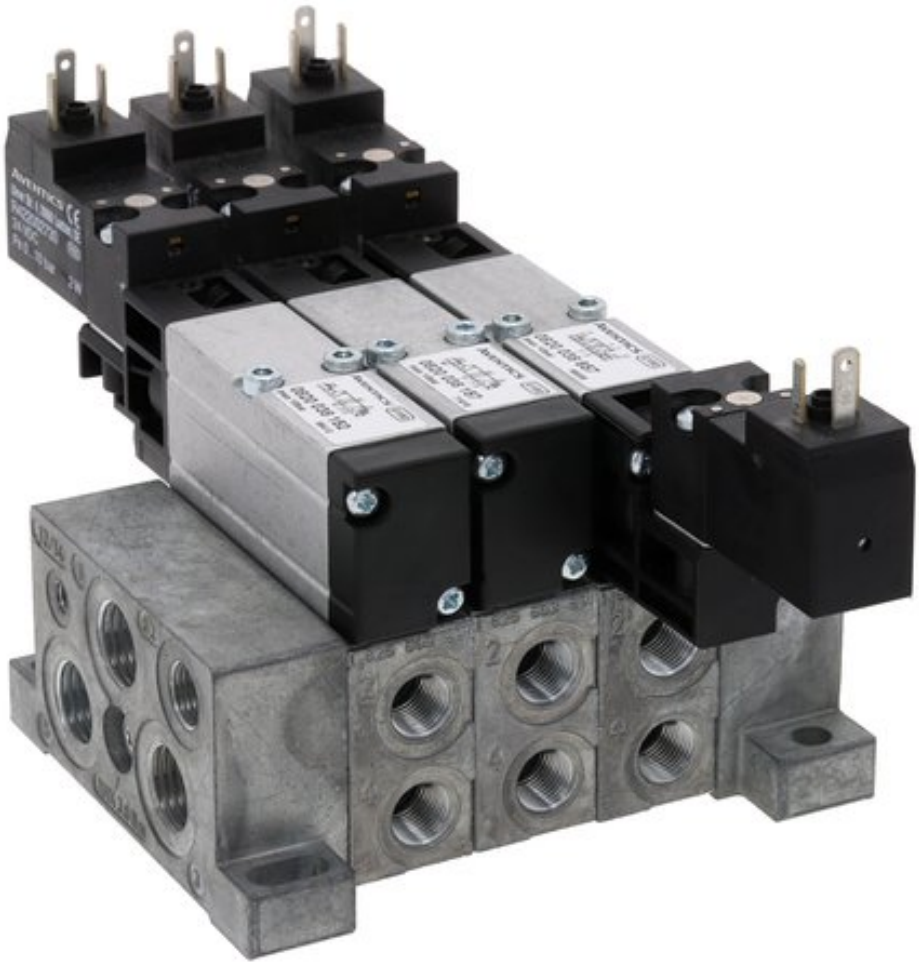
Series CD02-AL

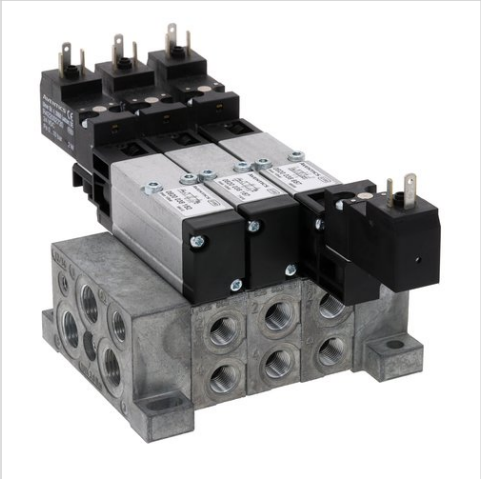


AVENTICS™ Series CD02-AL

EMERSON.

Valve system, Series CD02-AL

- Configurable valve systems



Standards	ISO 15407-1
Working pressure min./max.	-0.9 ... 10 bar
Control pressure min./max.	1.5 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Number of valve positions max.	32
Protection class with connection	IP65

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

Overview of variants

	Version	You have the following options:
	Single plug-in wiring	Electrical connection plug, form C
	Single plug-in wiring	Electrical connection plug, M12
	Pneumatically operated	
	Combination CD01 - CD02	Electrical connection plug, form C plug, M12 Pneumatically operated

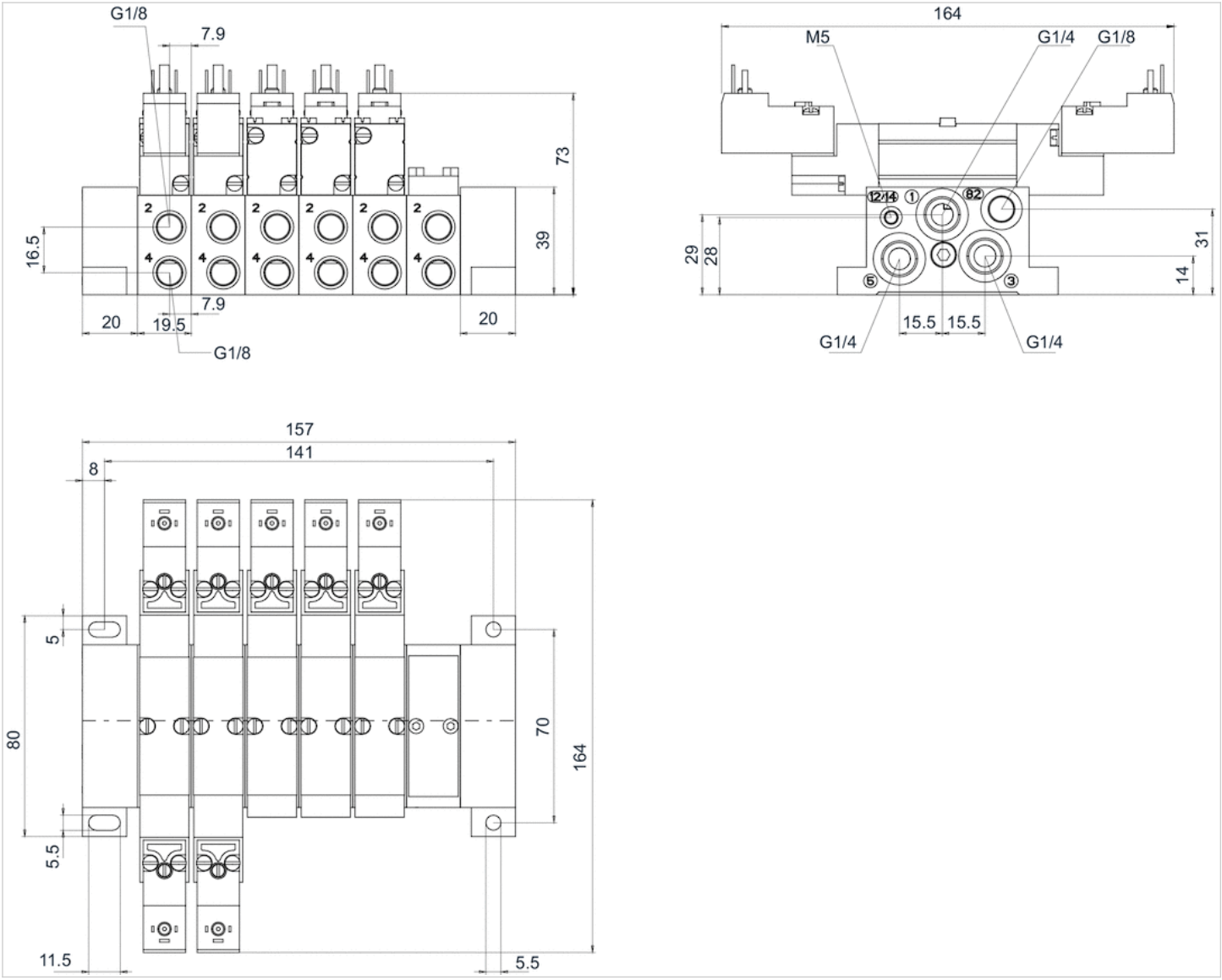
Technical information

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).

Working pressure and control pressure depend on the valve configuration.

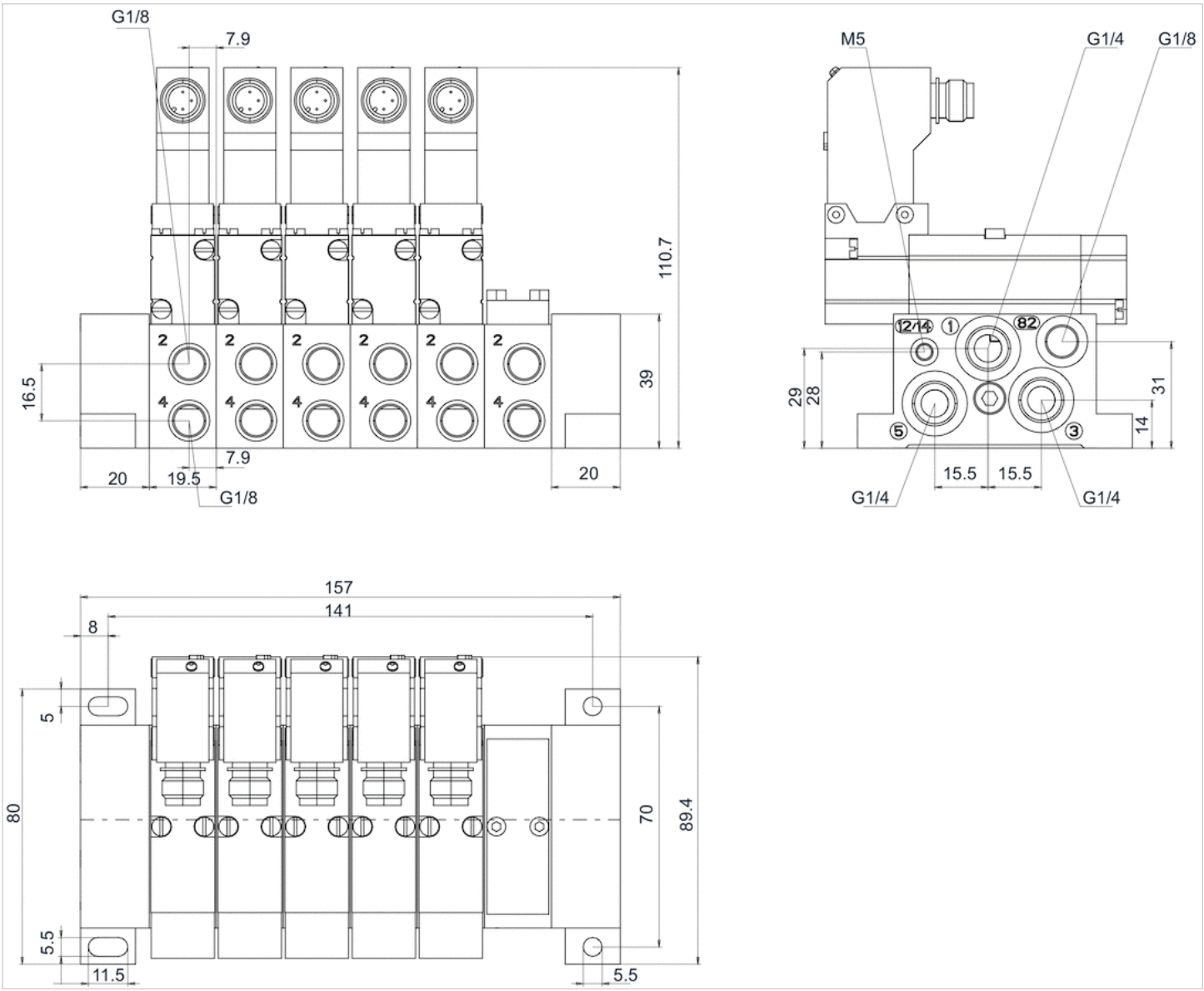
Dimensions

Dimensions, Electrically operated, form C



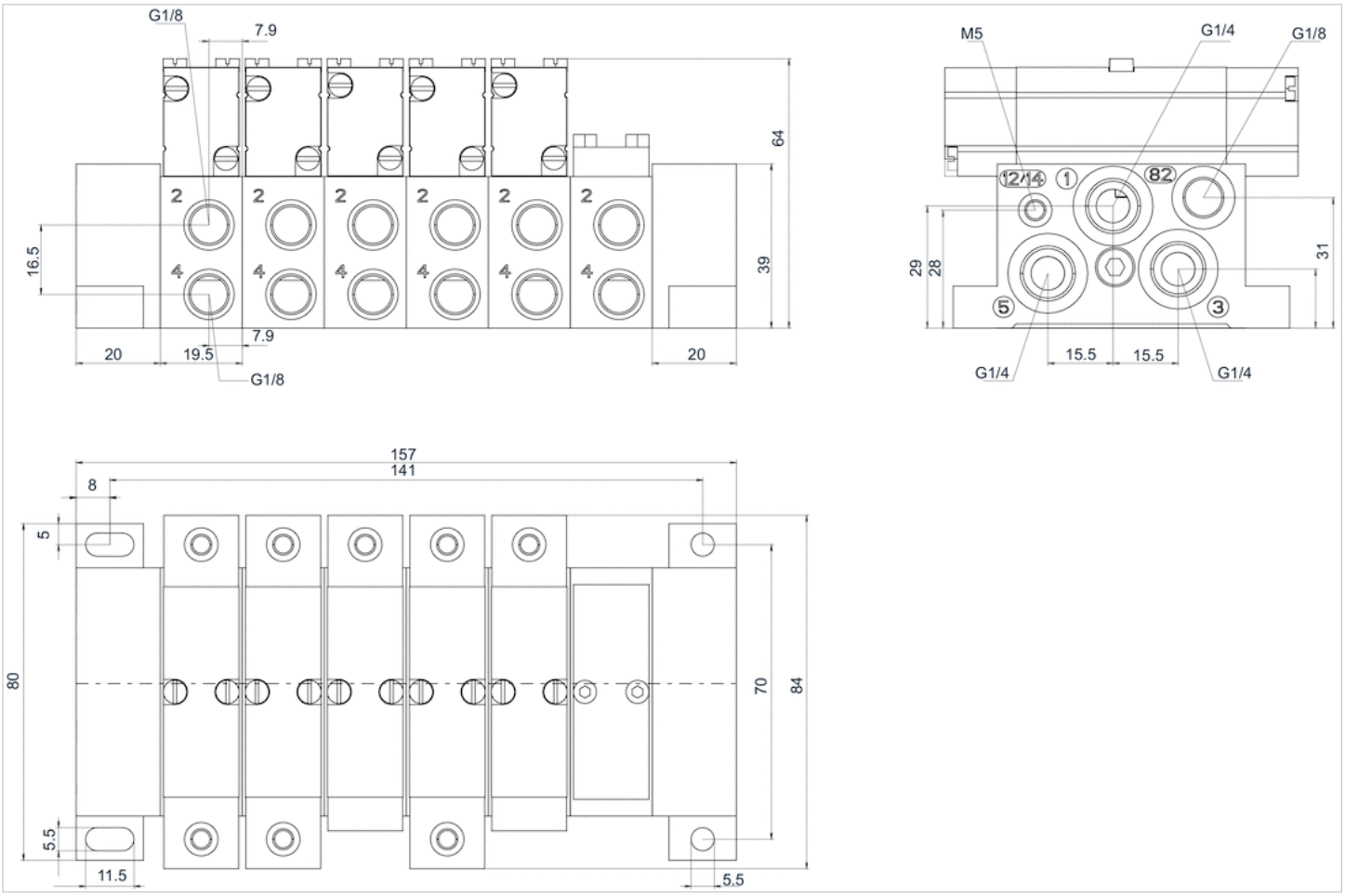
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions, plug M12



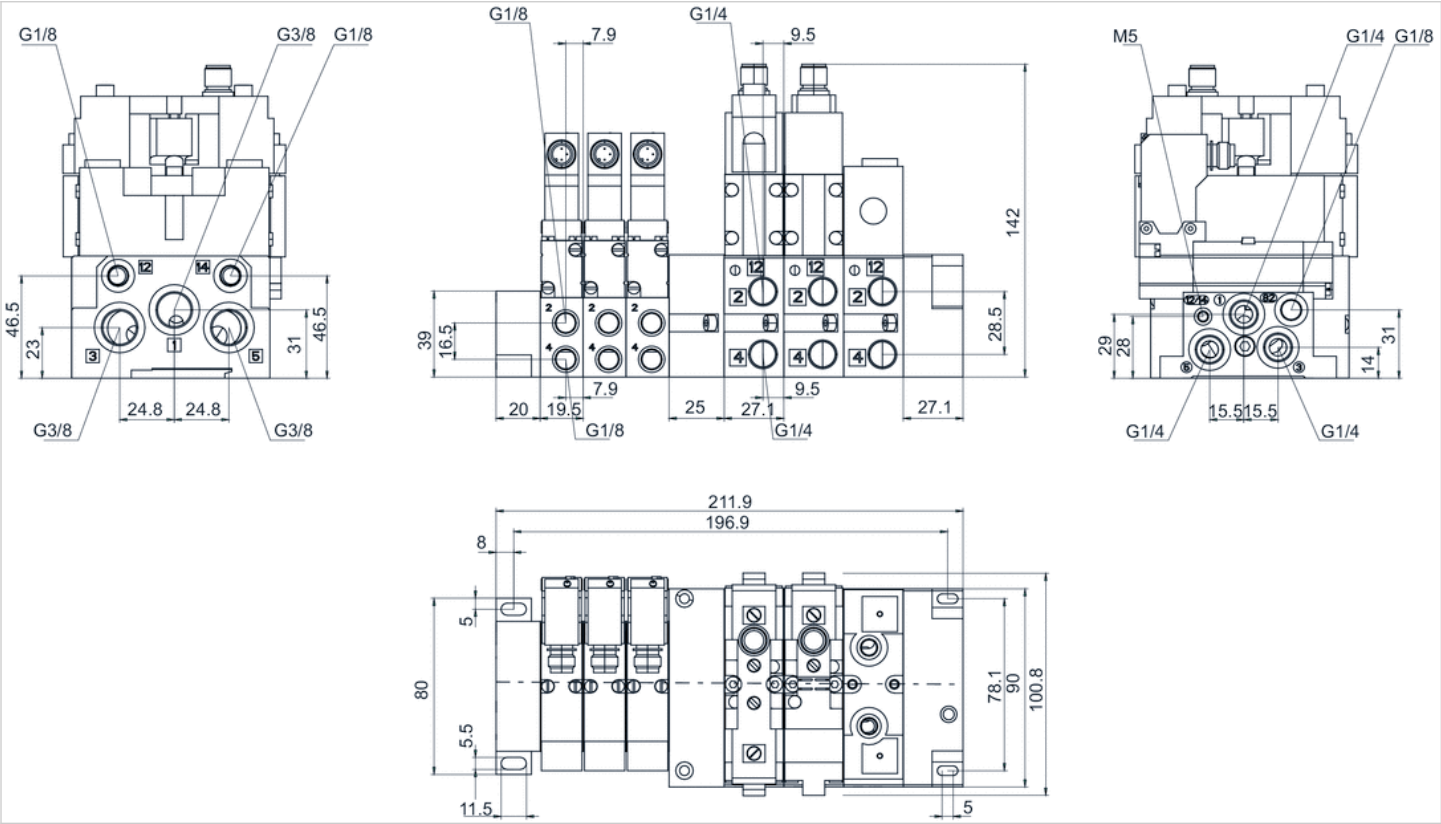
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions, Pneumatic control



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

Dimensions, Combination CD01 - CD02



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

2 x 3/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 2x3/2
- NC/NC NO/NO NO/NC
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C
- Manual override without detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	2.2 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protection class Without valve plug connector	See table below
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.			MO	Operational voltage DC	Operational voltage AC 50 Hz
0820037204		NC/NC		-	24 V
0820037202		NC/NC		24 V	-
0820037203		NC/NC		24 V	-
0820037205		NC/NC		-	110 V
0820037201		NC/NC		-	230 V
0820037904		NC/NC	—	-	-
0820037228		NO/NO		-	24 V
0820037226		NO/NO		24 V	-
0820037227		NO/NO		24 V	-
0820037229		NO/NO		-	110 V
0820037225		NO/NO		-	230 V
0820037905		NO/NO	—	-	-
0820037253		NO/NC		-	24 V
0820037251		NO/NC		24 V	-
0820037252		NO/NC		24 V	-
0820037254		NO/NC		-	110 V
0820037250		NO/NC		-	230 V
0820037906		NO/NC	—	-	-
0820037907		NC/NC	—	-	-
0820037908		NO/NO	—	-	-
0820037909		NO/NC	—	-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820037204	24 V	-	-10% / +10%	-10% / +10%
0820037202	-	-10% / +10%	-	-
0820037203	-	-10% / +10%	-	-
0820037205	110 V	-	-10% / +10%	-10% / +10%
0820037201	230 V	-	-10% / +10%	-10% / +10%
0820037904	-	-	-	-
0820037228	24 V	-	-10% / +10%	-10% / +10%
0820037226	-	-10% / +10%	-	-
0820037227	-	-10% / +10%	-	-
0820037229	110 V	-	-10% / +10%	-10% / +10%
0820037225	230 V	-	-10% / +10%	-10% / +10%
0820037905	-	-	-	-
0820037253	24 V	-	-10% / +10%	-10% / +10%
0820037251	-	-10% / +10%	-	-
0820037252	-	-10% / +10%	-	-
0820037254	110 V	-	-10% / +10%	-10% / +10%
0820037250	230 V	-	-10% / +10%	-10% / +10%
0820037906	-	-	-	-
0820037907	-	-	-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820037908	-	-	-	-
0820037909	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820037204	-	1.6 VA	1.4 VA	2.2 VA
0820037202	2 W	-	-	-
0820037203	1 W	-	-	-
0820037205	-	1.6 VA	1.4 VA	2.2 VA
0820037201	-	1.6 VA	1.4 VA	2.2 VA
0820037904	-	-	-	-
0820037228	-	1.6 VA	1.4 VA	2.2 VA
0820037226	2 W	-	-	-
0820037227	1 W	-	-	-
0820037229	-	1.6 VA	1.4 VA	2.2 VA
0820037225	-	1.6 VA	1.4 VA	2.2 VA
0820037905	-	-	-	-
0820037253	-	1.6 VA	1.4 VA	2.2 VA
0820037251	2 W	-	-	-
0820037252	1 W	-	-	-
0820037254	-	1.6 VA	1.4 VA	2.2 VA
0820037250	-	1.6 VA	1.4 VA	2.2 VA
0820037906	-	-	-	-
0820037907	-	-	-	-
0820037908	-	-	-	-
0820037909	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Typ. switch-on time	Typ. switch-off time
0820037204	2 VA	Internal	12 ms	24 ms
0820037202	-	Internal	12 ms	24 ms
0820037203	-	Internal	12 ms	24 ms
0820037205	2 VA	Internal	12 ms	24 ms
0820037201	2 VA	Internal	12 ms	24 ms
0820037904	-	Internal	-	-
0820037228	2 VA	Internal	12 ms	24 ms
0820037226	-	Internal	12 ms	24 ms
0820037227	-	Internal	12 ms	24 ms
0820037229	2 VA	Internal	12 ms	24 ms
0820037225	2 VA	Internal	12 ms	24 ms
0820037905	-	Internal	-	-
0820037253	2 VA	Internal	12 ms	24 ms
0820037251	-	Internal	12 ms	24 ms
0820037252	-	Internal	12 ms	24 ms
0820037254	2 VA	Internal	12 ms	24 ms
0820037250	2 VA	Internal	12 ms	24 ms

Part No.	Switch-on power AC 60 Hz	Pilot	Typ. switch-on time	Typ. switch-off time
0820037906	-	Internal	-	-
0820037907	-	External	-	-
0820037908	-	External	-	-
0820037909	-	External	-	-

Part No.	Electrical connection Pilot valve	basic valve with electrical connector
0820037204	2 Plug ISO 15217, form C	-
0820037202	2 Plug ISO 15217, form C	-
0820037203	2 Plug ISO 15217, form C	-
0820037205	2 Plug ISO 15217, form C	-
0820037201	2 Plug ISO 15217, form C	-
0820037904	2 Plug ISO 15217, form C	Basic valve without pilot valve
0820037228	2 Plug ISO 15217, form C	-
0820037226	2 Plug ISO 15217, form C	-
0820037227	2 Plug ISO 15217, form C	-
0820037229	2 Plug ISO 15217, form C	-
0820037225	2 Plug ISO 15217, form C	-
0820037905	2 Plug ISO 15217, form C	Basic valve without pilot valve
0820037253	2 Plug ISO 15217, form C	-
0820037251	2 Plug ISO 15217, form C	-
0820037252	2 Plug ISO 15217, form C	-
0820037254	2 Plug ISO 15217, form C	-
0820037250	2 Plug ISO 15217, form C	-
0820037906	2 Plug ISO 15217, form C	Basic valve without pilot valve
0820037907	2 Plug ISO 15217, form C	Basic valve without pilot valve
0820037908	2 Plug ISO 15217, form C	Basic valve without pilot valve
0820037909	2 Plug ISO 15217, form C	Basic valve without pilot valve

Part No.	Power consumption	Weight
0820037204	-	0.16 kg
0820037202	-	0.16 kg
0820037203	Low power consumption	0.16 kg
0820037205	-	0.16 kg
0820037201	-	0.16 kg
0820037904	-	0.1 kg
0820037228	-	0.16 kg
0820037226	-	0.16 kg
0820037227	Low power consumption	0.16 kg
0820037229	-	0.16 kg
0820037225	-	0.16 kg
0820037905	-	0.1 kg
0820037253	-	0.16 kg
0820037251	-	0.16 kg
0820037252	Low power consumption	0.16 kg
0820037254	-	0.16 kg

Part No.	Power consumption	Weight
0820037250	-	0.16 kg
0820037906	-	0.1 kg
0820037907	-	0.1 kg
0820037908	-	0.1 kg
0820037909	-	0.1 kg

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

Technical information

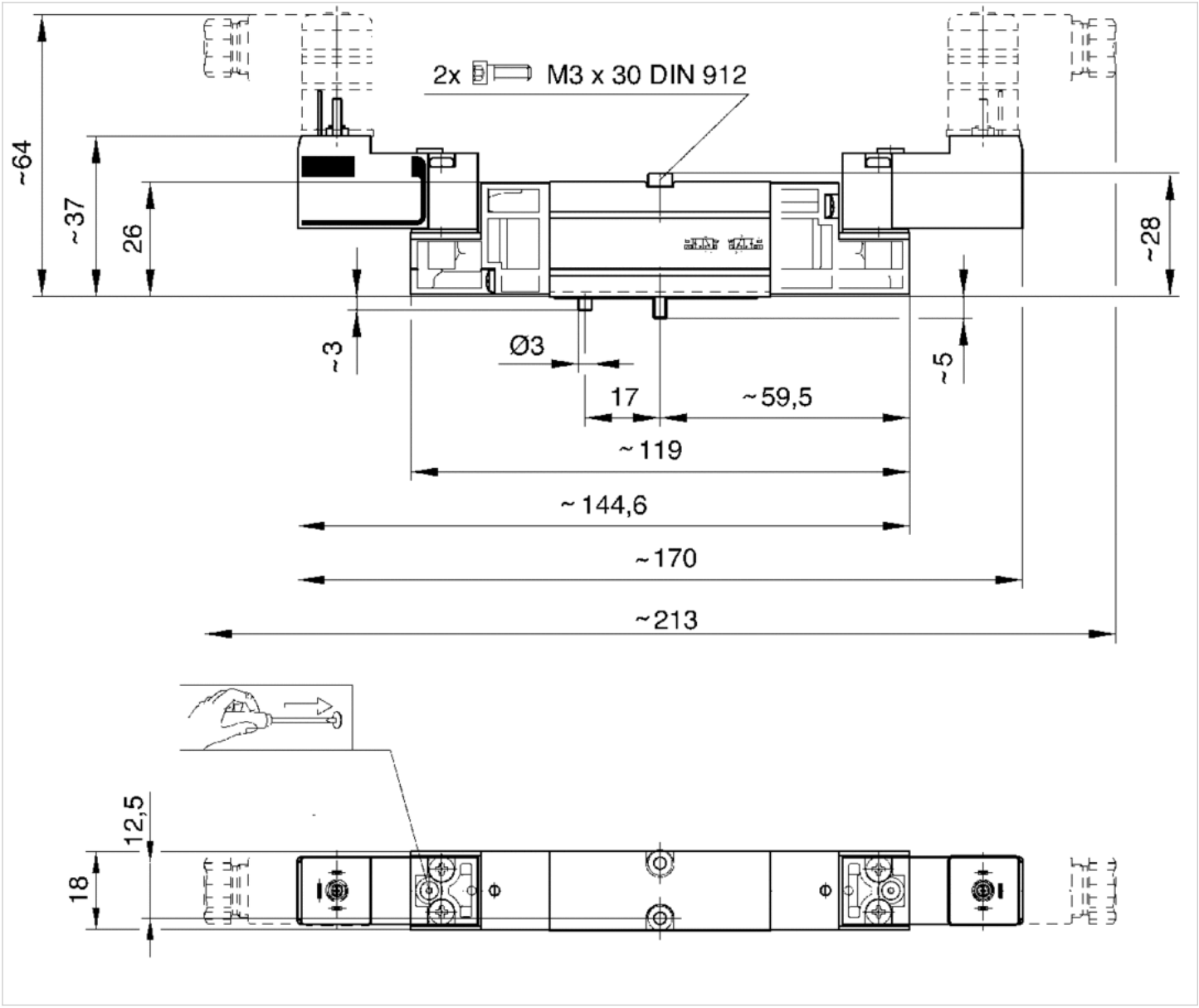
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



2 x 3/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 2x3/2
- NC/NC NO/NO NO/NC
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C
- Manual override with detent

Version	Spool valve, positive overlapping
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	2.2 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	24 ms
Mounting screw	M3
Weight	0.16 kg

Technical data

Part No.			MO	Operational voltage DC	Operational voltage AC 50 Hz
0820037304		NC/NC		-	24 V
0820037302		NC/NC		24 V	-
0820037303		NC/NC		24 V	-
0820037305		NC/NC		-	110 V
0820037301		NC/NC		-	230 V
0820037328		NO/NO		-	24 V
0820037326		NO/NO		24 V	-
0820037327		NO/NO		24 V	-
0820037329		NO/NO		-	110 V
0820037325		NO/NO		-	230 V
0820037353		NO/NC		-	24 V
0820037351		NO/NC		24 V	-
0820037352		NO/NC		24 V	-
0820037354		NO/NC		-	110 V
0820037350		NO/NC		-	230 V

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820037304	24 V	-	-10% / +10%	-10% / +10%
0820037302	-	-10% / +10%	-	-
0820037303	-	-10% / +10%	-	-
0820037305	110 V	-	-10% / +10%	-10% / +10%
0820037301	230 V	-	-10% / +10%	-10% / +10%
0820037328	24 V	-	-10% / +10%	-10% / +10%
0820037326	-	-10% / +10%	-	-
0820037327	-	-10% / +10%	-	-
0820037329	110 V	-	-10% / +10%	-10% / +10%
0820037325	230 V	-	-10% / +10%	-10% / +10%
0820037353	24 V	-	-10% / +10%	-10% / +10%
0820037351	-	-10% / +10%	-	-
0820037352	-	-10% / +10%	-	-
0820037354	110 V	-	-10% / +10%	-10% / +10%
0820037350	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820037304	-	1.6 VA	1.4 VA	2.2 VA
0820037302	2 W	-	-	-
0820037303	1 W	-	-	-
0820037305	-	1.6 VA	1.4 VA	2.2 VA
0820037301	-	1.6 VA	1.4 VA	2.2 VA
0820037328	-	1.6 VA	1.4 VA	2.2 VA
0820037326	2 W	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820037327	1 W	-	-	-
0820037329	-	1.6 VA	1.4 VA	2.2 VA
0820037325	-	1.6 VA	1.4 VA	2.2 VA
0820037353	-	1.6 VA	1.4 VA	2.2 VA
0820037351	2 W	-	-	-
0820037352	1 W	-	-	-
0820037354	-	1.6 VA	1.4 VA	2.2 VA
0820037350	-	1.6 VA	1.4 VA	2.2 VA

Part No.	Switch-on power AC 60 Hz	Electrical connection Pilot valve	
0820037304	2 VA	2 Plug ISO 15217, form C	-
0820037302	-	2 Plug ISO 15217, form C	-
0820037303	-	2 Plug ISO 15217, form C	1)
0820037305	2 VA	2 Plug ISO 15217, form C	-
0820037301	2 VA	2 Plug ISO 15217, form C	-
0820037328	2 VA	2 Plug ISO 15217, form C	-
0820037326	-	2 Plug ISO 15217, form C	-
0820037327	-	2 Plug ISO 15217, form C	1)
0820037329	2 VA	2 Plug ISO 15217, form C	-
0820037325	2 VA	2 Plug ISO 15217, form C	-
0820037353	2 VA	2 Plug ISO 15217, form C	-
0820037351	-	2 Plug ISO 15217, form C	-
0820037352	-	2 Plug ISO 15217, form C	1)
0820037354	2 VA	2 Plug ISO 15217, form C	-
0820037350	2 VA	2 Plug ISO 15217, form C	-

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

1) Low power consumption

Technical information

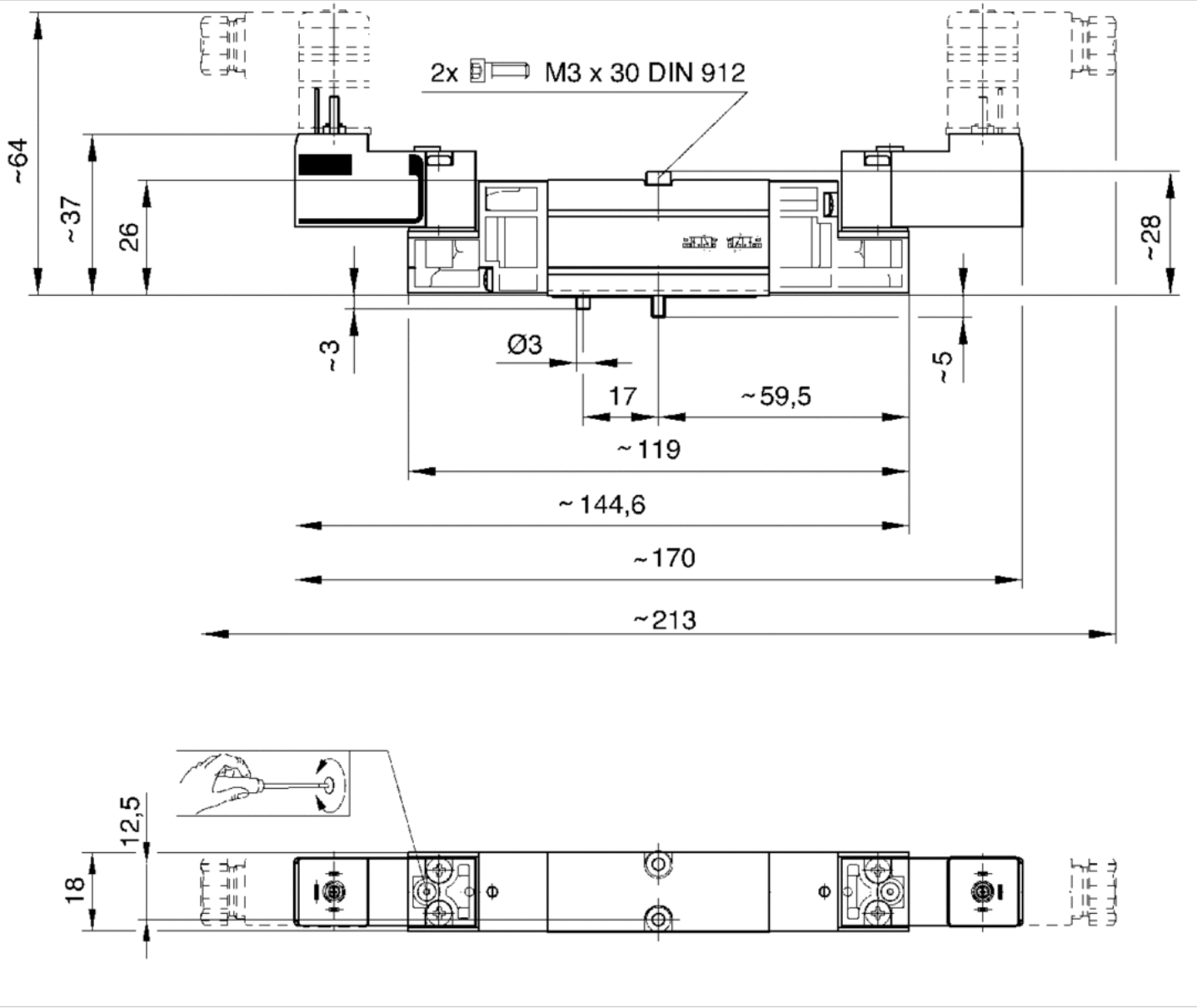
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



2 x 3/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 2x3/2
- NC/NC NO/NO NO/NC
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override without detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.			MO	Operational voltage DC	Voltage tolerance DC
7472D02817		NC/NC		24 V	-15% / +20%
7472D02823		NC/NC		24 V	-15% / +20%
7472D02818		NO/NO		24 V	-15% / +20%
7472D02824		NO/NO		24 V	-15% / +20%
7472D02819		NO/NC		24 V	-15% / +20%
7472D02825		NO/NC		24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02817	0.35 W	Internal	2.5 ... 10 bar
7472D02823	0.35 W	External	-0.8 ... 10 bar
7472D02818	0.35 W	Internal	2.5 ... 10 bar
7472D02824	0.35 W	External	-0.8 ... 10 bar
7472D02819	0.35 W	Internal	2.5 ... 10 bar
7472D02825	0.35 W	External	-0.8 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
7472D02817	13 ms	25 ms	Plug M12 3-pin
7472D02823	13 ms	25 ms	Plug M12 3-pin
7472D02818	12 ms	20 ms	Plug M12 3-pin
7472D02824	12 ms	20 ms	Plug M12 3-pin
7472D02819	13 ms	25 ms	Plug M12 3-pin
7472D02825	12 ms	25 ms	Plug M12 3-pin

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

Technical information

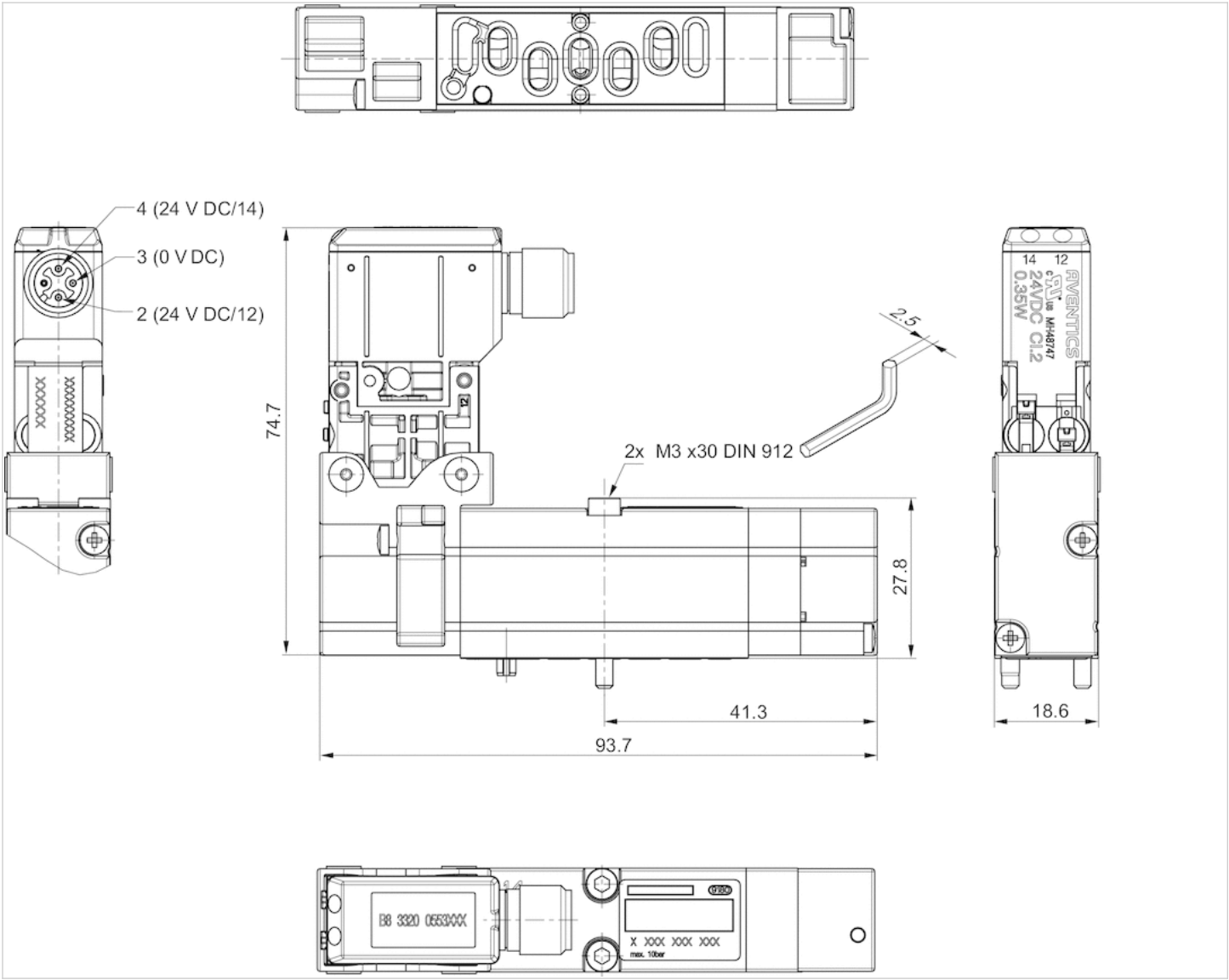
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



2 x 3/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 2x3/2
- NC/NC NO/NO NO/NC
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override with detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.			MO	Operational voltage DC	Voltage tolerance DC
7472D02820		NC/NC		24 V	-15% / +20%
7472D02826		NC/NC		24 V	-15% / +20%
7472D02821		NO/NO		24 V	-15% / +20%
7472D02827		NO/NO		24 V	-15% / +20%
7472D02822		NO/NO		24 V	-15% / +20%
7472D02828		NO/NO		24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02820	0.35 W	Internal	2.5 ... 10 bar
7472D02826	0.35 W	External	-0.8 ... 10 bar
7472D02821	0.35 W	Internal	2.5 ... 10 bar
7472D02827	0.35 W	External	-0.8 ... 10 bar
7472D02822	0.35 W	Internal	2.5 ... 10 bar
7472D02828	0.35 W	External	-0.8 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
7472D02820	13 ms	25 ms	Plug M12 3-pin
7472D02826	13 ms	25 ms	Plug M12 3-pin
7472D02821	12 ms	20 ms	Plug M12 3-pin
7472D02827	12 ms	20 ms	Plug M12 3-pin
7472D02822	13 ms	25 ms	Plug M12 3-pin
7472D02828	12 ms	25 ms	Plug M12 3-pin

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

Technical information

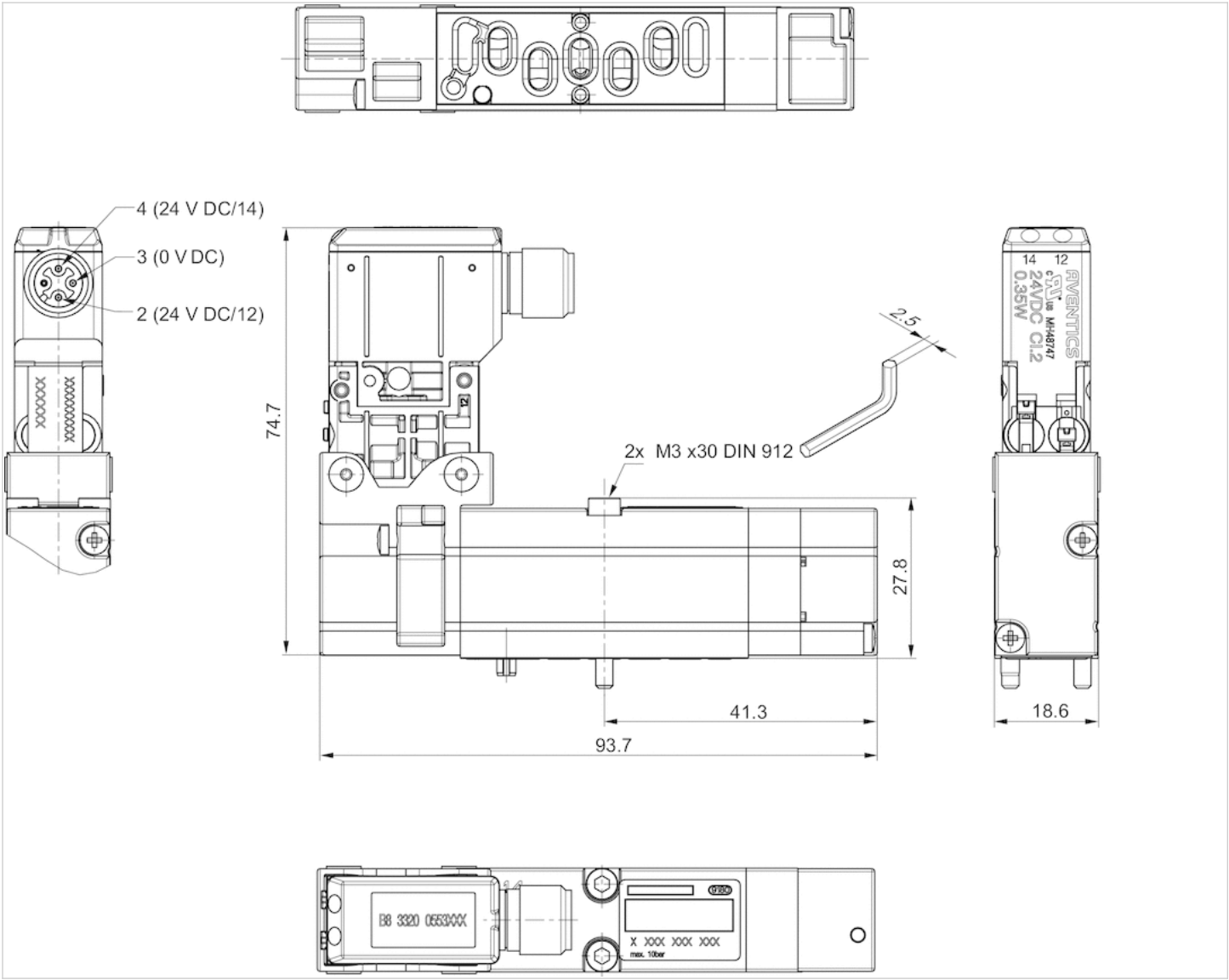
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent

Version	Spool valve, positive overlapping
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
0820038154			-	24 V
0820038152			24 V	-
0820038153			24 V	-
0820038155			-	110 V
0820038151			-	230 V
0820038654			-	24 V
0820038652			24 V	-
0820038653			24 V	-
0820038655			-	110 V
0820038651			-	230 V

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820038154	24 V	-	-10% / +10%	-10% / +10%
0820038152	-	-10% / +10%	-	-
0820038153	-	-10% / +10%	-	-
0820038155	110 V	-	-10% / +10%	-10% / +10%
0820038151	230 V	-	-10% / +10%	-10% / +10%
0820038654	-	-	-10% / +10%	-10% / +10%
0820038652	-	-10% / +10%	-	-
0820038653	-	-10% / +10%	-	-
0820038655	110 V	-	-10% / +10%	-10% / +10%
0820038651	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820038154	-	1.6 VA	1.4 VA	2.2 VA
0820038152	2 W	-	-	-
0820038153	1 W	-	-	-
0820038155	-	1.6 VA	1.4 VA	2.2 VA
0820038151	-	1.6 VA	1.4 VA	2.2 VA
0820038654	-	1.6 VA	1.4 VA	2.2 VA
0820038652	2 W	-	-	-
0820038653	1 W	-	-	-
0820038655	-	1.6 VA	1.4 VA	2.2 VA
0820038651	-	1.6 VA	1.4 VA	2.2 VA

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038154	2 VA	2 ... 10 bar	2 ... 10 bar
0820038152	-	2 ... 10 bar	2 ... 10 bar
0820038153	-	2 ... 10 bar	2 ... 10 bar
0820038155	2 VA	2 ... 10 bar	2 ... 10 bar

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038151	2 VA	2 ... 10 bar	2 ... 10 bar
0820038654	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038652	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038653	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038655	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038651	2 VA	1.5 ... 10 bar	1.5 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve	Weight
0820038154	11 ms	14 ms	Plug ISO 15217, form C	0.11 kg
0820038152	11 ms	14 ms	Plug ISO 15217, form C	0.11 kg
0820038153	12 ms	16 ms	Plug ISO 15217, form C	0.11 kg
0820038155	11 ms	14 ms	Plug ISO 15217, form C	0.11 kg
0820038151	11 ms	14 ms	Plug ISO 15217, form C	0.11 kg
0820038654	8 ms	8 ms	Plug ISO 15217, form C	0.16 kg
0820038652	8 ms	8 ms	Plug ISO 15217, form C	0.16 kg
0820038653	10 ms	10 ms	Plug ISO 15217, form C	0.16 kg
0820038655	8 ms	8 ms	Plug ISO 15217, form C	0.16 kg
0820038651	8 ms	8 ms	Plug ISO 15217, form C	0.16 kg

Part No.	
0820038154	-
0820038152	-
0820038153	1)
0820038155	-
0820038151	-
0820038654	-
0820038652	-
0820038653	1)
0820038655	-
0820038651	-

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

1) Low power consumption

Technical information

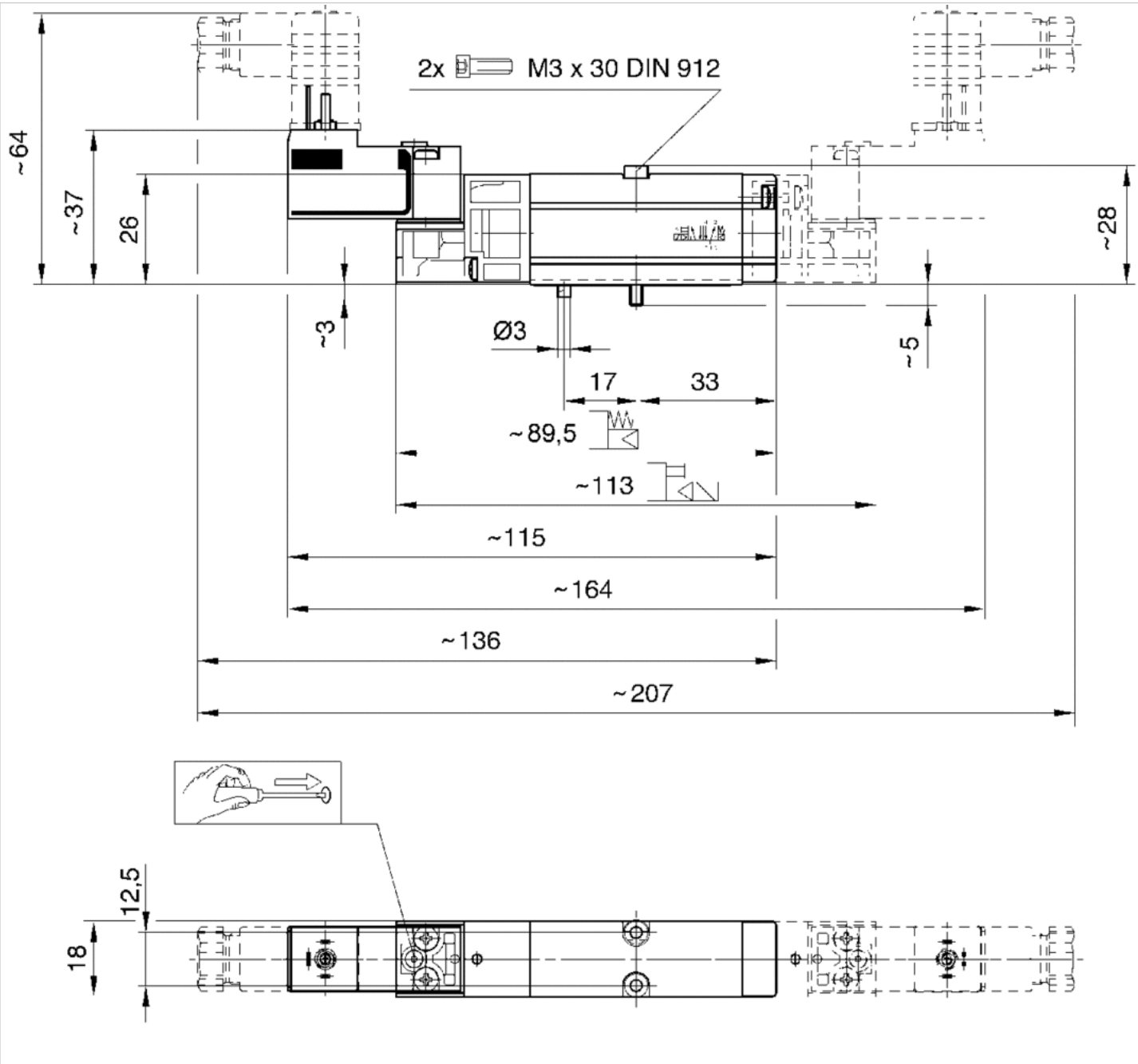
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent

Version	Spool valve, positive overlapping
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
0820038178			-	24 V
0820038176			24 V	-
0820038177			24 V	-
0820038179			-	110 V
0820038175			-	230 V
0820038955		—	-	-
0820038678			-	24 V
0820038676			24 V	-
0820038677			24 V	-
0820038679			-	110 V
0820038675			-	230 V
0820038957		—	-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
0820038178	24 V	-	-10% / +10%	-10% / +10%
0820038176	-	-10% / +10%	-	-
0820038177	-	-10% / +10%	-	-
0820038179	110 V	-	-10% / +10%	-10% / +10%
0820038175	230 V	-	-10% / +10%	-10% / +10%
0820038955	-	-	-	-
0820038678	24 V	-	-10% / +10%	-10% / +10%
0820038676	-	-10% / +10%	-	-
0820038677	-	-10% / +10%	-	-
0820038679	110 V	-	-10% / +10%	-10% / +10%
0820038675	230 V	-	-10% / +10%	-10% / +10%
0820038957	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
0820038178	-	1.6 VA	1.4 VA	2.2 VA
0820038176	2 W	-	-	-
0820038177	1 W	-	-	-
0820038179	-	1.6 VA	1.4 VA	2.2 VA
0820038175	-	1.6 VA	1.4 VA	2.2 VA
0820038955	-	-	-	-
0820038678	-	1.6 VA	1.4 VA	2.2 VA
0820038676	2 W	-	-	-
0820038677	1 W	-	-	-
0820038679	-	1.6 VA	1.4 VA	2.2 VA
0820038675	-	1.6 VA	1.4 VA	2.2 VA
0820038957	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Working pressure min./max.	Control pressure min./max.
0820038178	2 VA	2 ... 10 bar	2 ... 10 bar
0820038176	-	2 ... 10 bar	2 ... 10 bar
0820038177	-	2 ... 10 bar	2 ... 10 bar
0820038179	2 VA	2 ... 10 bar	2 ... 10 bar
0820038175	2 VA	2 ... 10 bar	2 ... 10 bar
0820038955	-	2 ... 10 bar	2 ... 10 bar
0820038678	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038676	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038677	-	1.5 ... 10 bar	1.5 ... 10 bar
0820038679	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038675	2 VA	1.5 ... 10 bar	1.5 ... 10 bar
0820038957	-	1.5 ... 10 bar	1.5 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820038178	11 ms	14 ms	Plug ISO 15217, form C
0820038176	11 ms	14 ms	Plug ISO 15217, form C
0820038177	12 ms	16 ms	Plug ISO 15217, form C
0820038179	11 ms	14 ms	Plug ISO 15217, form C
0820038175	11 ms	14 ms	Plug ISO 15217, form C
0820038955	-	-	Plug ISO 15217, form C
0820038678	8 ms	8 ms	Plug ISO 15217, form C
0820038676	8 ms	8 ms	Plug ISO 15217, form C
0820038677	10 ms	10 ms	Plug ISO 15217, form C
0820038679	8 ms	8 ms	Plug ISO 15217, form C
0820038675	8 ms	8 ms	Plug ISO 15217, form C
0820038957	-	-	Plug ISO 15217, form C

Part No.	basic valve with electrical connector	Weight	
0820038178	-	0.11 kg	-
0820038176	-	0.11 kg	-
0820038177	-	0.11 kg	1)
0820038179	-	0.11 kg	-
0820038175	-	0.11 kg	-
0820038955	Basic valve without pilot valve	0.08 kg	-
0820038678	-	0.16 kg	-
0820038676	-	0.16 kg	-
0820038677	-	0.16 kg	1)
0820038679	-	0.16 kg	-
0820038675	-	0.16 kg	-
0820038957	Basic valve without pilot valve	0.1 kg	-

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

1) Low power consumption

Technical information

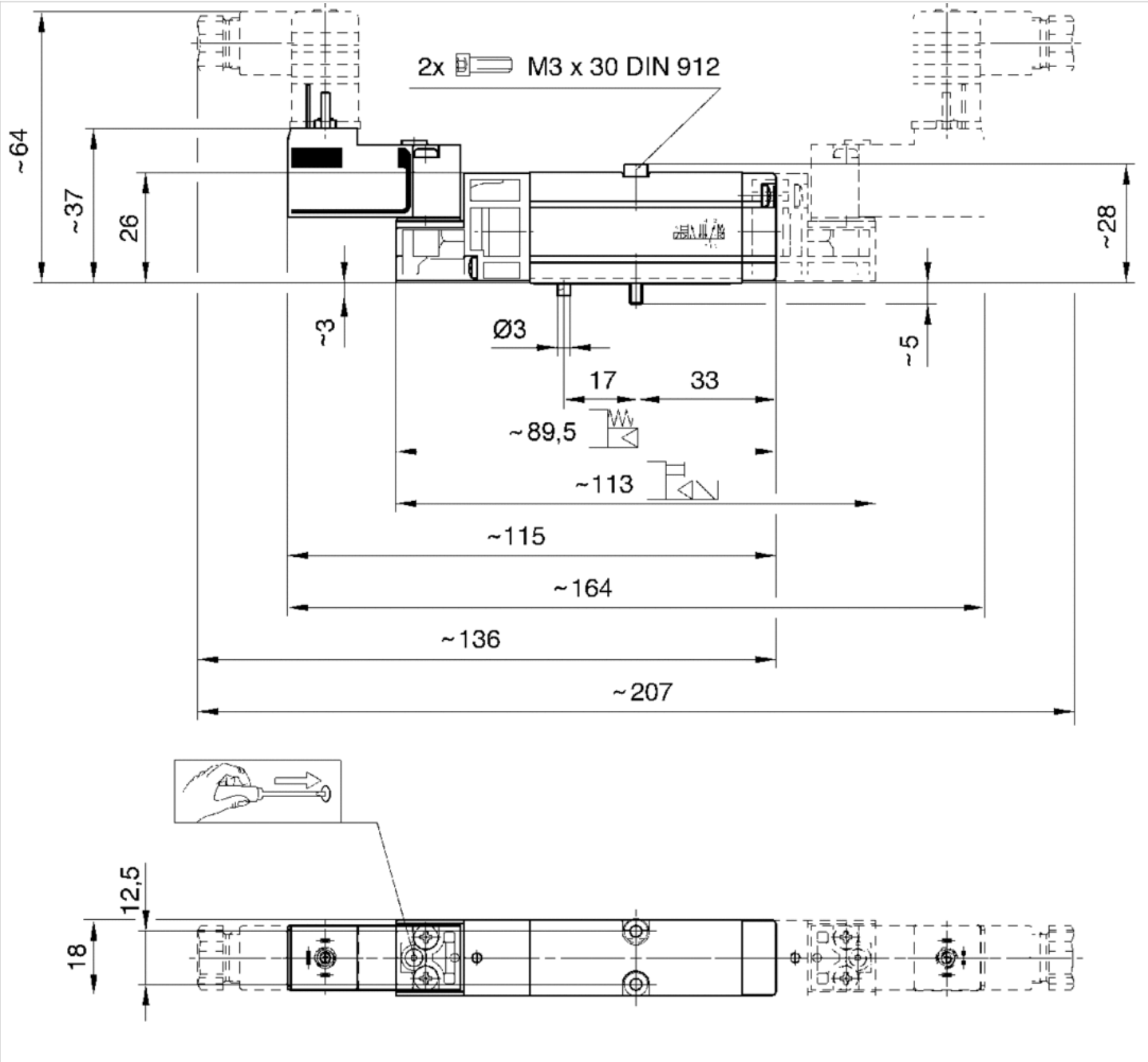
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override without detent

Version	Spool valve, positive overlapping
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	-0.9 ... 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
0820038157			24 V	-10% / +10%
0820038959		–	-	-
0820038657			24 V	-10% / +10%
0820038961		–	-	-

Part No.	Power consumption DC	Control pressure min./max.	Typ. switch-on time
0820038157	2 W	2 ... 10 bar	11 ms
0820038959	-	2 ... 10 bar	-
0820038657	2 W	1.5 ... 10 bar	8 ms
0820038961	-	1.5 ... 10 bar	-

Part No.	Typ. switch-off time	Electrical connection Pilot valve	basic valve with electrical connector
0820038157	14 ms	Plug ISO 15217, form C	-
0820038959	-	Plug ISO 15217, form C	Basic valve without pilot valve
0820038657	10 ms	Plug ISO 15217, form C	-
0820038961	-	Plug ISO 15217, form C	Basic valve without pilot valve

Part No.	Weight
0820038157	0.11 kg
0820038959	0.08 kg
0820038657	0.16 kg
0820038961	0.1 kg

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

Technical information

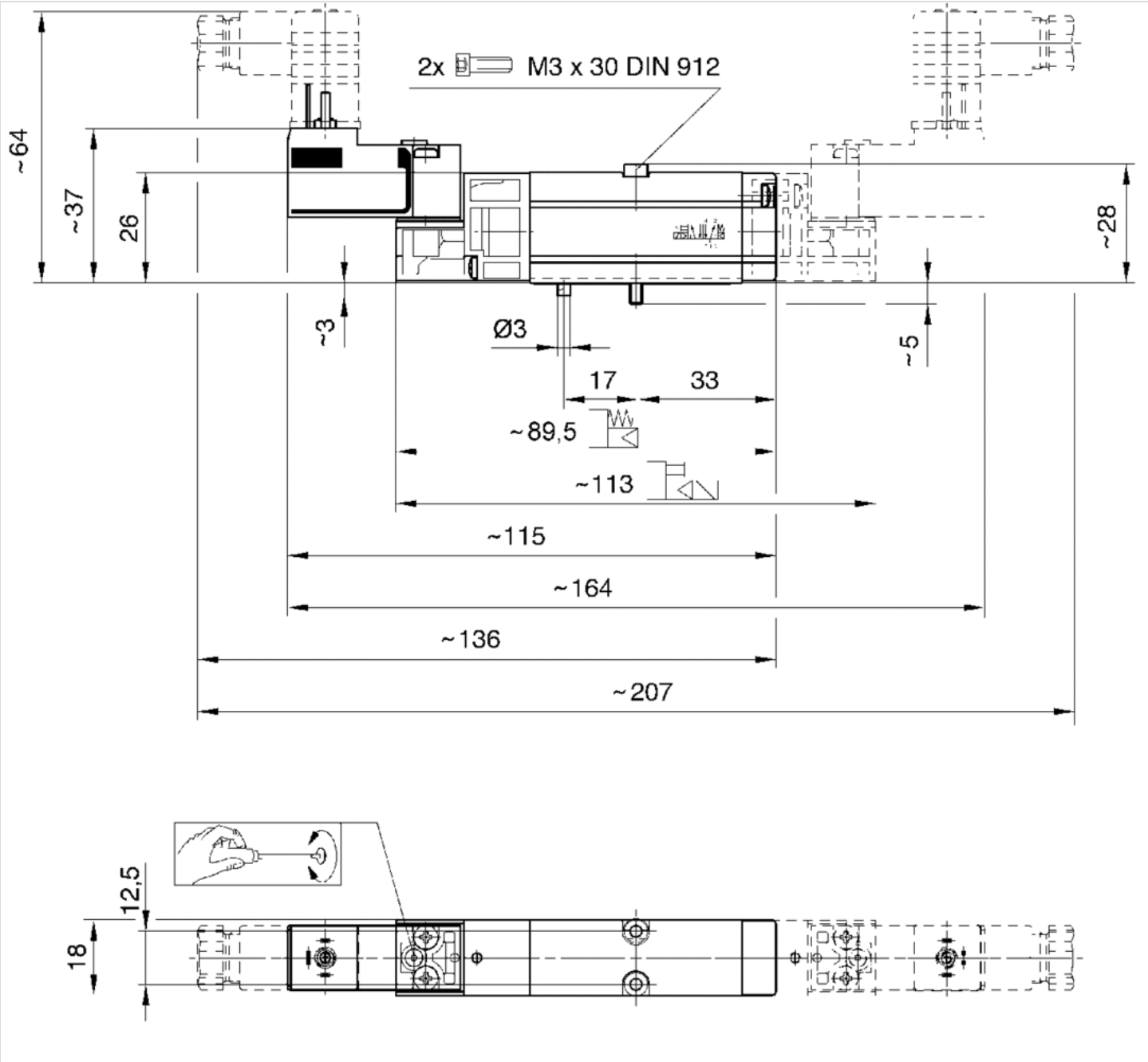
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- single solenoid double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, ISO 15217, form C
- Manual override with detent

Version	Spool valve, positive overlapping
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	-0.9 ... 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
0820038181			24 V	-10% / +10%
0820038681			24 V	-10% / +10%

Part No.	Power consumption DC	Control pressure min./max.	Typ. switch-on time
0820038181	2 W	2 ... 10 bar	11 ms
0820038681	2 W	1.5 ... 10 bar	8 ms

Part No.	Typ. switch-off time	Electrical connection Pilot valve	Weight
0820038181	14 ms	Plug ISO 15217, form C	0.11 kg

Part No.	Typ. switch-off time	Electrical connection Pilot valve	Weight
0820038681	10 ms	Plug ISO 15217, form C	0.16 kg

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

Technical information

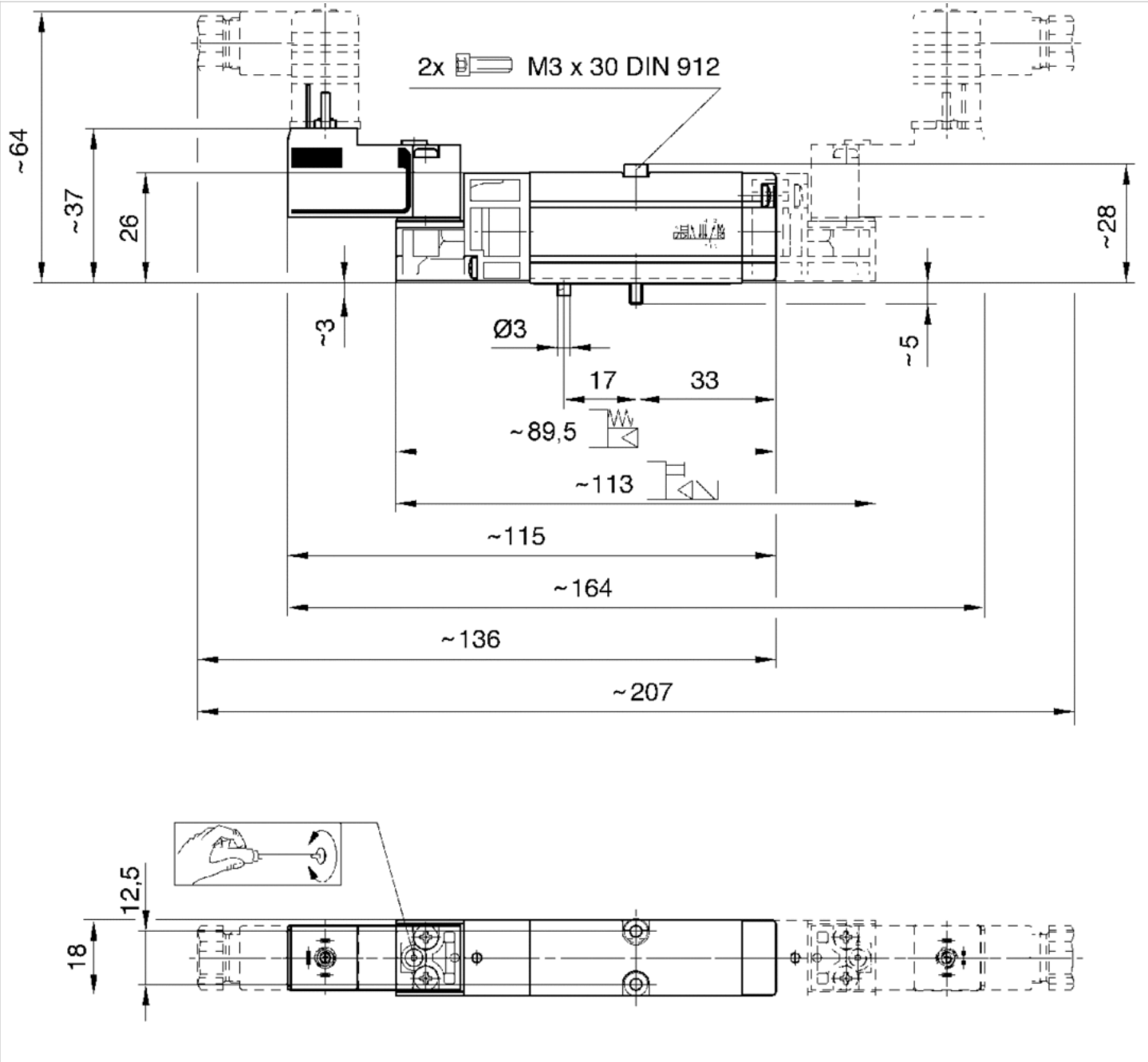
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- double solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override without detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
R422000306			24 V	-15% / +20%
7472D02833			24 V	-15% / +20%
R422000307			24 V	-15% / +20%
7472D02834			24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
R422000306	0.35 W	Internal	2.5 ... 10 bar
7472D02833	0.35 W	External	-0.8 ... 10 bar
R422000307	0.35 W	Internal	2.5 ... 10 bar

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02834	0.35 W	External	-0.8 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
R422000306	12 ms	21 ms	Plug M12 3-pin
7472D02833	12 ms	21 ms	Plug M12 3-pin
R422000307	14 ms	14 ms	Plug M12 3-pin
7472D02834	14 ms	14 ms	Plug M12 3-pin

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

Technical information

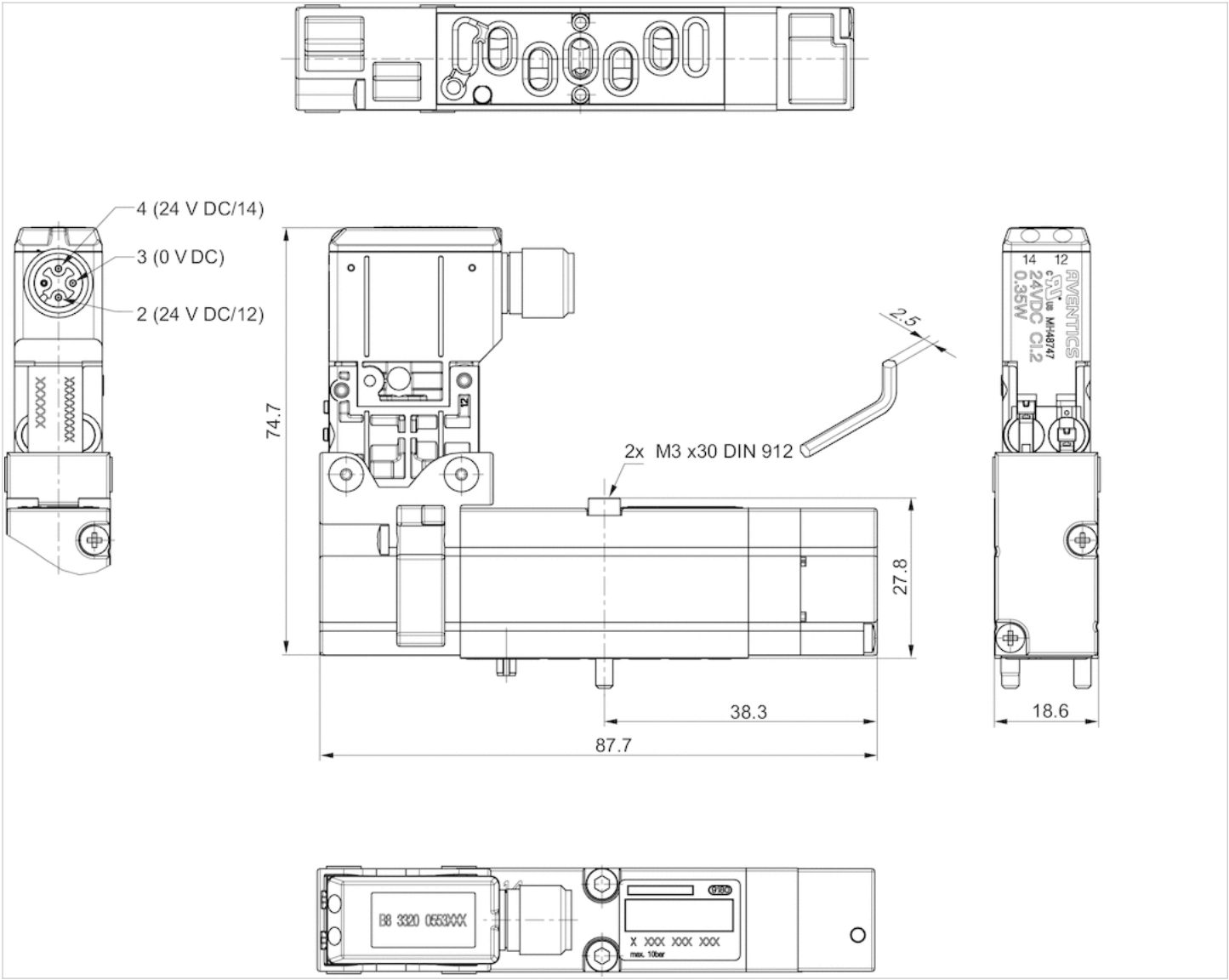
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/2
- With spring/air spring return
- double solenoid single solenoid
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override with detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
7472D02832			24 V	-15% / +20%
7472D02836			24 V	-15% / +20%
7472D02831			24 V	-15% / +20%
7472D02835			24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02832	0.35 W	Internal	2.5 ... 10 bar
7472D02836	0.35 W	External	-0.8 ... 10 bar
7472D02831	0.35 W	Internal	2.5 ... 10 bar

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02835	0.35 W	External	-0.8 ... 10 bar

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
7472D02832	14 ms	14 ms	Plug M12 3-pin
7472D02836	14 ms	14 ms	Plug M12 3-pin
7472D02831	12 ms	21 ms	Plug M12 3-pin
7472D02835	12 ms	21 ms	Plug M12 3-pin

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

Technical information

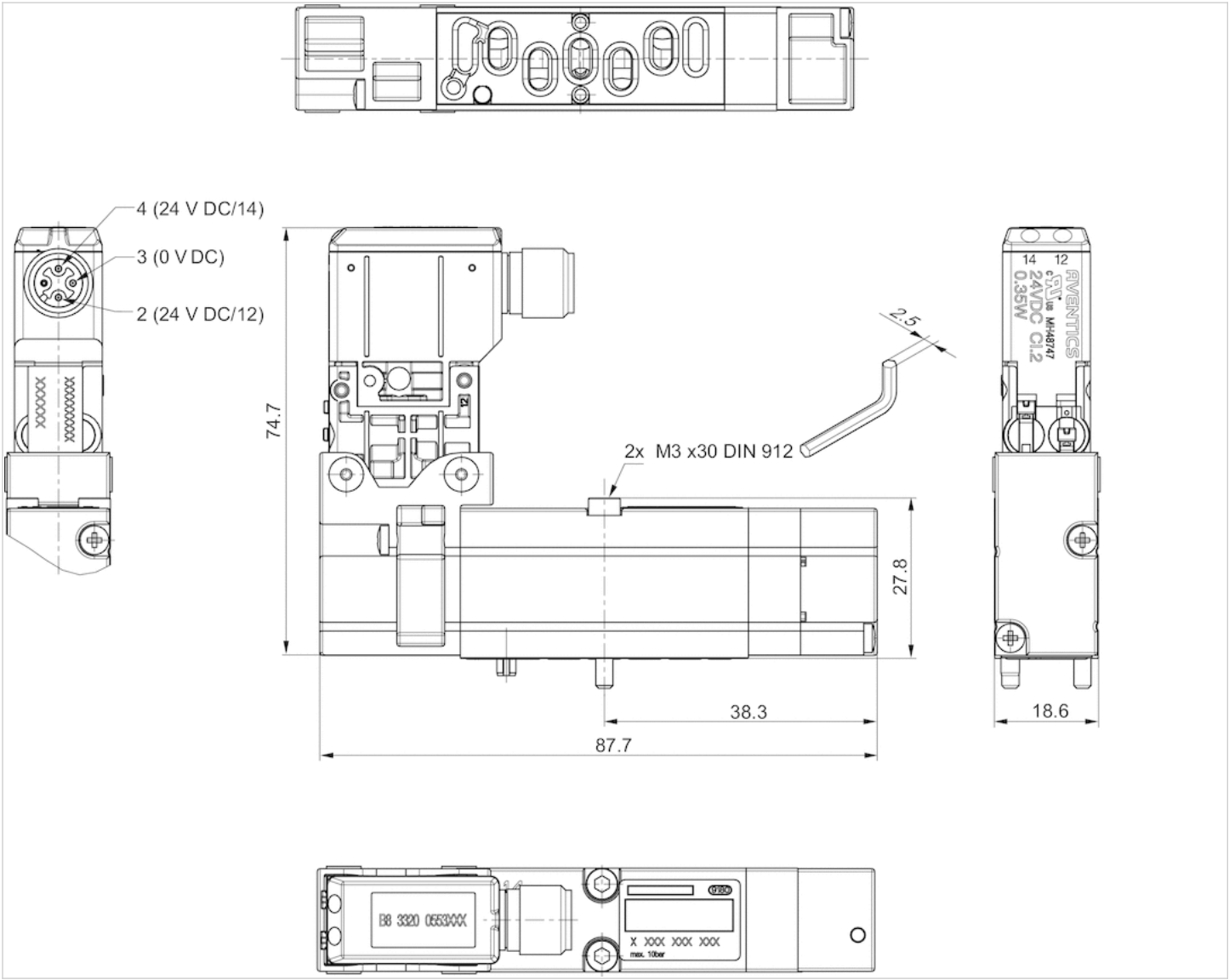
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions

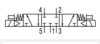
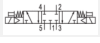
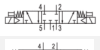
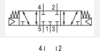
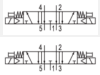
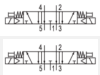
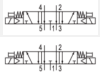
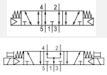
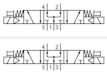
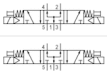
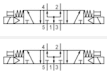
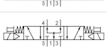
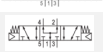


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center exhausted center pressurized center
- Qn = 250-400 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C
- Manual override without detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	2.2 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	See table below
Protection class with connection	IP65
Protection class Without valve plug connector	See table below
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.17 kg

Technical data

Part No.			MO	Operational voltage DC
0820039218		closed center		-
0820039216		closed center		24 V
0820039217		closed center		24 V
0820039219		closed center		-
0820039215		closed center		-
0820039943		closed center	—	-
0820039233		exhausted center		-
0820039231		exhausted center		24 V
0820039232		exhausted center		24 V
0820039234		exhausted center		-
0820039230		exhausted center		-
0820039944		exhausted center	—	-
0820039263		pressurized center		-
0820039261		pressurized center		24 V
0820039262		pressurized center		24 V
0820039264		pressurized center		-
0820039260		pressurized center		-
0820039945		pressurized center	—	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
0820039218	24 V	24 V	-
0820039216	-	-	-10% / +10%
0820039217	-	-	-10% / +10%
0820039219	110 V	110 V	-
0820039215	230 V	230 V	-
0820039943	-	-	-
0820039233	24 V	24 V	-
0820039231	-	-	-10% / +10%
0820039232	-	-	-10% / +10%
0820039234	110 V	110 V	-
0820039230	230 V	230 V	-
0820039944	-	-	-
0820039263	24 V	24 V	-
0820039261	-	-	-10% / +10%
0820039262	-	-	-10% / +10%
0820039264	110 V	110 V	-
0820039260	230 V	230 V	-
0820039945	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039218	-10% / +10%	-10% / +10%	-	1.6 VA

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039216	-	-	2 W	-
0820039217	-	-	1 W	-
0820039219	-10% / +10%	-10% / +10%	-	1.6 VA
0820039215	-10% / +10%	-10% / +10%	-	1.6 VA
0820039943	-	-	-	-
0820039233	-10% / +10%	-10% / +10%	-	1.6 VA
0820039231	-	-	2 W	-
0820039232	-	-	1 W	-
0820039234	-10% / +10%	-10% / +10%	-	1.6 VA
0820039230	-10% / +10%	-10% / +10%	-	1.6 VA
0820039944	-	-	-	-
0820039263	-10% / +10%	-10% / +10%	-	1.6 VA
0820039261	-	-	2 W	-
0820039262	-	-	1 W	-
0820039264	-10% / +10%	-10% / +10%	-	1.6 VA
0820039260	-10% / +10%	-10% / +10%	-	1.6 VA
0820039945	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot	Nominal flow Qn
0820039218	1.4 VA	2.2 VA	2 VA	Internal	400 l/min
0820039216	-	-	-	Internal	400 l/min
0820039217	-	-	-	Internal	400 l/min
0820039219	1.4 VA	2.2 VA	2 VA	Internal	400 l/min
0820039215	1.4 VA	2.2 VA	2 VA	Internal	400 l/min
0820039943	-	-	-	External	400 l/min
0820039233	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039231	-	-	-	Internal	250 l/min
0820039232	-	-	-	Internal	250 l/min
0820039234	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039230	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039944	-	-	-	External	250 l/min
0820039263	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039261	-	-	-	Internal	250 l/min
0820039262	-	-	-	Internal	250 l/min
0820039264	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039260	1.4 VA	2.2 VA	2 VA	Internal	250 l/min
0820039945	-	-	-	External	250 l/min

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820039218	9 ms	20 ms	2 Plug ISO 15217, form C
0820039216	9 ms	20 ms	2 Plug ISO 15217, form C
0820039217	11 ms	23 ms	2 Plug ISO 15217, form C
0820039219	9 ms	20 ms	2 Plug ISO 15217, form C
0820039215	9 ms	20 ms	2 Plug ISO 15217, form C
0820039943	-	-	2 Plug ISO 15217, form C

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve
0820039233	9 ms	20 ms	2 Plug ISO 15217, form C
0820039231	9 ms	20 ms	2 Plug ISO 15217, form C
0820039232	11 ms	23 ms	2 Plug ISO 15217, form C
0820039234	9 ms	20 ms	2 Plug ISO 15217, form C
0820039230	9 ms	20 ms	2 Plug ISO 15217, form C
0820039944	-	-	2 Plug ISO 15217, form C
0820039263	9 ms	20 ms	2 Plug ISO 15217, form C
0820039261	9 ms	20 ms	2 Plug ISO 15217, form C
0820039262	11 ms	23 ms	2 Plug ISO 15217, form C
0820039264	9 ms	20 ms	2 Plug ISO 15217, form C
0820039260	9 ms	20 ms	2 Plug ISO 15217, form C
0820039945	-	-	2 Plug ISO 15217, form C

Part No.	basic valve with electrical connector	
0820039218	-	-
0820039216	-	-
0820039217	-	1)
0820039219	-	-
0820039215	-	-
0820039943	Basic valve without pilot valve	-
0820039233	-	-
0820039231	-	-
0820039232	-	1)
0820039234	-	-
0820039230	-	-
0820039944	Basic valve without pilot valve	-
0820039263	-	-
0820039261	-	-
0820039262	-	1)
0820039264	-	-
0820039260	-	-
0820039945	Basic valve without pilot valve	-

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

1) Low power consumption

Technical information

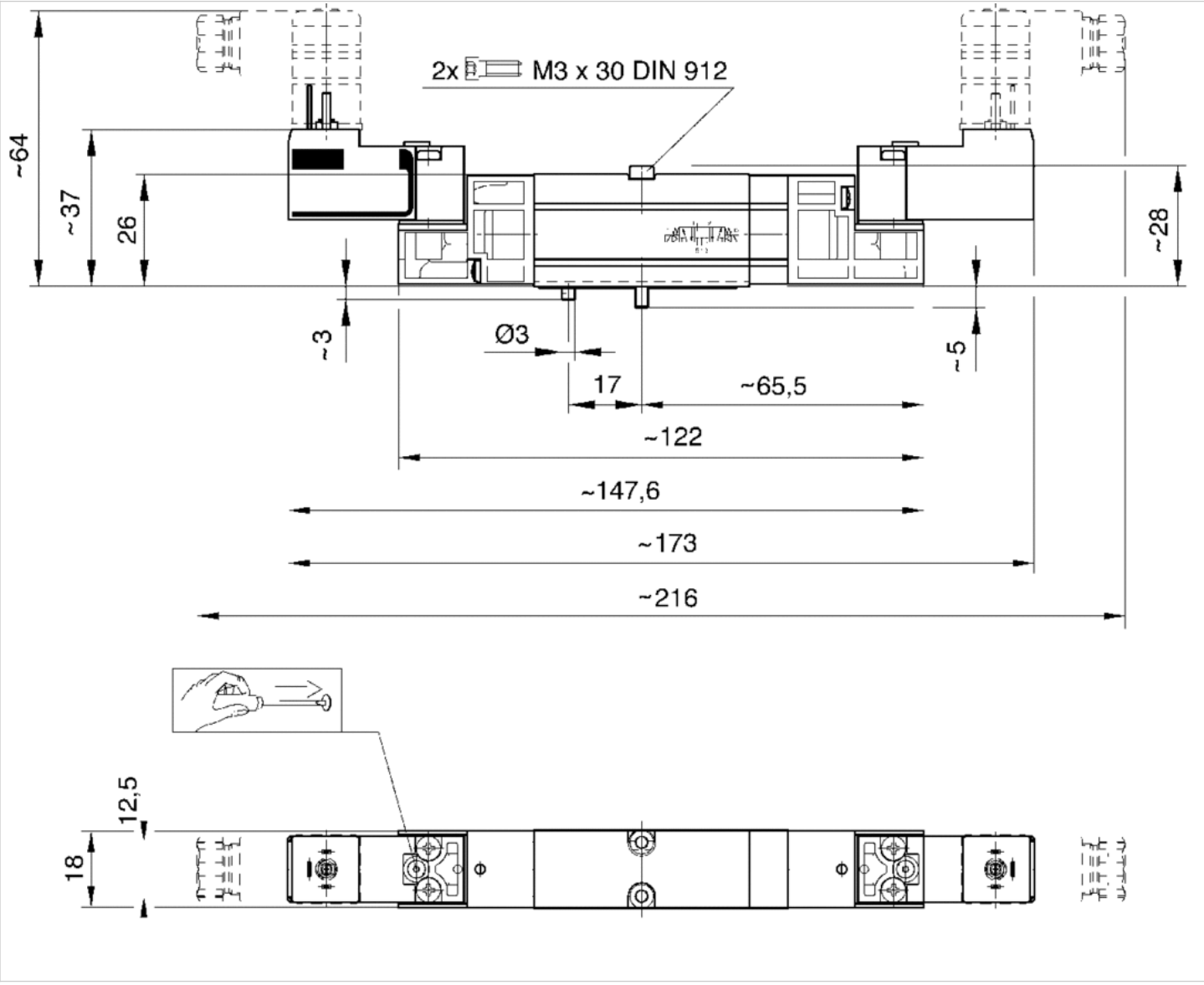
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber Acrylonitrile butadiene rubber
Front plate	Polyamide
Threaded bushing	Aluminum

Dimensions

Dimensions

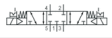
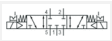
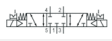
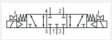
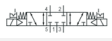
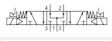
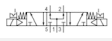
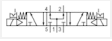
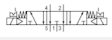
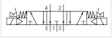
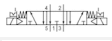
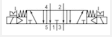
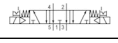


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center pressurized center exhausted center
- Qn = 250-400 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C
- Manual override with detent

Version	Spool valve, positive overlapping
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	2.2 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	See table below
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M3
Weight	0.17 kg

Technical data

Part No.			MO	Operational voltage DC
0820039318		closed center		-
0820039316		closed center		24 V
0820039317		closed center		24 V
0820039319		closed center		-
0820039315		closed center		-
0820039363		pressurized center		-
0820039361		pressurized center		24 V
0820039362		pressurized center		24 V
0820039364		pressurized center		-
0820039360		pressurized center		-
0820039333		exhausted center		-
0820039331		exhausted center		24 V
0820039332		exhausted center		24 V
0820039334		exhausted center		-
0820039330		exhausted center		-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
0820039318	24 V	24 V	-
0820039316	-	-	-10% / +10%
0820039317	-	-	-10% / +10%
0820039319	110 V	110 V	-
0820039315	230 V	230 V	-
0820039363	24 V	24 V	-
0820039361	-	-	-10% / +10%
0820039362	-	-	-10% / +10%
0820039364	110 V	110 V	-
0820039360	230 V	230 V	-
0820039333	24 V	24 V	-
0820039331	-	-	-10% / +10%
0820039332	-	-	-10% / +10%
0820039334	110 V	110 V	-
0820039330	230 V	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039318	-10% / +10%	-10% / +10%	-	1.6 VA
0820039316	-	-	2 W	-
0820039317	-	-	1 W	-
0820039319	-10% / +10%	-10% / +10%	-	1.6 VA
0820039315	-10% / +10%	-10% / +10%	-	1.6 VA
0820039363	-10% / +10%	-10% / +10%	-	1.6 VA
0820039361	-	-	2 W	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
0820039362	-	-	1 W	-
0820039364	-10% / +10%	-10% / +10%	-	1.6 VA
0820039360	-10% / +10%	-10% / +10%	-	1.6 VA
0820039333	-10% / +10%	-10% / +10%	-	1.6 VA
0820039331	-	-	2 W	-
0820039332	-	-	1 W	-
0820039334	-10% / +10%	-10% / +10%	-	1.6 VA
0820039330	-10% / +10%	-10% / +10%	-	1.6 VA

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Nominal flow Qn
0820039318	1.4 VA	2.2 VA	2 VA	400 l/min
0820039316	-	-	-	400 l/min
0820039317	-	-	-	400 l/min
0820039319	1.4 VA	2.2 VA	2 VA	400 l/min
0820039315	1.4 VA	2.2 VA	2 VA	400 l/min
0820039363	1.4 VA	2.2 VA	2 VA	250 l/min
0820039361	-	-	-	250 l/min
0820039362	-	-	-	250 l/min
0820039364	1.4 VA	2.2 VA	2 VA	250 l/min
0820039360	1.4 VA	2.2 VA	2 VA	250 l/min
0820039333	1.4 VA	2.2 VA	2 VA	250 l/min
0820039331	-	-	-	250 l/min
0820039332	-	-	-	250 l/min
0820039334	1.4 VA	2.2 VA	2 VA	250 l/min
0820039330	1.4 VA	2.2 VA	2 VA	250 l/min

Part No.	Typ. switch-on time	Typ. switch-off time	Electrical connection Pilot valve	
0820039318	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039316	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039317	11 ms	23 ms	2 Plug ISO 15217, form C	1)
0820039319	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039315	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039363	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039361	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039362	11 ms	23 ms	2 Plug ISO 15217, form C	1)
0820039364	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039360	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039333	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039331	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039332	11 ms	23 ms	2 Plug ISO 15217, form C	1)
0820039334	9 ms	20 ms	2 Plug ISO 15217, form C	-
0820039330	9 ms	20 ms	2 Plug ISO 15217, form C	-

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

1) Low power consumption

Technical information

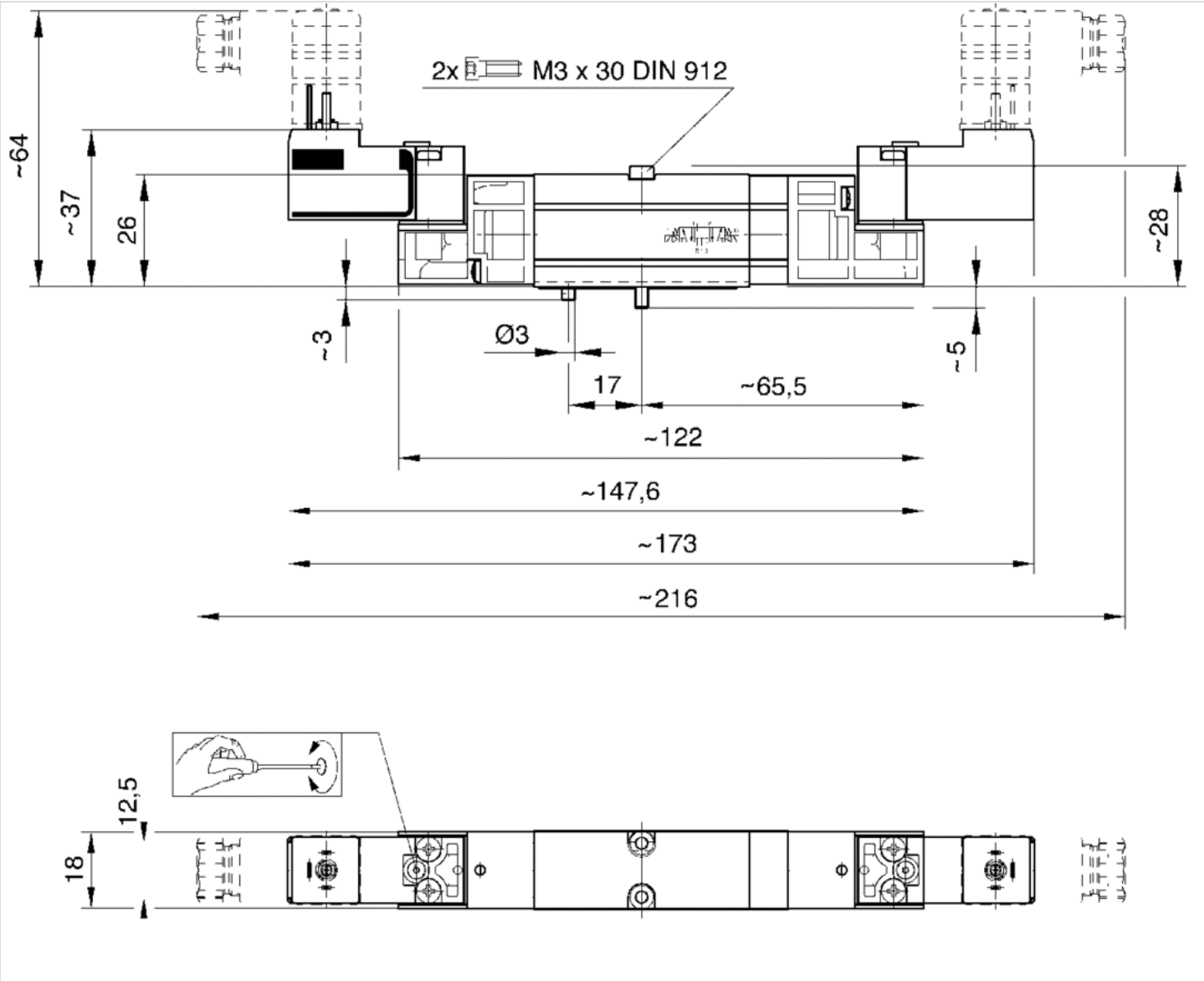
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center pressurized center exhausted center
- Qn = 250-400 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection 2, Plug, ISO 15217, form C

Version	Spool valve, positive overlapping
basic valve with electrical connector	Basic valve without pilot valve
Pilot	Internal
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	ISO 15217
Working pressure min./max.	2.2 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	See table below
Protection class with connection	IP65
Duty cycle	100 %
Mounting screw	M3
Weight	0.11 kg

Technical data

Part No.			Nominal flow Qn	Electrical connection Pilot valve
0820039933		closed center	400 l/min	2 Plug ISO 15217, form C
0820039935		pressurized center	250 l/min	2 Plug ISO 15217, form C
0820039934		exhausted center	250 l/min	2 Plug ISO 15217, form C

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

Technical information

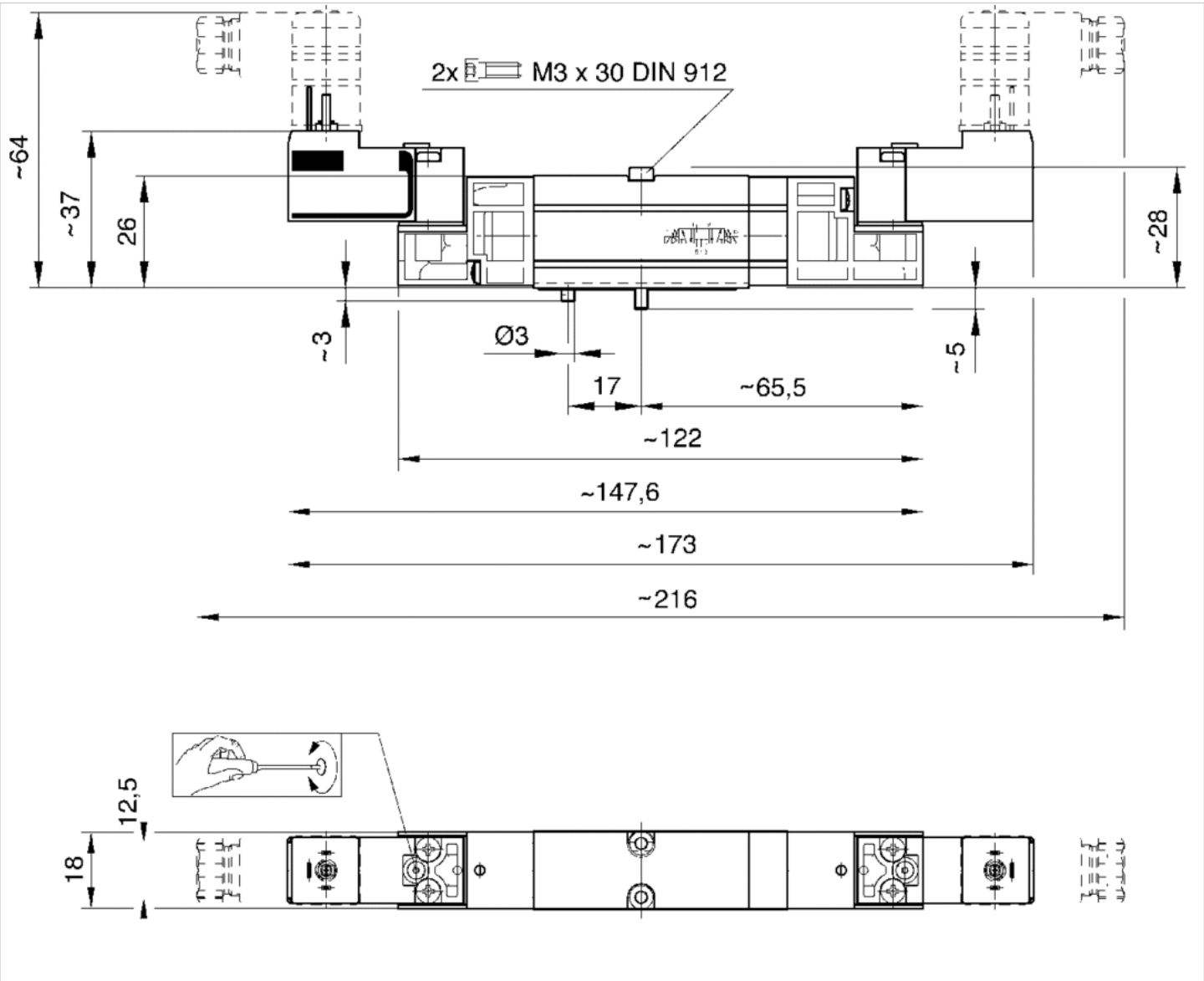
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions

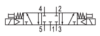
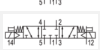


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override without detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.			MO	Operational voltage DC	Voltage tolerance DC
7472D02837		closed center		24 V	-15% / +20%
7472D02839		closed center		24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02837	0.35 W	Internal	2.5 ... 10 bar
7472D02839	0.35 W	External	-0.8 ... 10 bar

Part No.	Electrical connection Pilot valve
7472D02837	Plug M12 3-pin

Part No.	Electrical connection Pilot valve
7472D02839	Plug M12 3-pin

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

MO = Manual override

Technical information

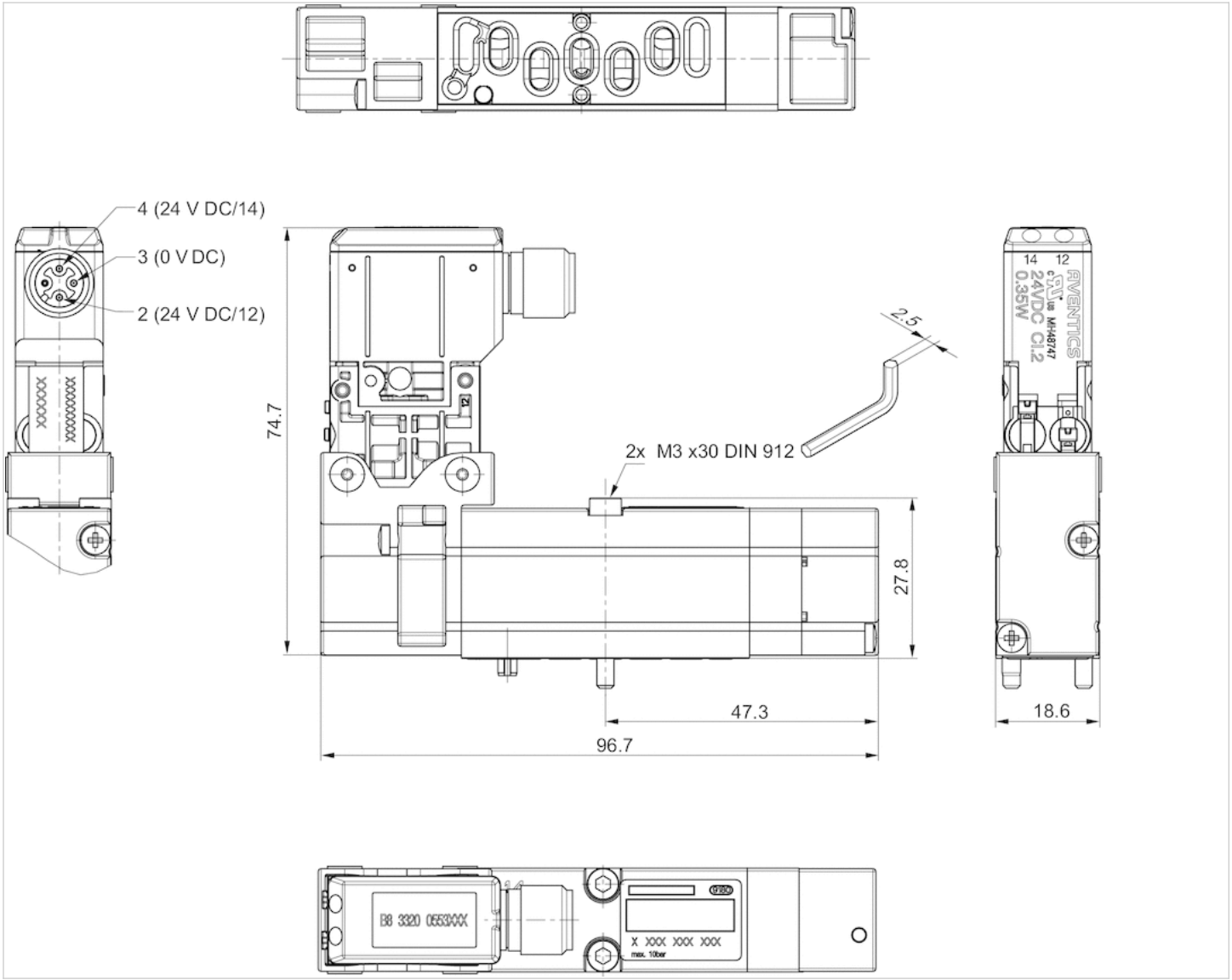
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- closed center
- Qn = 450 l/min
- Compressed air connection output VDMA 02 base plate
- Electrical connection Plug, M12, 3-pin
- Manual override with detent

Version	Spool valve, positive overlapping
Sealing principle	Soft sealing
Blocking principle	Base plate principle, multiple
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Connector standard	EN 61076-2-101
Working pressure min./max.	See table below
Control pressure min./max.	2.5 ... 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/m³
Nominal flow Qn	450 l/min
Protection class with connection	IP65
Protective circuit	TVS diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	14 ms
Mounting screw	M3
Weight	0.12 kg

Technical data

Part No.			MO	Operational voltage DC	Voltage tolerance DC
7472D02838		closed center		24 V	-15% / +20%
7472D02840		closed center		24 V	-15% / +20%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
7472D02838	0.35 W	Internal	2.5 ... 10 bar
7472D02840	0.35 W	External	-0.8 ... 10 bar

Part No.	Electrical connection Pilot valve
7472D02838	Plug M12 3-pin

Part No.	Electrical connection Pilot valve
7472D02840	Plug M12 3-pin

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

Technical information

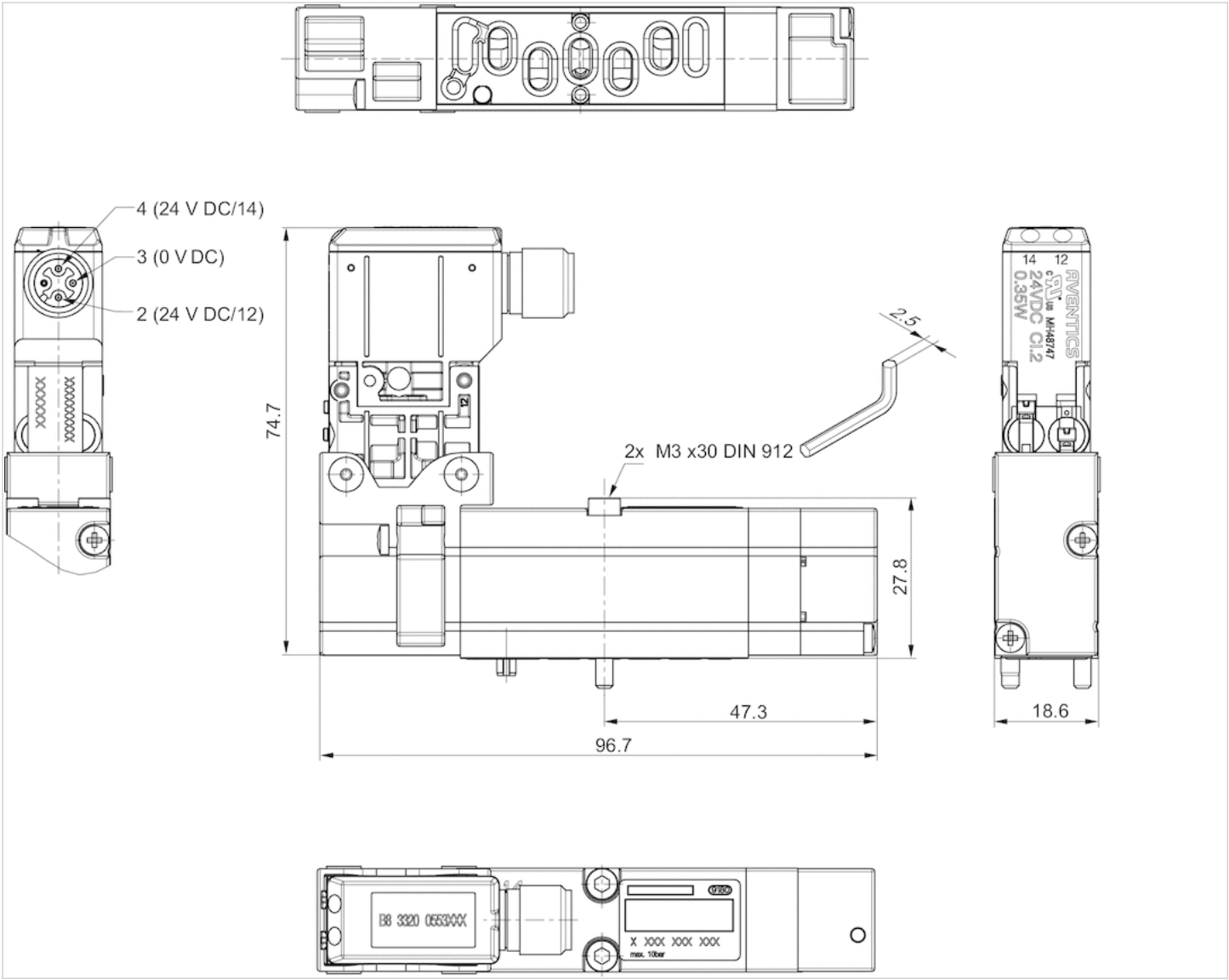
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series CD02-AL

- ISO 15407-1, 18 mm
- Qn = 450 l/min
- Plate connection
- Compressed air connection output VDMA 02 base plate
- Can be assembled into blocks

Version	Spool valve, positive overlapping
Pilot	External
Blocking principle	Base plate principle, multiple
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Nominal flow Qn	450 l/min
Compressed air connection	VDMA 02 base plate
version pneumatic port	VDMA 02 base plate
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air Class 5-4-4 class 6-4-3
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Mounting screw	M3
Weight	0.08 kg

Technical data

Part No.		version pneumatic port	Working pressure min./max.	Control pressure min./max.	
0820238103		VDMA 02 base plate	2 ... 10 bar	10 bar	1)
0820238104		VDMA 02 base plate	-0.9 ... 10 bar	1.5 ... 10 bar	-

1) See diagram

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).

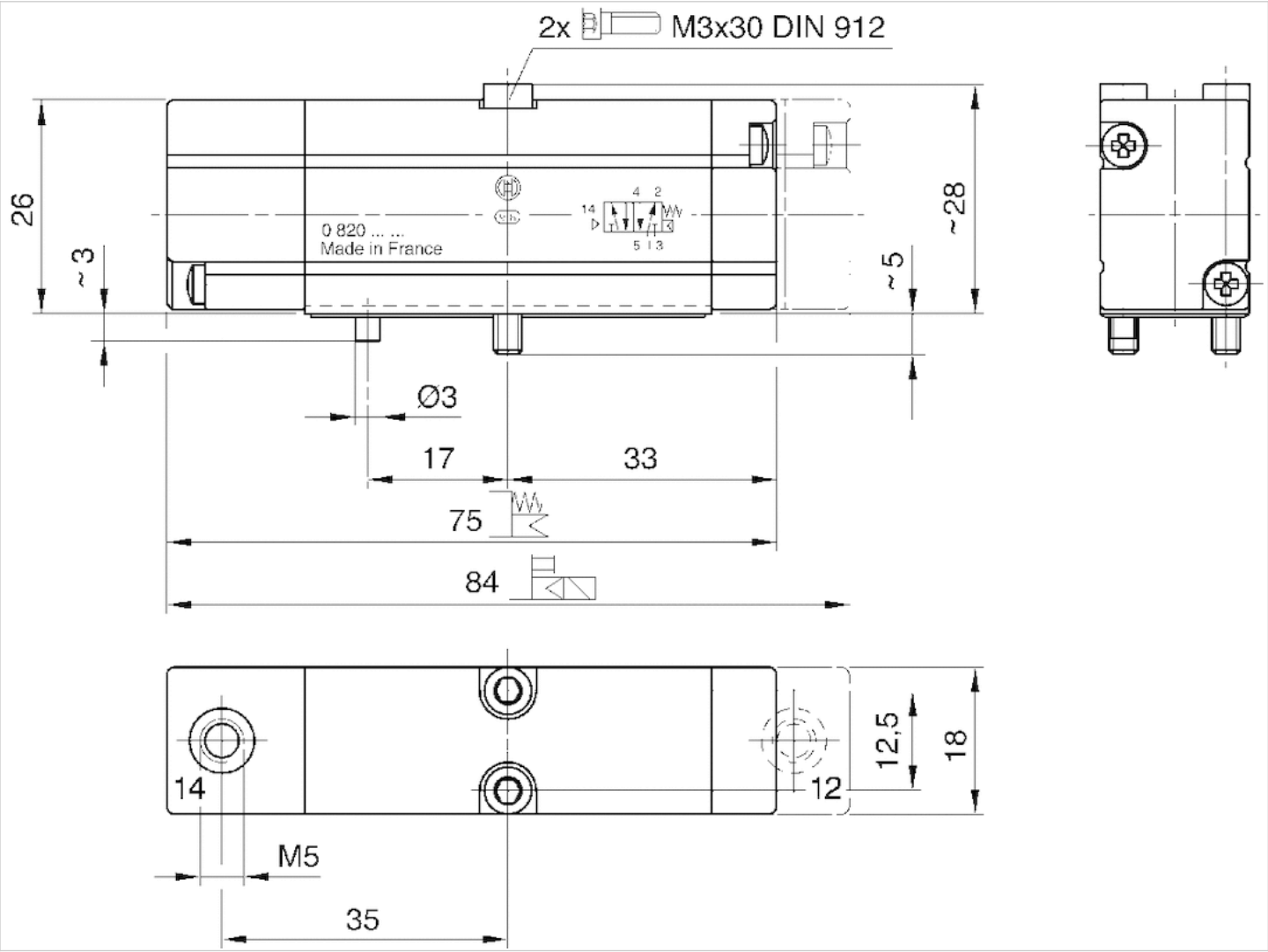
Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber

Front plate	Polyamide

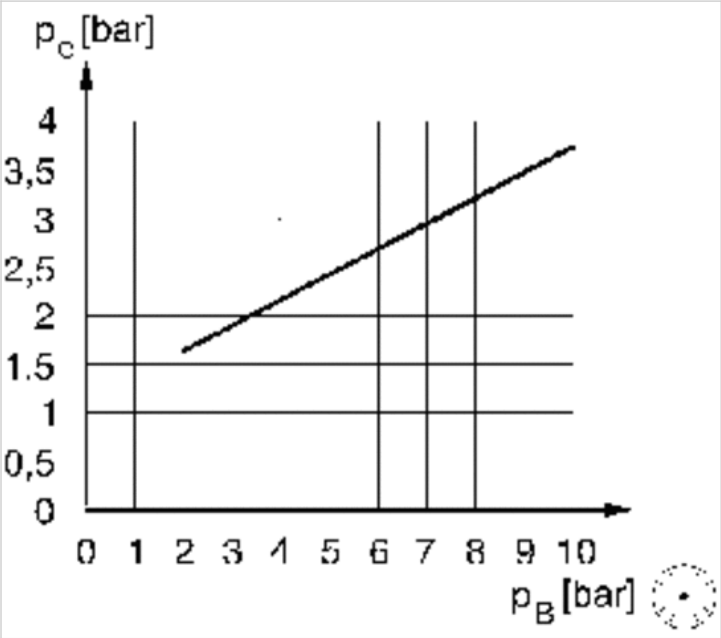
Dimensions

Dimensions



Diagrams

Control pressure for spring/air spring return valves



Pe = external control pressure, min.
PB= Working pressure

5/3-directional valve, Series CD02-AL

- ISO 15407-1, 18 mm
- Qn = 250-400 l/min
- Plate connection
- Compressed air connection output VDMA 02 base plate
- Can be assembled into blocks

Version	Spool valve, positive overlapping
Pilot	External
Blocking principle	Base plate principle, multiple
Sealing principle	Soft sealing
Connection type	Plate connection
Standards	ISO 15407-1, 18 mm
Compressed air connection	VDMA 02 base plate
version pneumatic port	VDMA 02 base plate
Working pressure min./max.	-0.9 ... 10 bar
Control pressure min./max.	2.2 ... 10 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air Class 5-4-4 class 6-4-3
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Mounting screw	M3
Weight	0.11 kg

Technical data

Part No.			version pneumatic port	Flow
				Qn
0820239104		closed center	VDMA 02 base plate	400 l/min
0820239105		exhausted center	VDMA 02 base plate	250 l/min
0820239106		pressurized center	VDMA 02 base plate	250 l/min

Technical information

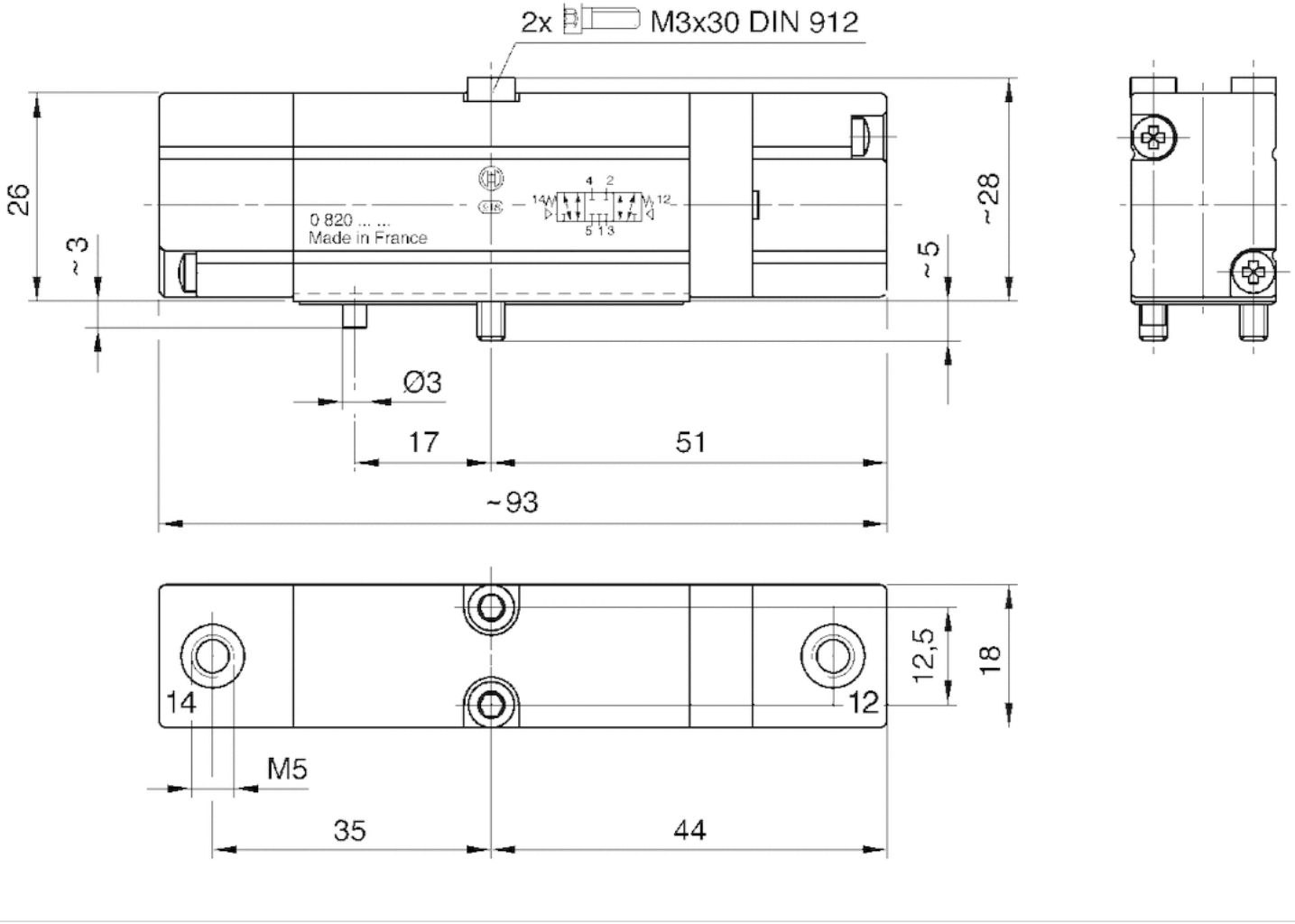
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum, anodized
Seals	Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



Single subbase, thread connections on the side

- standard ISO 15407-1
- Frame size 18 mm
- Compressed air connection output G 1/8

Standards	ISO 15407-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 70 °C
Medium	Compressed air
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)
Weight	0.135 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Output [2 / 4]
1825503890	G 1/8	G 1/8

Part No.	Compressed air connection Exhaust [3 / 5]	Compressed air connection Pilot connection [X]
1825503890	G 1/8	M5

Part No.	Compressed air connection Pilot control exhaust [R]
1825503890	M5

Technical information

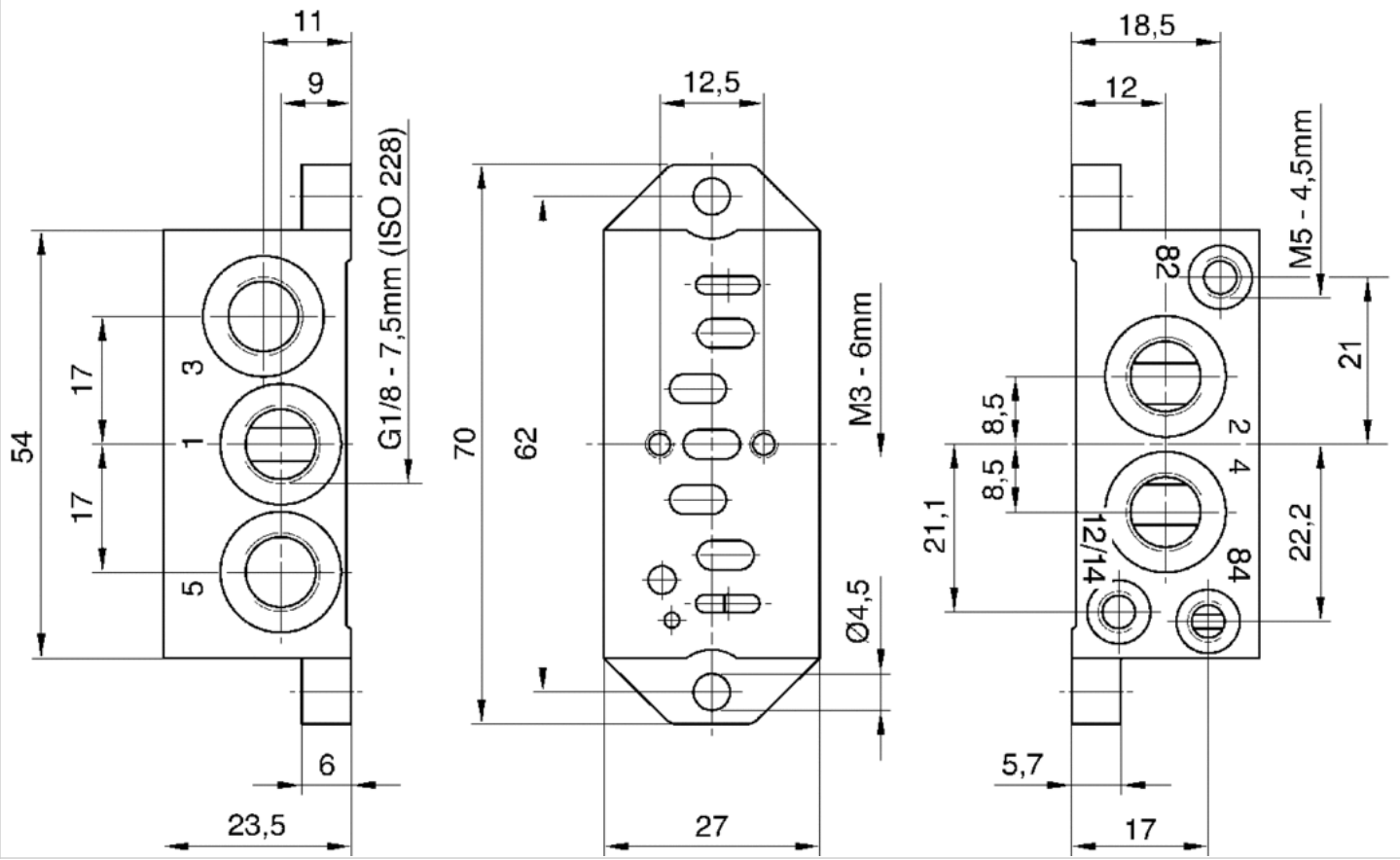
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Dimensions

Dimensions



Ports 82 and 84: pilot exhaust air
Connection 12 and 14: external pilot

End plate left, End plate right

- standard ISO 15407-1
- Frame size 18 mm
- Can be assembled into blocks

Standards	ISO 15407-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 70 °C
Medium	Compressed air
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
Mounting screw	with hexagon socket
Weight	0.335 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]
1825503892	G 1/4	G 1/4

Part No.	Compressed air connection Pilot connection [X]	Compressed air connection Pilot control exhaust [R]
1825503892	M5	G 1/8

Delivery incl. seal and tie rod mounting screw, Order "tie rod" coupling kit separately

Technical information

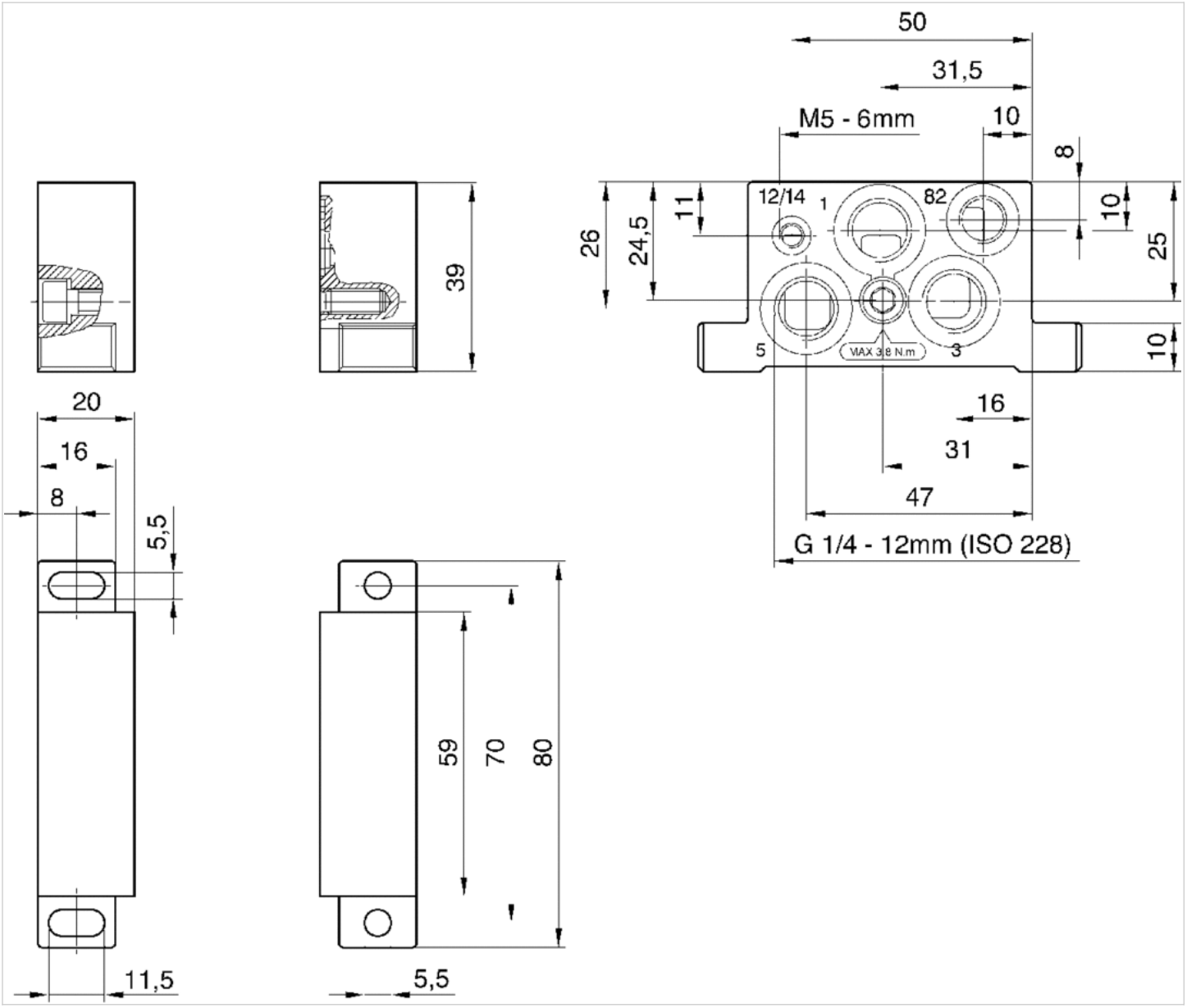
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Dimensions

Dimensions



Base plate

- standard ISO 15407-1
- Frame size 18 mm
- Compressed air connection output G 1/8
- Can be assembled into blocks

Standards	ISO 15407-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Direction of pneumatic port (2,4)	On the side
Weight	0.15 kg

Technical data

Part No.	Compressed air connection Output [2 / 4]
1825503891	G 1/8

Intermediate plate with gasket

Technical information

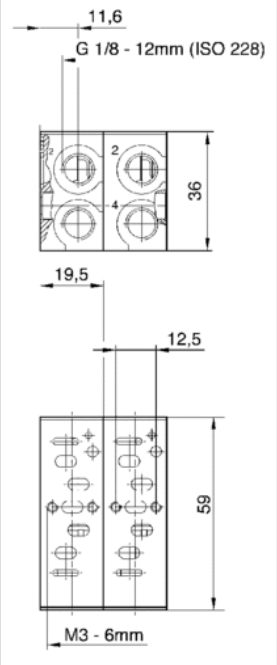
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Material	
Base plate	Die cast zinc
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Blanking plate

- standard ISO 15407-1
- Frame size 18 mm

Standards	ISO 15407-1
Working pressure min./max.	-0.9 ... 10 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Mounting screw	with hexagon socket
Weight	0.019 kg

Technical data

Part No.
1825503933

Scope of delivery incl. seal and mounting screws

Technical information

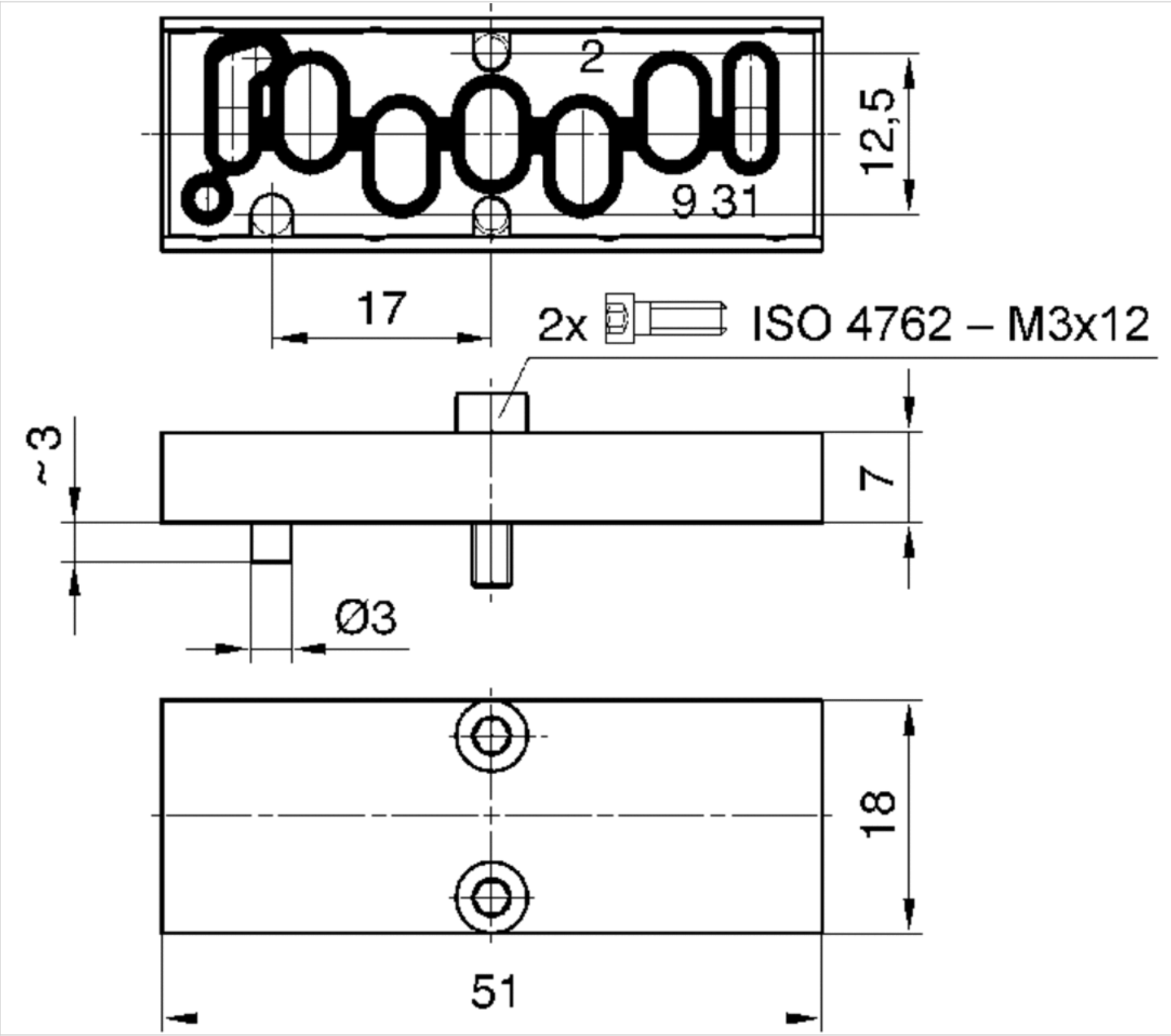
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Supply module

- standard ISO 15407-1
- Frame size 18 mm
- Single base plate principle

Standards	ISO 15407-1
Working pressure min./max.	-0.9 ... 10 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Number of valve positions max.	1
Grid dimension	19 mm
Direction of pneumatic port (1)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Mounting screw	with hexagon socket
Weight	0.02 kg

Technical data

Part No.	Compressed air connection Input [1]
1827009938	G 1/8

Scope of delivery incl. seal and mounting screws

Technical information

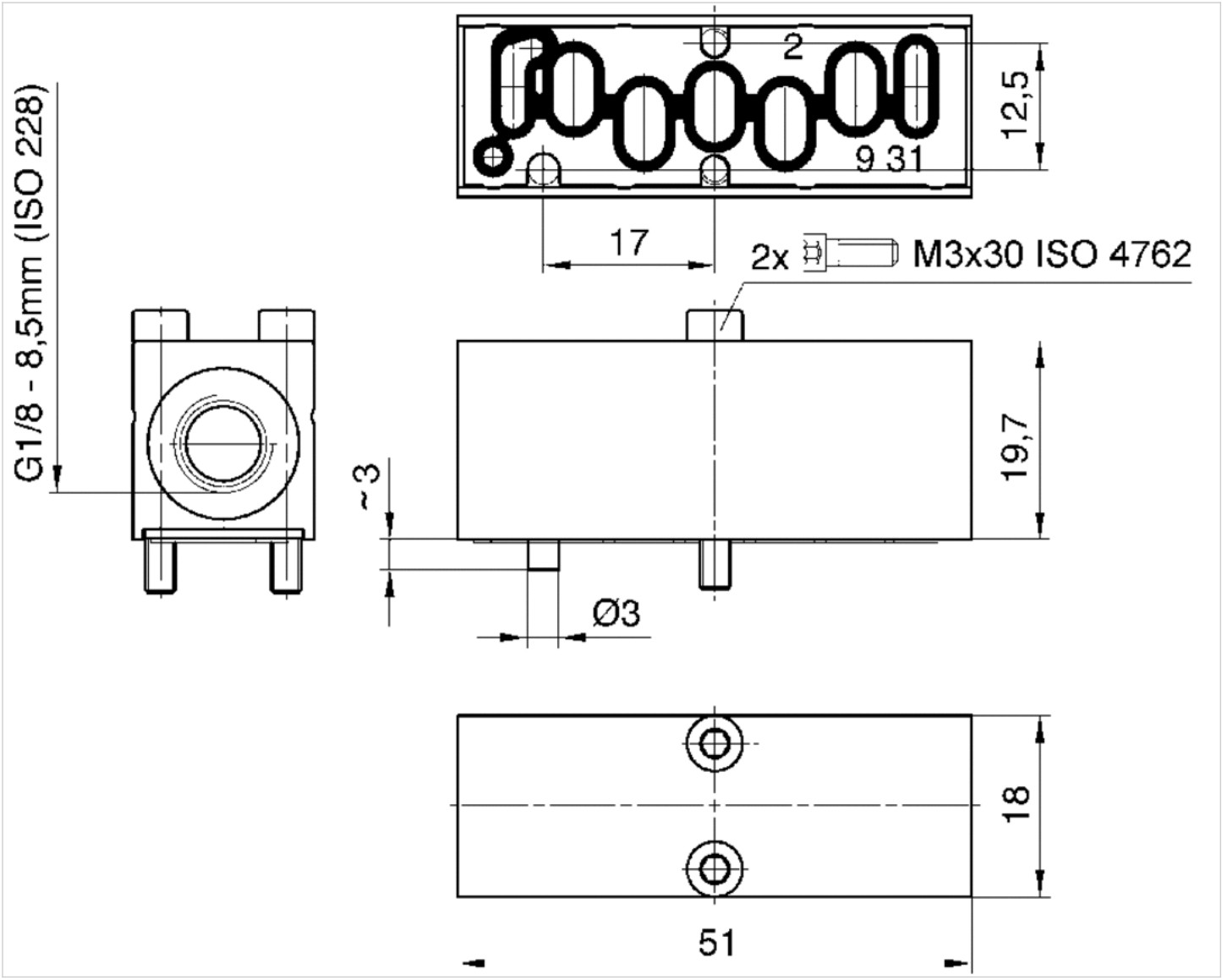
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Base plate	Aluminum

Dimensions

Dimensions



Transition plate, 26 mm / 18 mm

- type A
- standard ISO 15407-1
- Frame size 18 mm, 26 mm
- Can be assembled into blocks
- Reversed pressure supply permissible

Standards	ISO 15407-1
Working pressure min./max.	-0.95 ... 16 bar
Ambient temperature min./max.	-15 ... 70 °C
Medium temperature min./max.	-15 ... 70 °C
Medium	Compressed air
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
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Mounting screw	with hexagon socket
Weight	0.311 kg

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Pilot connection [X]
1825504036	G 1/4	M5

Part No.	Compressed air connection Pilot control exhaust [R]
1825504036	M5

Scope of delivery incl. seal and mounting screws

Technical information

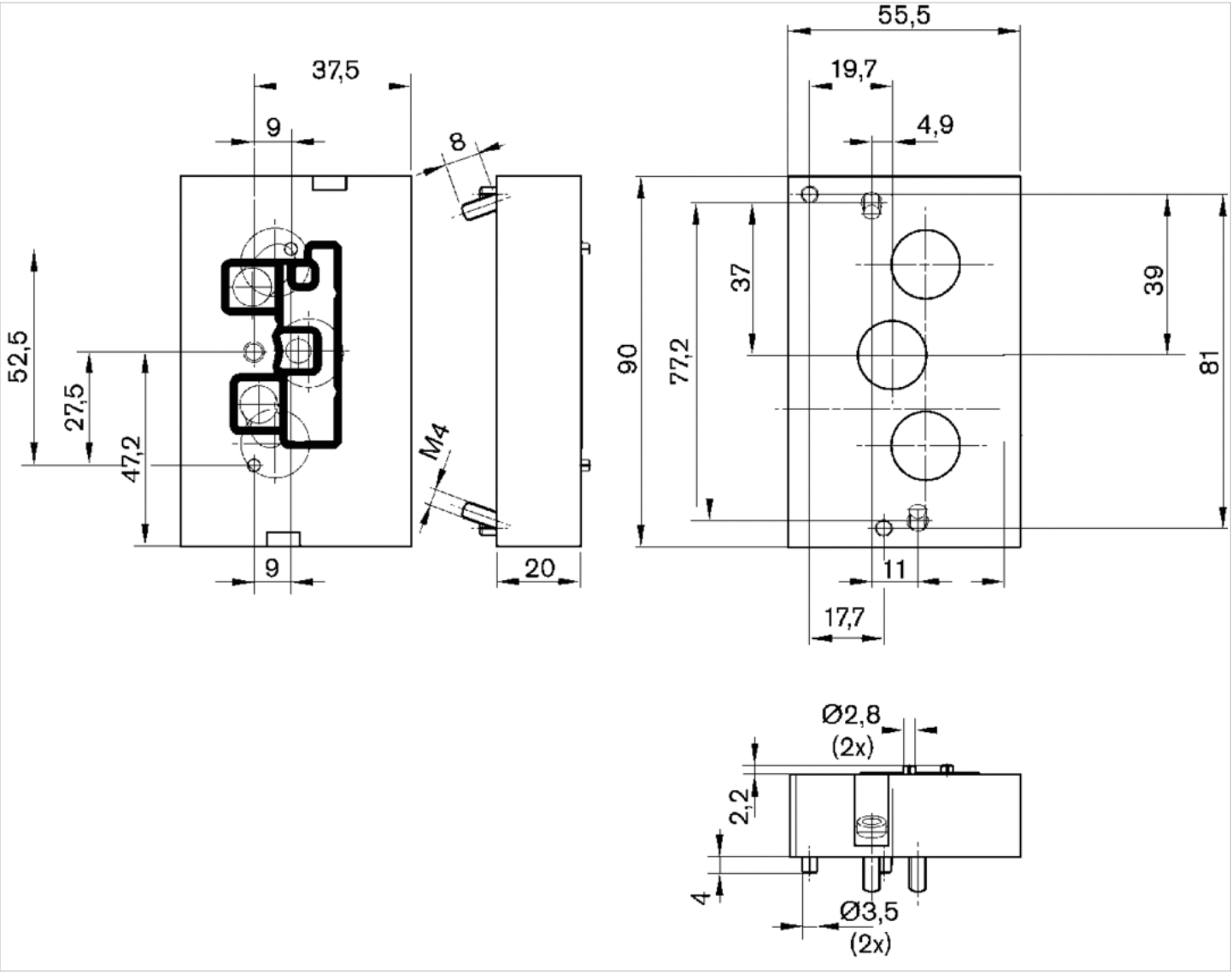
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



3/2-directional valve, Series DO16

- 3/2
- Plate connection
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent with detent
- With spring return

Version	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow 1 ▸ 2	See table below
Nominal flow 2 ▸ 3	See table below
Protection class acc. to DIN EN 61140 Electrically	Class I
Protection class with connection	IP65
Duty cycle	100 %
Mounting on manifold strip	PRS strip
mounting screws	M3
Weight	0.035 kg

Technical data

Part No.		MO	Operational voltage	Operational voltage
			DC	AC 50 Hz
0820048002			24 V	-
0820048004			-	24 V
0820048005			-	-
0820048001			-	230 V
0820048026			24 V	-
0820048028			-	24 V
0820048101			-	230 V
0820048029			-	-
0820048025			-	230 V
0820048102			24 V	-
0820048126			24 V	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820048002	-	-10% / +15%	-	-
0820048004	-	-	-10% / +15%	-
0820048005	110 V	-	-	-10% / +15%
0820048001	-	-	-10% / +15%	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820048026	-	-10% / +15%	-	-
0820048028	-	-	-10% / +15%	-
0820048101	-	-	-10% / +15%	-
0820048029	110 V	-	-	-10% / +15%
0820048025	-	-	-10% / +15%	-
0820048102	-	-10% / +15%	-	-
0820048126	-	-10% / +15%	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820048002	2 W	-	-	-
0820048004	-	1.6 VA	-	2.2 VA
0820048005	-	-	1.4 VA	-
0820048001	-	1.6 VA	-	2.2 VA
0820048026	2 W	-	-	-
0820048028	-	1.6 VA	-	2.2 VA
0820048101	-	1.6 VA	-	2.2 VA
0820048029	-	-	1.4 VA	-
0820048025	-	1.6 VA	-	2.2 VA
0820048102	2 W	-	-	-
0820048126	2 W	-	-	-

Part No.	Switch-on power	Nominal flow 1 ▸ 2	Nominal flow 2 ▸ 3	Working pressure min./max.
	AC 60 Hz			
0820048002	-	25 l/min	36 l/min	0 ... 10 bar
0820048004	-	25 l/min	36 l/min	0 ... 10 bar
0820048005	2 VA	25 l/min	36 l/min	0 ... 10 bar
0820048001	-	25 l/min	36 l/min	0 ... 10 bar
0820048026	-	25 l/min	36 l/min	0 ... 10 bar
0820048028	-	25 l/min	36 l/min	0 ... 10 bar
0820048101	-	16 l/min	19 l/min	0 ... 6 bar
0820048029	2 VA	25 l/min	36 l/min	0 ... 10 bar
0820048025	-	25 l/min	36 l/min	0 ... 10 bar
0820048102	-	20 l/min	26 l/min	0 ... 8 bar
0820048126	-	20 l/min	26 l/min	0 ... 8 bar

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

Technical information

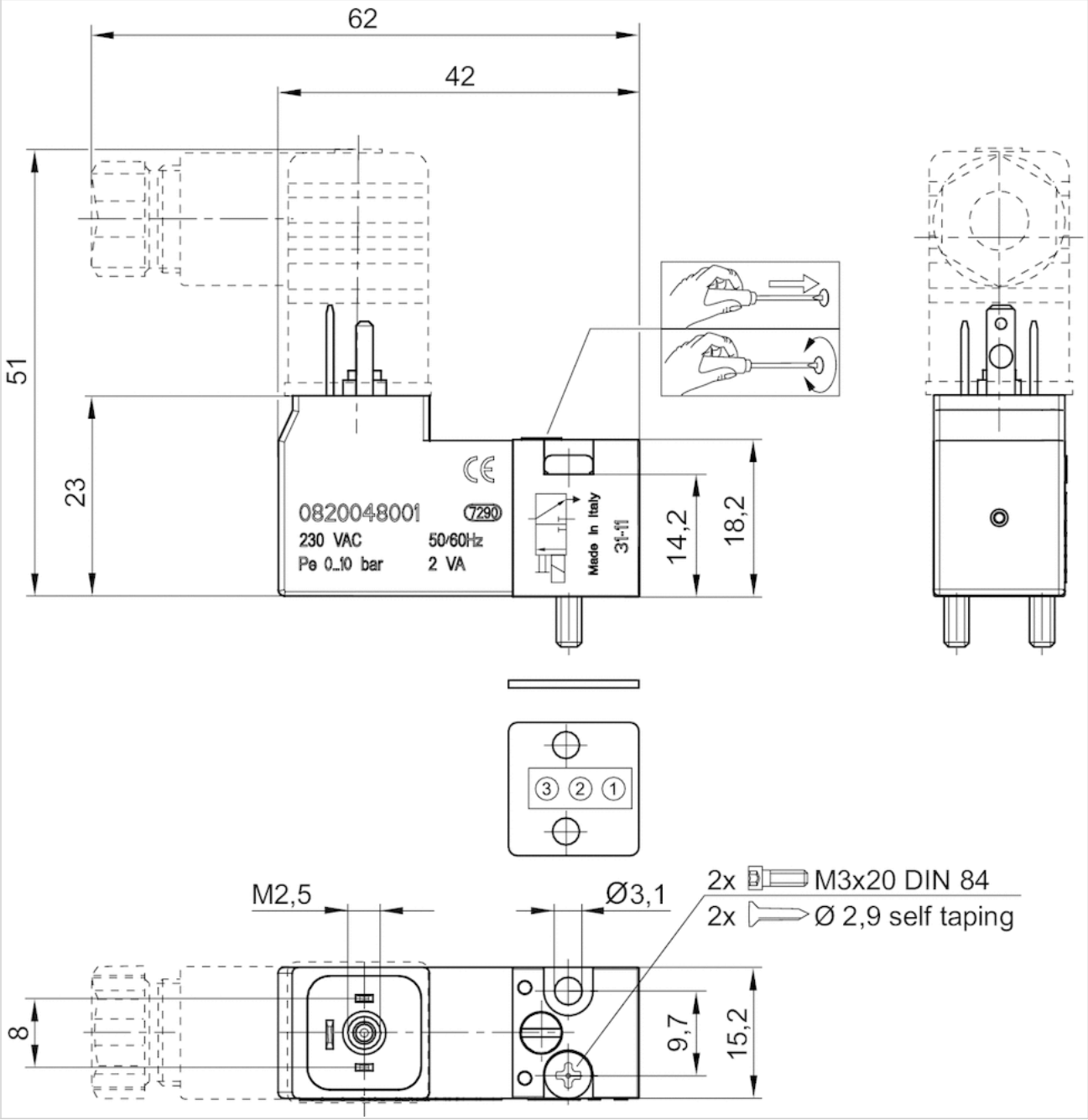
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Material	
Housing	polyphenylene sulfide Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions

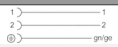


Valve plug connector, series CON-VP

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

Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Operational voltage	See table below
Protection class	IP65
Mounting screw tightening torque	0.4 Nm
Weight	See table below

Technical data

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

Part No.	LED status display	suitable cable-Ø min./max	Seal	Weight
1834484187	-	4 / 8 mm	caoutchouc/butadiene caoutchouc	0.012 kg
8941012202	-	4 / 8 mm	-	0.012 kg
4402050330	Green	-	-	0.014 kg

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

1)

Technical information

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

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

Dimensions

Fig. 1

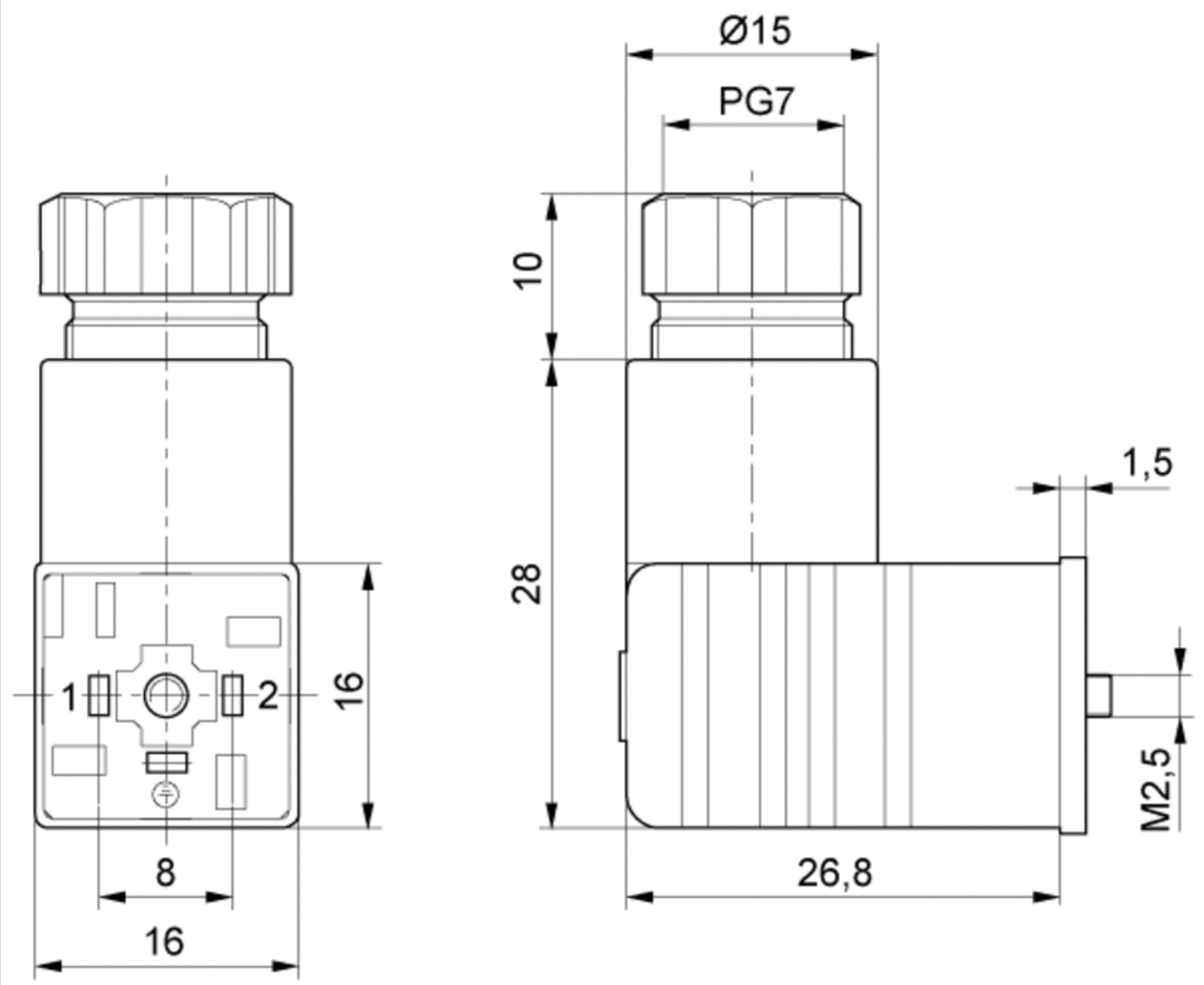


Fig. 2

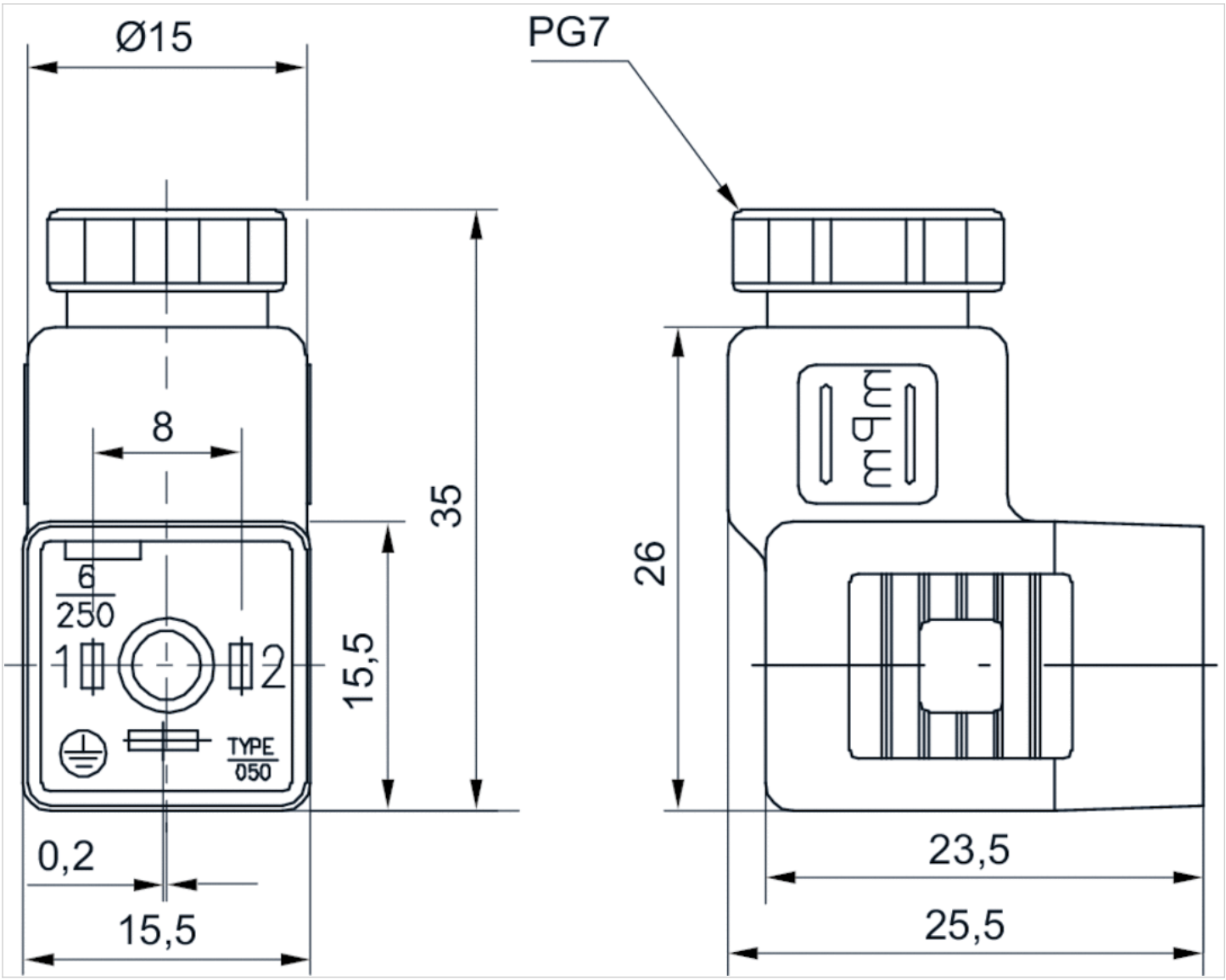
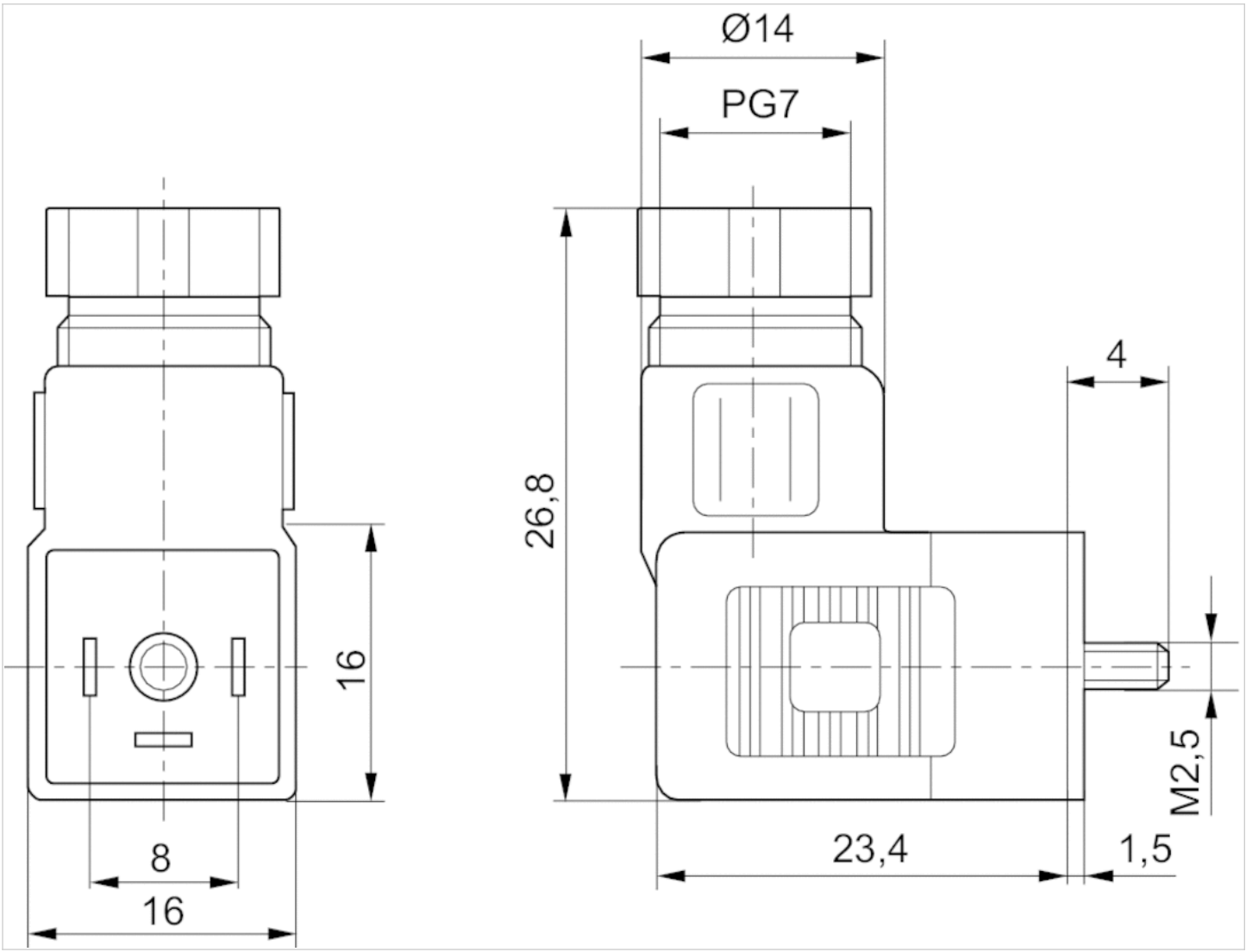


Fig. 3



Valve plug connector, series CON-VP

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

Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	See table below
Protection class	IP67
Wire cross-section	0.75 mm²
Mounting screw tightening torque	0.4 Nm
Weight	See table below

Technical data

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

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484204	Yellow	3	5.9 mm	3 m	0.185 kg	Fig. 1	1)
1834484205	Yellow	3	5.9 mm	3 m	0.185 kg	Fig. 2	1)
1834484206	Yellow	3	5.9 mm	5 m	0.292 kg	Fig. 1	1)
1834484207	Yellow	3	5.9 mm	5 m	0.298 kg	Fig. 2	1)
1834484236	Yellow	3	5.9 mm	10 m	0.571 kg	Fig. 2	1)
1834484208	Yellow	3	5.9 mm	3 m	0.171 kg	Fig. 1	1)
1834484209	Yellow	3	5.9 mm	3 m	0.194 kg	Fig. 2	1)
1834484210	Yellow	3	5.9 mm	5 m	0.297 kg	Fig. 1	1)
1834484211	Yellow	3	5.9 mm	5 m	0.285 kg	Fig. 2	1)
1834484212	-	3	5.9 mm	3 m	0.183 kg	Fig. 1	-
1834484213	-	3	5.9 mm	3 m	0.183 kg	Fig. 2	-

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484214	-	3	5.9 mm	5 m	0.308 kg	Fig. 1	-
1834484215	-	3	5.9 mm	5 m	0.308 kg	Fig. 2	-

1) Scope of delivery incl. flat gasket

Technical information

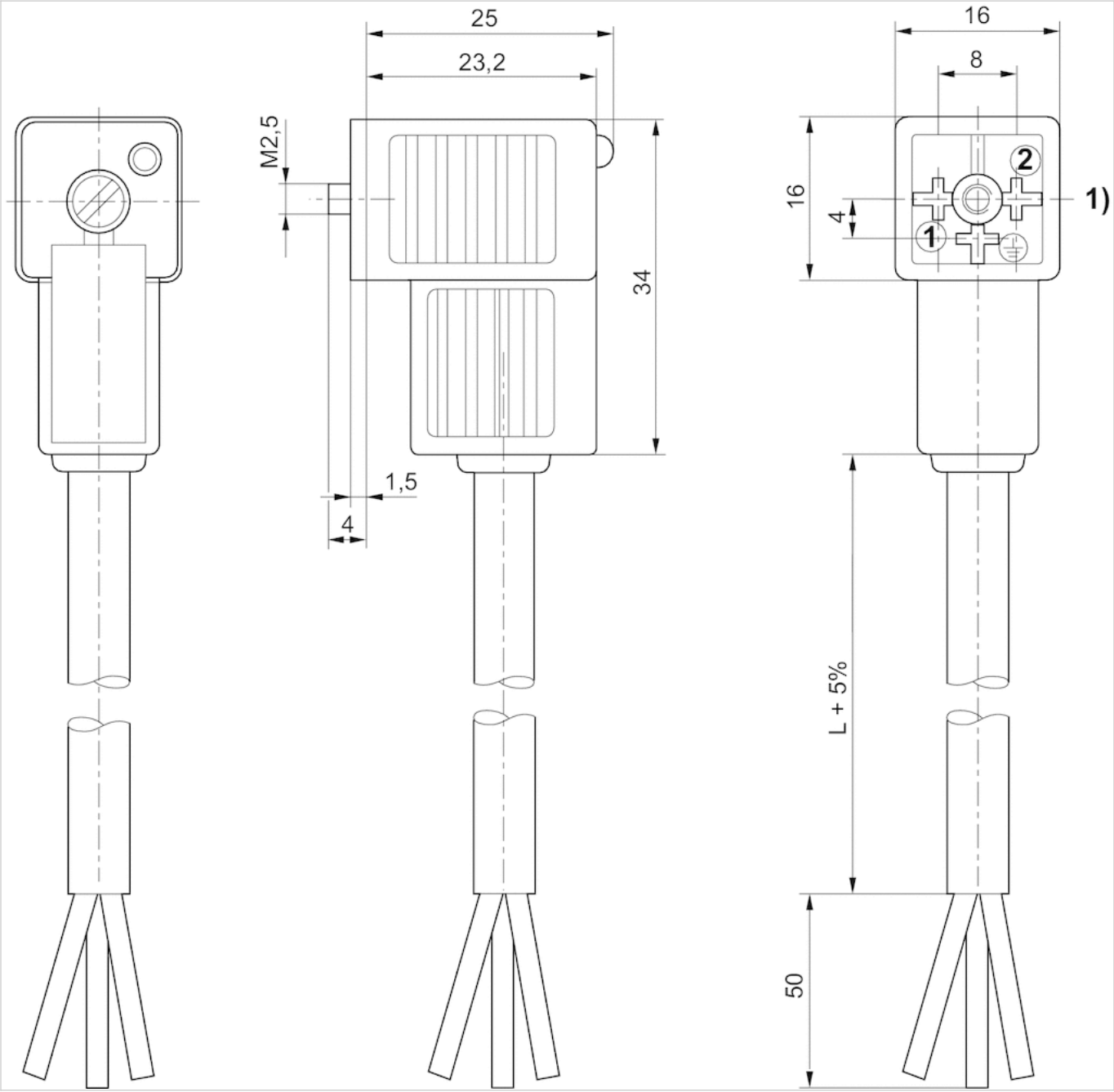
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

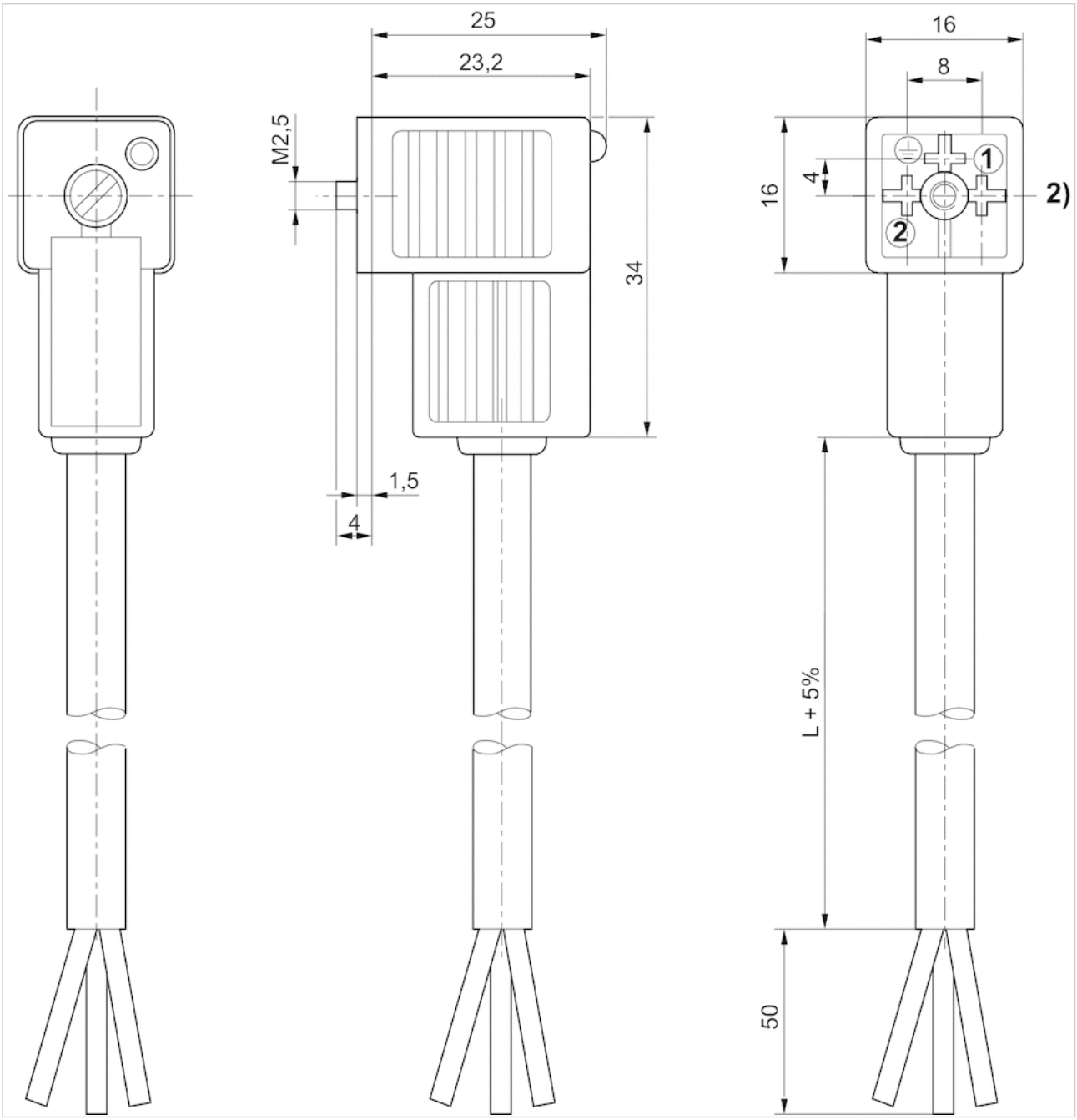
Dimensions

Fig. 1



1) 0° female insert

Fig. 2

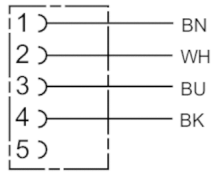


2) 180° female insert

Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded straight 180°
- open cable ends
- with cable
- unshielded

Ambient temperature min./max.	-25 ... 70 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Wire cross-section	0.34 mm²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
1834484256	4 A	4	5.2 mm	3 m	0.122 kg
1834484257	4 A	4	5.2 mm	5 m	0.194 kg
1834484258	4 A	4	5.2 mm	10 m	0.373 kg

Technical information

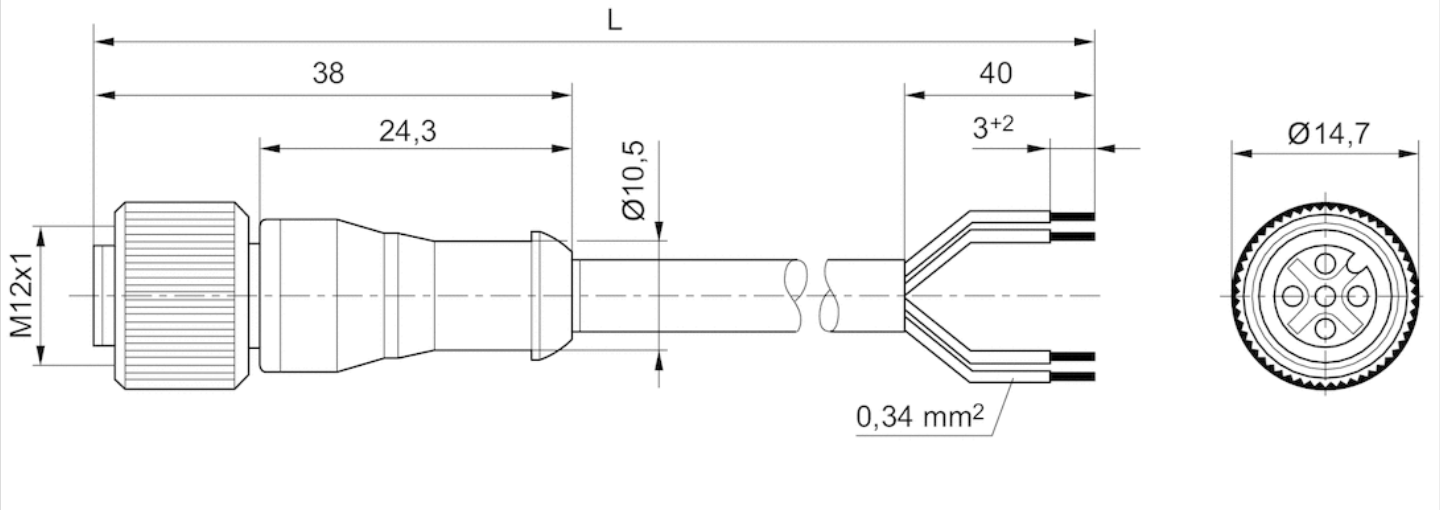
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

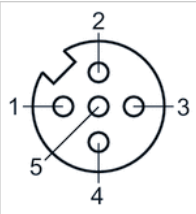
Dimensions



L = length

Pin assignments

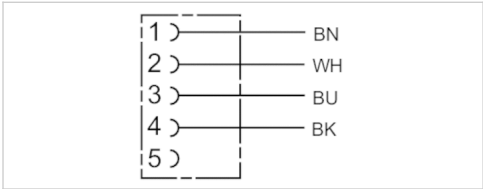
Pin assignment, socket



(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) not assigned

Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- for DeviceNet
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP65
Wire cross-section	0.34 mm²
Weight	See table below

Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
1834484259	4 A	4	5.2 mm	3 m	0.126 kg
1834484260	4 A	4	5.2 mm	5 m	0.195 kg
1834484261	4 A	4	5.2 mm	10 m	0.38 kg

Technical information

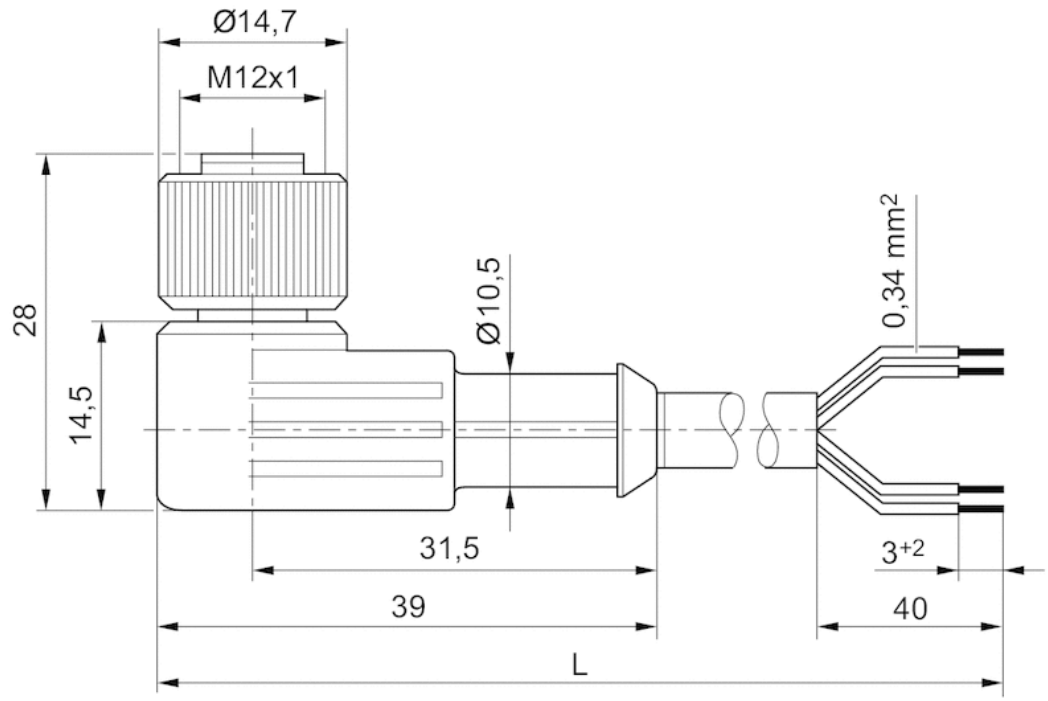
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

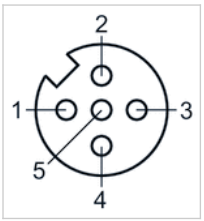
Dimensions



L = length

Pin assignments

Pin assignment, socket



(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) not assigned

Gasket, Series CD02-AL

1821015812

Technical data

Industry
Industrial

Type
Manifold strip

Type
Intermediate plate/blanking plate molded seal

Delivery unit
10 piece

Frame size
18 mm

Standards
ISO 15407-1

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Weight
0.005 kg

Material

Part No.
1821015812

Technical information

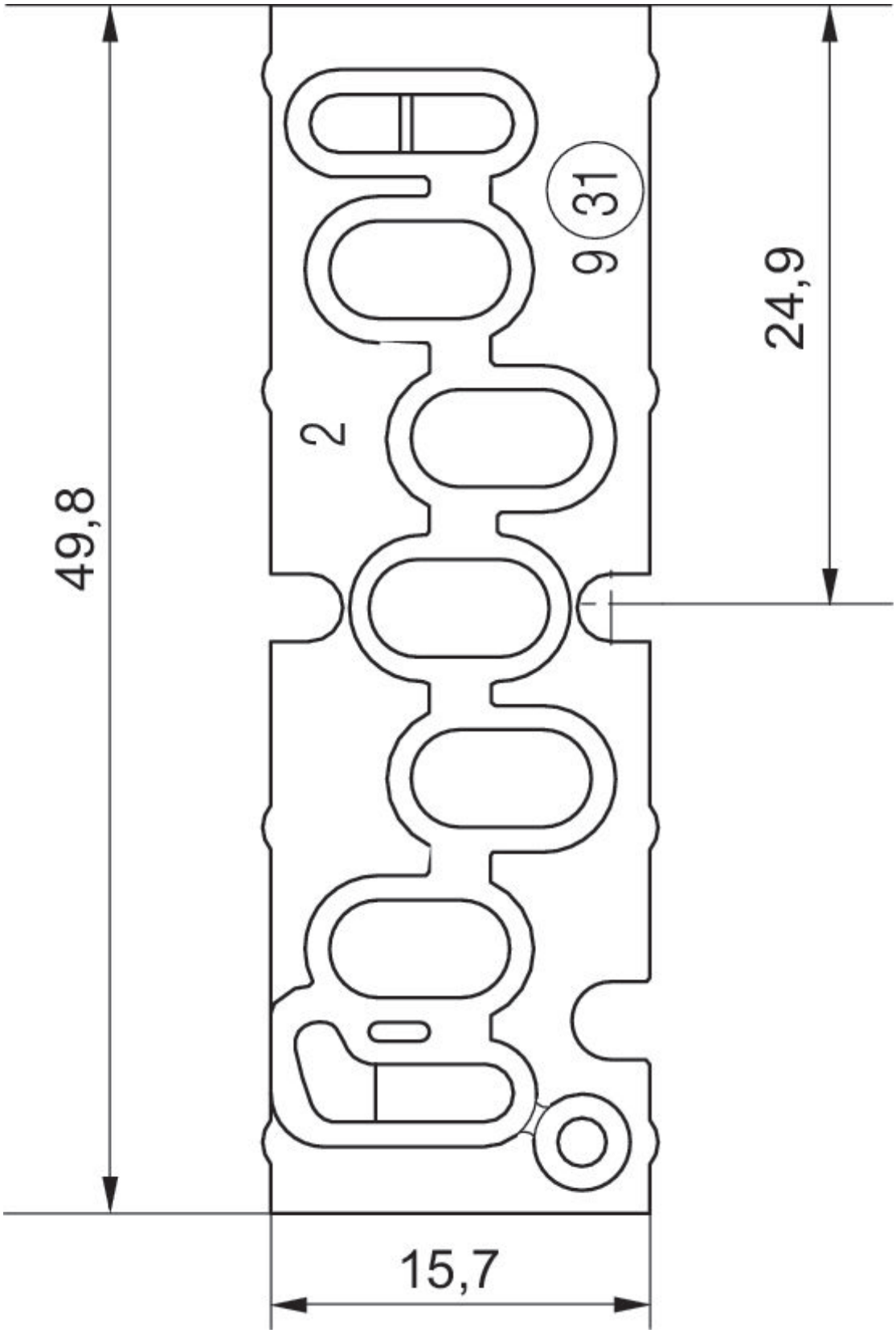
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 https://www.emerson.com/en-us/support).

Dimensions



Gasket, Series CD02-AL

1821015829

Technical data

Industry
Industrial

Type
Assembly kit

Type
Intermediate plate valve molded seal

Delivery unit
10 piece

Frame size
18 mm

Standards
ISO 15407-1

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Weight
0.005 kg

Material

Part No.
1821015829

Technical information

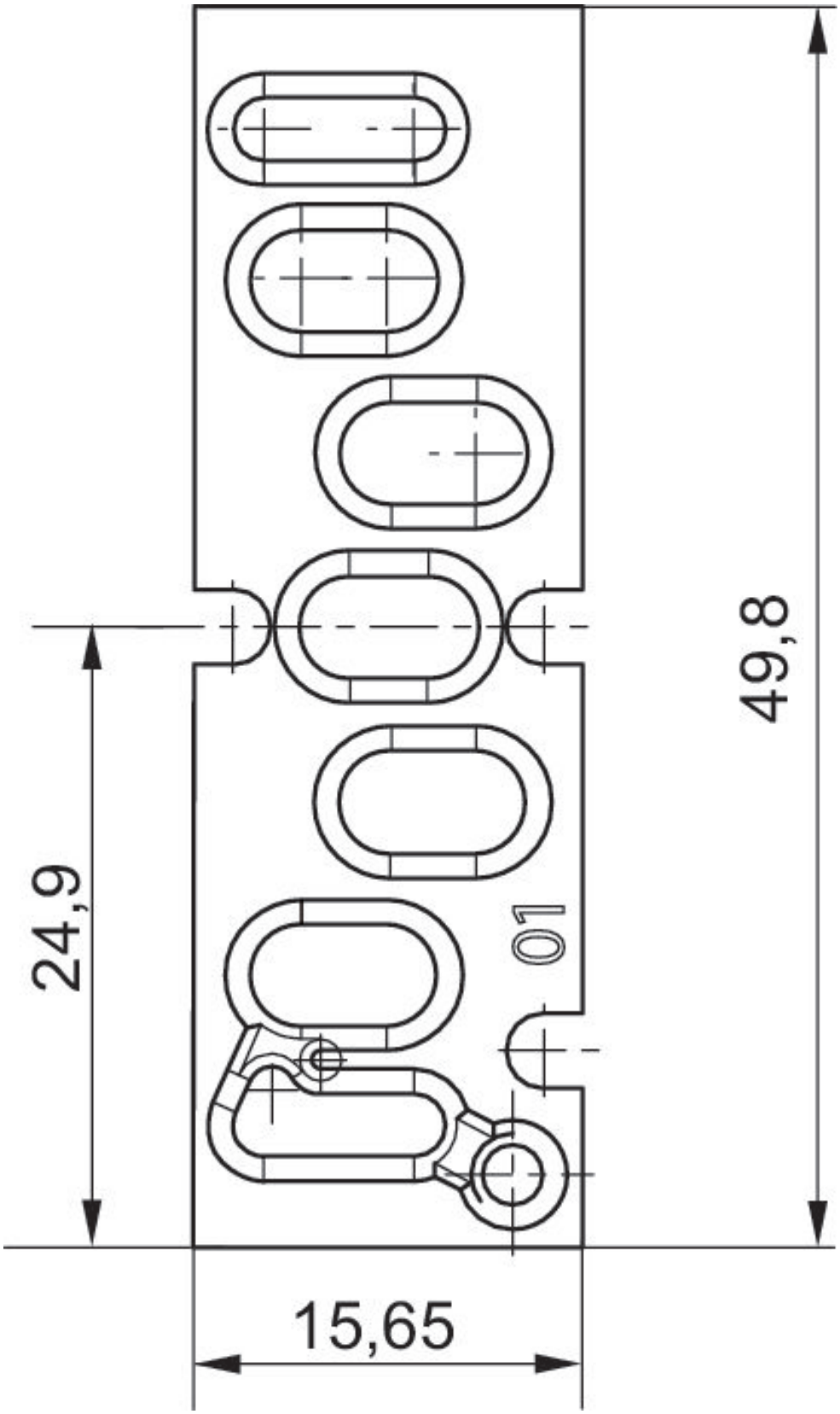
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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.

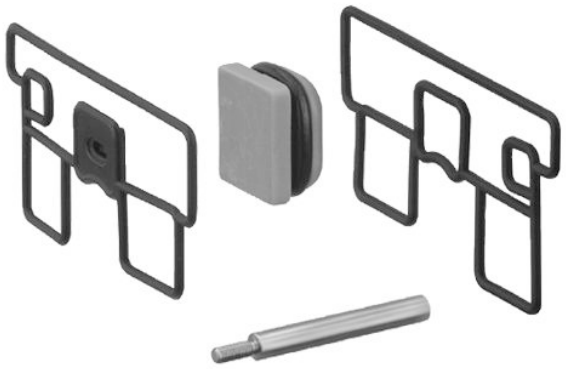
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions



Gasket, Series CD02-AL

1821015815



Technical data

Industry
Industrial

Type
Manifold strip

Type
Gasket for intermediate plates, 1 closed, 3 and 5 open

Delivery unit
5 piece

Frame size
18 mm

Standards
ISO 15407-1

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Weight
0.001 kg

Material

Part No.
1821015815

Technical information

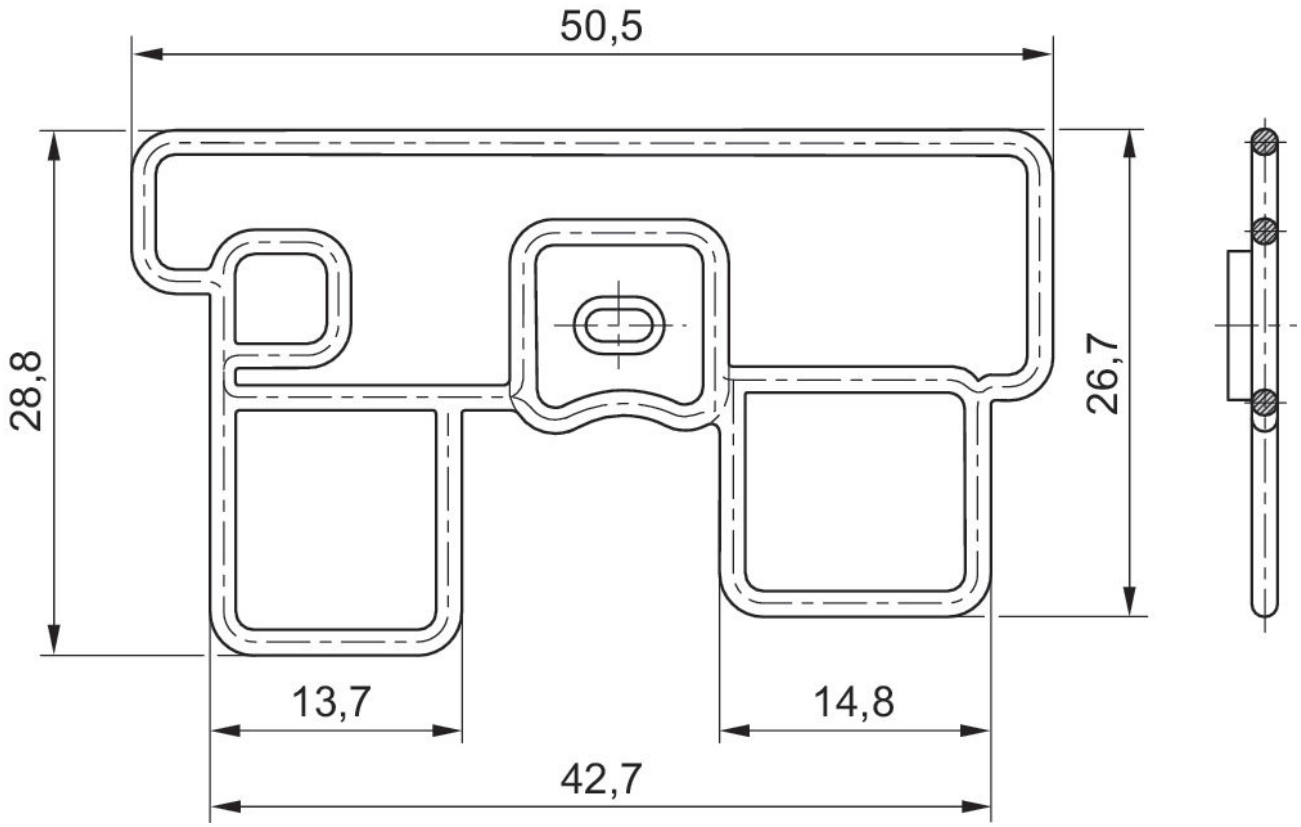
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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.

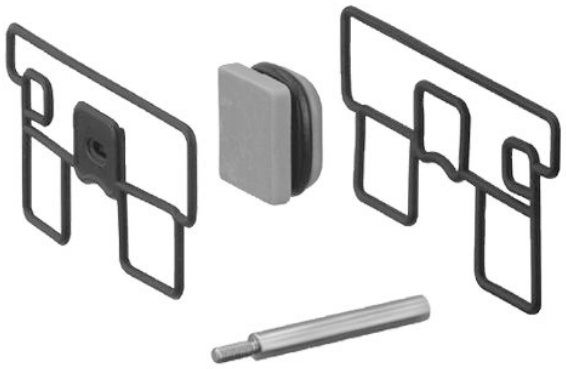
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions



Gasket, Series CD02-AL

1821015817



Technical data

Industry
Industrial

Type
Manifold strip

Type
Gasket for intermediate plates, 1, 3, and 5 open

Delivery unit
10 piece

Frame size
18 mm

Standards
ISO 15407-1

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Weight
0.001 kg

Material

Part No.
1821015817

Technical information

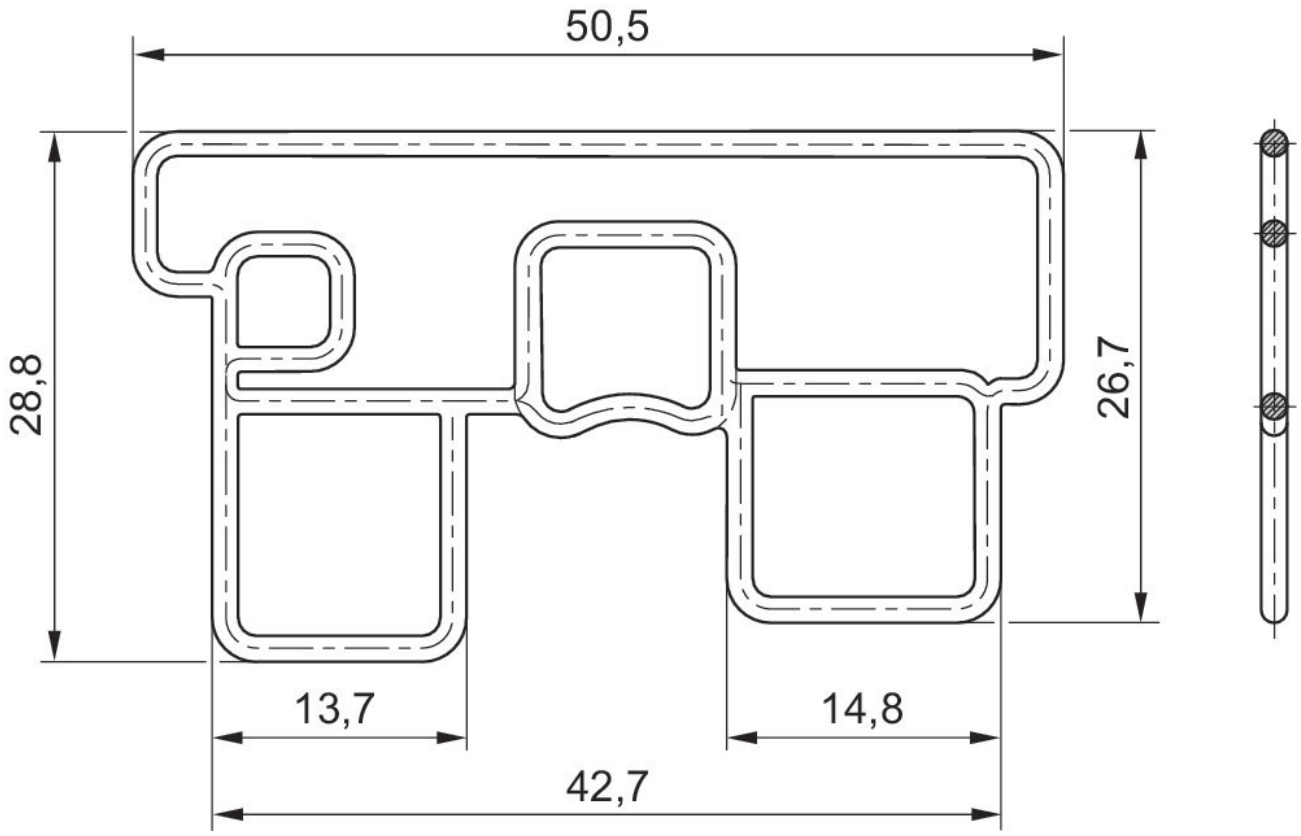
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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.

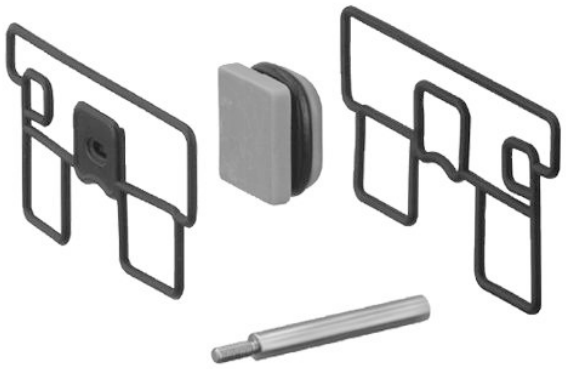
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions



Gasket, Series CD02-AL

1827003825



Technical data

Industry
Industrial

Type
Manifold strip

Type
Separator for channel 3 + 5

Delivery unit
2 piece

Frame size
18 mm

Standards
ISO 15407-1

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Weight
0.06 kg

Material

Part No.
1827003825

Technical information

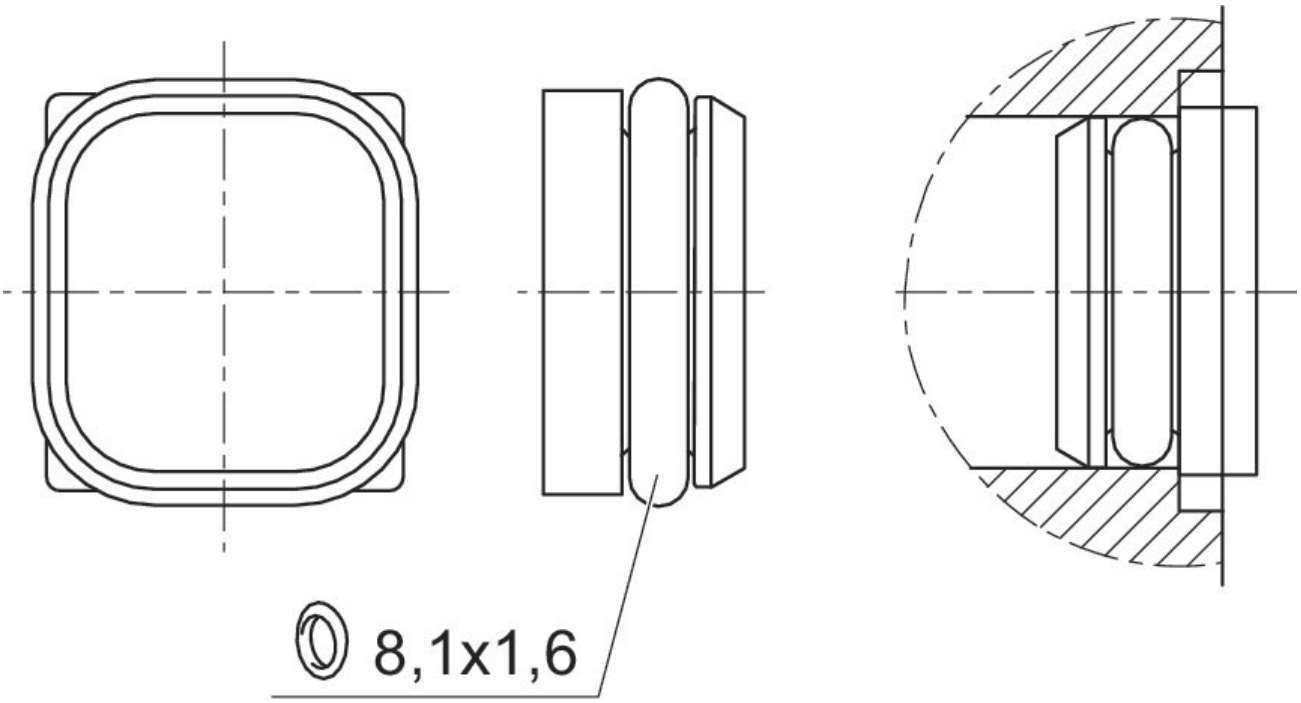
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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.

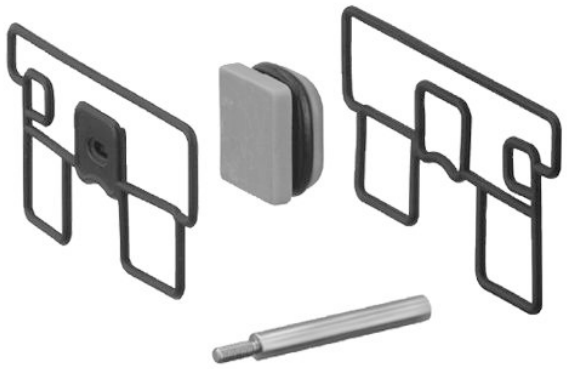
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in https://www.emerson.com/en-us/support).

Dimensions



Tie rod extension kit

1823051991



Technical data

Industry
Industrial

Type
Manifold strip

Delivery unit
5 piece

Frame size
18 mm

Standards
ISO 15407-1

Weight
0.014 kg

Type
Threaded rods for the assembly of 2 intermediate plates

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

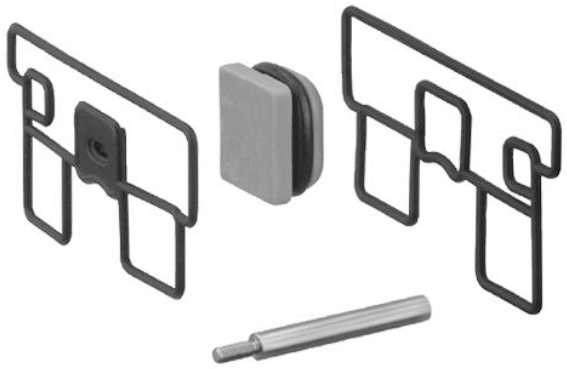
Medium
Compressed air

Material

Part No.
1823051991

Tie rod extension kit

1823051992



Technical data

Industry
Industrial

Type
Manifold strip

Delivery unit
5 piece

Frame size
18 mm

Standards
ISO 15407-1

Weight
0.022 kg

Type
Threaded rods for the assembly of 3 intermediate plates

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

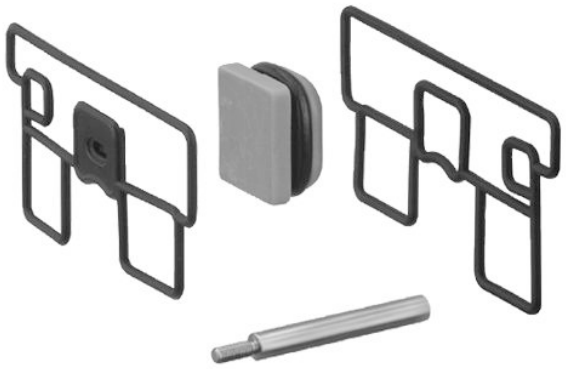
Medium
Compressed air

Material

Part No.
1823051992

Tie rod extension kit

1823051993



Technical data

Industry
Industrial

Type
Manifold strip

Delivery unit
5 piece

Frame size
18 mm

Standards
ISO 15407-1

Weight
0.038 kg

Type
Threaded rods for the assembly of 5 intermediate plates

Min. ambient temperature
-15 °C

Max. ambient temperature
70 °C

Medium
Compressed air

Material

Part No.
1823051993

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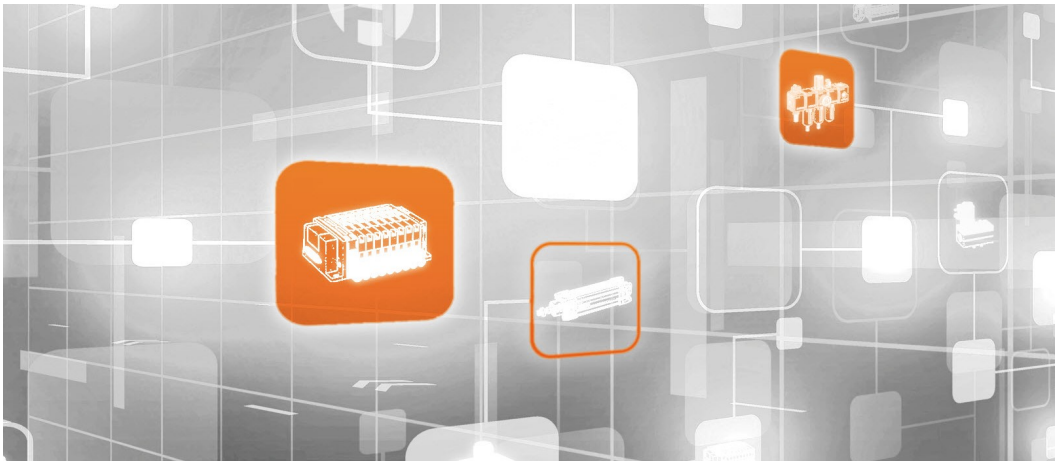

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