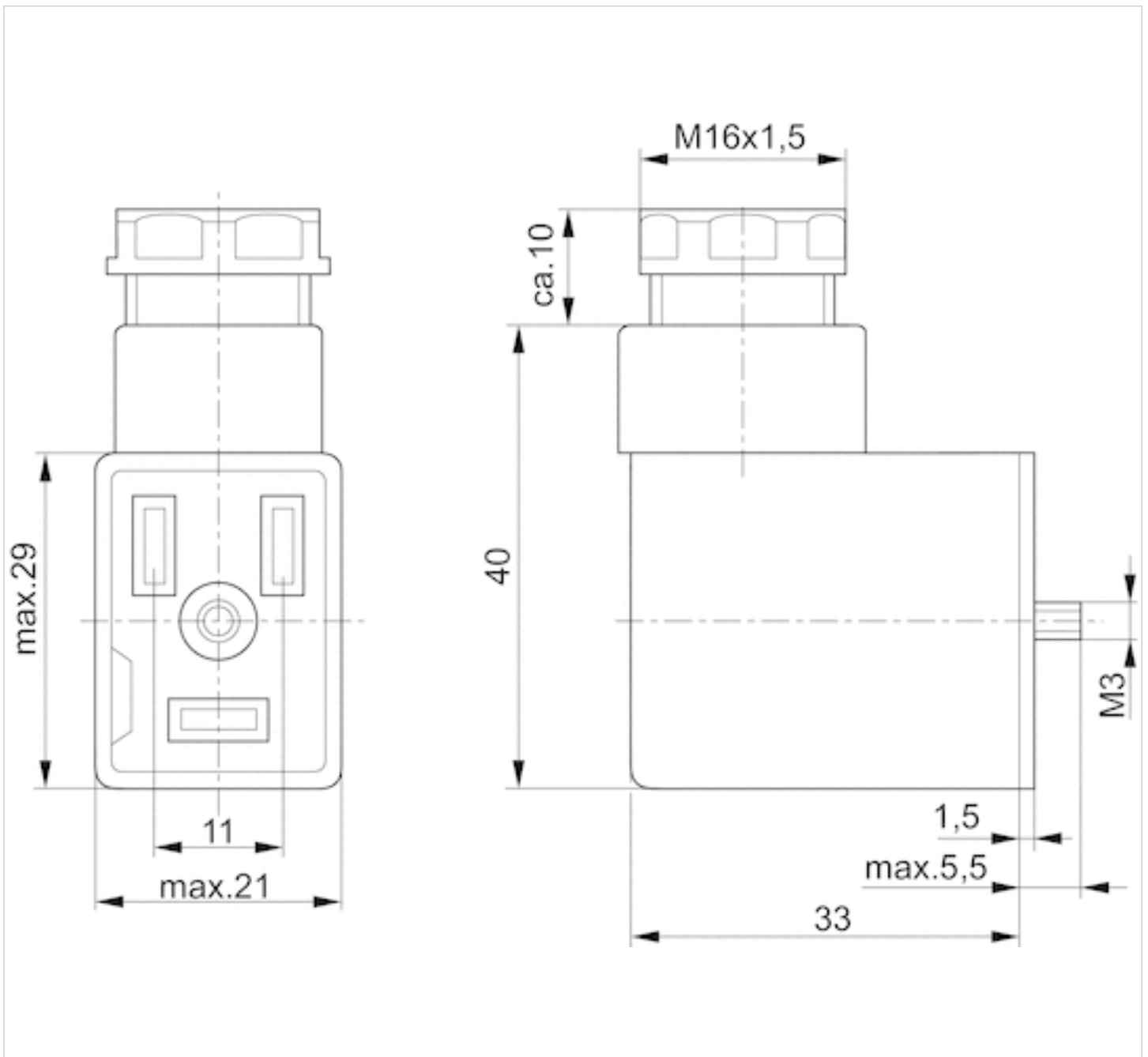


Fig. 2

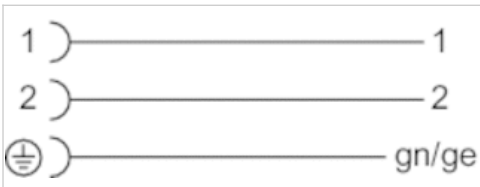


# Valve plug connector, series CON-VP

- 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 mm <sup>2</sup>
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

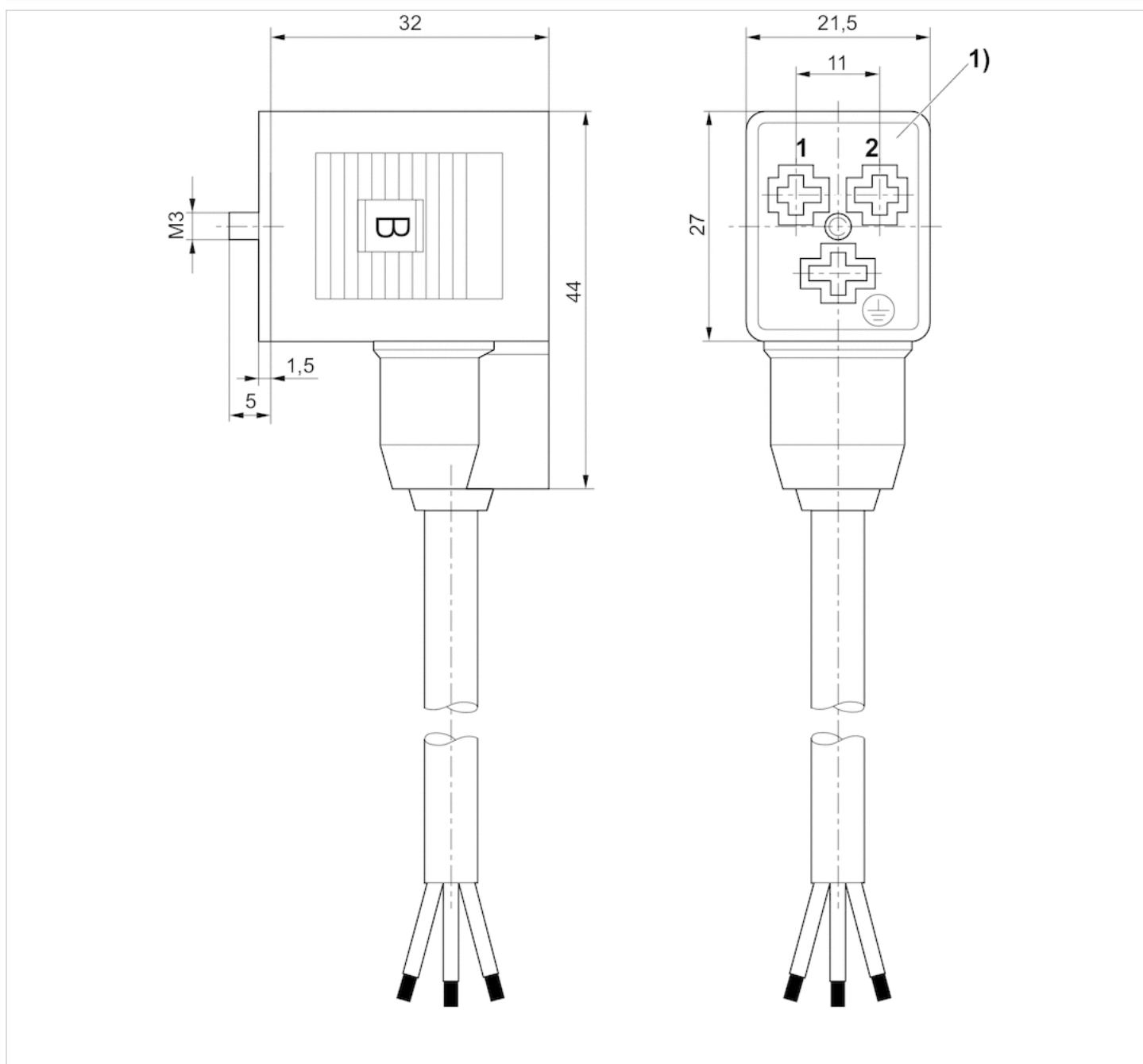
For security reasons, the valve plug connector must be plugged properly and centrally.  
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Cable sheath	Polyvinyl chloride

## Dimensions

## Dimensions



1) 0° female insert

# Valve cover seal, Valve housing seal

- for 581, size 4



Weight

See table below

## Technical data

Part No.	Type	Weight
0490428402	Valve cover seal, electrically operated valves	0,015 kg
0490428518	Valve cover seal, pneumatically operated valves	0,001 kg
0490428607	Valve cover seal, for valves with logic function	0,015 kg
0486704306	Valve housing seal, between housing and base plate	0,003 kg

## Technical information

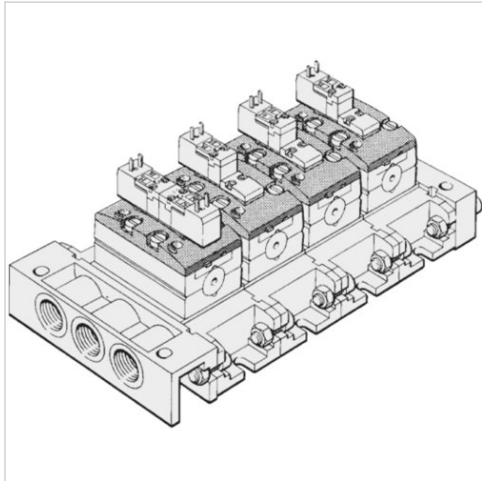
Material	
Housing	caoutchouc/butadiene caoutchouc



# valve cover, with or without pilot valve

- for 581, size 4

- standard ISO 5599-1



standard

Ambient temperature min./max.

Medium

Max. particle size

Oil content of compressed air

Weight

ISO 5599-1

-10 ... 50 °C

Compressed air

50 µm

40 ... 400 mg/m<sup>3</sup>

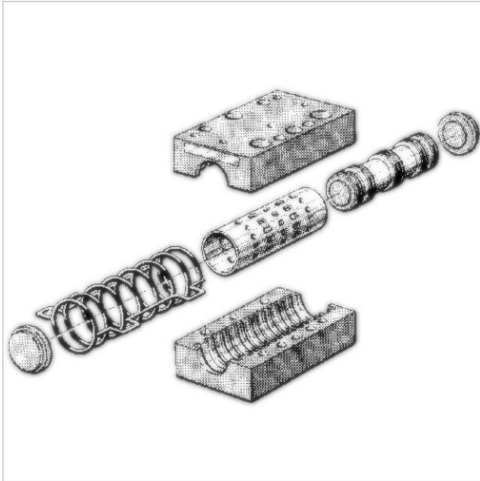
See table below

## Technical data

Part No.	Type	Pilot valve width	Weight
5814010000	5/2-directional valve, mono-stable	22 mm	1 kg
5814020000	2x3/2-, 5/2-, 5/3-directional valve	22 mm	0,39 kg
5814050000	5/2-directional valve, mono-stable	22 mm	0,38 kg
5814060000	2x3/2-, 5/2-, 5/3-directional valve	22 mm	0,39 kg
5814080000	all	30 mm	1,7 kg

# valve housing, without cover

- Aluminum
- for 581, size 4
- 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/m <sup>3</sup>
Weight	See table below

## Technical data

Part No.	Type	Weight	
5814100000	5/2-directional valve, mono-stable	0,842 kg	-
5814200000	5/2-directional valve, double solenoid	0,833 kg	-
5814300000	5/2-directional valve, double solenoid, with manual override	1,1 kg	1)
5814600000	5/2-way solenoid valve, with differential piston	0,83 kg	2)
5814400000	5/3-directional valve, closed center	1,1 kg	-
5814500000	5/3-directional valve, exhausted center	1,1 kg	-
5814700000	5/3-directional valve, pressurized center	1,1 kg	-

1) The valve can be changed to a single solenoid version with air return.

2) signal 14 has priority

## Technical information

Material	
Housing	Aluminum

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

