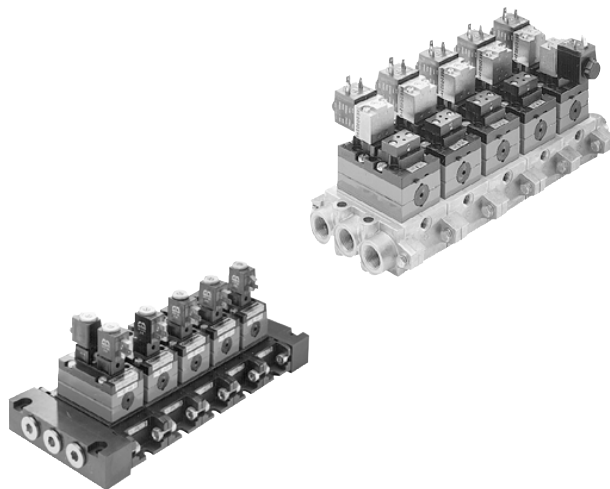


Valve systems ► Standardized valve systems

ISO 5599-1, size 4, series 581

Brochure



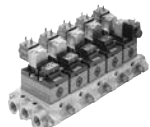
Valve systems ► Standardized valve systems

ISO 5599-1, size 4, series 581
Electrically operated


Valve system, Series 581, size 4

► Qn = 5000 l/min ► Pilot valve width: 22 mm ► Compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Single wire connection, Electrical connector without standard (form B industry) ► Manual override: with detent

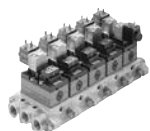
5



Valve system, Series 581, size 4

► Qn = 5000 l/min ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: with detent

8



Valve system, Series 581, size 4

► Qn = 5000 l/min ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: without detent, without

11

Pneumatically operated


Valve system, Series 581, size 4

► Qn = 5000 l/min ► Compressed air connection output: Base plate ISO 5599-1

14

Accessories
Single valves, pneumatically operated


ISO 5599-1, size 4, Series 581

on
line
Single valves, electrically operated


ISO 5599-1, size 4, Series 581

on
line
Pilot valves


Pilot valve

► 581, Modular system ► Pilot valve width: 22 mm ► Manual override: with detent

19



Pilot valve

► 581, Modular system ► Pilot valve width: 30 mm

20

Modular system, electrical accessories


Coil, Series CO1

► Form B, industry ► Coil width 22 mm







23

Valve systems ▶ Standardized valve systems ISO 5599-1, size 4, series 581

	Coil, Series CO1 ▶ Cable with connector ▶ Coil width 30 mm ▶ ATEX certified	24
	Electrical connector, Series CN1 ▶ 18 mm ▶ ISO 4400 ▶ form A	26
	Electrical connector, Series CN1 ▶ 11 mm ▶ Industry standard	28
	Connector with cable, Series CN1 ▶ form A ▶ 18 mm	30
	Connector with cable, Series CN1 ▶ Form B, industry ▶ 11 mm	31
Modular system, mechanical accessories		
	valve housing, without cover ▶ Aluminum ▶ for 581, size 4	33
	valve cover, with or without pilot valve ▶ for 581, size 4	33
	throttle insert for flow control in 3/5 ▶ for 581, size 4	34
	plug set for flow control screws ▶ for 581, size 4	35
	Safety plugs for throttle insert ▶ for 581, size 1 - 4	36

Valve systems ► Standardized valve systems

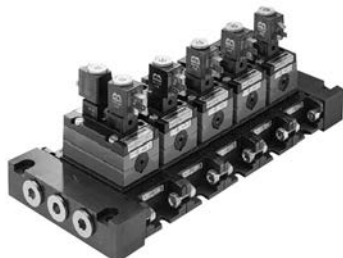
ISO 5599-1, size 4, series 581

	Valve cover seal, Valve housing seal ► for 581, size 4	36
Single subbase		
	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	37
	Single subbase, ports on side ► standard: ISO 5599-1 ► Frame size: ISO 4 ► Compressed air connection output: G 1/2	38
	Single subbase, ports on bottom ► standard: ISO 5599-1 ► Frame size: ISO 4 ► Compressed air connection output: G 1/2	39
Base and end plates, type F		
	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	41
	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	43
Base and end plates, type K		
	End plate left, End plate right ► standard: ISO 5599-1 ► Frame size: ISO 3 - ISO 4 ► type K ► Can be assembled into blocks	45
Accessories		
	Blanking plate ► standard: ISO 5599-1 ► Frame size: ISO 4	47
Accessories, type K		
	Transition plate ► standard: ISO 5599-1 ► type K	48
	Separator set ► type K ► Frame size: ISO 3 - ISO 4	49

Valve systems ► Standardized valve systems

Valve system, Series 581, size 4

► **Qn = 5000 l/min** ► **Pilot valve width: 22 mm** ► **Compressed air connection output: Base plate ISO 5599-1**
 ► **Electr. connection: Single wire connection, Electrical connector without standard (form B industry)** ► **Manual override: with detent**



P581_137

Standards	ISO 5599-1, ISO 4
Version	Single plug-in wiring
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Protection class with connection	IP65
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%
Operational voltage AC at 50 Hz	230 V, 110 V, 24 V
Voltage tolerance AC 50 Hz	-10% / +10%

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

Technical Remarks

- 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, see chapter „Technical information“.

Configurable product

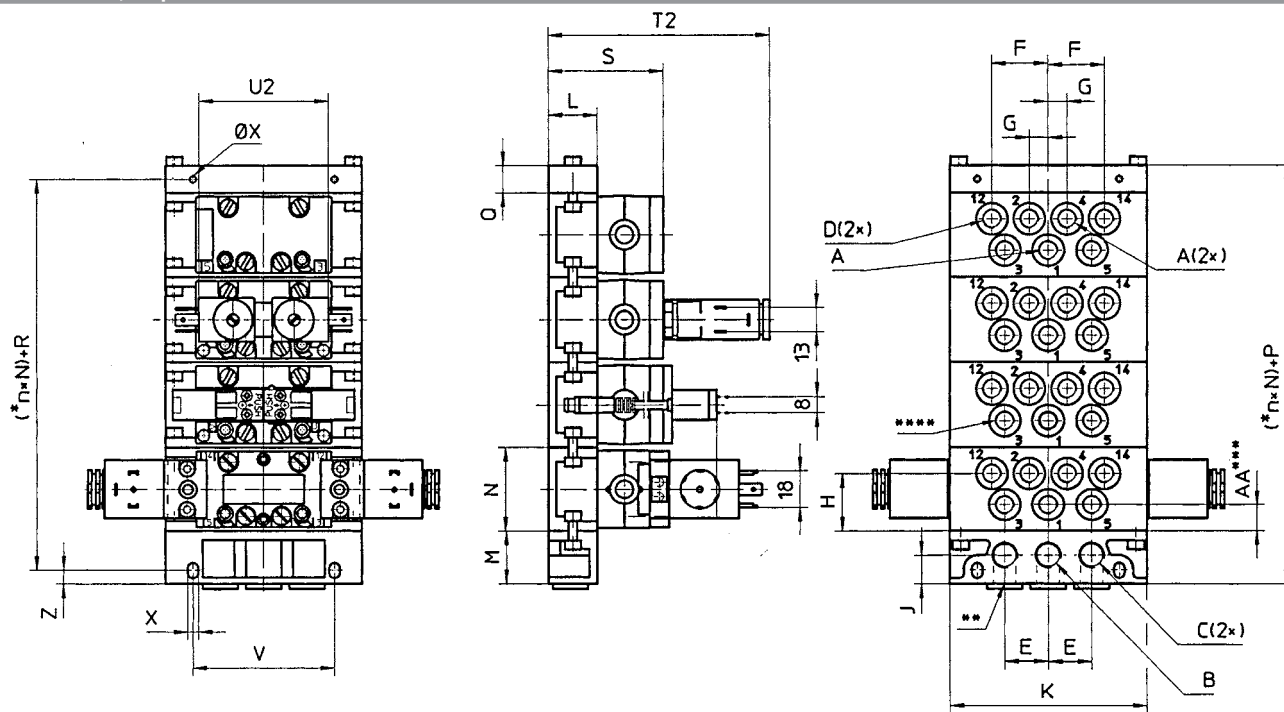


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Valve system, Series 581, size 4

► $Q_n = 5000 \text{ l/min}$ ► Pilot valve width: 22 mm ► Compressed air connection output: Base plate ISO 5599-1
 ► Electr. connection: Single wire connection, Electrical connector without standard (form B industry) ► Manual override: with detent

Dimensions, all ports on bottom



D581_231_22

* 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.

A	B	C	D	E	F	G	H	J	K	L	M	N	P (=M+Q)
G 1/2	G 3/4	G 3/4	G 1/8	44	60.5	22	53.5	24	190	43	44	82	64

A	Q	R (=Q/2+M-Z)	S	V	X	Z	T2	U2					
G 1/2	20	45	105	146	8.4	10	159	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

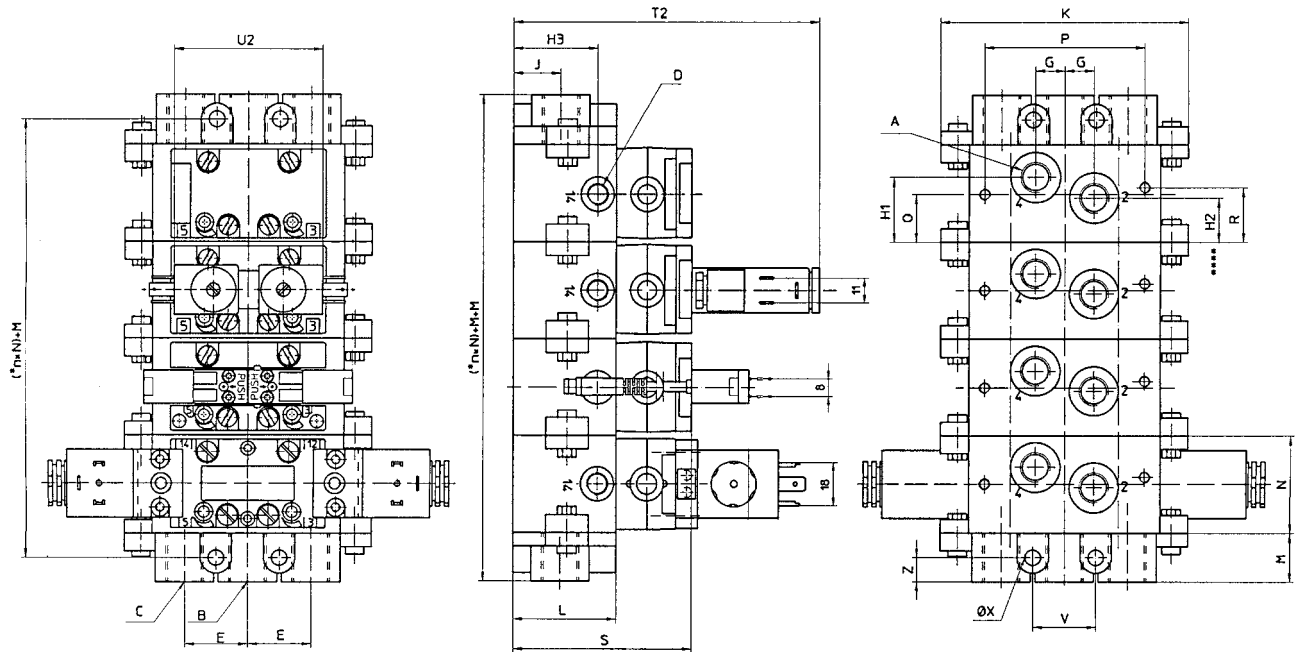
D = ports 12 and 14 in the intermediate plate

Valve systems ► Standardized valve systems

Valve system, Series 581, size 4

- Qn = 5000 l/min ► Pilot valve width: 22 mm ► Compressed air connection output: Base plate ISO 5599-1
- Electr. connection: Single wire connection, Electrical connector without standard (form B industry) ► Manual override: with detent

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



D581_232_22

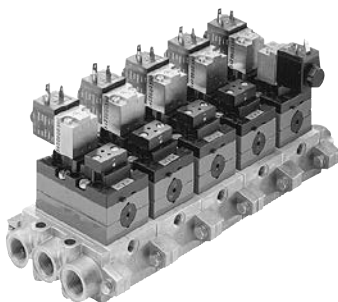
* n = Number of subbases

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

A	B	C	D	E	G	H1	H2	H3	J	K	L	M	N	P
G 3/4	G 1	G 3/4	G 1	54	26	50	33	48	30	215	58	30	82	142
A	Q	R	S	V	X	Z	T2	U2						
G 3/4	41	44	124	56	12	15	174	144						

Valve system, Series 581, size 4

► **Qn = 5000 l/min** ► **Pilot valve width: 30 mm CNOMO** ► **Compressed air connection output: Base plate ISO 5599-1** ► **Manual override: with detent**



P581_138

Standards	ISO 5599-1, ISO 4
Version	Single plug-in wiring
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Protection class with connection	IP65
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%
Operational voltage AC at 50 Hz	230 V
Voltage tolerance AC 50 Hz	-10% / +10%

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

Technical Remarks

- 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, see chapter „Technical information“.

Configurable product



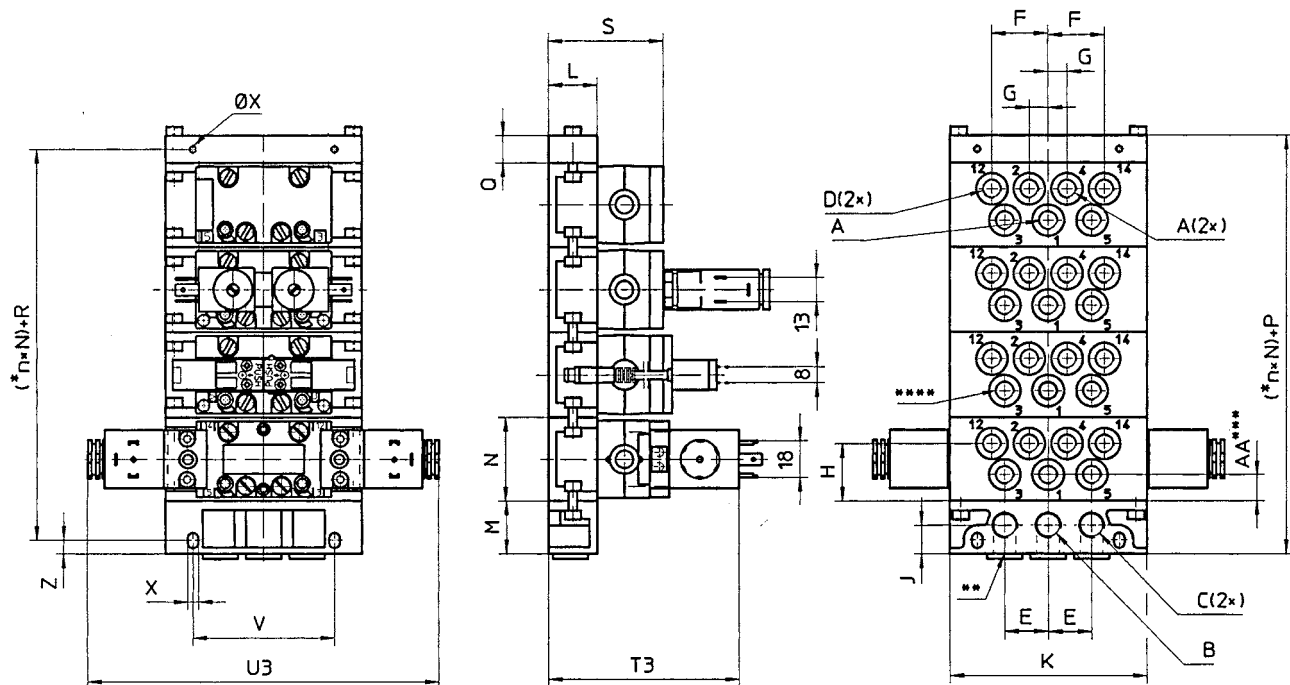
This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Valve systems ► Standardized valve systems

Valve system, Series 581, size 4

► Qn = 5000 l/min ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: with detent

Dimensions, all ports on bottom



D581_231_30

* 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.

A	B	C	D	E	F	G	H	J	K	L	M	N	P (=M+Q)
G 1/2	G 3/4	G 3/4	G 1/8	44	60.5	22	53.5	24	190	43	44	82	64

A	Q	R (=Q/2+M-Z)	S	V	X	Z	T3	U3					
G 1/2	20	45	105	146	8.4	10	148	144					

A = ports 2 and 4 in the intermediate plate

B = port 1 in the supply plate

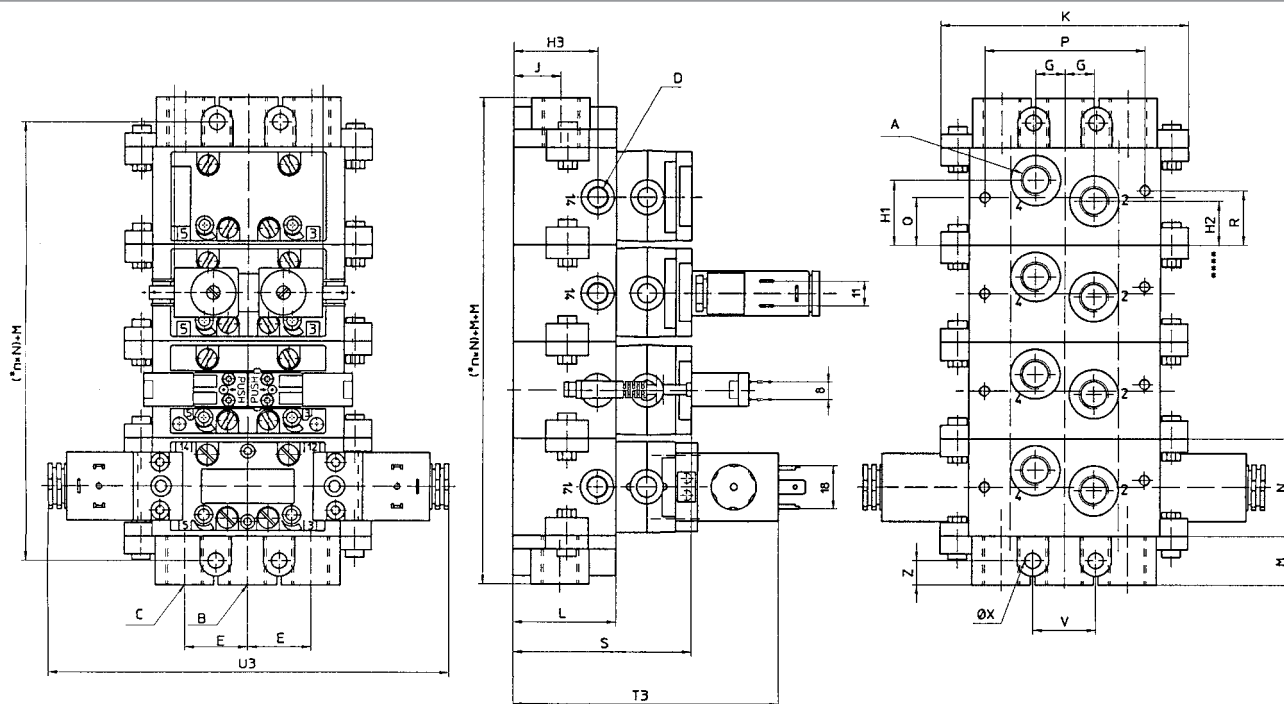
C = ports 3 and 5 in the supply plate

D = ports 12 and 14 in the intermediate plate

Valve system, Series 581, size 4

► $Q_n = 5000 \text{ l/min}$ ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: with detent

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



D581_232_30

* n = Number of subbases

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

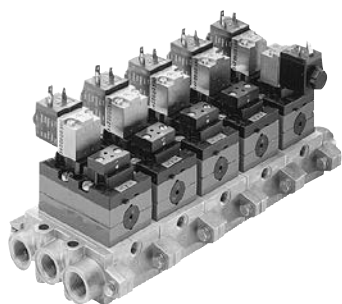
A	B	C	D	E	G	H1	H2	H3	J	K	L	M	N	P
G 3/4	G 1	G 3/4	G 1	54	26	50	33	48	30	215	58	30	82	142

A	Q	R	S	V	X	Z	T3	U3						
G 3/4	41	44	124	56	12	15	163	144						

Valve systems ▶ Standardized valve systems

Valve system, Series 581, size 4

▶ $Q_n = 5000 \text{ l/min}$ ▶ Pilot valve width: 30 mm CNOMO ▶ Compressed air connection output: Base plate ISO 5599-1 ▶ Manual override: without detent, without



P581_138

Standards	ISO 5599-1, ISO 4
Version	Single plug-in wiring
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 16 bar
Ambient temperature min./max.	-15 °C / +50 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m^3 - 5 mg/m^3
Protection class with connection	IP65
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%
Operational voltage AC at 50 Hz	230 V, 42 V
Voltage tolerance AC 50 Hz	-10% / +10%

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

Technical Remarks

- 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, see chapter „Technical information“.

Configurable product

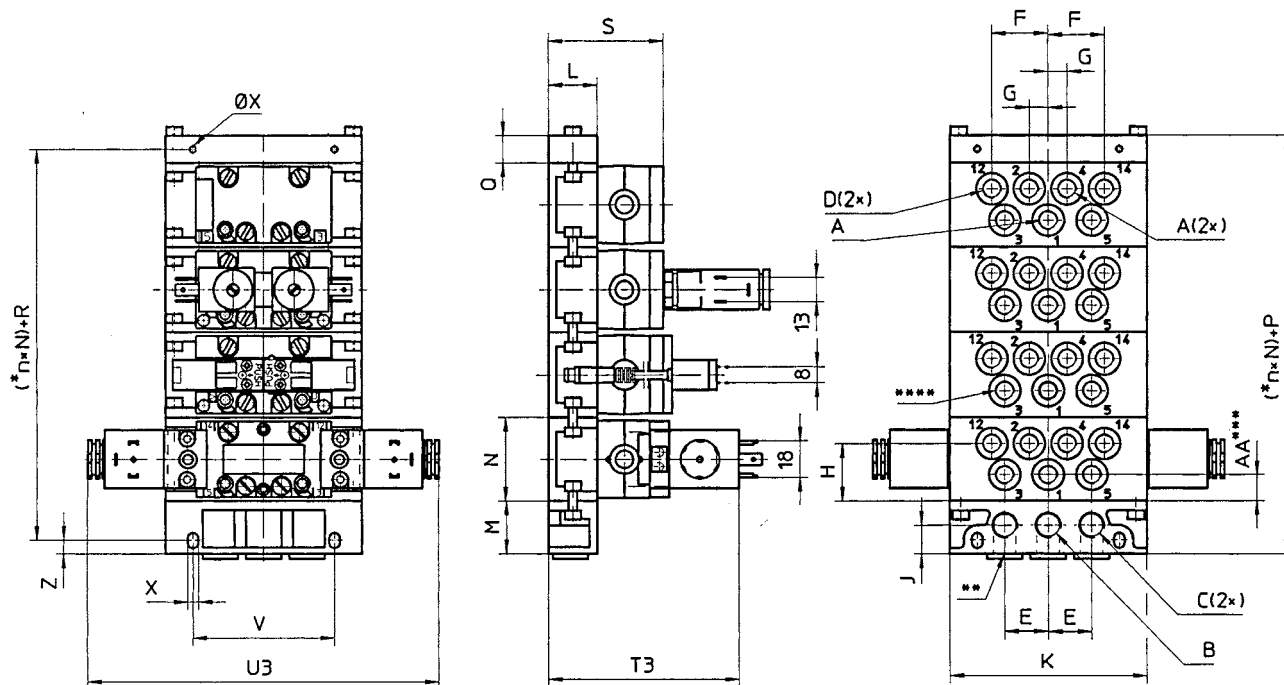


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Valve system, Series 581, size 4

► $Q_n = 5000 \text{ l/min}$ ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: without detent, without

Dimensions, all ports on bottom



D581_231_30

* 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.

A	B	C	D	E	F	G	H	J	K	L	M	N	P (=M+Q)
G 1/2	G 3/4	G 3/4	G 1/8	44	60.5	22	53.5	24	190	43	44	82	64

A	Q	R (=Q/2+M-Z)	S	V	X	Z	T3	U3					
G 1/2	20	45	105	146	8.4	10	148	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

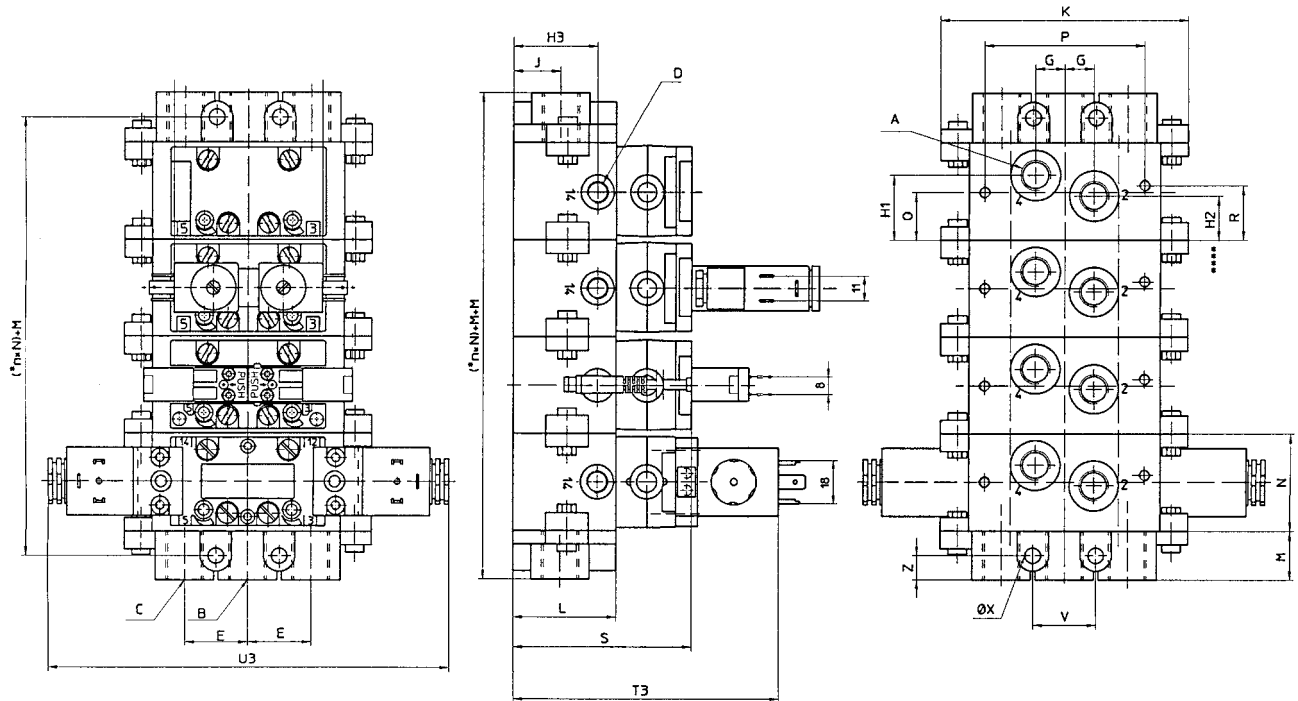
D = ports 12 and 14 in the intermediate plate

Valve systems ► Standardized valve systems

Valve system, Series 581, size 4

► Qn = 5000 l/min ► Pilot valve width: 30 mm CNOMO ► Compressed air connection output: Base plate ISO 5599-1 ► Manual override: without detent, without

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



D581_232_30

* n = Number of subbases

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

A	B	C	D	E	G	H1	H2	H3	J	K	L	M	N	P
G 3/4	G 1	G 3/4	G 1	54	26	50	33	48	30	215	58	30	82	142
A	Q	R	S	V	X	Z	T3	U3						
G 3/4	41	44	124	56	12	15	163	144						

Valve system, Series 581, size 4
► Qn = 5000 l/min ► Compressed air connection output: Base plate ISO 5599-1


P581_134

Standards	ISO 5599-1, ISO 4
Version	pneumatically controlled
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 16 bar
Ambient temperature min./max.	-20 °C / +70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Protection class with connection	IP65

Materials:	
Plug box	Polyamide, fiber-glass reinforced
Seal	Acrylonitrile butadiene rubber

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

Technical Remarks

- 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, see chapter „Technical information“.

Configurable product


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

D581_231_pn

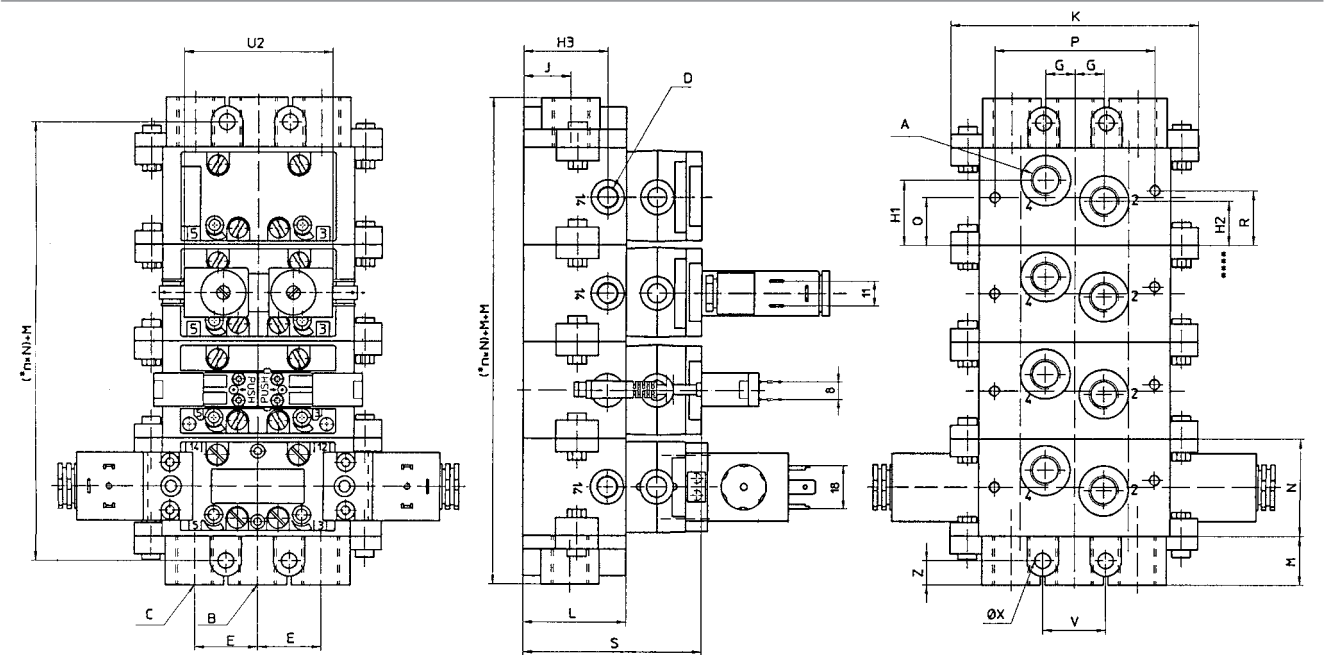
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

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

Valve system, Series 581, size 4

▶ Qn = 5000 l/min ▶ Compressed air connection output: Base plate ISO 5599-1

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.

D581_232_pn

A	B	C	D	E	G	H1	H2	H3	J	K	L	M	N	P
G 3/4	G 1	G 3/4	G 1	54	26	50	33	48	30	215	58	30	82	142

A	Q	R	S	V	X	Z	U2							
G 3/4	41	44	120	56	12	15	144							

Series AS5**Accessories**

ISO 5599-1, size 4, Series 581

Accessories

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 3, Series 581 Accessories

Pilot valve

▶ 581, Modular system ▶ Pilot valve width: 22 mm ▶ Manual override: with detent



P581_178

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

Technical Remarks

- 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, see chapter „Technical information“.

			Operational voltage	Power consumption
DC	AC 50 Hz	AC 60 Hz	DC	
				W
24 V	230 V	110 V		5
24 V	-	-		2

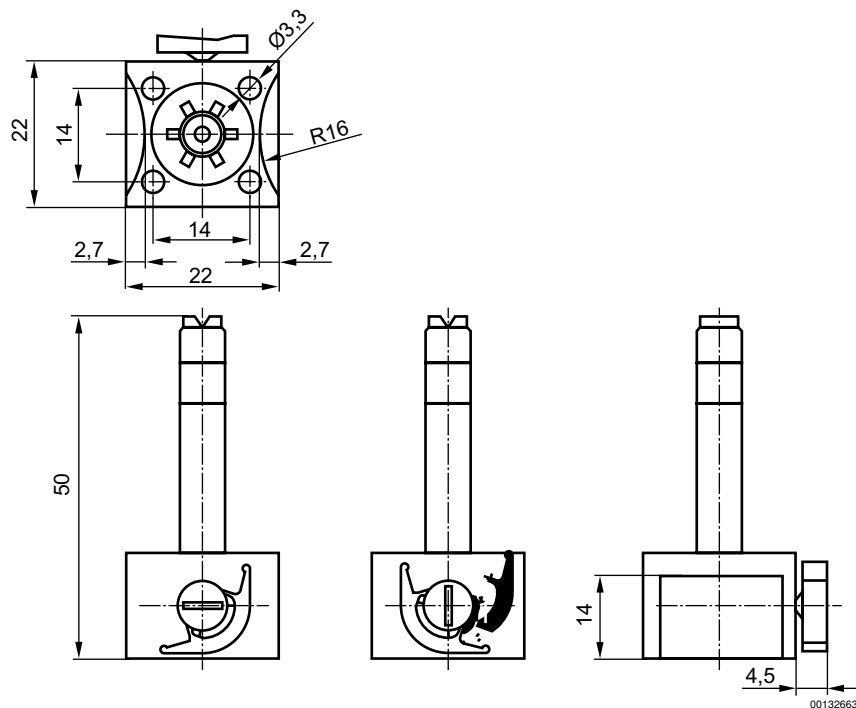
	Operating voltage			Power consumption	Weight	Note	Part No.
	DC	AC 50 Hz	AC 60 Hz	DC			
				[W]	[kg]		
	24 V	230 V	110 V	5	0.031	-	0493818805
		-	-	2	0.03	1)	0493818902

1) Low power consumption

ISO 5599-1, size 3, Series 581

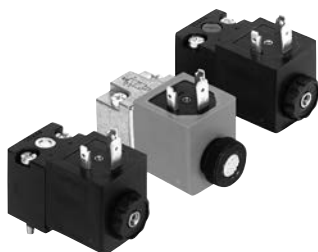
Accessories

Dimensions



Pilot valve

► 581, Modular system ► Pilot valve width: 30 mm



P581_160

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 °C / +50 °C
Compressed air

IP65
100 %

See table below

Technical Remarks

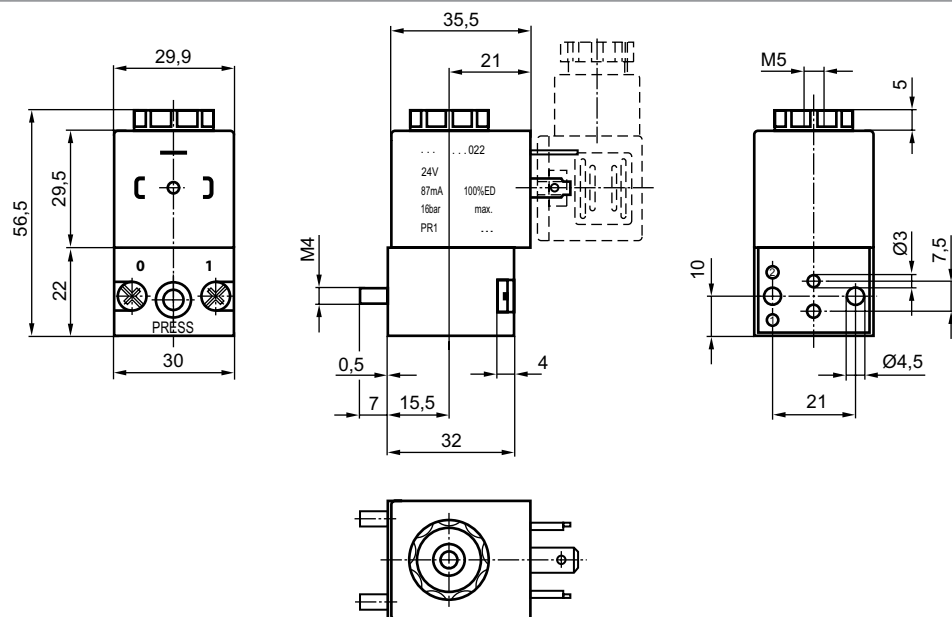
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Valve systems ► Standardized valve systems

ISO 5599-1, size 3, Series 581 Accessories

Operational voltage		Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
				W	VA	VA
-	230 V	-	-20% / +10%	-	10	8
24 V	-	-10% / +10%	-	2	-	-
24 V	-	-10% / +10%	-	6.7	-	-
12 V	-	-10% / +10%	-	2	-	-
48 V	-	-10% / +10%	-	2	-	-
110 V	-	-10% / +10%	-	2	-	-
220 V	-	-10% / +10%	-	2	-	-
-	24 V	-	-20% / +10%	-	10	8
-	48 V	-	-20% / +10%	-	10	8
-	110 V	-	-20% / +10%	-	10	8

	MO	Operating voltage		Power consumption	Holding power	Switch-on power	Working pressure min./max.		Note	Part No.
		DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz				
				[W]	[VA]	[VA]	[bar]	[kg]		
		-	230 V	-	8	10			1)	5428110080
		24 V	-	2	-	-	0 / 10	0.17	1); 2)	5420890020
	-	24 V	-	6.7	-	-		0.206		5420850020
		-	230 V	-	8	10	0 / 16	0.162	1)	5428150080
		12 V	-	2	-	-			1); 2)	5420890010
		48 V	-	2	-	-			1); 2)	5420890030
		110 V	-	2	-	-			1); 2)	5420890070
		220 V	-	2	-	-	0 / 10	0.17	1); 2)	5420890080
		-	24 V	-	8	10			1)	5428110020
		-	48 V	-	8	10			1)	5428110040
		-	110 V	-	8	10			1)	5428110070
MO = Manual override 1) pilot valve 30x22 mm with CNOMO porting configuration 2) Low power consumption										

ISO 5599-1, size 3, Series 581
Accessories
Dimensions


00132665

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

Coil, Series CO1

▶ Form B, industry ▶ Coil width 22 mm



P581_172

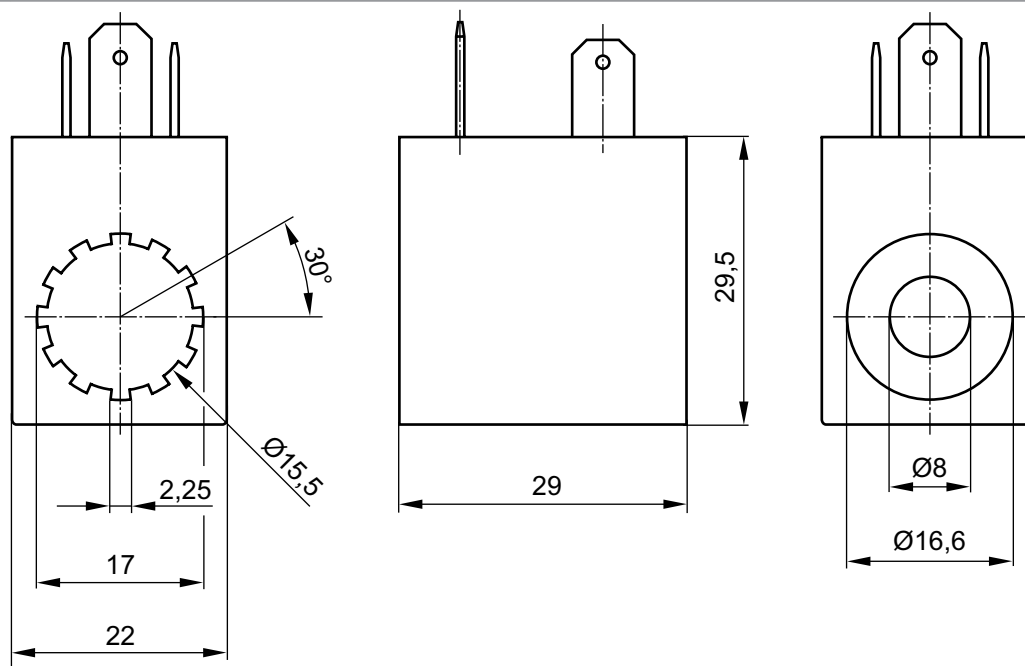
Connector standard
electrical connections
Ambient temperature min./max.
Protection class with electrical connector/plug
Duty cycle ED

ISO 6952
Plug, Form B, industry
-- / +50 °C
IP65
100 %

Operational voltage		Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
				W	VA	VA
220 V	-	-10% / +10%	-	5	-	-
110 V	-	-10% / +10%	-	5	-	-
-	48 V	-	-10% / +10%	-	10	8
24 V	-	-10% / +10%	-	2	-	-
24 V	-	-10% / +10%	-	5	-	-
-	110 V	-	-10% / +10%	-	10	8
-	230 V	-	-10% / +10%	-	10	8
-	24 V	-	-10% / +10%	-	10	8
48 V	-	-	-	5	-	-
12 V	-	-	-	5	-	-

Operational voltage		Weight	Note	Part No.
AC 50 Hz	DC			
		[kg]		
-	220 V	0.054	-	0498317804
-	110 V		-	0498317707
48 V	-	0.054	-	0498317006
-	24 V	0.051	1)	0498318800
-			-	0498317502
110 V	-	0.051	-	0498317103
230 V	-	0.054	-	0498322506
24 V	-	0.054	-	0498316905
-	48 V	0.054	-	0498317618
-	12 V		-	0498317405

1) Low power consumption

ISO 5599-1, size 4, Series 581
Accessories
Dimensions


00132664

Coil, Series CO1

► Cable with connector ► Coil width 30 mm ► ATEX certified



00115846

ATEX

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index CI

II 2G Ex mb IIC T4 Gb

II 2D Ex mb tb IIIC T 130°C Db IP65

-20°C / +50°C

IP65

100 %

14


Operational voltage			Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
					W	VA	VA
-	230 V	230 V	-	-10% / +10%	-	3.1	3
-	110 V	110 V	-	-10% / +10%	-	3	2.9
-	24 V	24 V	-	-10% / +10%	-	3	2.9
24 V	-	-	-10% / +10%	-	3.25	-	-

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

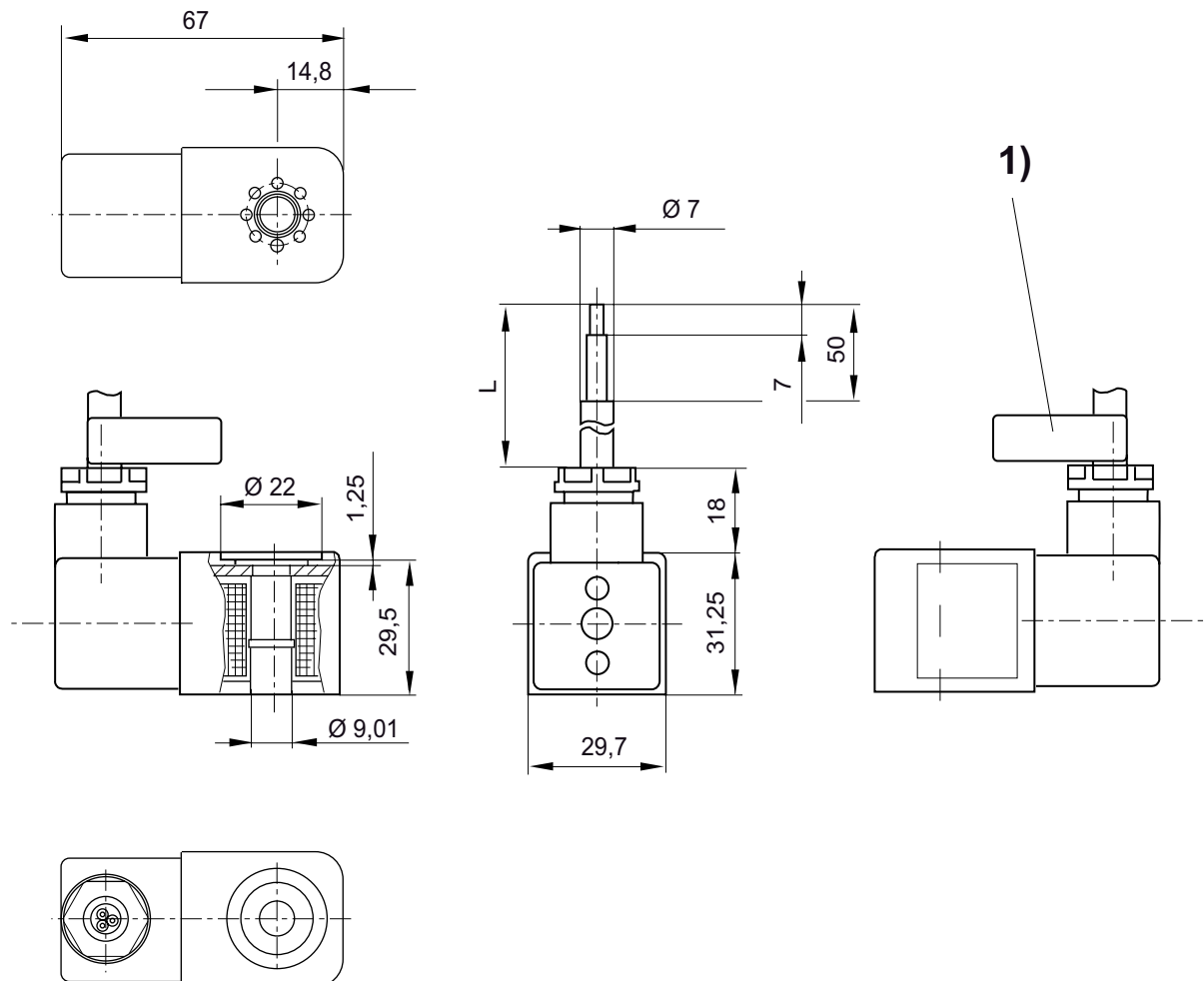
Pneumatics catalog, online PDF, as of 2017-03-08, ©AVENTICS S.à r.l., subject to change

Valve systems ► Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

	Operational voltage			Cable length L	Weight	Part No.
	AC 50 Hz	DC	AC 60 Hz			
				[m]	[kg]	
	230 V	-	230 V	3	0.38	1827414297
	230 V	-	230 V	10	0.91	1827414298
	110 V	-	110 V	3	0.38	1827414299
	24 V	-	24 V	3	0.38	1827414301
	24 V	-	24 V	10	0.91	1827414302
	-	24 V	-	3	0.38	1827414303
	-	24 V	-	10	0.91	1827414304
	110 V	-	110 V	10	0.38	1827414300

Dimensions



L = cable length

1) Cable ID band with serial number

00129906

ISO 5599-1, size 4, Series 581
Accessories
Electrical connector, Series CN1

► 18 mm ► ISO 4400 ► form A

Ambient temperature min./max.
Protection class
Mounting screw tightening torque

-40°C / +90°C
IP65
0.4 Nm



00110264_a

Technical Remarks

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

	Cable fitting	Operational voltage		Max. current	Contact assignment	Cable exit	Protective circuit	Part No.
		AC	DC					
		[V]	[V]	[A]				
	M20x1,5	230	-	-	2+E	angled 90°	Varistor	8941016112
	M16x1,5	-	300	10	2+E	angled 90°	-	1834484048
	M16x1,5	-	300	10	3+E	angled 90°	-	1834484059
	M16x1,5	24	-	-	2+E	angled 90°	Z-diode	1834484101
	M16x1,5	110	-	-	2+E	angled 90°	Varistor	1834484102
	M16x1,5	230	-	-	2+E	angled 90°	Varistor	1834484103
-	M16x1,5	12	-	-	2+E	angled 90°	Z-diode	R432013729
	M20x1,5	-	-	8	3+E	angled 90°	-	8941012462

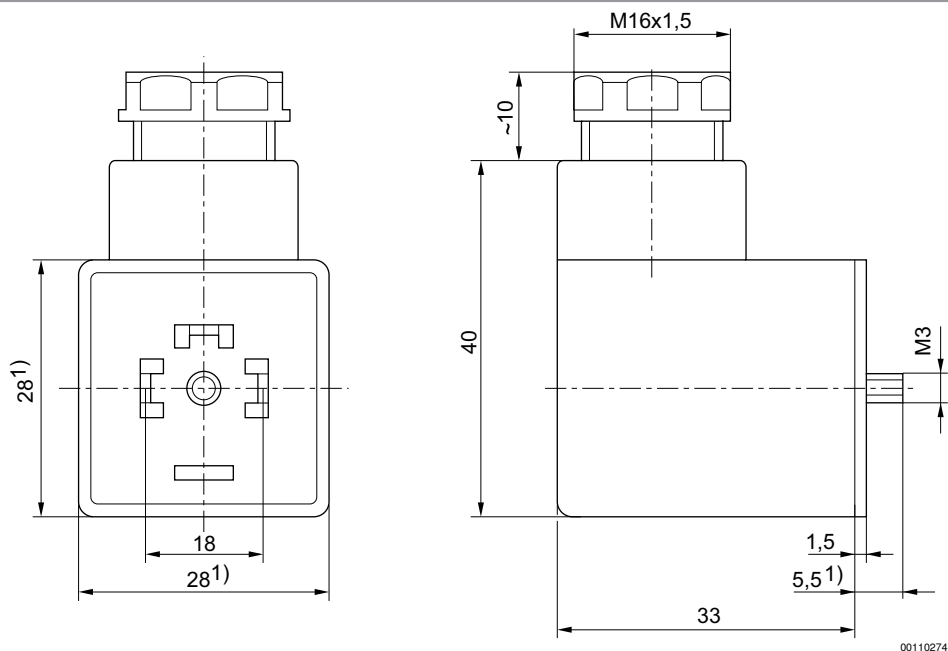
Valve systems ► Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

Part No.	suitable cable-Ø min./ max	number of plug options 1	Status display	LED status display	Housing color	Weight	Note
	[mm]					[kg]	
8941016112	8 / 10	4 positions each 90°	1 LED	Green	Transparent	0.025	2); 4); 4); 5)
1834484048	6 / 8	4 positions each 90°	-	-	Black	0.03	2); 5)
1834484059	6 / 8	4 positions each 90°	-	-	Black	0.03	2); 5)
1834484101	6 / 8	4 positions each 90°	1 LED	Yellow	Transparent	0.03	3); 6)
1834484102	6 / 8	4 positions each 90°	2 LED	Red	Transparent	0.03	2); 5); 5)
1834484103	6 / 8	4 positions each 90°	2 LED	Red	Transparent	0.03	2); 6)
R432013729	6 / 8	4 positions each 90°	1 LED	Yellow	Transparent	0.03	3); 6)
8941012462	4.5 / 11	1 position	2 LED	green/red	Transparent	0.03	1); 2); 4); 5)

1) electrical connector with status display (2 LED) for pressure sensor
2) Profile seal
3) Flat gasket
4) Housing: Polyamide
5) Seal: caoutchouc/butadiene caoutchouc
6) Seal: Silicone caoutchouc

Dimensions



1) Max.

ISO 5599-1, size 4, Series 581
Accessories
Electrical connector, Series CN1

► 11 mm ► Industry standard



00110264_c

Ambient temperature min./max.	-25 °C / +50 °C
Protection class	IP65
Cable fitting	M16x1,5
Mounting screw tightening torque	0.4 Nm

Materials:	
Housing	Polyamide

Technical Remarks

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

	Operational voltage	Max. current	Contact assignment	Cable exit	Protective circuit	suitable cable-Ø min./max	Part No.
	AC						
	[V]	[A]				[mm]	
	-	10	2+E	angled 90°	-	4 / 8	1834484051
	24	-	2+E	angled 90°	Z-diode	6 / 8	1834484107
	110 230	-	2+E	angled 90°	Varistor	6 / 8 4 / 8	1834484108 1834484109

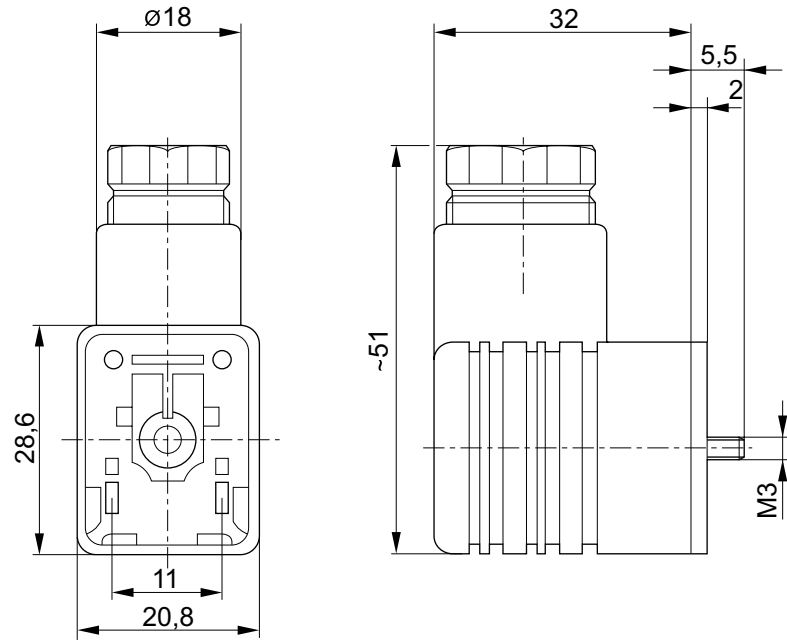
Part No.	number of plug options 1	Status display	LED status display	Housing color	Weight	Fig.	Note
					[kg]		
1834484051	2 positions each 180°	-	-	Black	0.02	Fig. 1	1); 3)
1834484107	2 positions each 180°	1 LED	Yellow	Transparent	0.02	Fig. 2	2); 4)
1834484108 1834484109	2 positions each 180°	1 LED	Red	Transparent	0.02	Fig. 2	1); 4) 2); 4)

- 1) Profile seal
 2) Flat gasket
 3) Seal: caoutchouc/butadiene caoutchouc
 4) Seal: Silicone caoutchouc

ISO 5599-1, size 4, Series 581

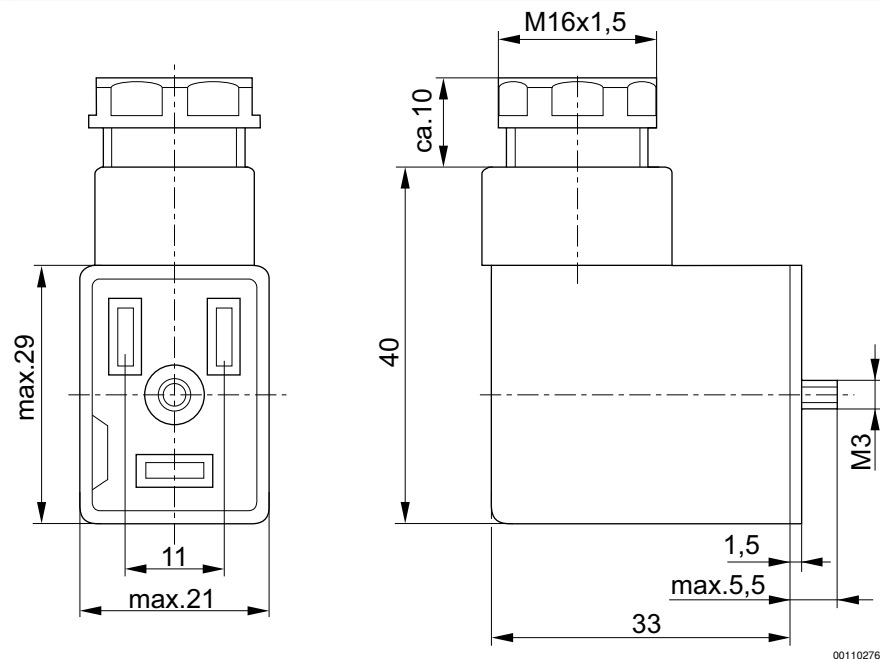
Accessories

Fig. 1



D440_037_b

Fig. 2



00110276

ISO 5599-1, size 4, Series 581
Accessories
Connector with cable, Series CN1

► form A ► 18 mm



00110292_b

Ambient temperature min./max.

-20°C / +80°C

Protection class

IP67

Tightening torque for mounting screws

0.4 Nm

Technical Remarks

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

	Operational voltage max.		Protective circuit	Contact assignment	LED status display	Wire cross-section	Cable length L	Weight	Part No.
	[V AC]	[V DC]				[mm ²]	[m]	[kg]	
	230	230	-	2+E	-	0.75	3	0.2	1834484160
	24	-	Z-diode	2+E	Yellow	0.75	3 5	0.2 0.31	1834484162 1834484163
	230	230	Varistor	2+E	Red	0.75	3 5	0.2 0.31	1834484164 1834484165

Part No.	Fig.	Note
1834484160	Fig. 1	1)
1834484162 1834484163	Fig. 2	-
1834484164 1834484165	Fig. 2	-

1) Scope of delivery incl. flat gasket

Valve systems ► Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

Fig. 1

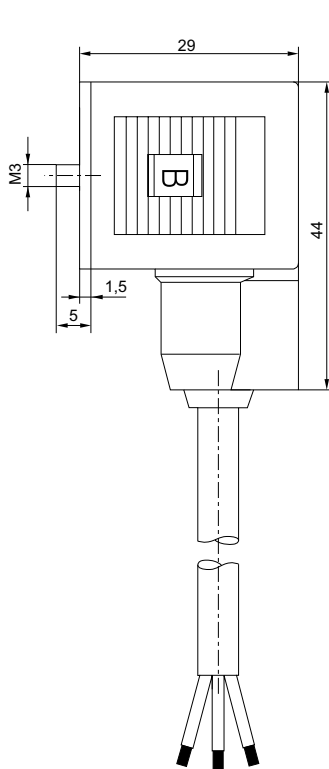
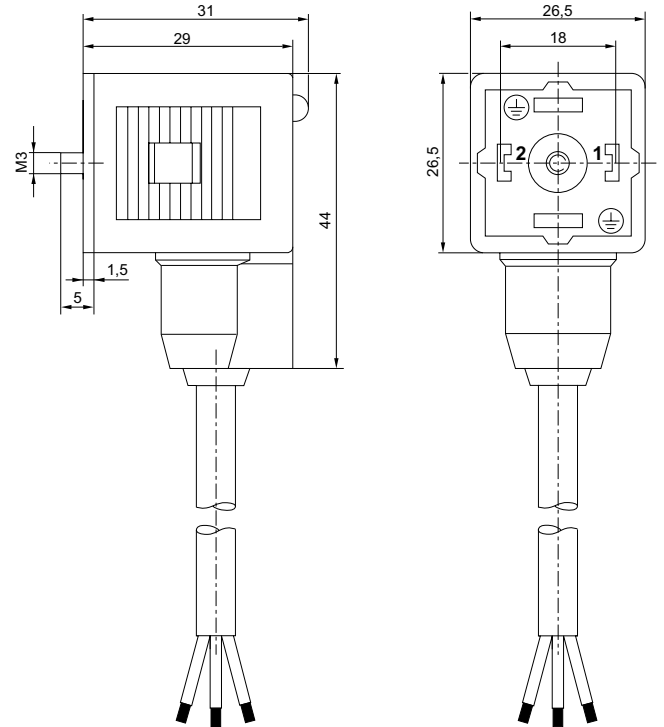


Fig. 2



1834484162-09_a

1834484162-09

Connector with cable, Series CN1 ► Form B, industry ► 11 mm



00110292_a

Ambient temperature min./max.
Protection class
Cable exit
Wire cross-section
Tightening torque for mounting screws

-20 °C / +80 °C
IP67
angled 90°
0.75 mm²
0.4 Nm

Materials:
Cable sheath

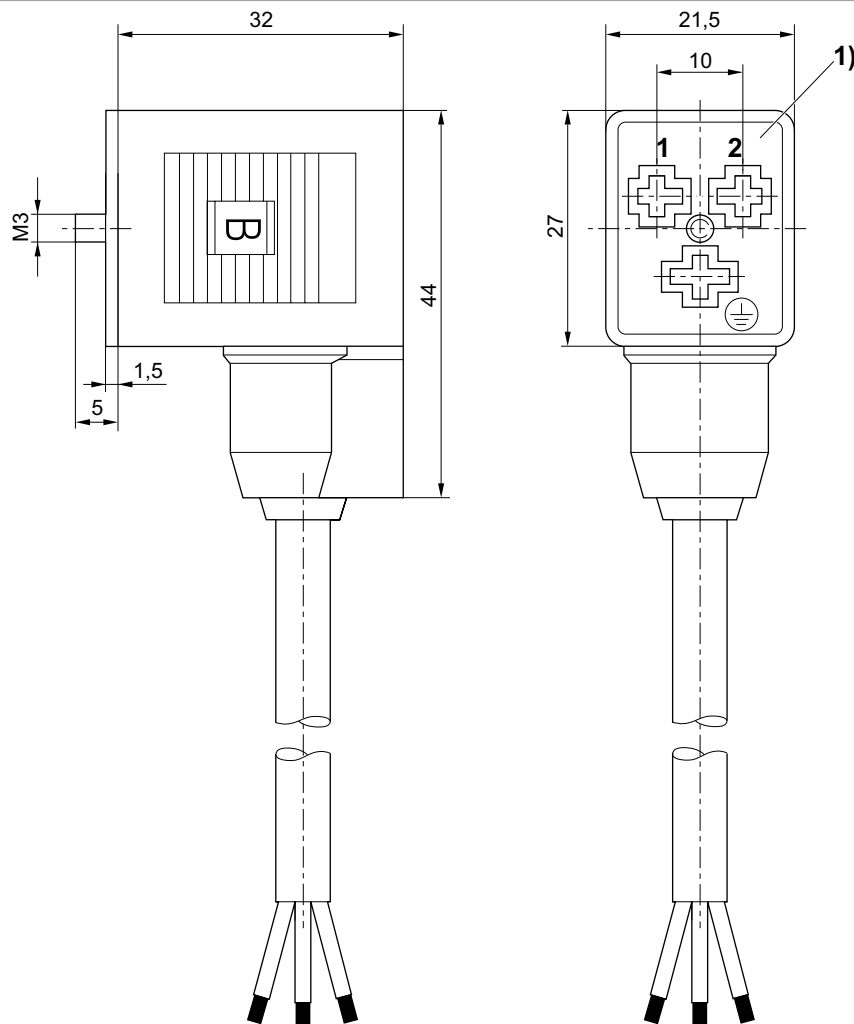
Polyvinyl chloride

Technical Remarks

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

ISO 5599-1, size 4, Series 581
Accessories

	Max. current	Contact assignment	Cable length L	Weight	Part No.
	[A]		[m]	[kg]	
1 ————— 1 2 ————— 2 ⊕ ————— gn/ge	4	2+E	3	0.02	8946201912

Dimensions


1834484162-10_b

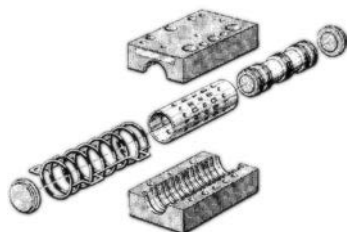
1) 0° female insert

Valve systems ► Standardized valve systems

ISO 5599-1, size 4, Series 581
Accessories

valve housing, without cover

► Aluminum ► for 581, size 4



P581_174

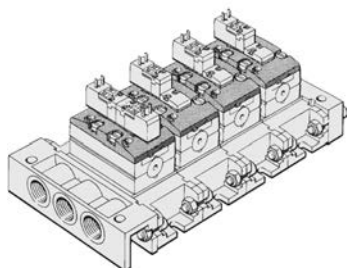
standard
Ambient temperature
min./max.
Medium
Max. particle size
Oil content of compressed air

ISO 5599-1
-20 °C / +70 °C
Compressed air
50 µm
40 mg/m³ - 400 mg/m³

Type	Material	Weight [kg]	Note	Part No.
5/2-directional valve, mono-stable	Aluminum	0.842	-	5814100000
5/2-directional valve, double solenoid	Aluminum	0.833	-	5814200000
5/2-directional valve, double solenoid, with manual override	Aluminum	1.1	1)	5814300000
5/2-way solenoid valve, with differential piston	Aluminum	0.83	2)	5814600000
5/3-directional valve, closed center	Aluminum	1.1	-	5814400000
5/3-directional valve, exhausted center	Aluminum	1.1	-	5814500000
5/3-directional valve, pressurized center	Aluminum	1.1	-	5814700000
1) The valve can be changed to a single solenoid version with air return. 2) signal 14 has priority				

valve cover, with or without pilot valve

► for 581, size 4



P581_163

standard
Ambient temperature
min./max.
Medium
Max. particle size
Oil content of compressed air

ISO 5599-1
-10 °C / +50 °C
Compressed air
50 µm
40 mg/m³ - 400 mg/m³

ISO 5599-1, size 4, Series 581
Accessories

Type	Pilot valve width	Weight	Note	Part No.
	[mm]	[kg]		
5/2-directional valve, mono-stable	22 mm	1	2)4)	5814010000
2x3/2-, 5/2-, 5/3-directional valve	22 mm	0.39	2)4)	5814020000
5/2-directional valve, mono-stable	22 mm	0.38	2)3)	5814050000
2x3/2-, 5/2-, 5/3-directional valve	22 mm	0.39	2)3)	5814060000
all	30 mm	1.7	1)	5814080000

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

throttle insert for flow control in 3/5
► for 581, size 4

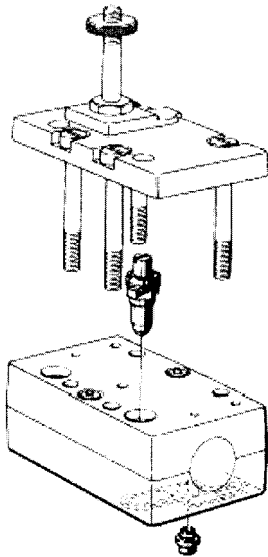

P581_100

Weight	Note	Part No.
[kg]		
0.1	1)	5814001000

1) delivered in pairs incl. plug set

ISO 5599-1, size 4, Series 581
Accessories

Dimensions



00133204

plug set for flow control screws
▶ for 581, size 4

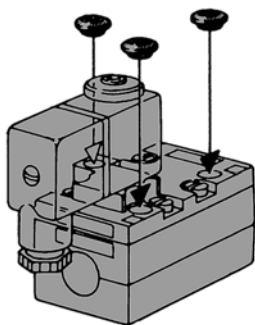


P581_116

Material	Weight	Note	Part No.
	[kg]		
Polyamide	0.03	1)	5814000000
1) Delivered in pairs for modification of a valve from "with throttle set" to "without throttle set"			

ISO 5599-1, size 4, Series 581
Accessories
Safety plugs for throttle insert

► for 581, size 1 - 4



P581_046

Type	Delivery quantity	Weight	Part No.
	[Piece]	[kg]	
ISO 1 - 4	10	0.005	4634210000

Valve cover seal, Valve housing seal

► for 581, size 4



P581_173

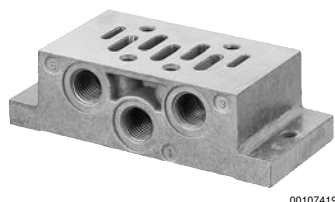
Type	Material	Weight	Part No.
		[kg]	
Valve cover seal, electrically operated valves	caoutchouc/butadiene caoutchouc	0.015	0490428402
Valve cover seal, pneumatically operated valves	caoutchouc/butadiene caoutchouc	0.001	0490428518
Valve cover seal, for valves with logic function	caoutchouc/butadiene caoutchouc	0.015	0490428607
Valve housing seal, between housing and base plate	caoutchouc/butadiene caoutchouc	0.003	0486704306

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

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

Ambient temperature min./max.

Medium temperature min./max.

Medium

Working pressure min./max.

Number of valve positions

Direction of pneumatic port (1)

Direction of pneumatic port (3,5)

Direction of pneumatic port (2,4)

Direction of pneumatic port (12)

Direction of pneumatic port (14)

Exhaust (3,5)

ISO 5599-1

-25 °C / +70 °C

-25 °C / +70 °C

Compressed air

-0.95 bar / 16 bar

1

On the side

On the side

On the side

On the side

On the side

With directional exhaust (3/5)

Ports separated

Materials:

Base plate

Die-cast aluminum

Technical Remarks

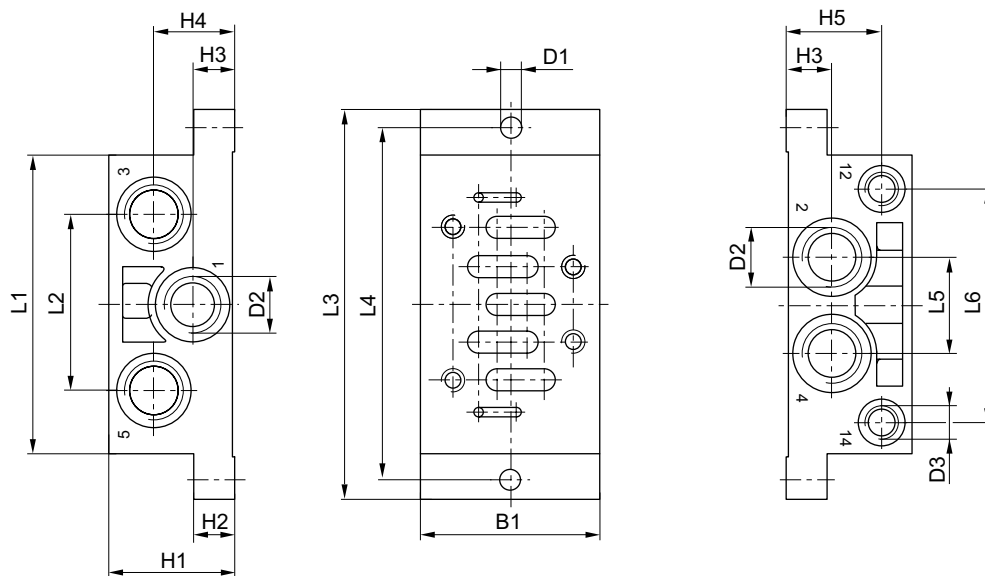
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- For use with HV series valves, the ambient temperature is -25 ...[200 °C] and the medium temperature is -25 and the medium temperature is -[[25...[120 °C].
- Reversed pressure supply is not permitted for HV series valves.

Frame size	Compressed air connection					Grid dimension	Part No.
	Input	Output	Exhaust	Pilot control exhaust	Pilot connection		
	[1]	[2 / 4]	[3 / 5]	[12]	[14]		
ISO 4	G 3/4	G 3/4	G 3/4	G 1/8	G 1/8	85	8985041404
Part No.							Weight
							[kg]
8985041404							0.99

ISO 5599-1, size 4, Series 581

Accessories

Dimensions in mm



D581_140

Part No.	B1	H1	H2	H3	H4	H5	D1	D2 *)	D3 *)	L1	L2	L3
8985041404	85	42	19	22	22	30	9	G 3/4	G 1/8	148	90	186
Part No.	L4	L5	L6	Weight kg								
8985041404	170	42	111	0.99								

*) Ports

Single subbase, ports on side

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



5810-491

Standards

Ambient temperature min./max.

Medium temperature min./max.

Medium

Working pressure min./max.

Number of valve positions

Surface

Direction of pneumatic port (1)

Direction of pneumatic port (3,5)

Direction of pneumatic port (2,4)

Direction of pneumatic port (14)

Exhaust (3,5)

Materials:

Base plate

ISO 5599-1

-20 °C / +70 °C

-20 °C / +70 °C

Compressed air

-1 bar / 16 bar

1

painted

On the side

On the side

On the side

On the side

With directional exhaust (3/5)

Ports separated

Die-cast aluminum, black painted

Valve systems ► Standardized valve systems

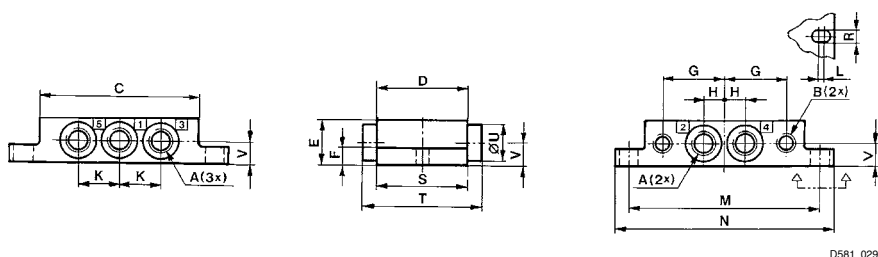
ISO 5599-1, size 4, Series 581 Accessories

Technical Remarks

- 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, see chapter „Technical information“.

Frame size	Compressed air connection				Weight	Part No.
	Input	Output	Exhaust	Pilot connection		
	[1]	[2 / 4]	[3 / 5]	[14]	[kg]	
ISO 4	G 1/2	G 1/2	G 1/2	G 1/8	0.63	5804710000

Dimensions



D581_029

Part No.		A *)	B *)	C	D	E	F	G	H	K	L	M
5804710000	ISO 4	G 1/2	G 1/8	142	76	37	10	55.5	20	40	2	175

Part No.	N	R	S	T	U	V	Weight kg					
5804710000	190	8.4	76	–	–	21	0.63					

*) Ports

Single subbase, ports on bottom

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



5810-481

Standards

Ambient temperature min./max.

Medium temperature min./max.

Medium

Working pressure min./max.

Number of valve positions

Surface

Direction of pneumatic port (1)

Direction of pneumatic port (3,5)

Direction of pneumatic port (2,4)

Direction of pneumatic port (14)

Exhaust (3,5)

ISO 5599-1

-20 °C / +70 °C

-20 °C / +70 °C

Compressed air

-1 bar / 16 bar

1

painted

Down

Down

Down

Down

uncollected exhaust

Ports separated

Materials:

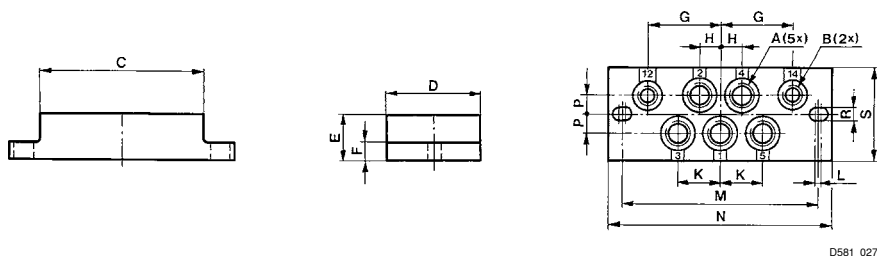
Base plate

Die-cast aluminum, black painted

ISO 5599-1, size 4, Series 581
Accessories
Technical Remarks

- 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, see chapter „Technical information“.

Frame size	Compressed air connection				Weight	Part No.
	Input	Output	Exhaust	Pilot connection		
	[1]	[2 / 4]	[3 / 5]	[14]	[kg]	
ISO 4	G 1/2	G 1/2	G 1/2	G 1/8	0.63	5804700000

Dimensions


Part No.		A *)	B *)	C	D	E	F	G	H	K	L	M
5804700000	ISO 4	G1/2	G1/8	142	76	37	10	55.5	20	40	2	175

Part No.	N	P	R	S	Weight kg							
5804700000	190	13	8.4	76	0.63							

*) Ports

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

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



00107662

Standards	ISO 5599-1, ISO 4
Ambient temperature min./max.	-25 °C / +70 °C
Medium temperature min./max.	-25 °C / +70 °C
Medium	Compressed air
Number of valve positions	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) Ports separated
Compressed air connection	according to ISO 5599-1
Materials:	
Base plate	Die-cast aluminum
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.

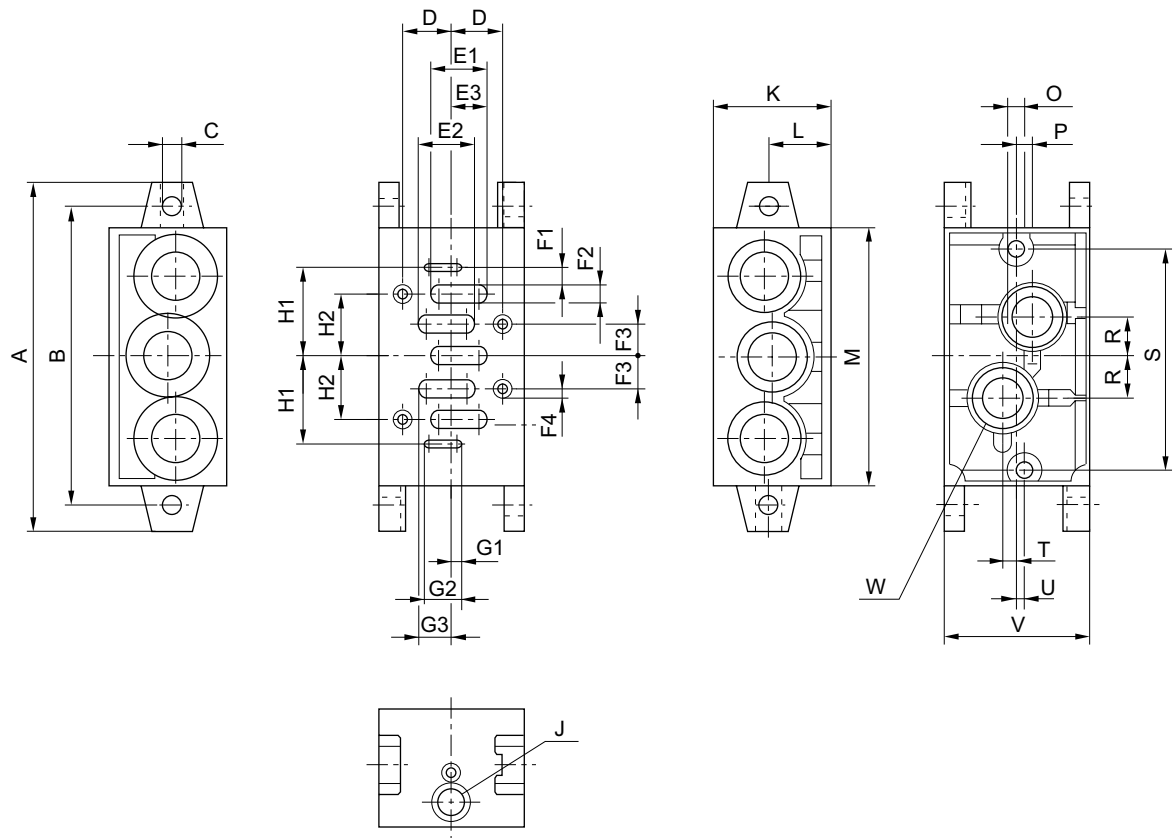
Frame size	Compressed air connection			Working pressure min./max.	Weight	Part No.
	Output	Pilot control exhaust	Pilot connection			
	[2 / 4]	[12]	[14]		[kg]	
ISO 4	G 3/4	G 1/8	G 1/8	-0.95 / 10	1.37	8985041422

Scope of delivery incl. seal and mounting screws

ISO 5599-1, size 4, Series 581

Accessories

Dimensions



00107666_a

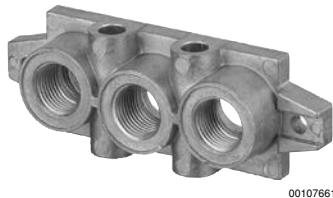
Part No.	A	B	C	D	E1	E2	E3	F1	F2	F3	F4	G1
8985041422	215	184	11	—	—	—	—	—	—	—	—	—
Part No.	G2	G3	H1	H2	J	K	L	M	O	P	R	S
8985041422	—	—	—	—	—	55	30	142	M8	8	26	—
Part No.	T	U	V	W	Weight kg							
8985041422	9	3	82	G 3/4	1.37							

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

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

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

Compressed air connection

Materials:

Base plate
Seals

ISO 5599-1, ISO 4

-25 °C / +70 °C
-25 °C / +70 °C
Compressed air
0 bar / 16 bar
On the side
On the side
With directional exhaust (3/5)
Ports separated
according to ISO 5599-1

Die-cast aluminum
Acrylonitrile butadiene rubber

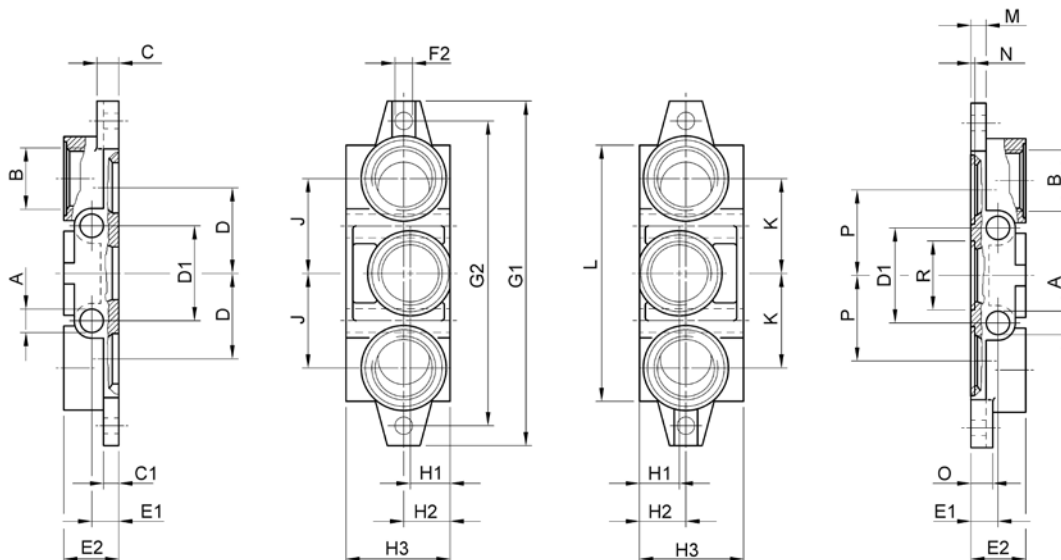
Technical Remarks

- 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, see chapter „Technical information“.

Frame size	Compressed air connection		Weight	Part No.
	Input	Exhaust		
	[1]	[3 / 5]	[kg]	
ISO 4	G 1	G 1	1.32	8985041442

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

Dimensions



00107701_a

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-03-08, ©AVENTICS S.à r.l., subject to change

ISO 5599-1, size 4, Series 581**Accessories**

Part No.	A	B	C	C1	D	D1	E1	E2	F2	G1	G2	H1
8985041442	12	G 1	19	12	54	56	15	30	Ø 11	215	148	30

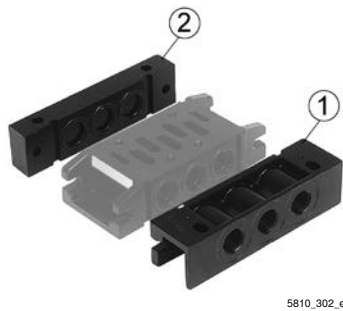
Part No.	H2	H3	J	K	M	N	O	P	R	Weight kg		
8985041442	30	58	54	54	12	2,7	19	54	Ø 44,1	1.32		

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

End plate left, End plate right

▶ standard: ISO 5599-1 ▶ Frame size: ISO 3 - ISO 4 ▶ type K ▶ Can be assembled into blocks



Standards

Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Surface
Exhaust (3,5)

ISO 5599-1

-20 °C / +70 °C
-20 °C / +70 °C
Compressed air
-1 bar / 16 bar
painted
uncollected exhaust
Ports separated

Materials:

Base plate
Seals

Die-cast aluminum, black painted
Acrylonitrile butadiene rubber

Technical Remarks

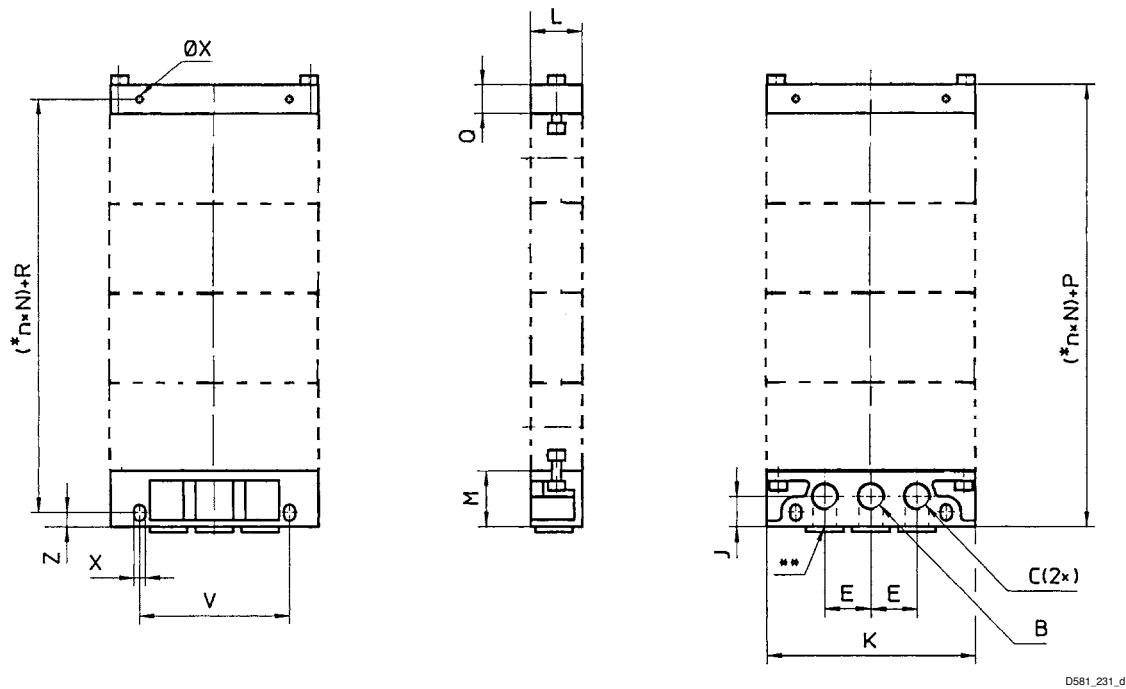
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Frame size	Compressed air connection		Weight	Part No.
	Input	Exhaust		
	[1]	[3 / 5]	[kg]	
ISO 3, ISO 4	G 3/4	G 3/4	0.55	5804850000
	-	-	0.3	5804860000

ISO 5599-1, size 4, Series 581

Accessories

Dimensions



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

Part No.		B	C	E	J	K	L	M	P	Q	R	V
5804850000	ISO 3 , ISO 4	G 3/4	G 3/4	44	24	190	42	44	64	-	45	146
5804860000	ISO 3 , ISO 4	-	-	-	-	190	42	-	64	20	45	146

Part No.	X	Z	Weight kg									
5804850000	8.4	10	0.55									
5804860000	8.4	-	0.3									

Valve systems ▶ Standardized valve systems

ISO 5599-1, size 4, Series 581 Accessories

Blanking plate

▶ standard: ISO 5599-1 ▶ Frame size: ISO 4



5810-321

Standards

Ambient temperature min./max.
Medium temperature min./max.
Medium
Working pressure min./max.
Number of valve positions

ISO 5599-1

-20 °C / +70 °C
-20 °C / +70 °C
Compressed air
-1 bar / 16 bar
1

Materials:

Housing
Base plate
Seals

Die-cast aluminum, black painted
Die-cast aluminum
Acrylonitrile butadiene rubber

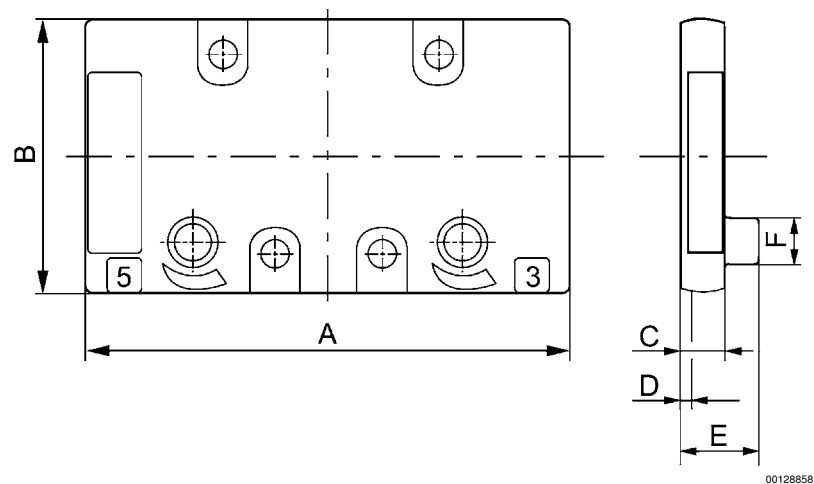
Technical Remarks

- 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, see chapter „Technical information“.

Frame size	Weight [kg]	Part No.
ISO 4	0.27	5804870000

Scope of delivery incl. seal and mounting screws

Dimensions



00128858

Part No.	A	B	C	D	E	F	Weight kg					
5804870000	142.5	74.5	10	2	20	15	0.27					

ISO 5599-1, size 4, Series 581
Accessories
Transition plate

► standard: ISO 5599-1 ► type K



5810-341

Standards

Ambient temperature min./max.

Medium temperature min./max.

Medium

Working pressure min./max.

Surface

Exhaust (3,5)

ISO 5599-1

-20 °C / +70 °C

-20 °C / +70 °C

Compressed air

-1 bar / 16 bar

painted

uncollected exhaust

Ports separated

Materials:

Base plate

Seals

Die-cast aluminum, black painted

Acrylonitrile butadiene rubber

Technical Remarks

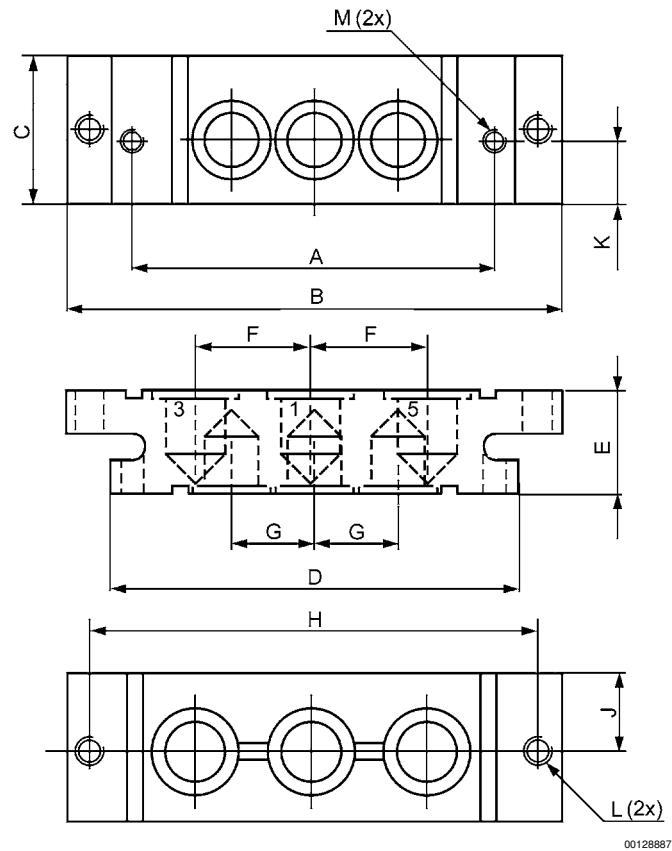
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Transition from	Transition to	Weight	Part No.
		[kg]	
a	d	0.5	5801640000
b	d	0.55	5802630000
c	d	0.63	5804610000

Transition plate can be used to combine Intermediate plates designated with appropriate letter (a-d).

ISO 5599-1, size 4, Series 581 Accessories

Dimensions



Part No.	A	B	C	D	E	F	G	H	J	K	L	M
5801640000	86	190	42	156	35	44	19	172	21	12.5	M8	M5
5802630000	108	190	42	156	35	44	27	172	21	15	M8	M6
5804610000	140	190	42	156	40	44	36	172	21	18.5	M8	M8

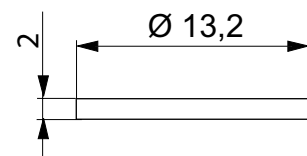
Part No.	Weight kg											
5801640000	0.5											
5802630000	0.55											
5804610000	0.63											

Separator set

► type K ► Frame size: ISO 3 - ISO 4



P581_033_1



23426

ISO 5599-1, size 4, Series 581
Accessories

Part No.	Frame size	*	Ambient temperature min./max. [°C]	Material	Weight [kg]	
5804880000	ISO 3, ISO 4	d	-20 / 70	Brass	0.029	
Delivery as 3-piece set *Separators labeled with the letters a-d can be assembled immediately on both sides of the intermediate plate that is labeled with the same letter.						

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08-03-2017

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.

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