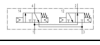
2 x 3/2-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 2x3/2
- 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	Operationalvoltage DC	Operationalvoltage 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.	Operationalvoltage 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	-	-	-	-
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
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
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

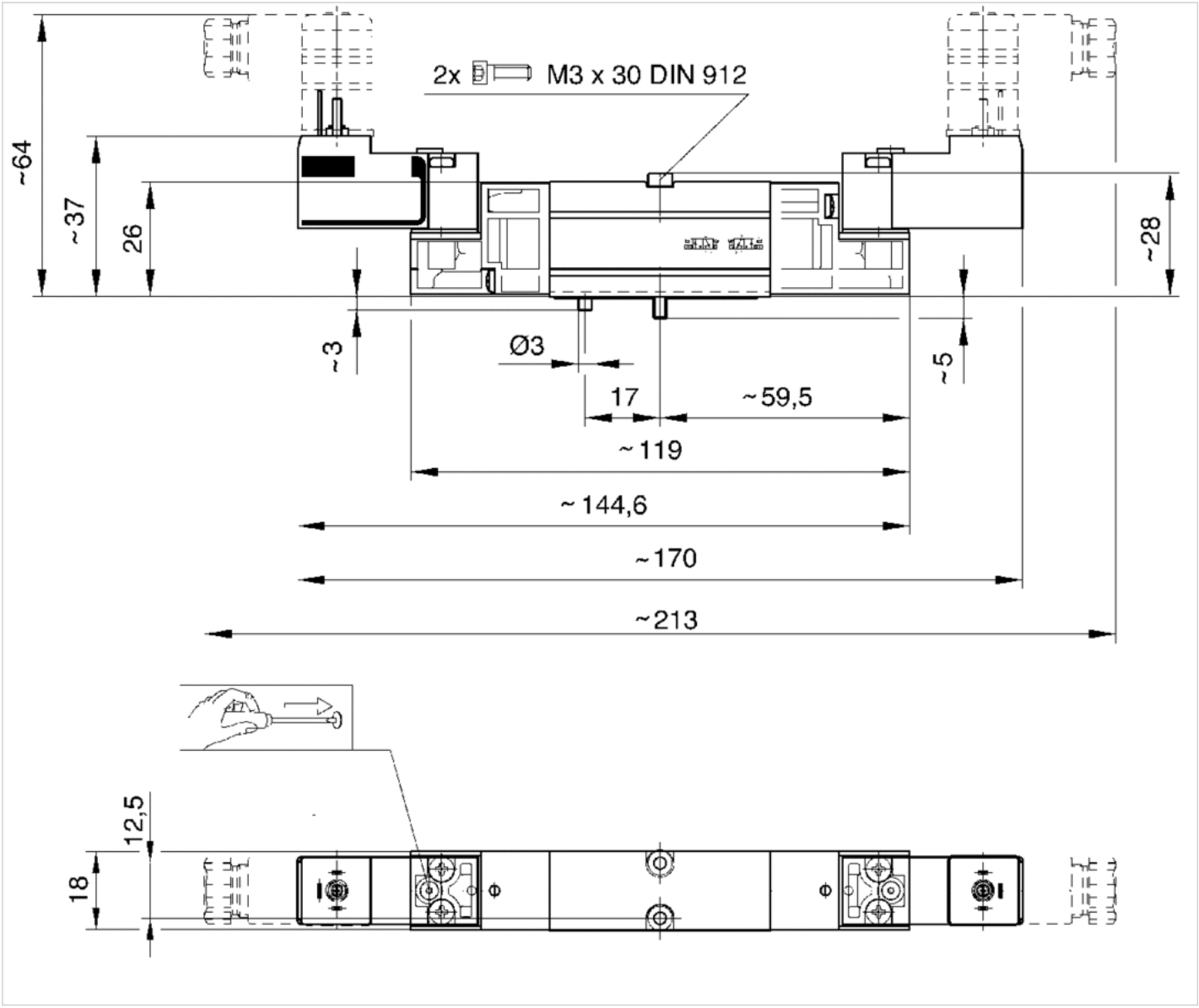
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Part No.			MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz
0820037352		NO/NC		24 V	-
0820037354		NO/NC		-	110 V
0820037350		NO/NC		-	230 V

Part No.	Operationalvoltage 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	-	-	-
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	-

Part No.	Switch-on power AC 60 Hz	Electrical connection Pilot valve	
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

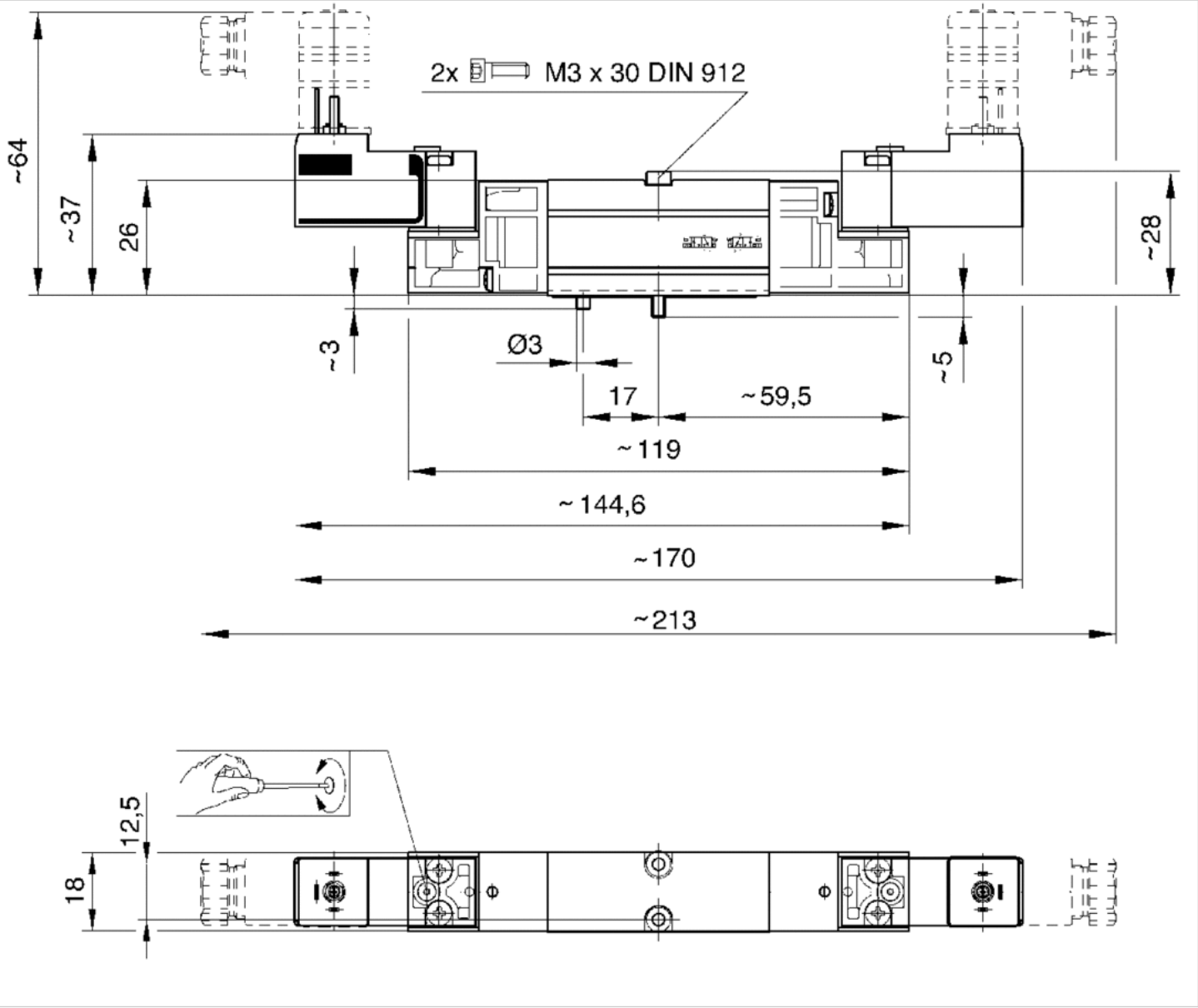
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage 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.
7472D02817	0,35 W	Internal	2,5 ... 10 bar
7472D02823	0,35 W	External	-0,8 ... 10 bar

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

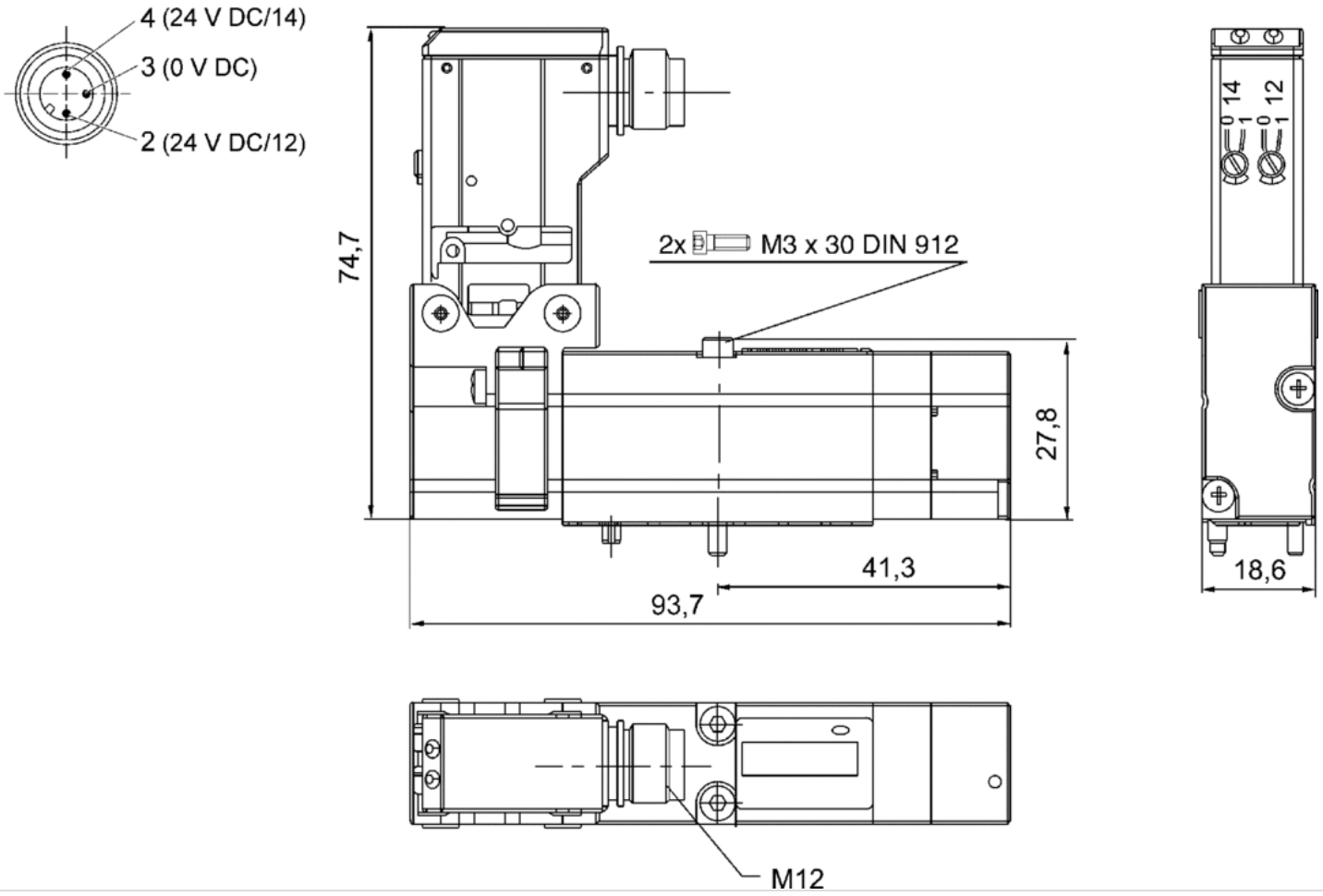
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage 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/NC		24 V	-15% / +20%
7472D02828		NO/NC		24 V	-15% / +20%

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

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

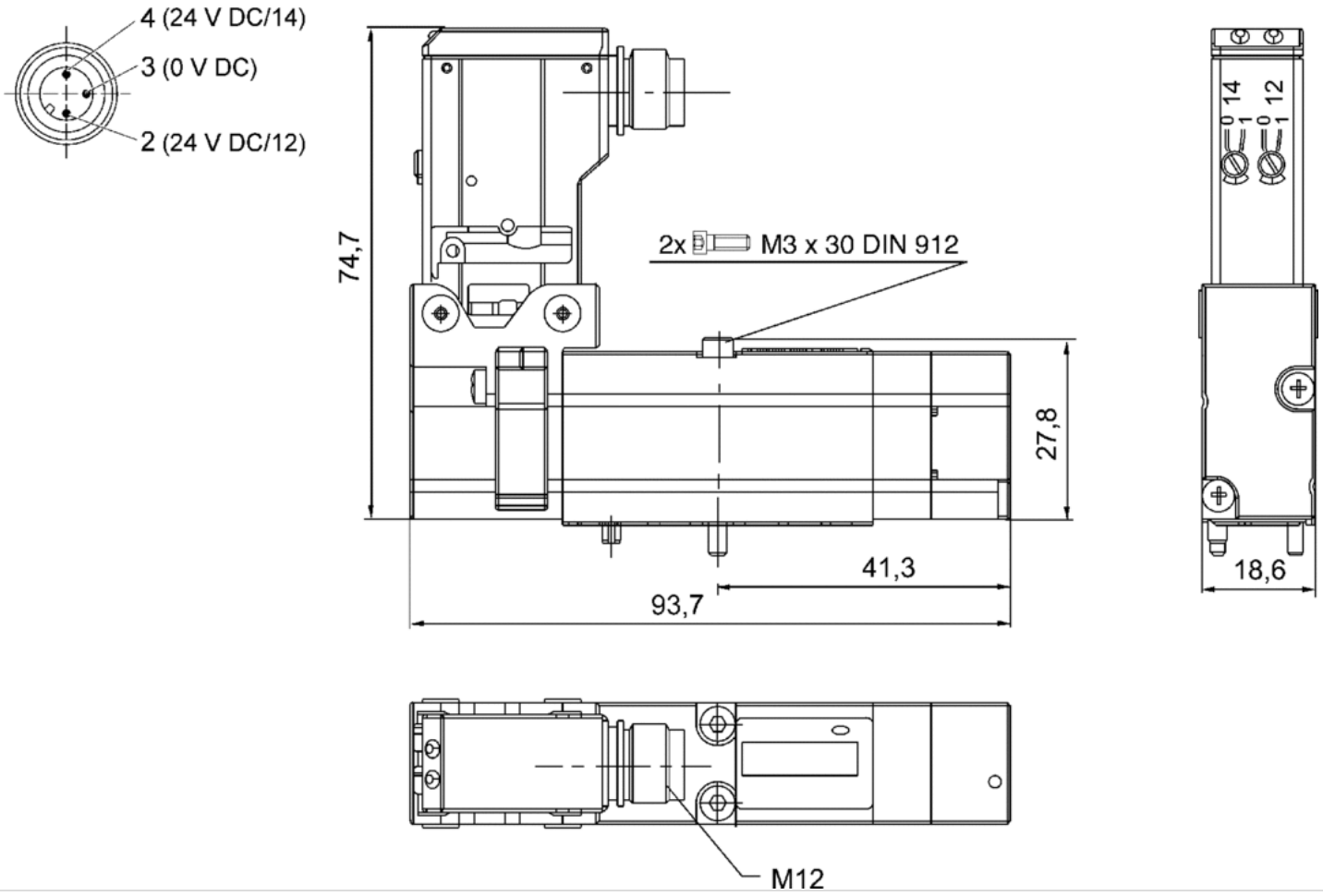
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
0820038154			-	24 V	24 V
0820038152			24 V	-	-
0820038153			24 V	-	-
0820038155			-	110 V	110 V
0820038151			-	230 V	230 V
0820038654			-	24 V	-
0820038652			24 V	-	-
0820038653			24 V	-	-
0820038655			-	110 V	110 V
0820038651			-	230 V	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
0820038154	-	-10% / +10%	-10% / +10%	-
0820038152	-10% / +10%	-	-	2 W
0820038153	-10% / +10%	-	-	1 W
0820038155	-	-10% / +10%	-10% / +10%	-
0820038151	-	-10% / +10%	-10% / +10%	-
0820038654	-	-10% / +10%	-10% / +10%	-
0820038652	-10% / +10%	-	-	2 W
0820038653	-10% / +10%	-	-	1 W
0820038655	-	-10% / +10%	-10% / +10%	-
0820038651	-	-10% / +10%	-10% / +10%	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz
0820038154	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038152	-	-	-	-
0820038153	-	-	-	-
0820038155	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038151	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038654	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038652	-	-	-	-
0820038653	-	-	-	-
0820038655	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038651	1,6 VA	1,4 VA	2,2 VA	2 VA

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time
0820038154	2 ... 10 bar	2 ... 10 bar	11 ms
0820038152	2 ... 10 bar	2 ... 10 bar	11 ms
0820038153	2 ... 10 bar	2 ... 10 bar	12 ms
0820038155	2 ... 10 bar	2 ... 10 bar	11 ms
0820038151	2 ... 10 bar	2 ... 10 bar	11 ms

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time
0820038654	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038652	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038653	1,5 ... 10 bar	1,5 ... 10 bar	10 ms
0820038655	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038651	1,5 ... 10 bar	1,5 ... 10 bar	8 ms

Part No.	Typ. switch-off time	Electrical connection Pilot valve	Weight	
0820038154	14 ms	Plug, ISO 15217, form C	0,11 kg	-
0820038152	14 ms	Plug, ISO 15217, form C	0,11 kg	-
0820038153	16 ms	Plug, ISO 15217, form C	0,11 kg	1)
0820038155	14 ms	Plug, ISO 15217, form C	0,11 kg	-
0820038151	14 ms	Plug, ISO 15217, form C	0,11 kg	-
0820038654	8 ms	Plug, ISO 15217, form C	0,16 kg	-
0820038652	8 ms	Plug, ISO 15217, form C	0,16 kg	-
0820038653	10 ms	Plug, ISO 15217, form C	0,16 kg	1)
0820038655	8 ms	Plug, ISO 15217, form C	0,16 kg	-
0820038651	8 ms	Plug, ISO 15217, form C	0,16 kg	-

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

1) Low power consumption

Technical information

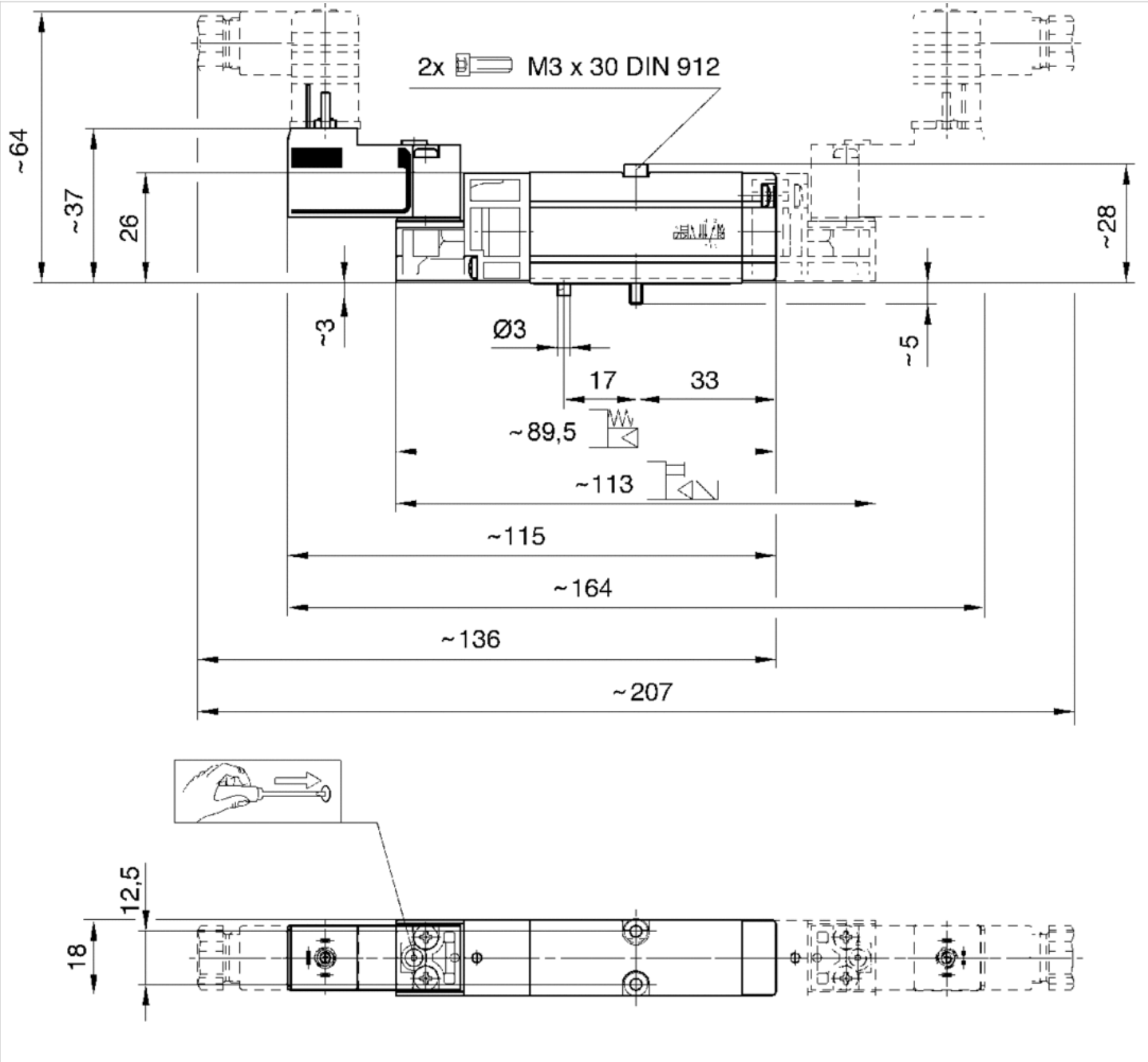
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
0820038178			-	24 V	24 V
0820038176			24 V	-	-
0820038177			24 V	-	-
0820038179			-	110 V	110 V
0820038175			-	230 V	230 V
0820038955		—	-	-	-
0820038678			-	24 V	24 V
0820038676			24 V	-	-
0820038677			24 V	-	-
0820038679			-	110 V	110 V
0820038675			-	230 V	230 V
0820038957		—	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
0820038178	-	-10% / +10%	-10% / +10%	-
0820038176	-10% / +10%	-	-	2 W
0820038177	-10% / +10%	-	-	1 W
0820038179	-	-10% / +10%	-10% / +10%	-
0820038175	-	-10% / +10%	-10% / +10%	-
0820038955	-	-	-	-
0820038678	-	-10% / +10%	-10% / +10%	-
0820038676	-10% / +10%	-	-	2 W
0820038677	-10% / +10%	-	-	1 W
0820038679	-	-10% / +10%	-10% / +10%	-
0820038675	-	-10% / +10%	-10% / +10%	-
0820038957	-	-	-	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz
0820038178	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038176	-	-	-	-
0820038177	-	-	-	-
0820038179	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038175	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038955	-	-	-	-
0820038678	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038676	-	-	-	-
0820038677	-	-	-	-
0820038679	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038675	1,6 VA	1,4 VA	2,2 VA	2 VA
0820038957	-	-	-	-

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time
0820038178	2 ... 10 bar	2 ... 10 bar	11 ms
0820038176	2 ... 10 bar	2 ... 10 bar	11 ms
0820038177	2 ... 10 bar	2 ... 10 bar	12 ms
0820038179	2 ... 10 bar	2 ... 10 bar	11 ms
0820038175	2 ... 10 bar	2 ... 10 bar	11 ms
0820038955	2 ... 10 bar	2 ... 10 bar	-
0820038678	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038676	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038677	1,5 ... 10 bar	1,5 ... 10 bar	10 ms
0820038679	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038675	1,5 ... 10 bar	1,5 ... 10 bar	8 ms
0820038957	1,5 ... 10 bar	1,5 ... 10 bar	-

Part No.	Typ. switch-off time	Electrical connection Pilot valve	basic valve with electrical connector
0820038178	14 ms	Plug, ISO 15217, form C	-
0820038176	14 ms	Plug, ISO 15217, form C	-
0820038177	16 ms	Plug, ISO 15217, form C	-
0820038179	14 ms	Plug, ISO 15217, form C	-
0820038175	14 ms	Plug, ISO 15217, form C	-
0820038955	-	Plug, ISO 15217, form C	Basic valve without pilot valve
0820038678	8 ms	Plug, ISO 15217, form C	-
0820038676	8 ms	Plug, ISO 15217, form C	-
0820038677	10 ms	Plug, ISO 15217, form C	-
0820038679	8 ms	Plug, ISO 15217, form C	-
0820038675	8 ms	Plug, ISO 15217, form C	-
0820038957	-	Plug, ISO 15217, form C	Basic valve without pilot valve

Part No.	Weight	
0820038178	0,11 kg	-
0820038176	0,11 kg	-
0820038177	0,11 kg	1)
0820038179	0,11 kg	-
0820038175	0,11 kg	-
0820038955	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	0,1 kg	-

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

1) Low power consumption

Technical information

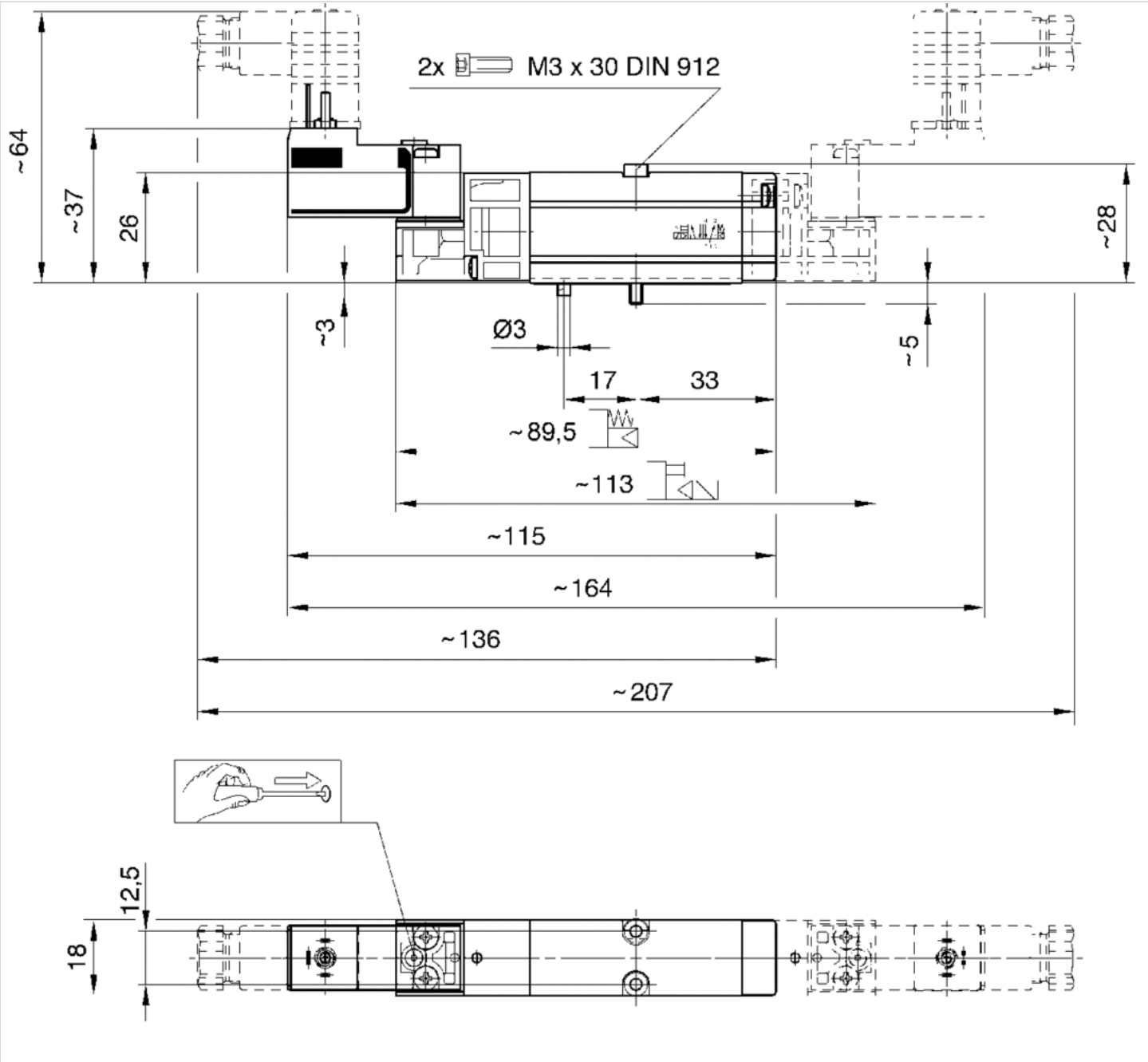
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage DC	Voltage tolerance DC	Power consumption DC
0820038157			24 V	-10% / +10%	2 W
0820038959		—	-	-	-
0820038657			24 V	-10% / +10%	2 W
0820038961		—	-	-	-

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820038157	2 ... 10 bar	11 ms	14 ms
0820038959	2 ... 10 bar	-	-
0820038657	1,5 ... 10 bar	8 ms	10 ms
0820038961	1,5 ... 10 bar	-	-

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	Weight
0820038157	Plug, ISO 15217, form C	-	0,11 kg
0820038959	Plug, ISO 15217, form C	Basic valve without pilot valve	0,08 kg
0820038657	Plug, ISO 15217, form C	-	0,16 kg
0820038961	Plug, ISO 15217, form C	Basic valve without pilot valve	0,1 kg

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

Technical information

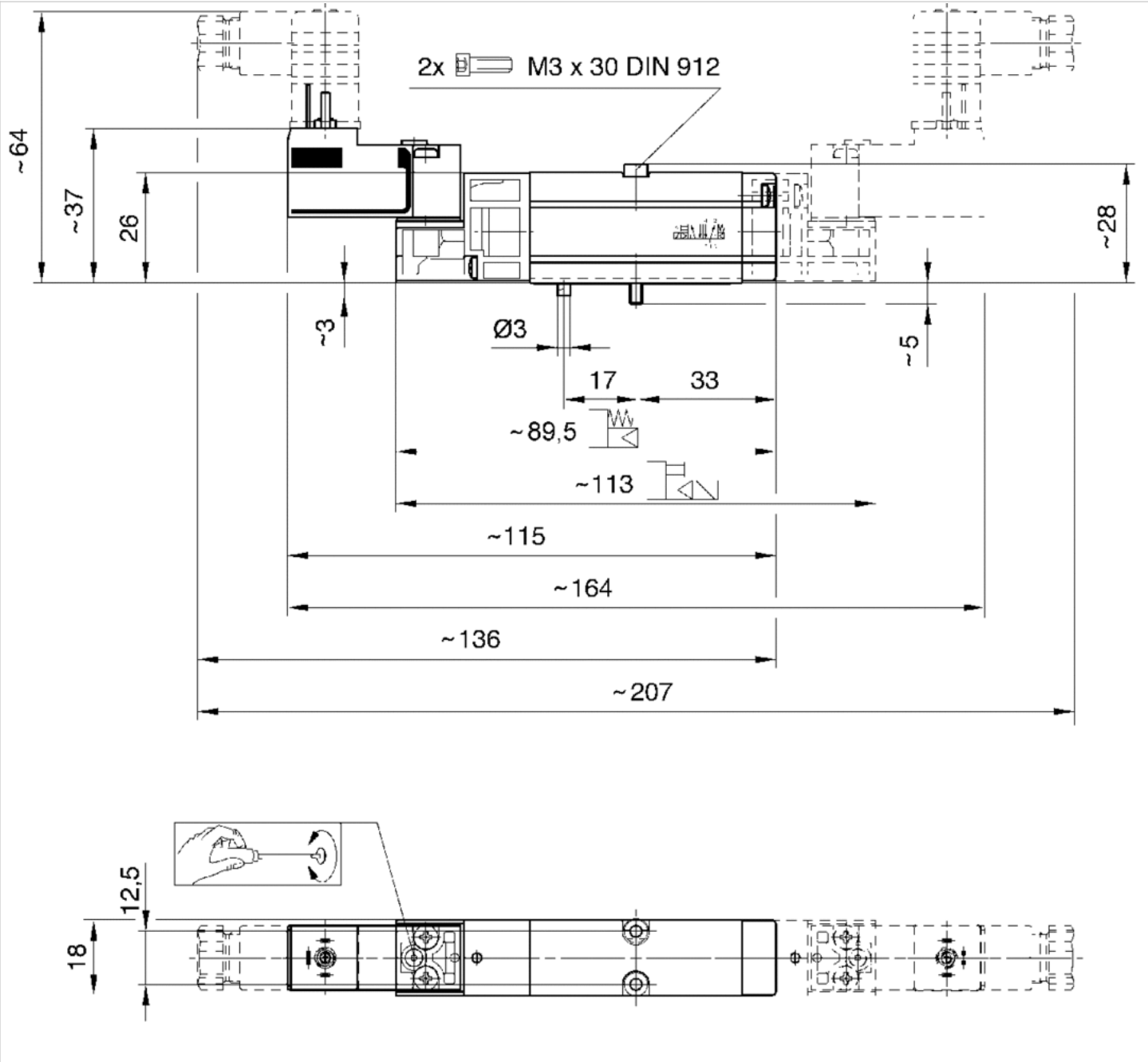
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

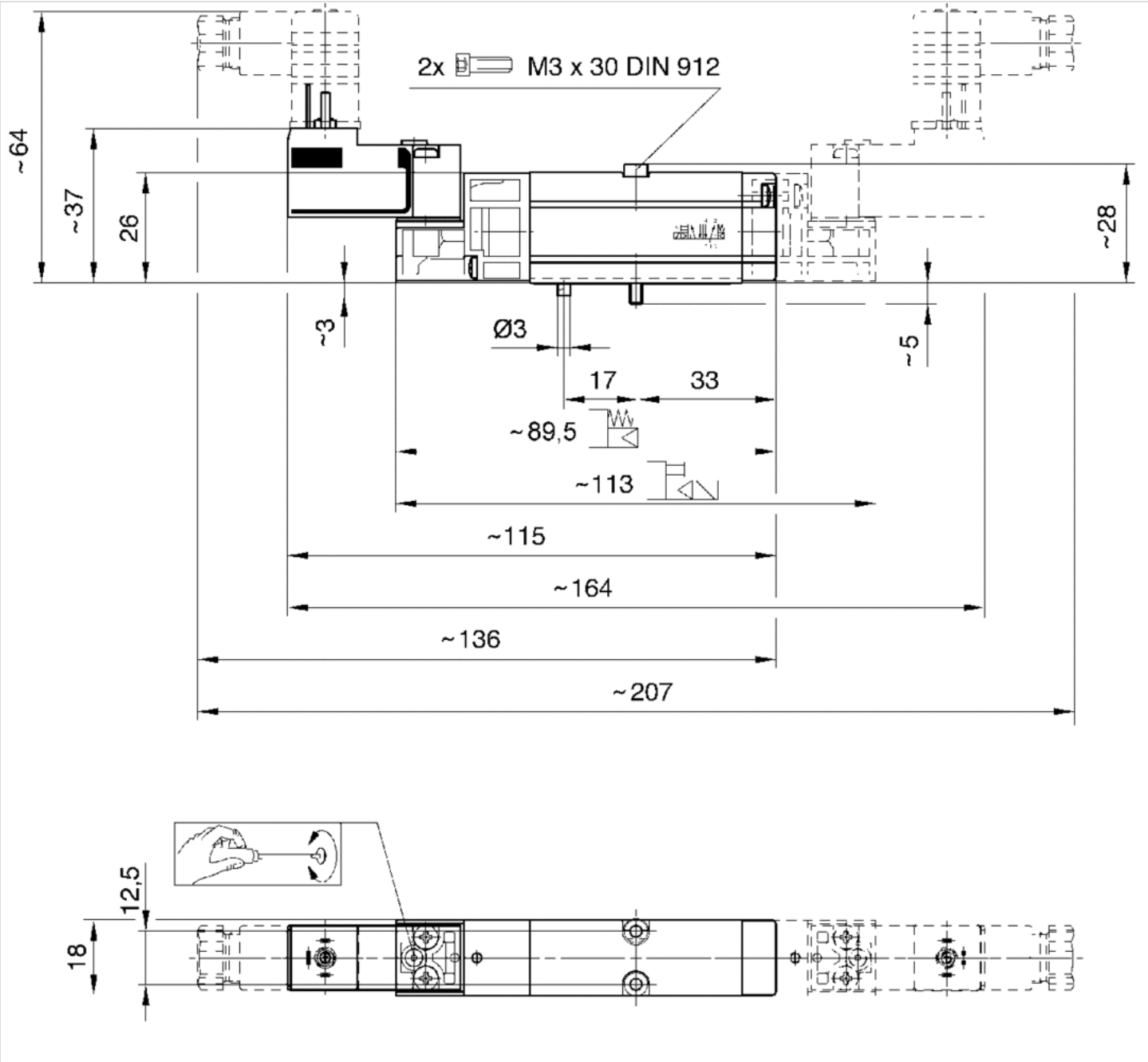
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage DC	Voltage tolerance DC	Power consumption DC
R422000306			24 V	-15% / +20%	0,35 W
7472D02833			24 V	-15% / +20%	0,35 W
R422000307			24 V	-15% / +20%	0,35 W
7472D02834			24 V	-15% / +20%	0,35 W

Part No.	Pilot	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time
R422000306	Internal	2,5 ... 10 bar	12 ms	21 ms
7472D02833	External	-0,8 ... 10 bar	12 ms	21 ms
R422000307	Internal	2,5 ... 10 bar	14 ms	14 ms
7472D02834	External	-0,8 ... 10 bar	14 ms	14 ms

Part No.	Electrical connection Pilot valve
R422000306	Plug, M12, 3-pin
7472D02833	Plug, M12, 3-pin
R422000307	Plug, M12, 3-pin
7472D02834	Plug, M12, 3-pin

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

Technical information

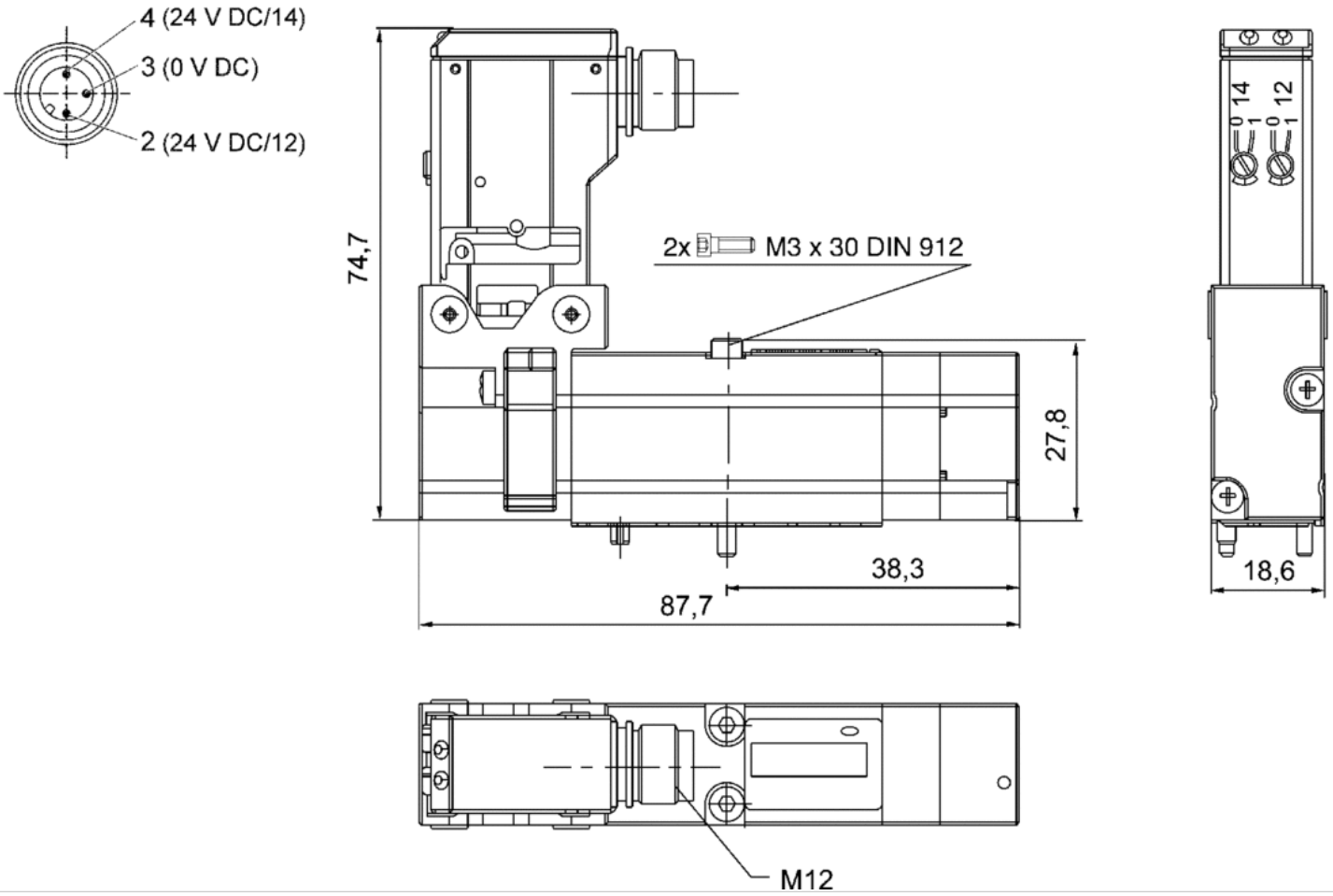
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

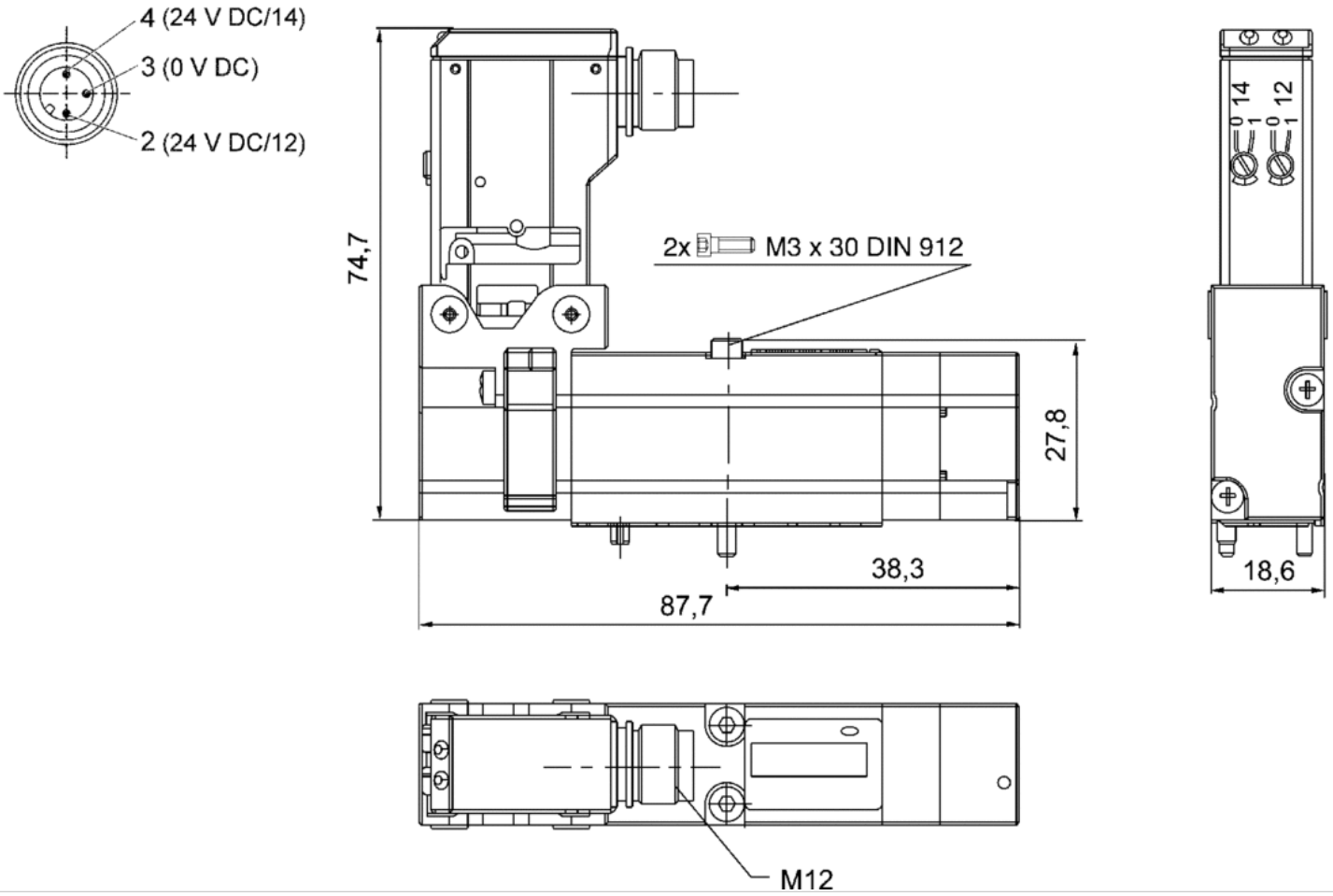
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

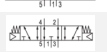
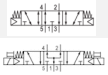
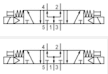
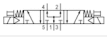


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- 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	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
0820039218			-	24 V	24 V
0820039216			24 V	-	-
0820039217			24 V	-	-
0820039219			-	110 V	110 V
0820039215			-	230 V	230 V
0820039943			-	-	-
0820039233			-	24 V	24 V
0820039231			24 V	-	-
0820039232			24 V	-	-
0820039234			-	110 V	110 V
0820039230			-	230 V	230 V
0820039944			-	-	-
0820039263			-	24 V	24 V
0820039261			24 V	-	-
0820039262			24 V	-	-
0820039264			-	110 V	110 V
0820039260			-	230 V	230 V
0820039945			-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
0820039218	-	-10% / +10%	-10% / +10%	-
0820039216	-10% / +10%	-	-	2 W
0820039217	-10% / +10%	-	-	1 W
0820039219	-	-10% / +10%	-10% / +10%	-
0820039215	-	-10% / +10%	-10% / +10%	-
0820039943	-	-	-	-
0820039233	-	-10% / +10%	-10% / +10%	-
0820039231	-10% / +10%	-	-	2 W
0820039232	-10% / +10%	-	-	1 W
0820039234	-	-10% / +10%	-10% / +10%	-
0820039230	-	-10% / +10%	-10% / +10%	-
0820039944	-	-	-	-
0820039263	-	-10% / +10%	-10% / +10%	-
0820039261	-10% / +10%	-	-	2 W
0820039262	-10% / +10%	-	-	1 W
0820039264	-	-10% / +10%	-10% / +10%	-
0820039260	-	-10% / +10%	-10% / +10%	-
0820039945	-	-	-	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
0820039218	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039216	-	-	-	-	Internal
0820039217	-	-	-	-	Internal

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
0820039219	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039215	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039943	-	-	-	-	External
0820039233	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039231	-	-	-	-	Internal
0820039232	-	-	-	-	Internal
0820039234	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039230	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039944	-	-	-	-	External
0820039263	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039261	-	-	-	-	Internal
0820039262	-	-	-	-	Internal
0820039264	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039260	1,6 VA	1,4 VA	2,2 VA	2 VA	Internal
0820039945	-	-	-	-	External

Part No.	Nominal flow Qn	Typ. switch-on time	Typ. switch-off time
0820039218	400 l/min	9 ms	20 ms
0820039216	400 l/min	9 ms	20 ms
0820039217	400 l/min	11 ms	23 ms
0820039219	400 l/min	9 ms	20 ms
0820039215	400 l/min	9 ms	20 ms
0820039943	400 l/min	-	-
0820039233	250 l/min	9 ms	20 ms
0820039231	250 l/min	9 ms	20 ms
0820039232	250 l/min	11 ms	23 ms
0820039234	250 l/min	9 ms	20 ms
0820039230	250 l/min	9 ms	20 ms
0820039944	250 l/min	-	-
0820039263	250 l/min	9 ms	20 ms
0820039261	250 l/min	9 ms	20 ms
0820039262	250 l/min	11 ms	23 ms
0820039264	250 l/min	9 ms	20 ms
0820039260	250 l/min	9 ms	20 ms
0820039945	250 l/min	-	-

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	
0820039218	2, Plug, ISO 15217, form C	-	-
0820039216	2, Plug, ISO 15217, form C	-	-
0820039217	2, Plug, ISO 15217, form C	-	1)
0820039219	2, Plug, ISO 15217, form C	-	-
0820039215	2, Plug, ISO 15217, form C	-	-
0820039943	2, Plug, ISO 15217, form C	Basic valve without pilot valve	-
0820039233	2, Plug, ISO 15217, form C	-	-
0820039231	2, Plug, ISO 15217, form C	-	-

Part No.	Electrical connection Pilot valve	basic valve with electrical connector	
0820039232	2, Plug, ISO 15217, form C	-	1)
0820039234	2, Plug, ISO 15217, form C	-	-
0820039230	2, Plug, ISO 15217, form C	-	-
0820039944	2, Plug, ISO 15217, form C	Basic valve without pilot valve	-
0820039263	2, Plug, ISO 15217, form C	-	-
0820039261	2, Plug, ISO 15217, form C	-	-
0820039262	2, Plug, ISO 15217, form C	-	1)
0820039264	2, Plug, ISO 15217, form C	-	-
0820039260	2, Plug, ISO 15217, form C	-	-
0820039945	2, Plug, ISO 15217, form C	Basic valve without pilot valve	-

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

1) Low power consumption

Technical information

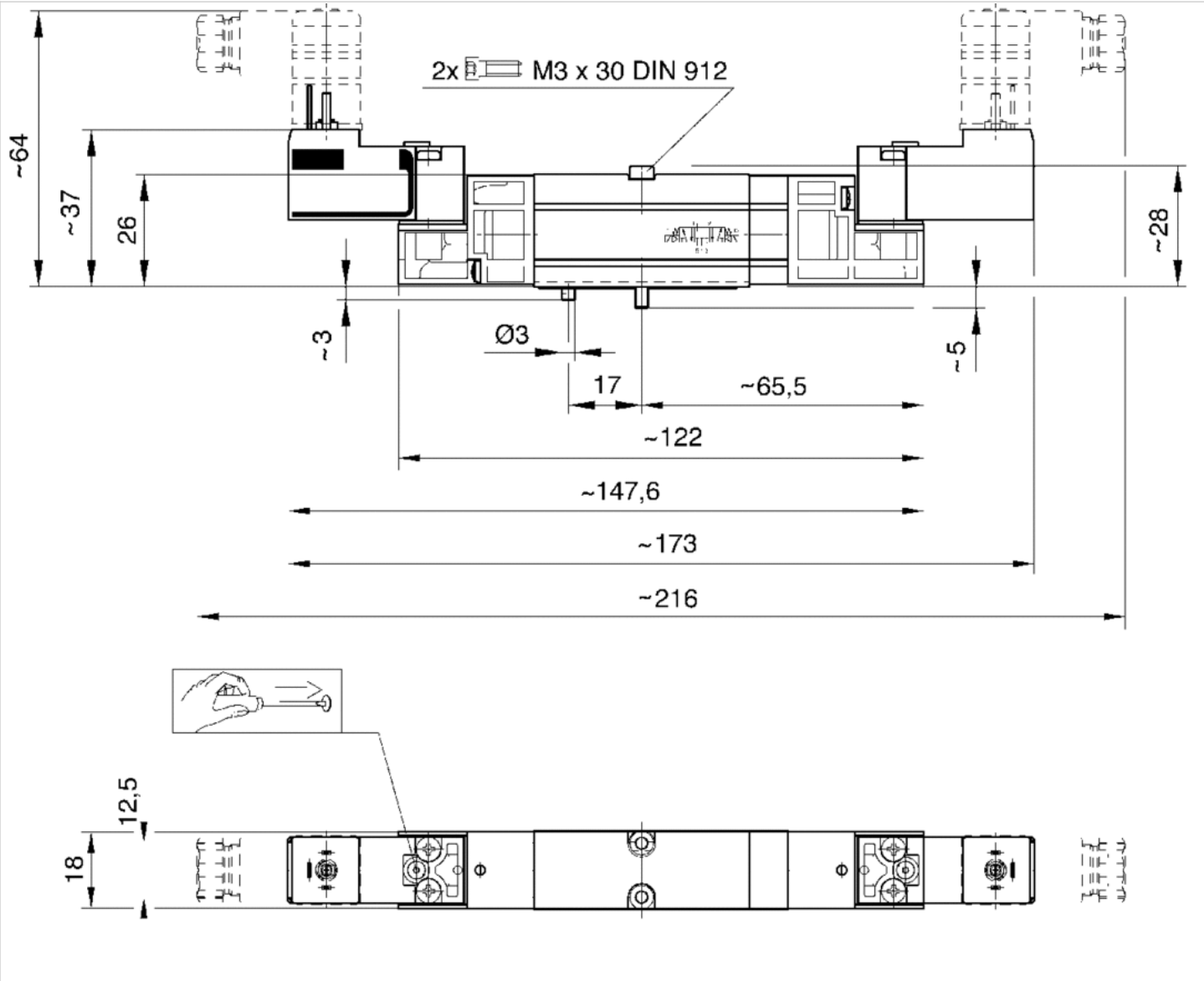
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

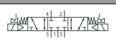
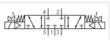
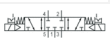
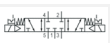
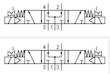
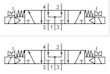
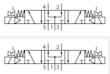
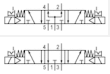
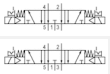
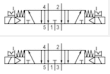
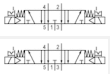
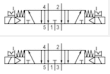


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- 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	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
0820039318			-	24 V	24 V
0820039316			24 V	-	-
0820039317			24 V	-	-
0820039319			-	110 V	110 V
0820039315			-	230 V	230 V
0820039363			-	24 V	24 V
0820039361			24 V	-	-
0820039362			24 V	-	-
0820039364			-	110 V	110 V
0820039360			-	230 V	230 V
0820039333			-	24 V	24 V
0820039331			24 V	-	-
0820039332			24 V	-	-
0820039334			-	110 V	110 V
0820039330			-	230 V	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
0820039318	-	-10% / +10%	-10% / +10%	-
0820039316	-10% / +10%	-	-	2 W
0820039317	-10% / +10%	-	-	1 W
0820039319	-	-10% / +10%	-10% / +10%	-
0820039315	-	-10% / +10%	-10% / +10%	-
0820039363	-	-10% / +10%	-10% / +10%	-
0820039361	-10% / +10%	-	-	2 W
0820039362	-10% / +10%	-	-	1 W
0820039364	-	-10% / +10%	-10% / +10%	-
0820039360	-	-10% / +10%	-10% / +10%	-
0820039333	-	-10% / +10%	-10% / +10%	-
0820039331	-10% / +10%	-	-	2 W
0820039332	-10% / +10%	-	-	1 W
0820039334	-	-10% / +10%	-10% / +10%	-
0820039330	-	-10% / +10%	-10% / +10%	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz
0820039318	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039316	-	-	-	-
0820039317	-	-	-	-
0820039319	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039315	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039363	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039361	-	-	-	-
0820039362	-	-	-	-
0820039364	1,6 VA	1,4 VA	2,2 VA	2 VA

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz
0820039360	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039333	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039331	-	-	-	-
0820039332	-	-	-	-
0820039334	1,6 VA	1,4 VA	2,2 VA	2 VA
0820039330	1,6 VA	1,4 VA	2,2 VA	2 VA

Part No.	Nominal flow Qn	Typ. switch-on time	Typ. switch-off time
0820039318	400 l/min	9 ms	20 ms
0820039316	400 l/min	9 ms	20 ms
0820039317	400 l/min	11 ms	23 ms
0820039319	400 l/min	9 ms	20 ms
0820039315	400 l/min	9 ms	20 ms
0820039363	250 l/min	9 ms	20 ms
0820039361	250 l/min	9 ms	20 ms
0820039362	250 l/min	11 ms	23 ms
0820039364	250 l/min	9 ms	20 ms
0820039360	250 l/min	9 ms	20 ms
0820039333	250 l/min	9 ms	20 ms
0820039331	250 l/min	9 ms	20 ms
0820039332	250 l/min	11 ms	23 ms
0820039334	250 l/min	9 ms	20 ms
0820039330	250 l/min	9 ms	20 ms

Part No.	Electrical connection Pilot valve	
0820039318	2, Plug, ISO 15217, form C	-
0820039316	2, Plug, ISO 15217, form C	-
0820039317	2, Plug, ISO 15217, form C	1)
0820039319	2, Plug, ISO 15217, form C	-
0820039315	2, Plug, ISO 15217, form C	-
0820039363	2, Plug, ISO 15217, form C	-
0820039361	2, Plug, ISO 15217, form C	-
0820039362	2, Plug, ISO 15217, form C	1)
0820039364	2, Plug, ISO 15217, form C	-
0820039360	2, Plug, ISO 15217, form C	-
0820039333	2, Plug, ISO 15217, form C	-
0820039331	2, Plug, ISO 15217, form C	-
0820039332	2, Plug, ISO 15217, form C	1)
0820039334	2, Plug, ISO 15217, form C	-
0820039330	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

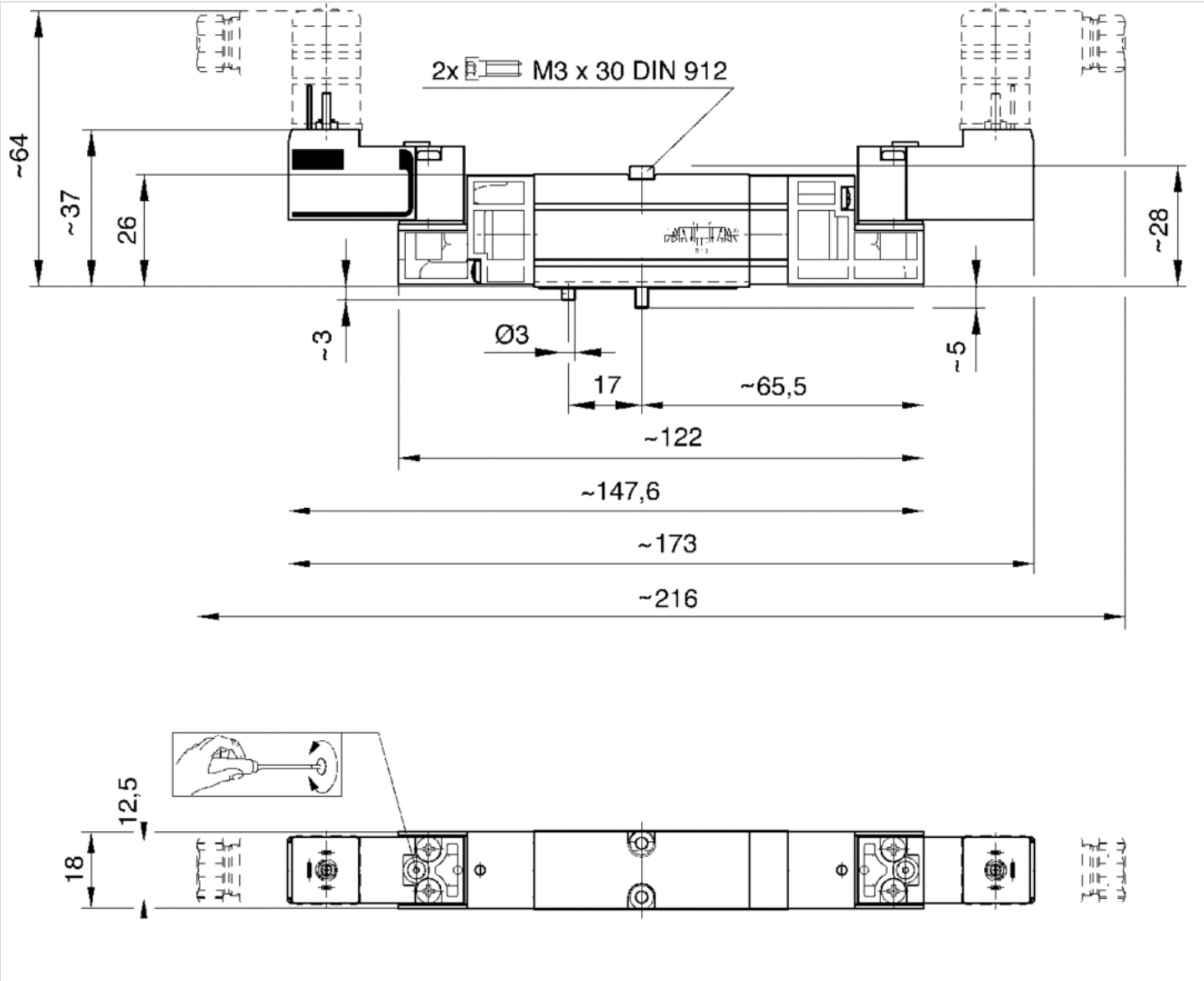
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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		400 l/min	2, Plug, ISO 15217, form C
0820039935		250 l/min	2, Plug, ISO 15217, form C
0820039934		250 l/min	2, Plug, ISO 15217, form C

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

Technical information

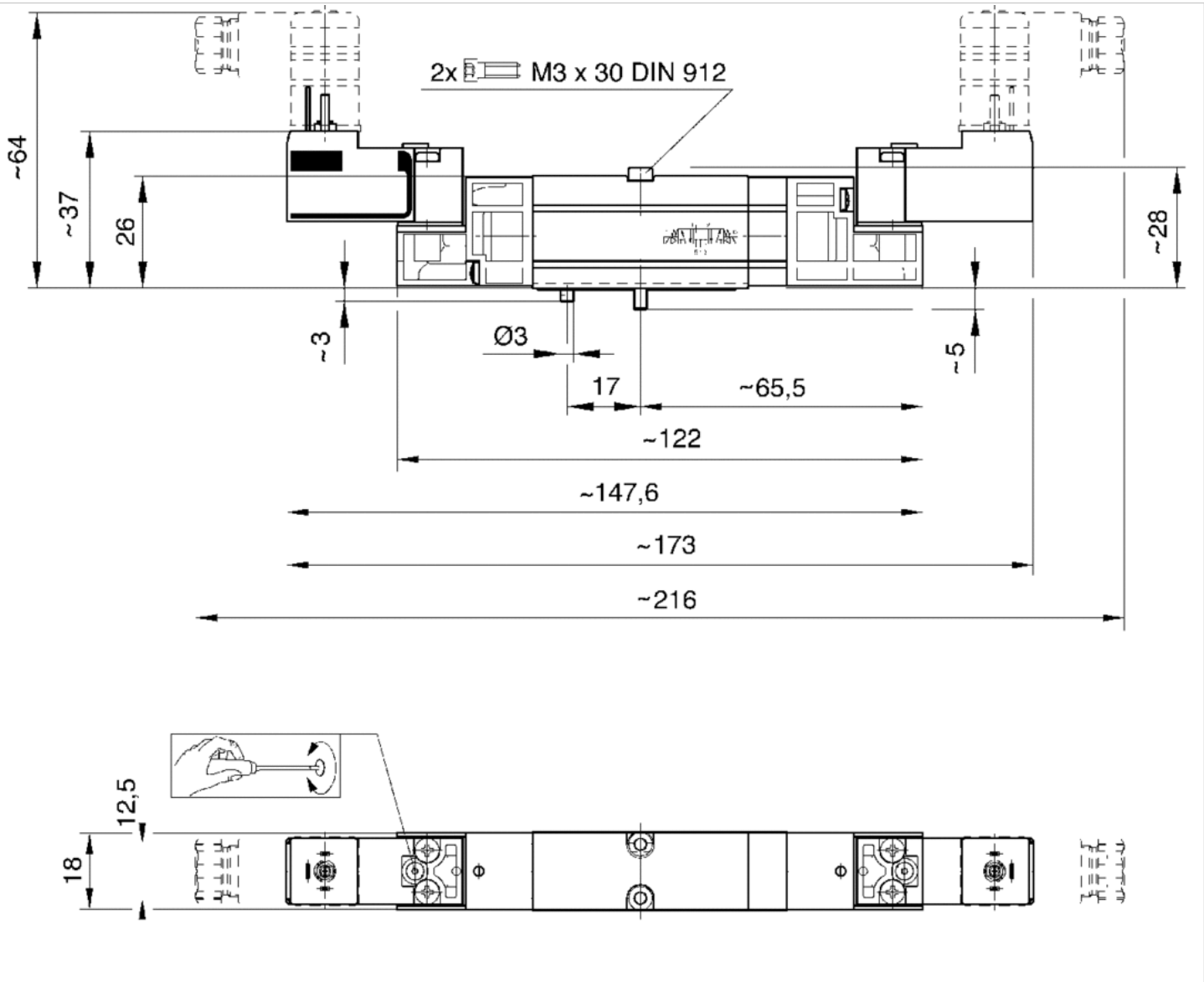
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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
- 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	Operationalvoltage DC	Voltage tolerance DC	Power consumption DC
7472D02837			24 V	-15% / +20%	0,35 W
7472D02839			24 V	-15% / +20%	0,35 W

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve
7472D02837	Internal	2,5 ... 10 bar	Plug, M12, 3-pin
7472D02839	External	-0,8 ... 10 bar	Plug, M12, 3-pin

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

MO = Manual override

Technical information

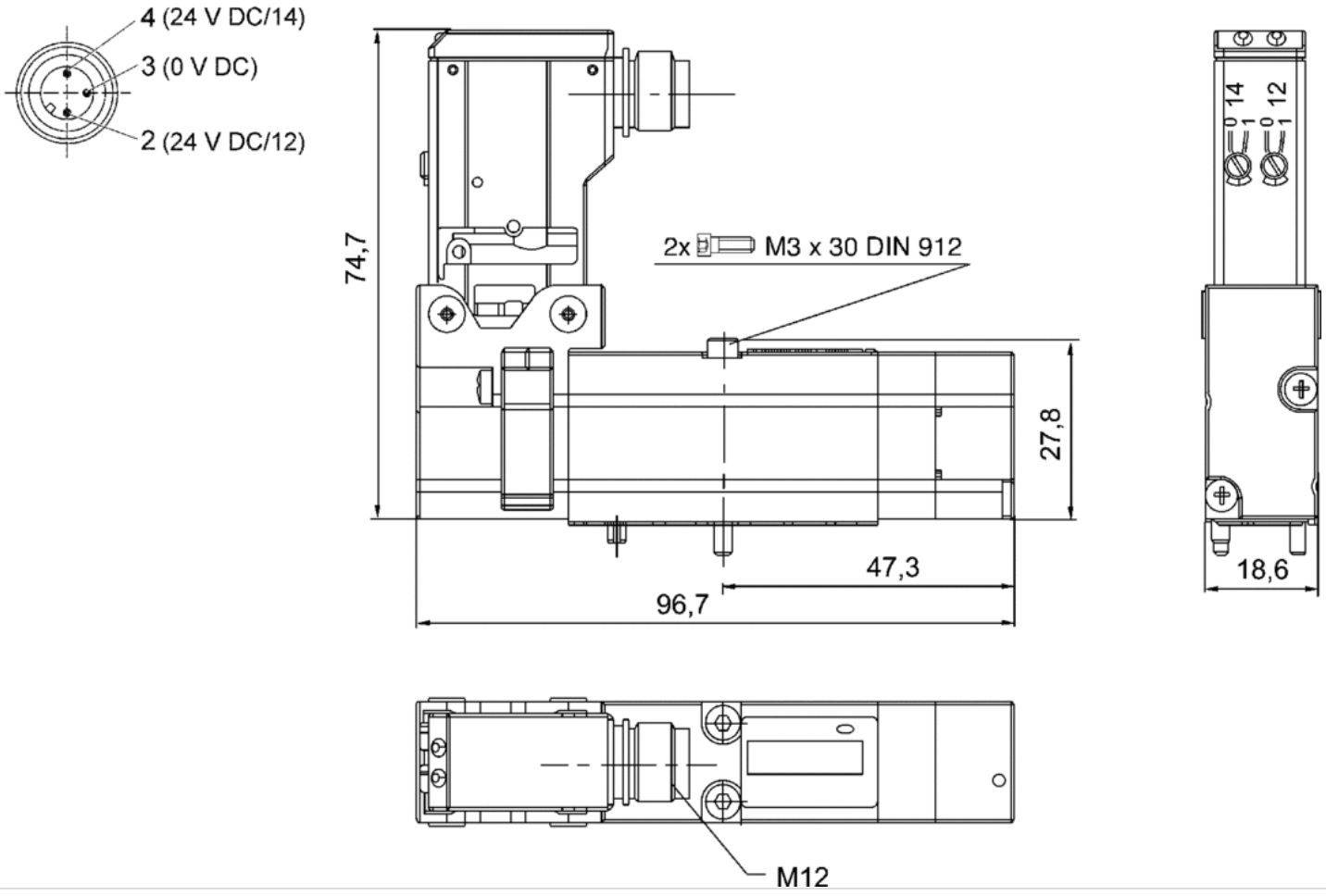
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

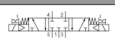


5/3-directional valve, Series CD02-AL

- ISO 15407-1
- 18 mm
- 5/3
- 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	Operationalvoltage DC	Voltage tolerance DC
7472D02838			24 V	-15% / +20%
7472D02840			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
7472D02840	Plug, M12, 3-pin

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

Technical information

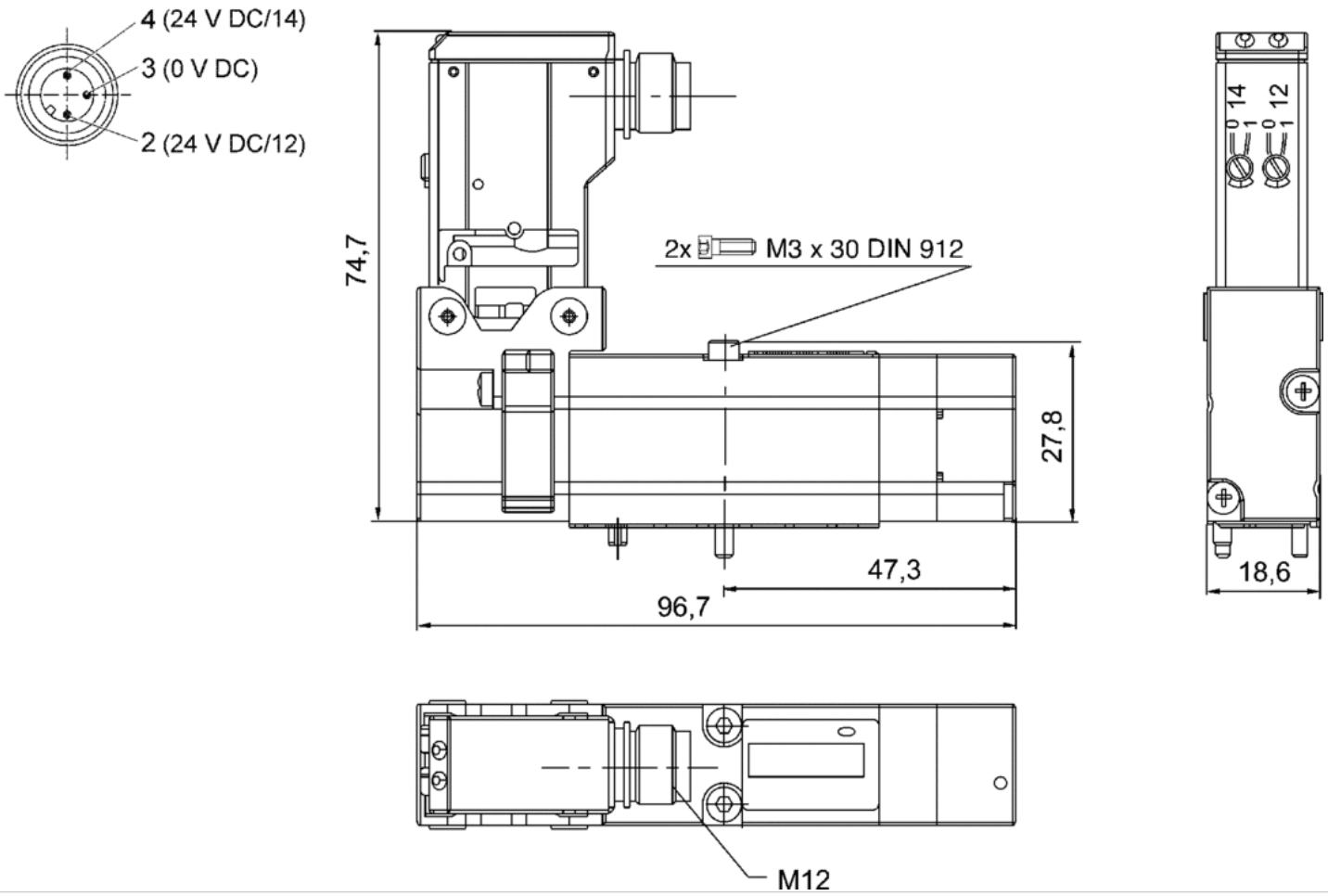
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

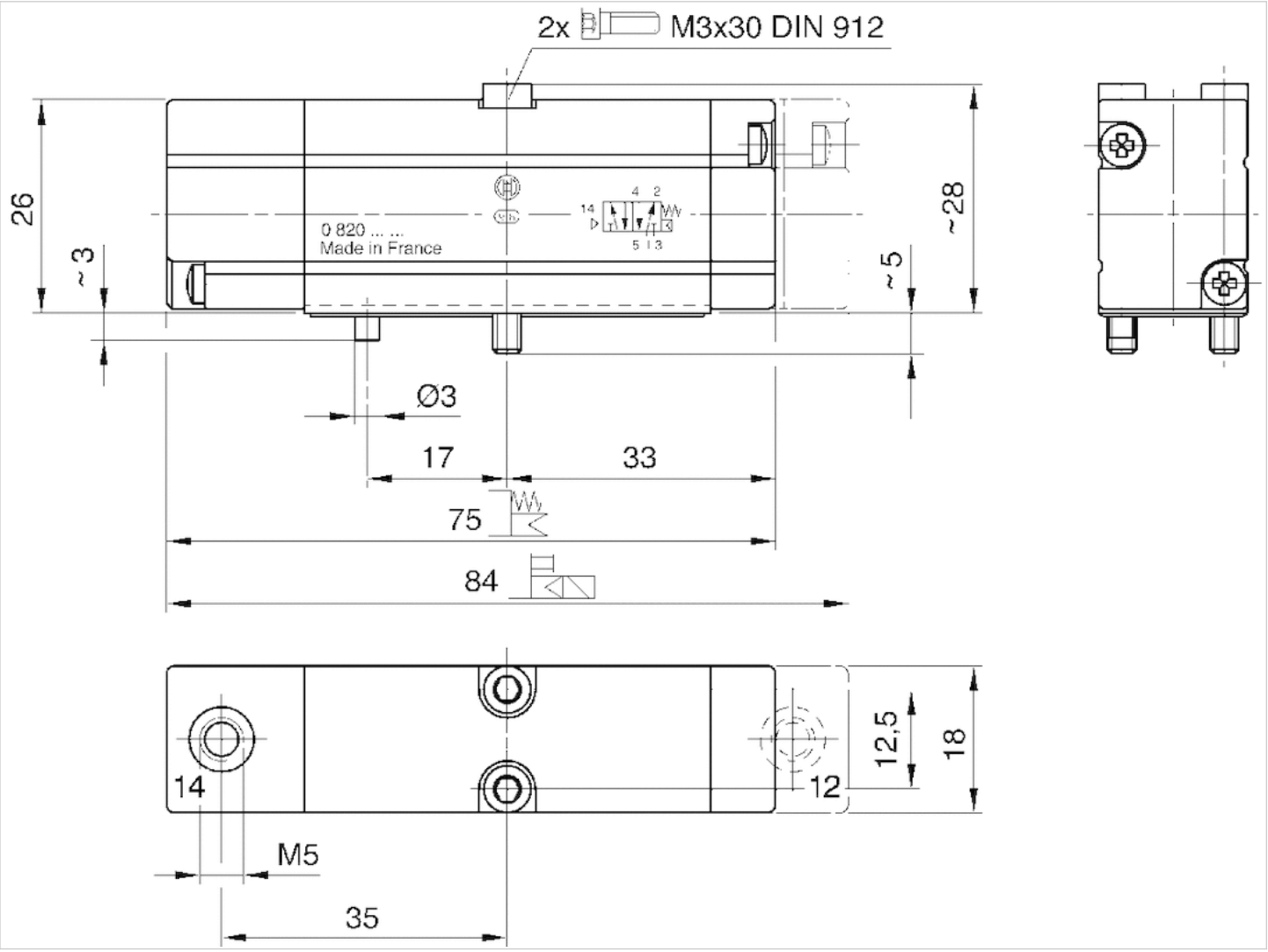
Technical information

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

Front plate	Polyamide

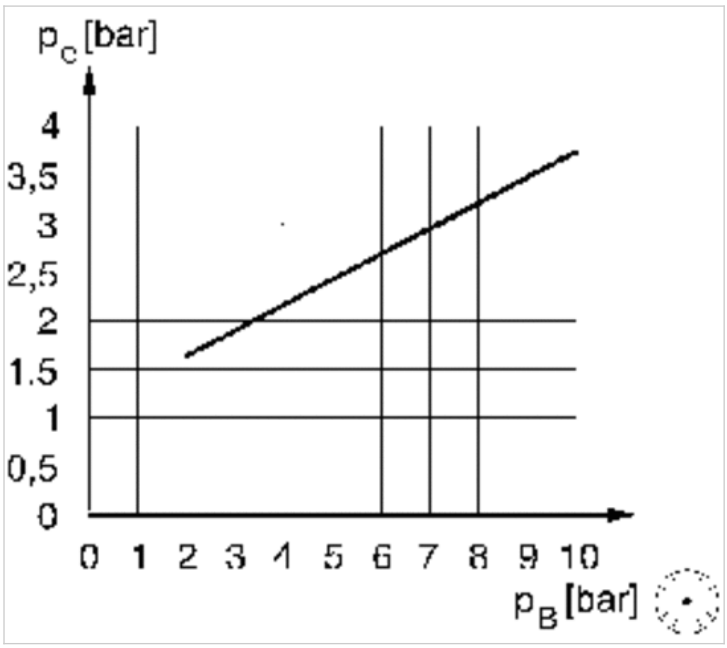
Dimensions

Dimensions



Diagrams

Control pressure for spring/air spring return valves



Pe = external control pressure, min.
P= 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

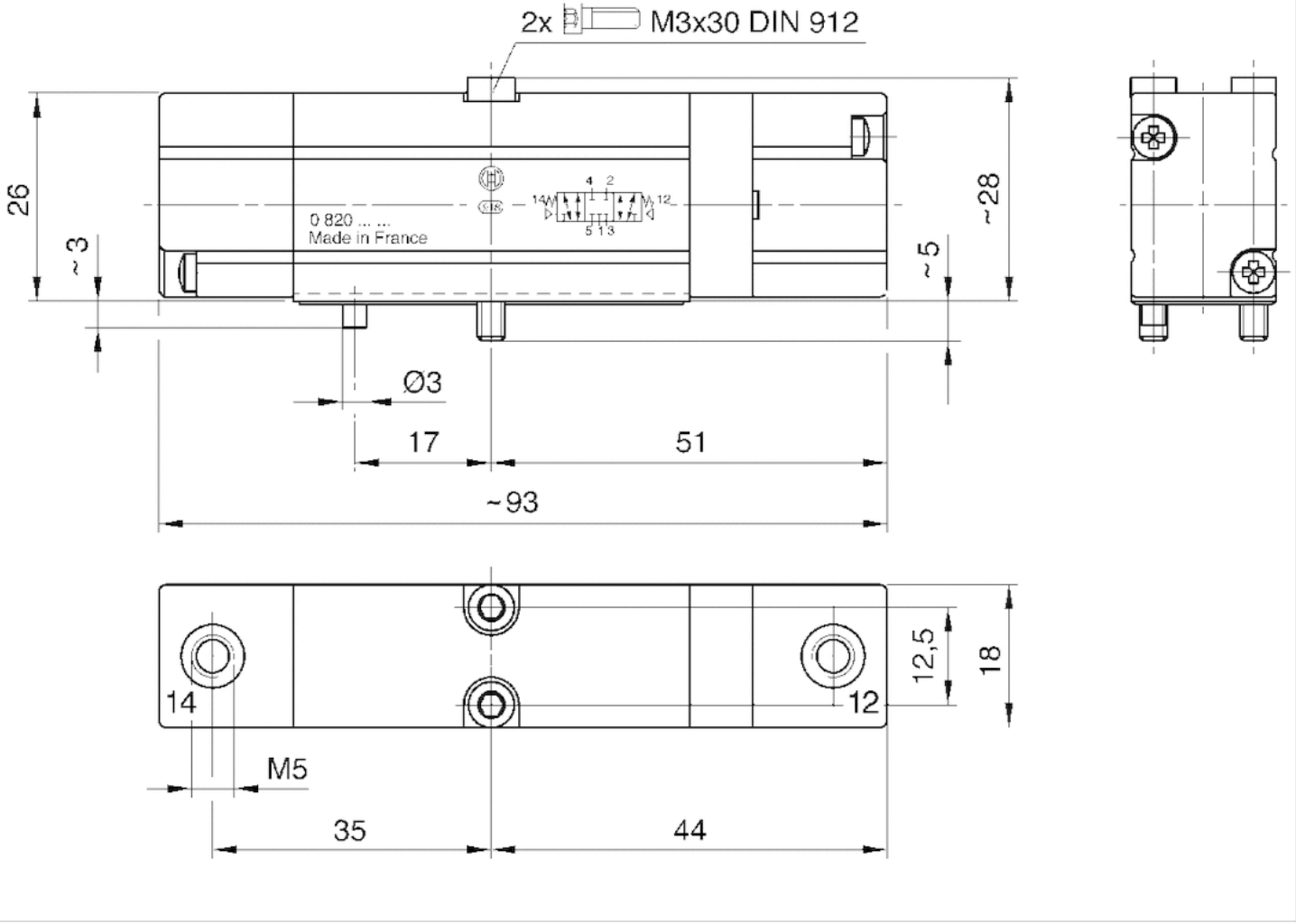
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

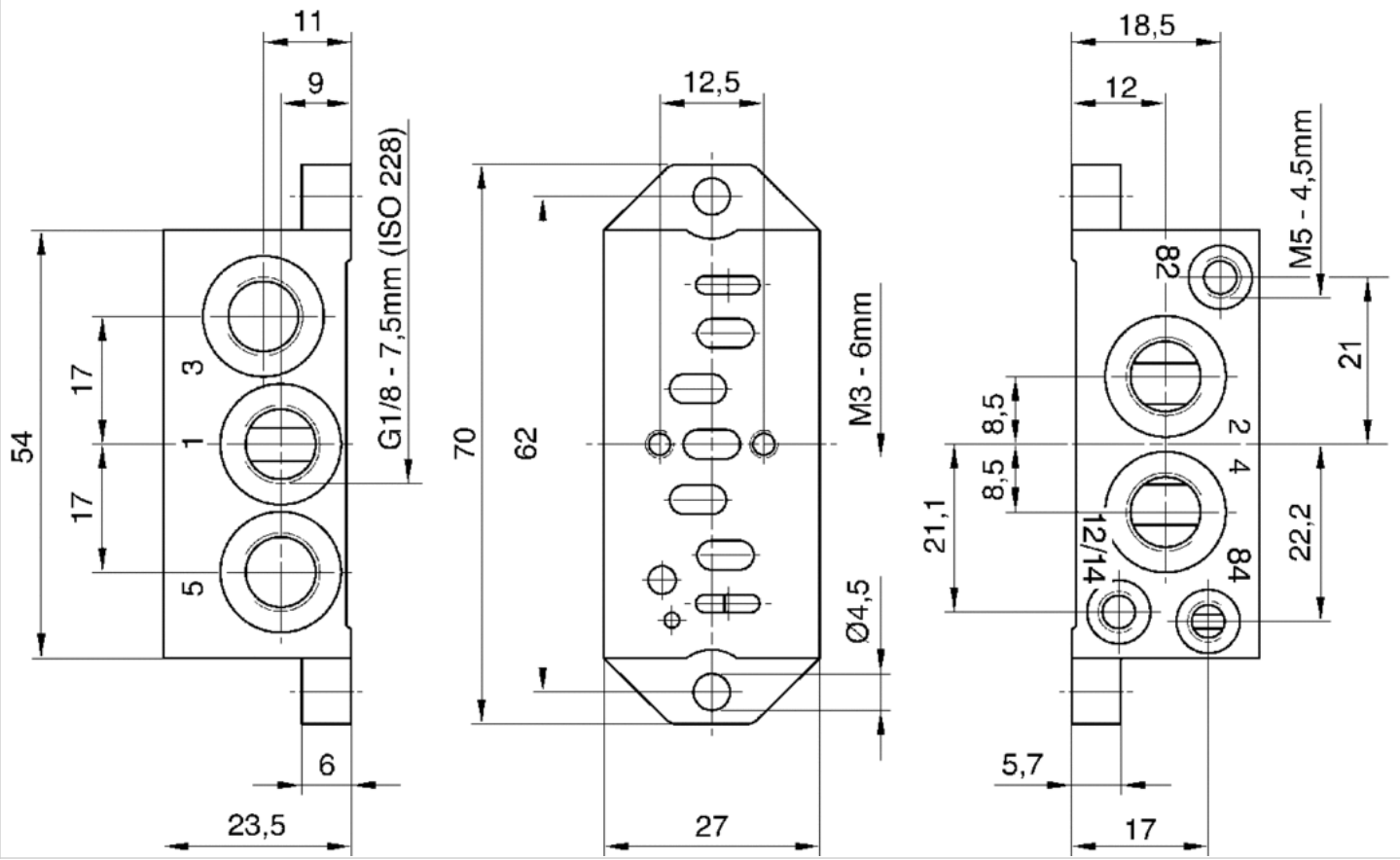
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

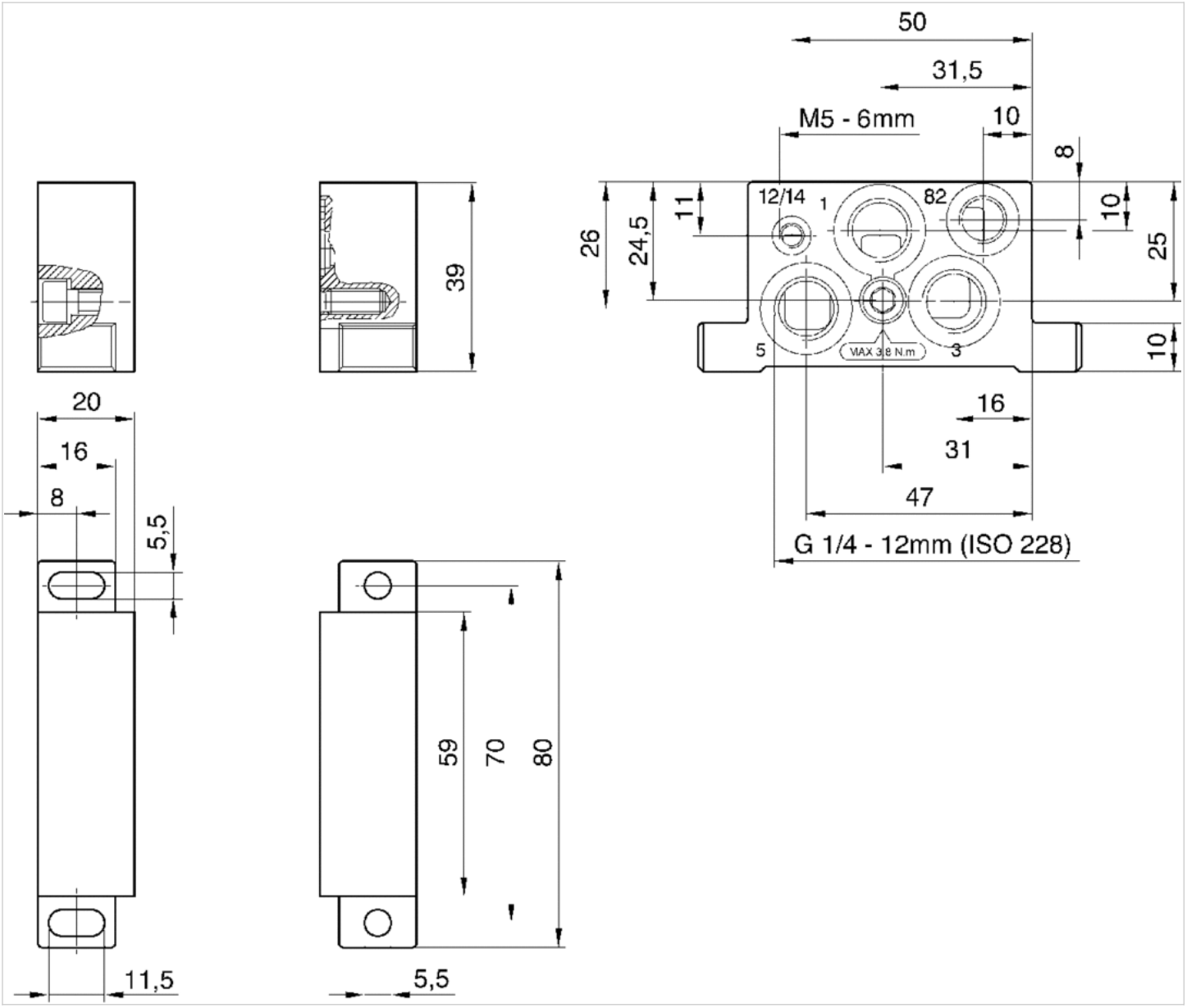
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

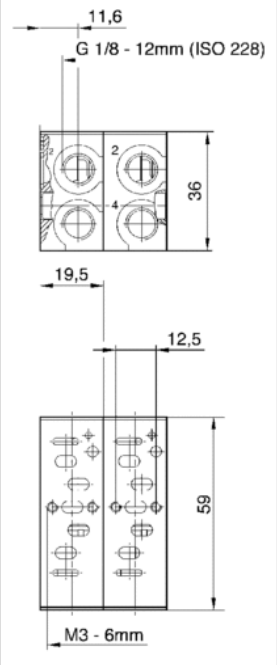
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document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

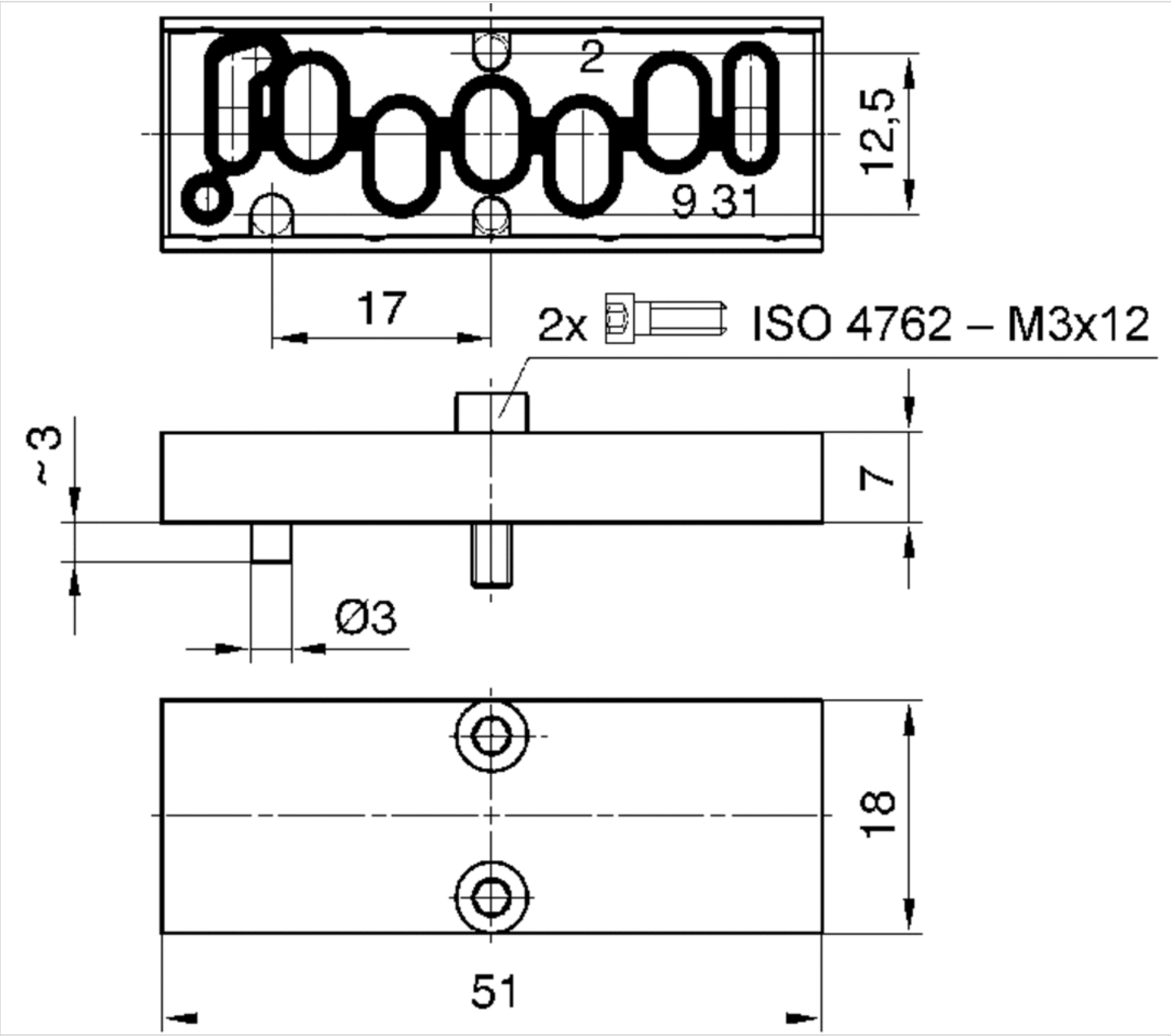
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

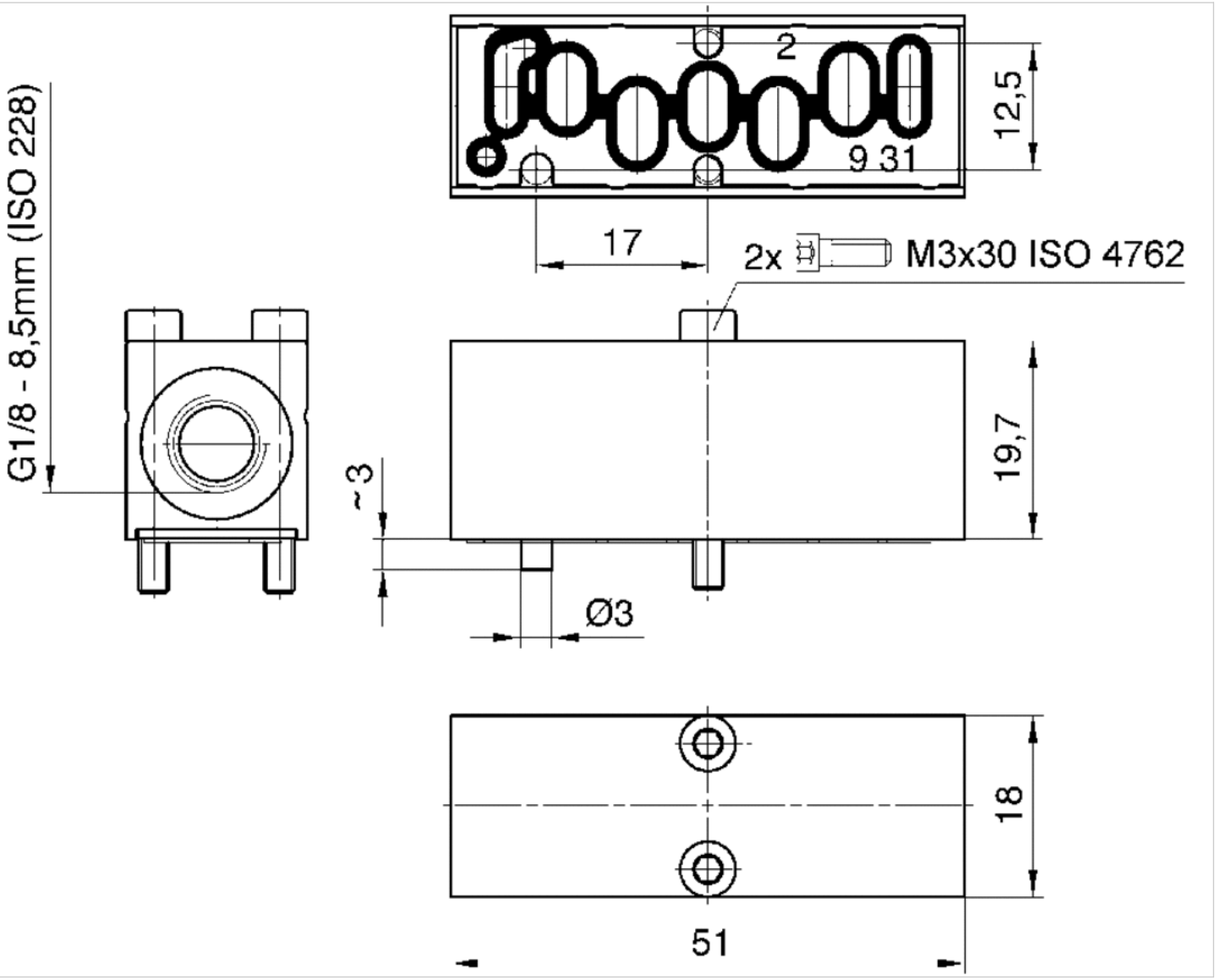
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

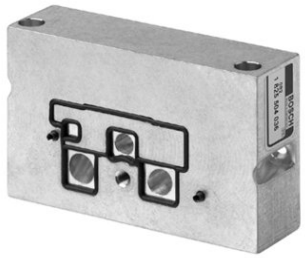
Dimensions

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 ... 80 °C
Medium	Compressed air
Exhaust (3,5)	uncollected exhaust
Exhaust type	Ports separated
Mounting screw	with hexagon socket
Weight	0,311 kg

Technical data

Part No.
1825504036

Scope of delivery incl. seal and mounting screws

Technical information

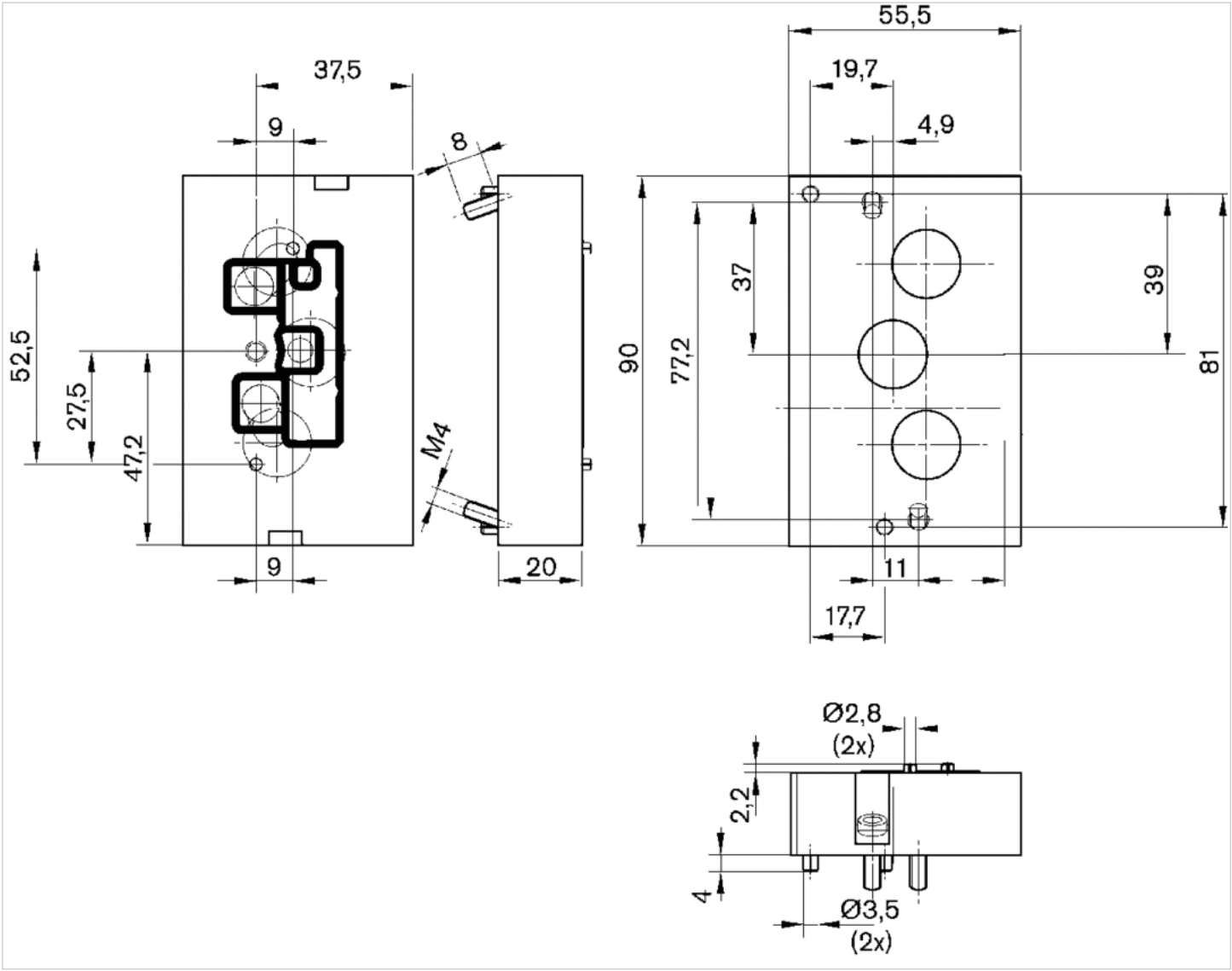
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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	Operationalvoltage	Operationalvoltage	Operationalvoltage
			DC	AC 50 Hz	AC 60 Hz
0820048002			24 V	-	-
0820048004			-	24 V	-
0820048005			-	-	110 V
0820048001			-	230 V	-
0820048026			24 V	-	-
0820048028			-	24 V	-
0820048101			-	230 V	-
0820048029			-	-	110 V
0820048025			-	230 V	-
0820048102			24 V	-	-
0820048126			24 V	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0820048002	-10% / +15%	-	-	2 W
0820048004	-	-10% / +15%	-	-
0820048005	-	-	-10% / +15%	-
0820048001	-	-10% / +15%	-	-
0820048026	-10% / +15%	-	-	2 W
0820048028	-	-10% / +15%	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0820048101	-	-10% / +15%	-	-
0820048029	-	-	-10% / +15%	-
0820048025	-	-10% / +15%	-	-
0820048102	-10% / +15%	-	-	2 W
0820048126	-10% / +15%	-	-	2 W

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Nominal flow 1 ▸ 2
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
0820048002	-	-	-	-	25 l/min
0820048004	1,6 VA	-	2,2 VA	-	25 l/min
0820048005	-	1,4 VA	-	2 VA	25 l/min
0820048001	1,6 VA	-	2,2 VA	-	25 l/min
0820048026	-	-	-	-	25 l/min
0820048028	1,6 VA	-	2,2 VA	-	25 l/min
0820048101	1,6 VA	-	2,2 VA	-	16 l/min
0820048029	-	1,4 VA	-	2 VA	25 l/min
0820048025	1,6 VA	-	2,2 VA	-	25 l/min
0820048102	-	-	-	-	20 l/min
0820048126	-	-	-	-	20 l/min

Part No.	Nominal flow 2 ▸ 3	Working pressure min./max.
0820048002	36 l/min	0 ... 10 bar
0820048004	36 l/min	0 ... 10 bar
0820048005	36 l/min	0 ... 10 bar
0820048001	36 l/min	0 ... 10 bar
0820048026	36 l/min	0 ... 10 bar
0820048028	36 l/min	0 ... 10 bar
0820048101	19 l/min	0 ... 6 bar
0820048029	36 l/min	0 ... 10 bar
0820048025	36 l/min	0 ... 10 bar
0820048102	26 l/min	0 ... 8 bar
0820048126	26 l/min	0 ... 8 bar

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

Technical information

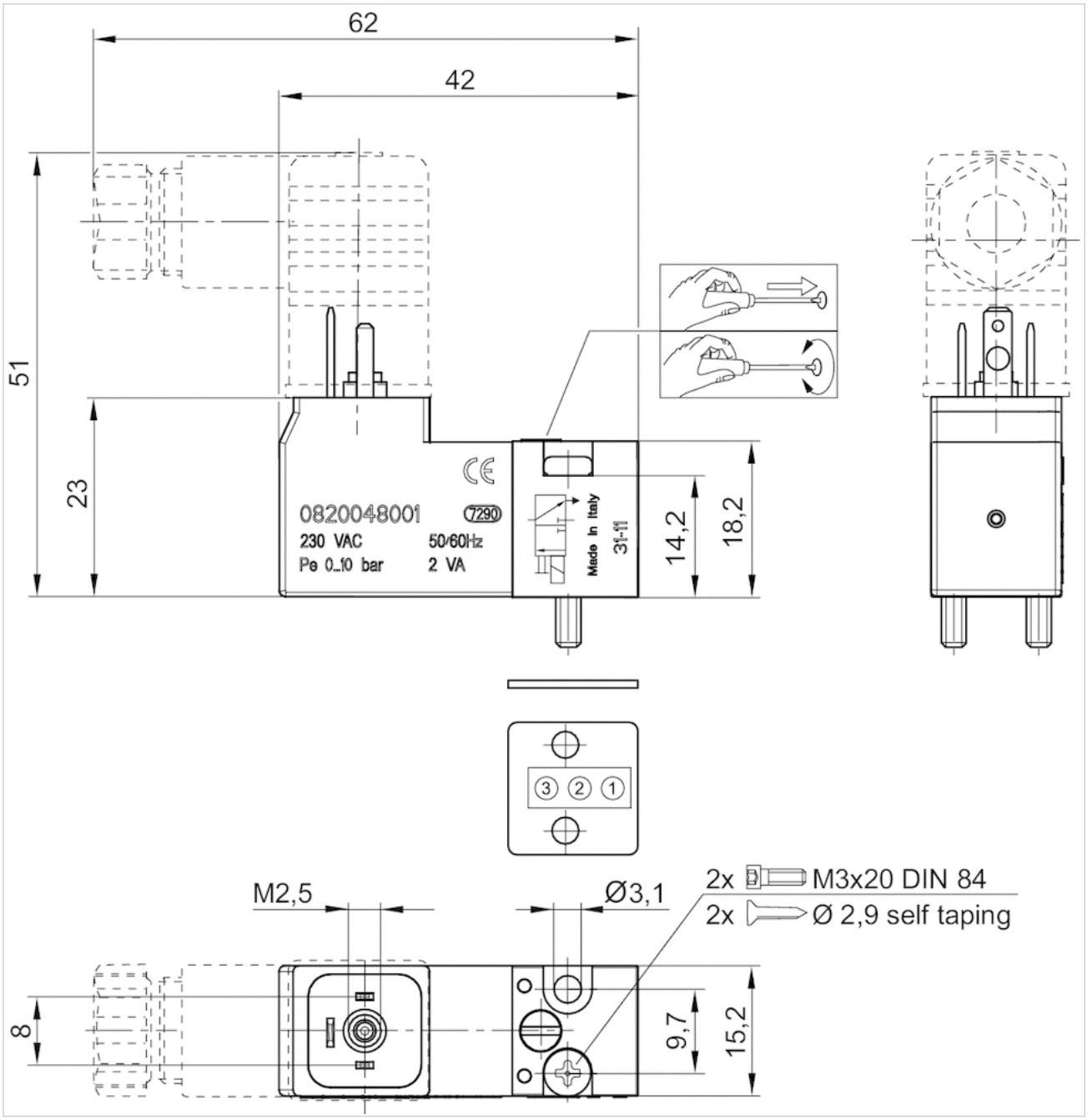
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

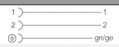


Valve plug connector, series CON-VP

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

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

Technical data

Part No.		Operationalvoltage	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)

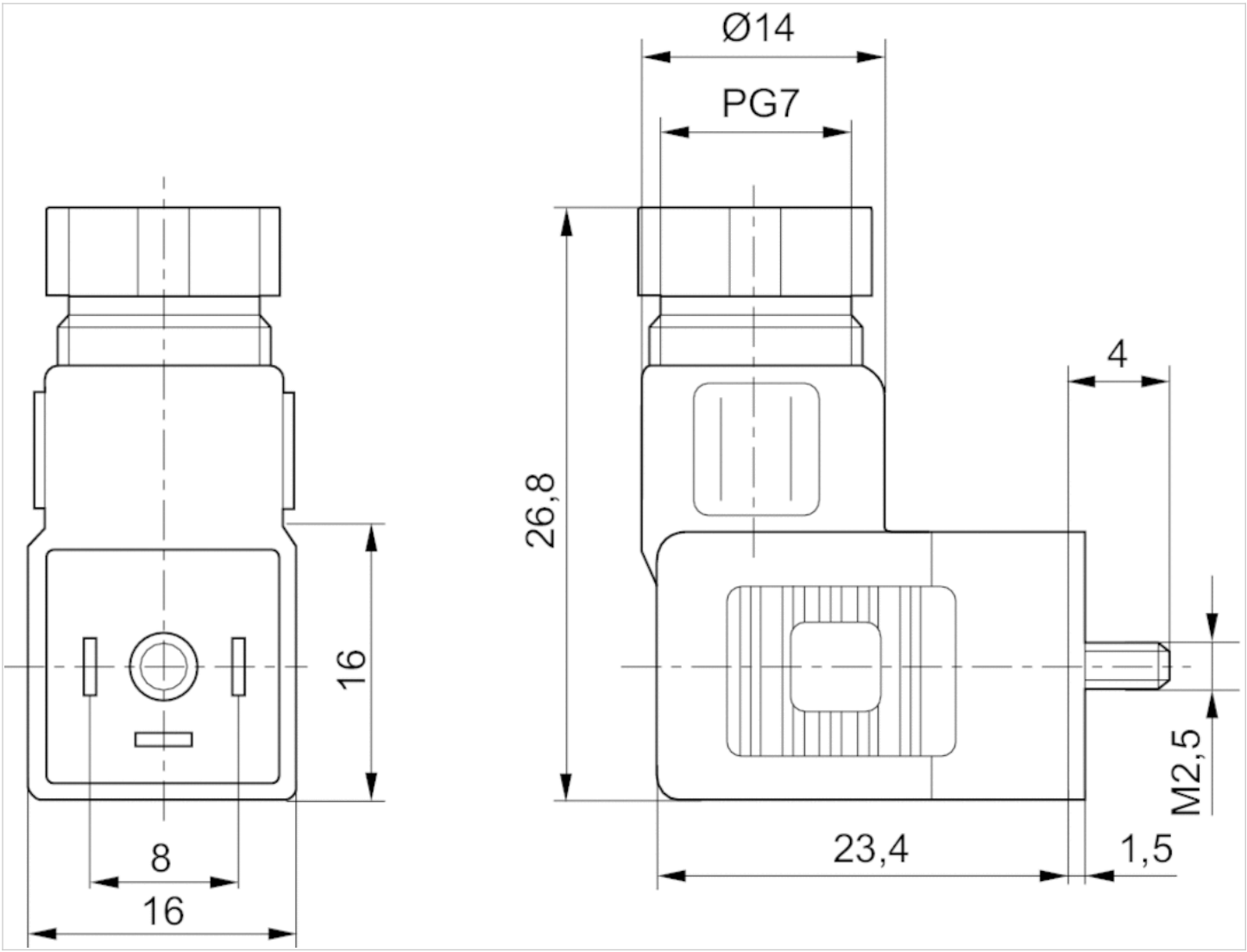
Technical information

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

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

Fig. 3



Dimensions

Fig. 1

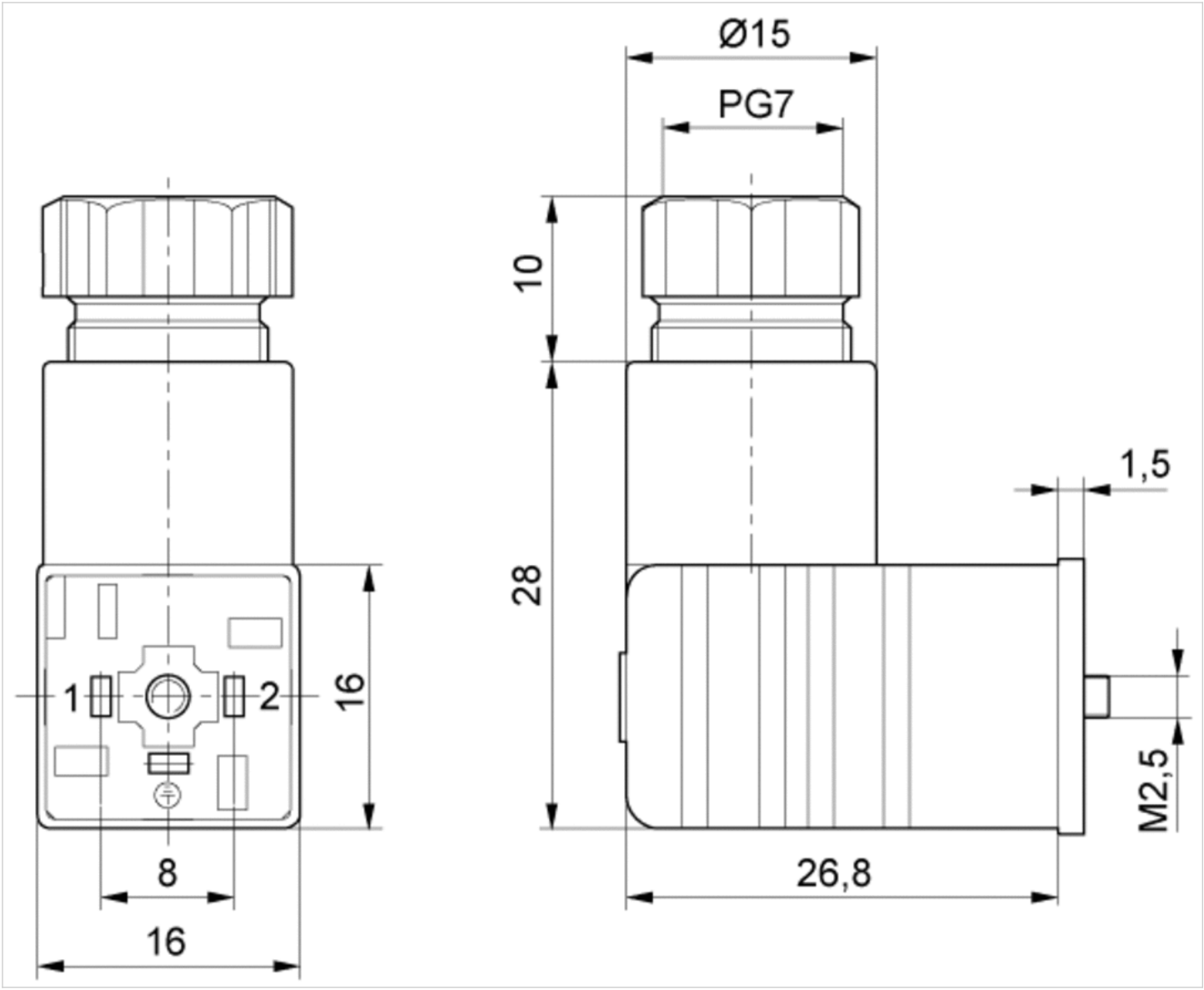
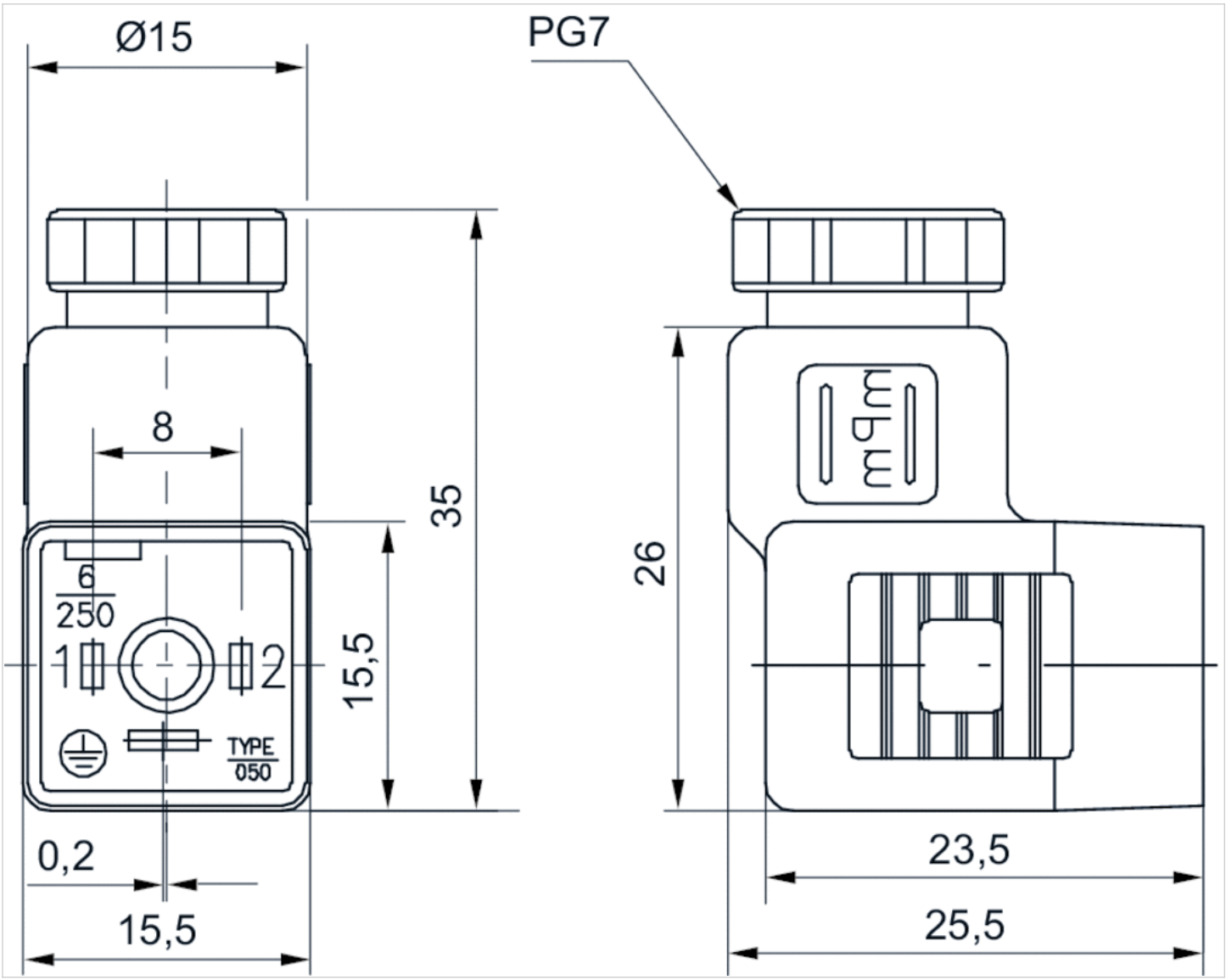


Fig. 2

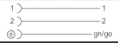


Valve plug connector, series CON-VP

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

Ambient temperature min./max.	-20 ... 80 °C
Operationalvoltage	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.		Operationalvoltage	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

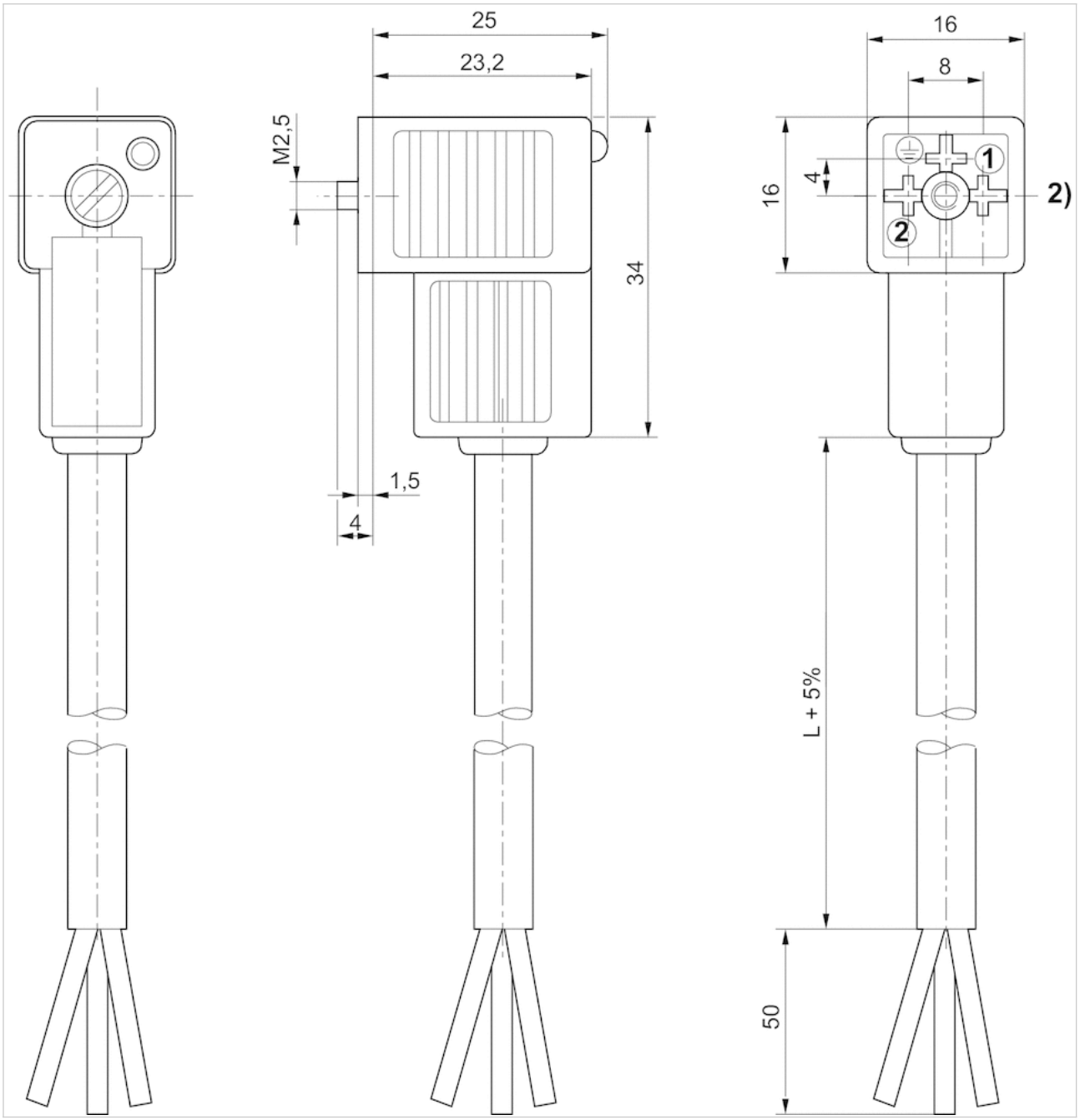
Technical information

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

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

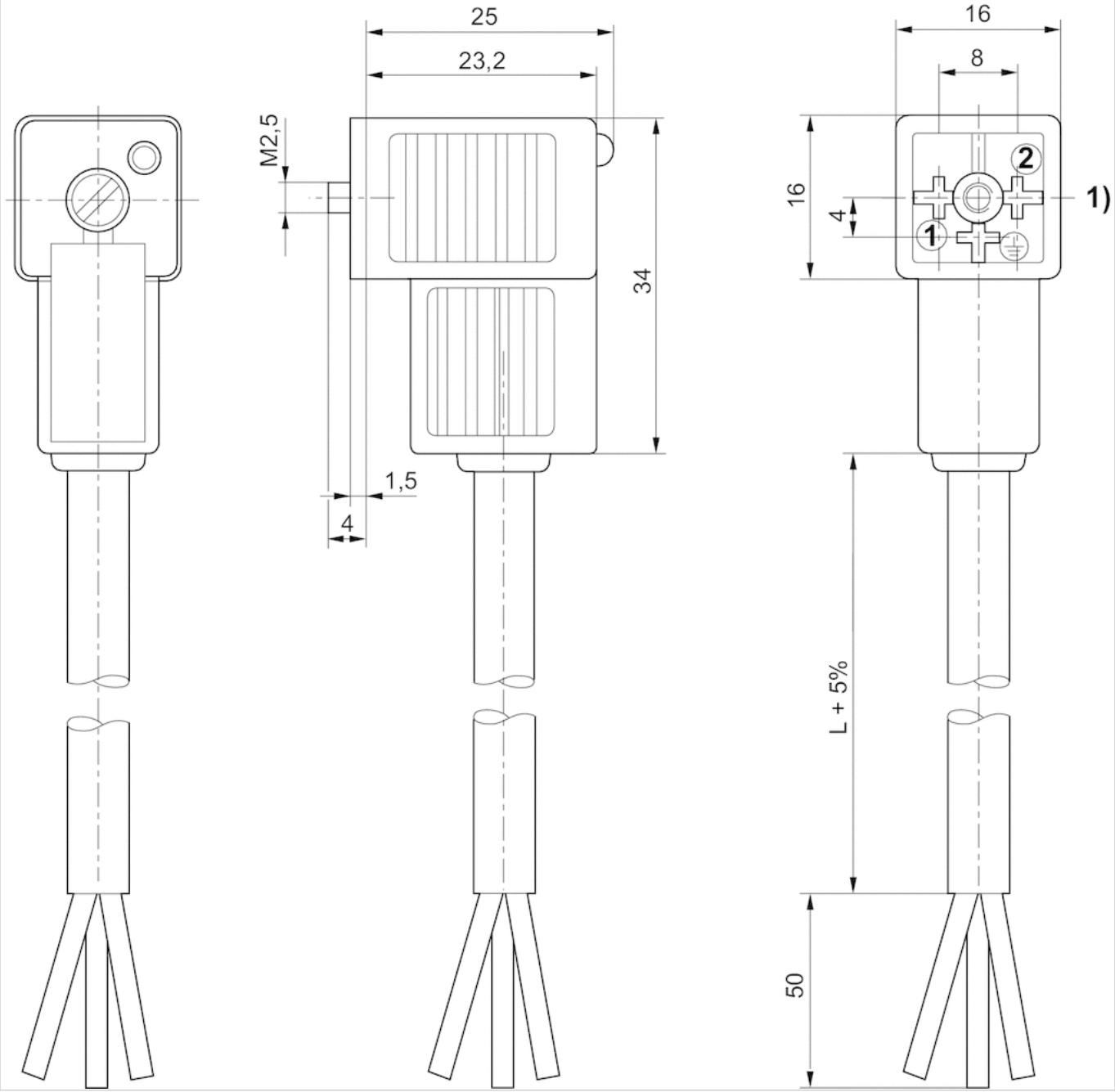
Fig. 2



2) 180° female insert

Dimensions

Fig. 1

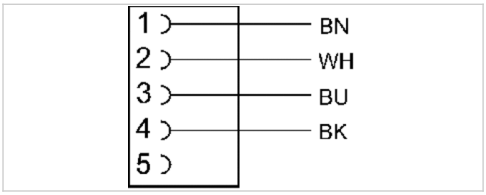


1) 0° female insert

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
Operationalvoltage	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

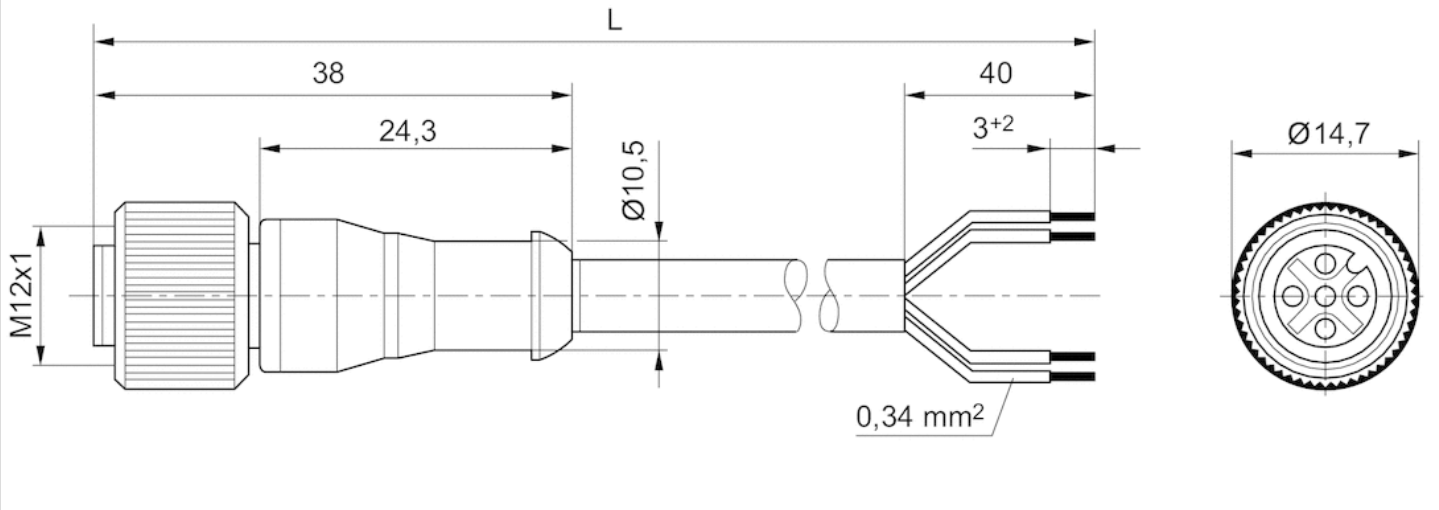
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

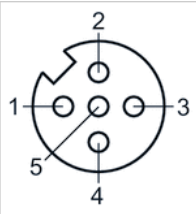
Dimensions



L = length

Pin assignments

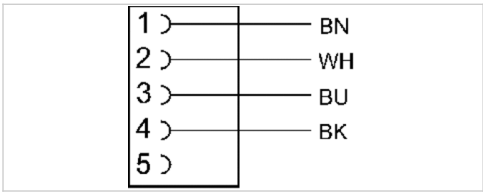
Pin assignment socket



(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
Operationalvoltage	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

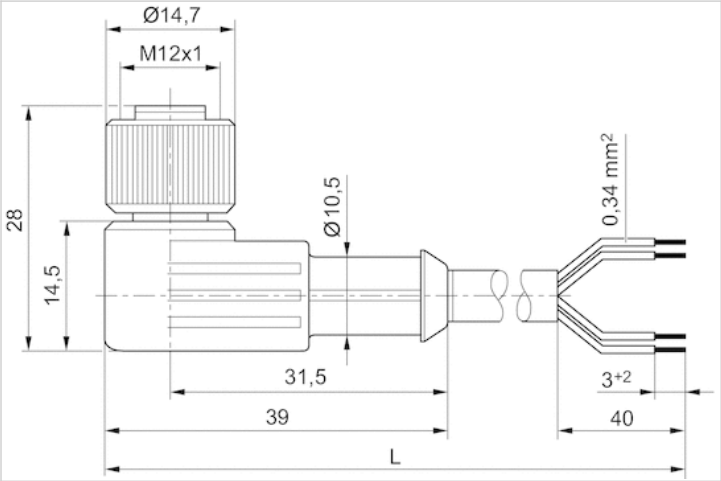
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

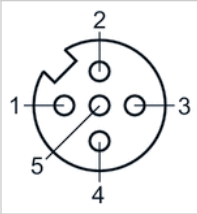
Dimensions



L = length

Pin assignments

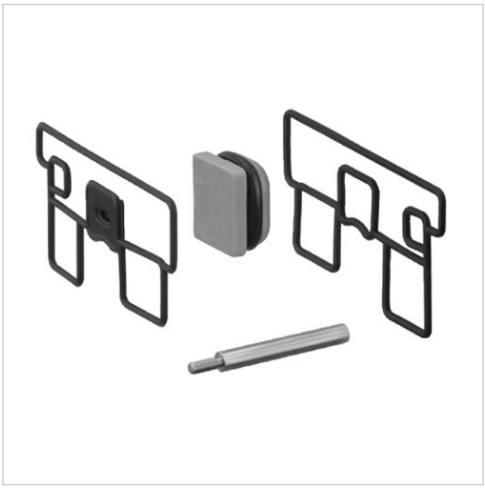
Pin assignment socket



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

Assembly kit

- standard ISO 15407-1
- Frame size 18 mm



Standards	ISO 15407-1
Ambient temperature min./max.	-15 ... 70 °C
Medium	Compressed air
Weight	See table below

Technical data

Part No.	Type	Delivery unit
1823051991	Threaded rods for the assembly of 2 intermediate plates	5 piece
1823051992	Threaded rods for the assembly of 3 intermediate plates	5 piece
1823051993	Threaded rods for the assembly of 5 intermediate plates	5 piece
1821015812	Intermediate plate valve molded seal	10 piece
1821015815	Gasket for intermediate plates, 1 closed, 3 and 5 open	5 piece
1821015817	Gasket for intermediate plates, 1, 3, and 5 open	10 piece
1827003825	Separator for channel 3 + 5	2 piece

Part No.	Weight	Fig.	
1823051991	0,014 kg	-	1)
1823051992	0,022 kg	-	2)
1823051993	0,038 kg	-	3)
1821015812	0,005 kg	-	-
1821015815	0,001 kg	Fig. 2	-
1821015817	0,001 kg	-	-
1827003825	0,06 kg	Fig. 1	-

1) 2 intermediate plates
2) 3 intermediate plates
3) 5 intermediate plates

Technical information

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

Dimensions

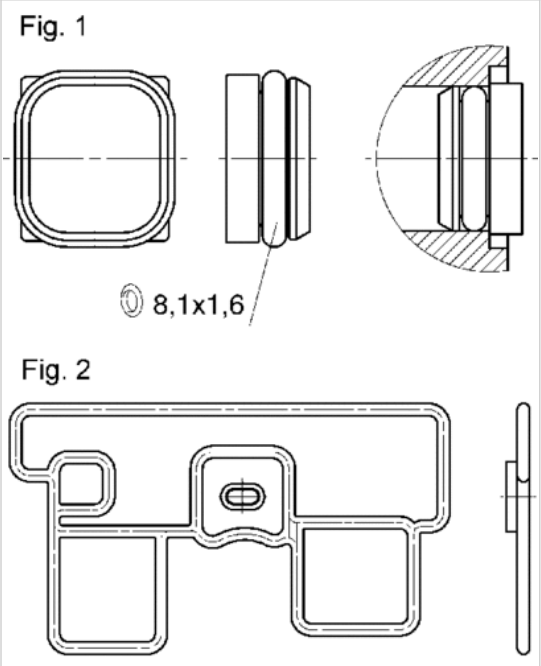


Fig. 1 Separator for channel 3 + 5
Fig. 2 Separating seal for channel 1