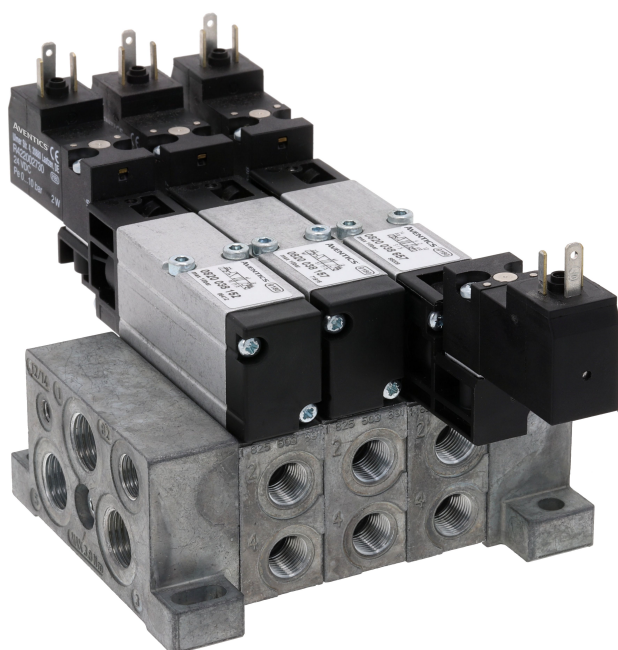


Series CD02-AL



AVENTICS™

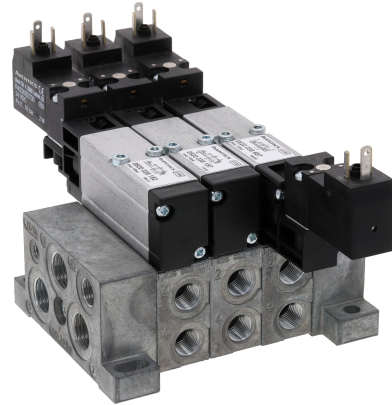
AVENTICS Series CD02-AL
Standardized valve systems
(ISO 15407-1)


EMERSON™

AVENTICS Series CD02-AL Standardized valve systems (ISO 15407-1)

The AVENTICS Series CD02-AL complies with ISO 15407-1. The piloted controlled valves with a flow rate of up to 650 l/min consist of a robust aluminium body and are available with an individual connection plate as well as a valve system.

- Standardized valve system with size of 18 mm
- High flexibility and functionality
- Easy and flexible custom specific configurations via online configurator
- A combination with Series CD01-PA possible



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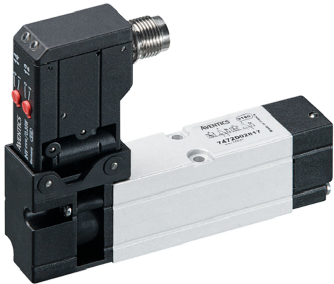
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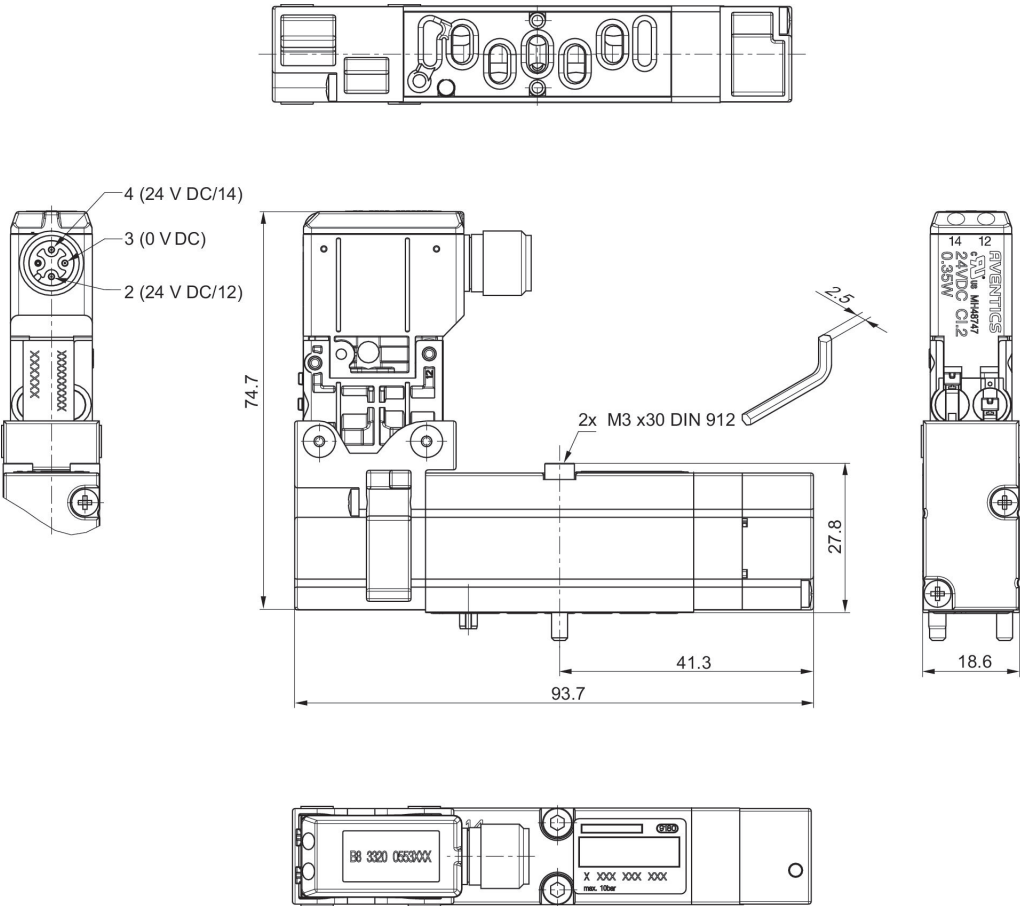
2 x 3/2-directional valve, Series CD02-AL, M12

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar



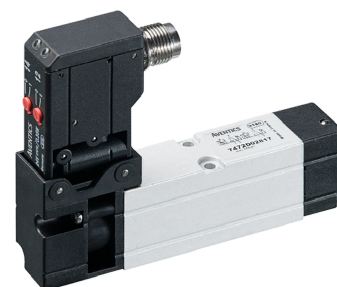
Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2x 3/2 NC/ NC, with spring re- turn	2.5	10	24 V	-15 % / +20 %	0.35	13	25	Internal	with de- tent	7472D02820
2x 3/2 NC/ NC, with spring re- turn	-0.8	10	24 V	-15 % / +20 %	0.35	13	25	External	with de- tent	7472D02826
2x 3/2 NO/ NO, with spring re- turn	2.5	10	24 V	-15 % / +20 %	0.35	12	20	Internal	with de- tent	7472D02821
2x 3/2 NO/ NO, with spring re- turn	-0.8	10	24 V	-15 % / +20 %	0.35	12	20	External	with de- tent	7472D02827
2x 3/2 NO/ NC, with spring re- turn	2.5	10	24 V	-15 % / +20 %	0.35	13	25	Internal	with de- tent	7472D02822
2x 3/2 NO/ NC, with spring re- turn	-0.8	10	24 V	-15 % / +20 %	0.35	12	25	External	with de- tent	7472D02828

Dimensions



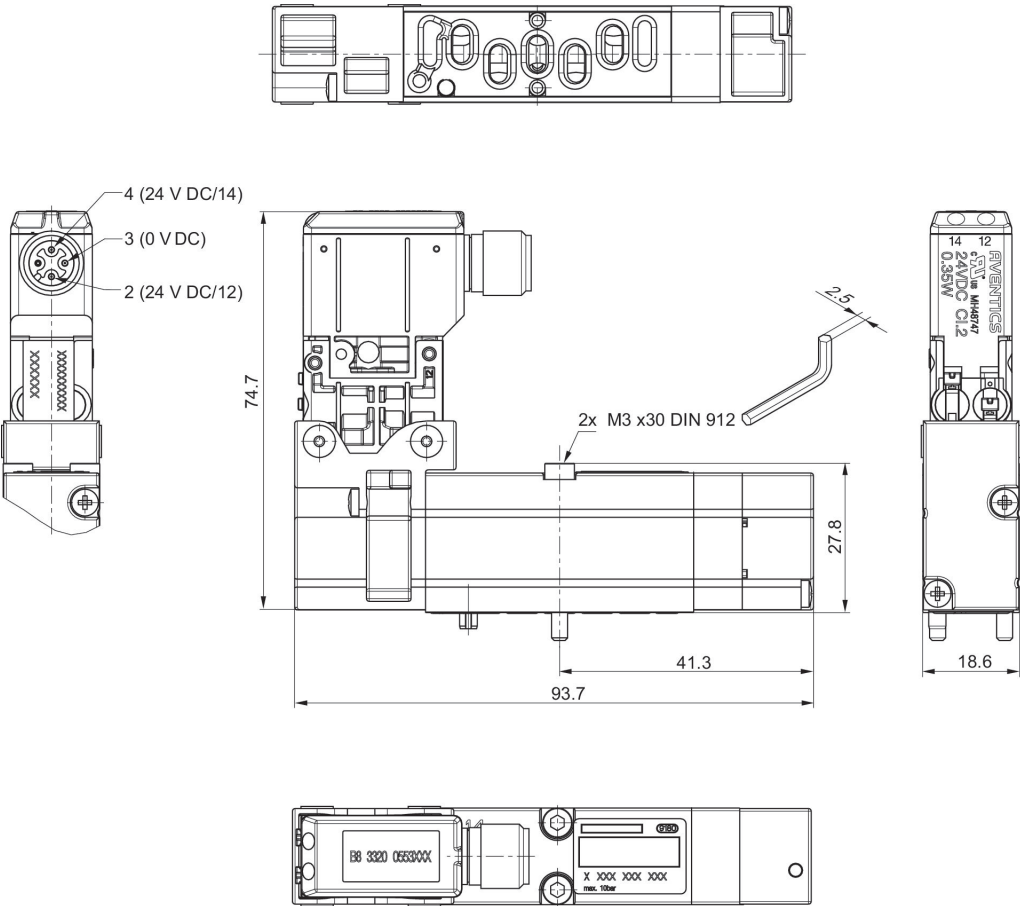
2 x 3/2-directional valve, Series CD02-AL, M12

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar



Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2x 3/2 NC/NC, with spring return	2.5	10	24 V	-15 % / +20 %	0.35	13	25	Internal	without detent	7472D02817
2x 3/2 NC/NC, with spring return	-0.8	10	24 V	-15 % / +20 %	0.35	13	25	External	without detent	7472D02823
2x 3/2 NO/NO, with spring return	2.5	10	24 V	-15 % / +20 %	0.35	12	20	Internal	without detent	7472D02818
2x 3/2 NO/NO, with spring return	-0.8	10	24 V	-15 % / +20 %	0.35	12	20	External	without detent	7472D02824
2x 3/2 NO/NC, with spring return	2.5	10	24 V	-15 % / +20 %	0.35	13	25	Internal	without detent	7472D02819
2x 3/2 NO/NC, with spring return	-0.8	10	24 V	-15 % / +20 %	0.35	12	25	External	without detent	7472D02825

Dimensions



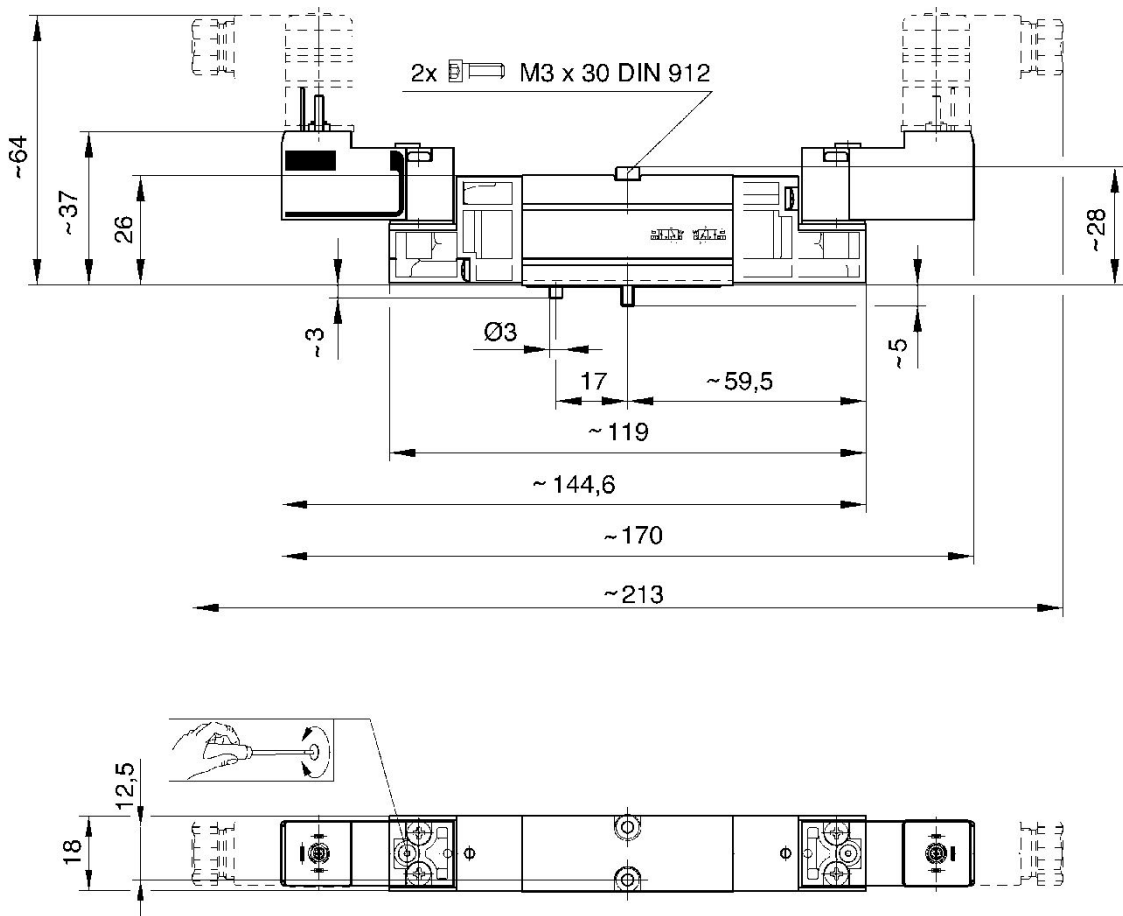
2 x 3/2-directional valve, Series CD02-AL, form C

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: 2.2 bar
Max. working pressure: 10 bar



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2.2	10		24 V	24 V			12	24	Internal	with detent	0820037304
2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	with detent	0820037302
2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	with detent	0820037303
2.2	10		110 V	110 V			12	24	Internal	with detent	0820037305
2.2	10		230 V	230 V			12	24	Internal	with detent	0820037301
2.2	10		24 V	24 V			12	24	Internal	with detent	0820037328
2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	with detent	0820037326
2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	with detent	0820037327
2.2	10		110 V	110 V			12	24	Internal	with detent	0820037329
2.2	10		230 V	230 V			12	24	Internal	with detent	0820037325
2.2	10		24 V	24 V			12	24	Internal	with detent	0820037353
2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	with detent	0820037351
2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	with detent	0820037352
2.2	10		110 V	110 V			12	24	Internal	with detent	0820037354
2.2	10		230 V	230 V			12	24	Internal	with detent	0820037350

Dimensions



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

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: 2.2 bar
Max. working pressure: 10 bar

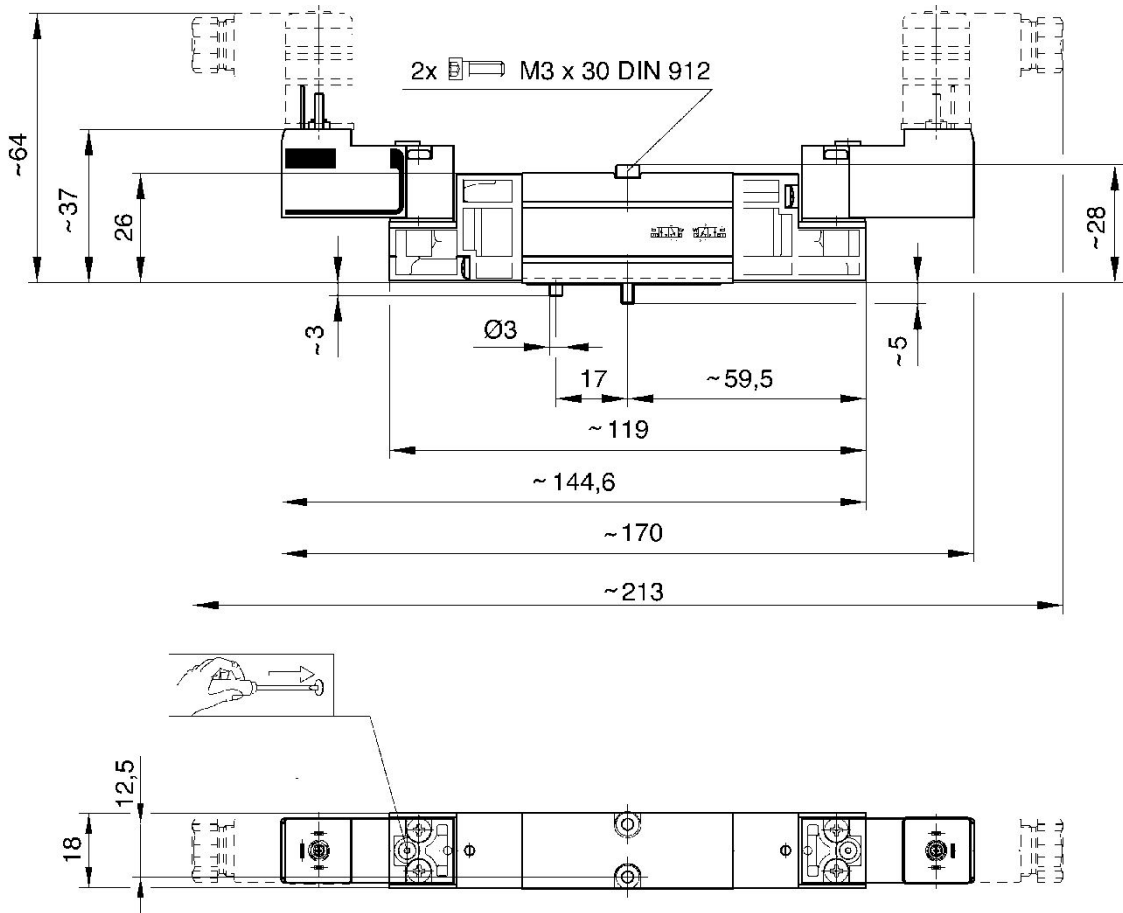


Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2x 3/2 NC/NC, with spring return	2.2	10		24 V	24 V			12	24	Internal	without detent	0820037204
2x 3/2 NC/NC, with spring return	2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	without detent	0820037202
2x 3/2 NC/NC, with spring return	2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	without detent	0820037203
2x 3/2 NC/NC, with spring return	2.2	10		110 V	110 V			12	24	Internal	without detent	0820037205
2x 3/2 NC/NC, with spring return	2.2	10		230 V	230 V			12	24	Internal	without detent	0820037201
2x 3/2 NC/NC, with spring return	2.2	10								Internal		0820037904
2x 3/2 NO/NO, with spring return	2.2	10		24 V	24 V			12	24	Internal	without detent	0820037228
2x 3/2 NO/NO, with	2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	without detent	0820037226

Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
spring return												
2x 3/2 NO/NO, with spring return	2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	without detent	0820037227
2x 3/2 NO/NO, with spring return	2.2	10		110 V	110 V			12	24	Internal	without detent	0820037229
2x 3/2 NO/NO, with spring return	2.2	10		230 V	230 V			12	24	Internal	without detent	0820037225
2x 3/2 NO/NO, with spring return	2.2	10								Internal		0820037905
2x 3/2 NO/NC, with spring return	2.2	10		24 V	24 V			12	24	Internal	without detent	0820037253
2x 3/2 NO/NC, with spring return	2.2	10	24 V			-10 % / +10 %	2	12	24	Internal	without detent	0820037251
2x 3/2 NO/NC, with spring return	2.2	10	24 V			-10 % / +10 %	1	12	24	Internal	without detent	0820037252
2x 3/2 NO/NC, with spring return	2.2	10		110 V	110 V			12	24	Internal	without detent	0820037254
2x 3/2 NO/NC, with spring return	2.2	10		230 V	230 V			12	24	Internal	without detent	0820037250
2x 3/2 NO/NC, with spring return	2.2	10								Internal	without detent	0820037906
2x 3/2 NC/NC, with spring return	2.2	10								External	without detent	0820037907

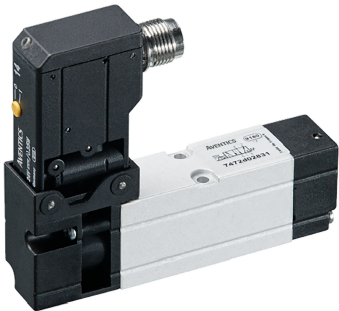
Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2x 3/2 NO/NO, with spring return	2.2	10								External	without detent	0820037908
2x 3/2 NO/NC, with spring return	2.2	10								External	without detent	0820037909

Dimensions



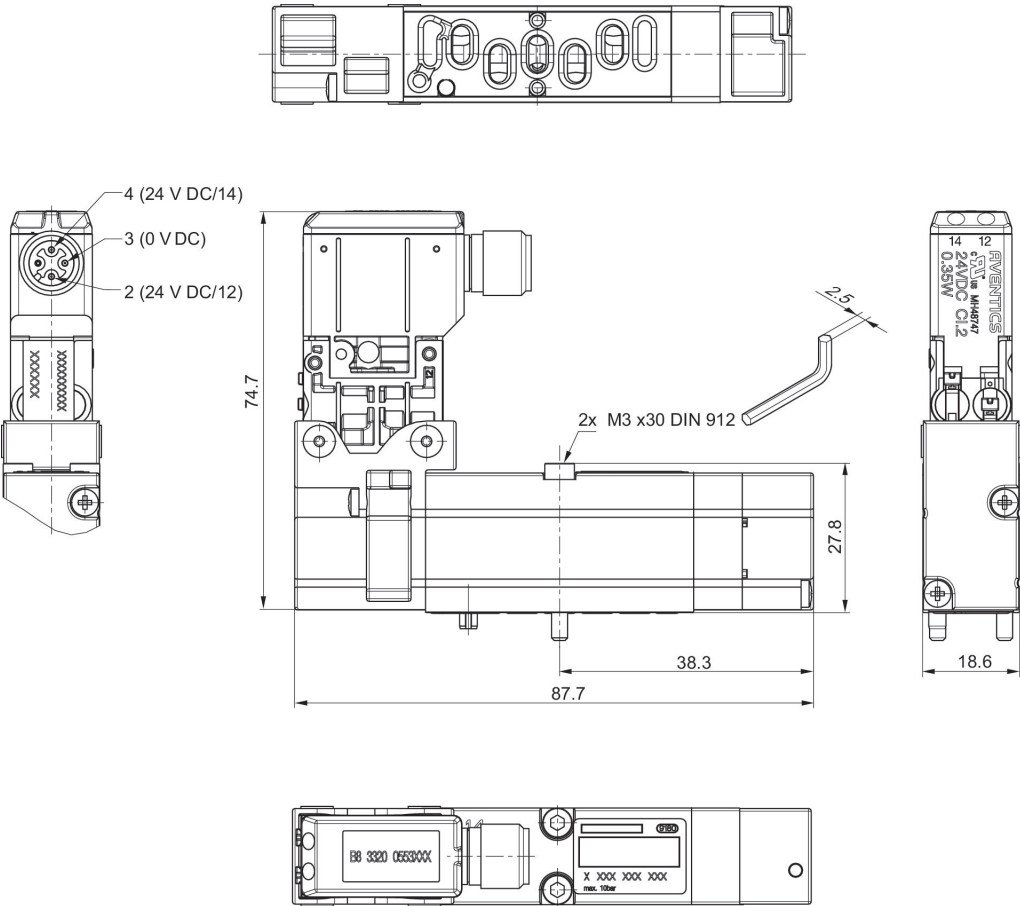
5/2-directional valve, Series CD02-AL, M12

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar



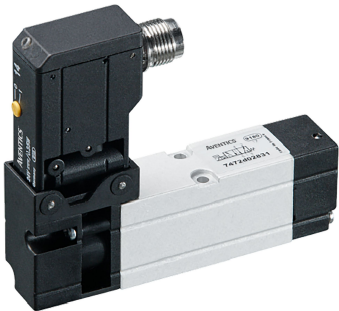
Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
2.5	10	24 V	-15 % / +20 %	0.35	12	21	Internal	without detent	with spring/air spring return	R422000306
-0.8	10	24 V	-15 % / +20 %	0.35	12	21	External	without detent	with spring/air spring return	7472D02833
2.5	10	24 V	-15 % / +20 %	0.35	14	14	Internal	without detent	with spring/air spring return	R422000307
-0.8	10	24 V	-15 % / +20 %	0.35	14	14	External	without detent	with spring/air spring return	7472D02834

Dimensions



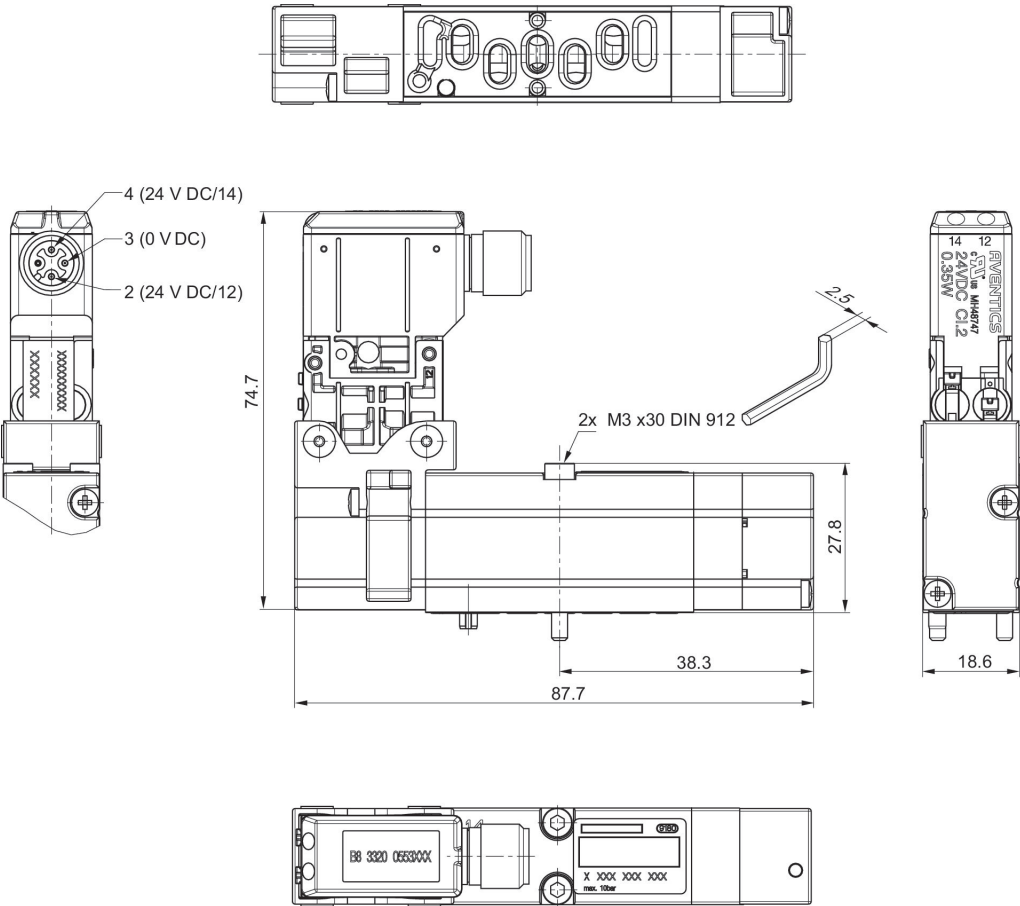
5/2-directional valve, Series CD02-AL, M12

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
2.5	10	24 V	-15 % / +20 %	0.35	14	14	Internal	with detent	with spring/air spring return	7472D02832
-0.8	10	24 V	-15 % / +20 %	0.35	14	14	External	with detent	with spring/air spring return	7472D02836
2.5	10	24 V	-15 % / +20 %	0.35	12	21	Internal	with detent	with spring/air spring return	7472D02831
-0.8	10	24 V	-15 % / +20 %	0.35	12	21	External	with detent	with spring/air spring return	7472D02835

Dimensions



5/2-directional valve, Series CD02-AL, G 1/8

Flow: 450 l/min

Activation: Electrically

Standards: ISO 15407-1

Coil width: 15 mm

Electrical connection 2, thread size: ISO 15217, form C

Compressed air connection type: Base plate connection

Compressed air connection input: VDMA 02 base plate

Compressed air connection output: VDMA 02 base plate

Max. control pressure: 10 bar

Pilot valve width: 15 mm

Duty cycle: 100 %

Type: Spool valve, positive overlapping

Min. ambient temperature: 0 °C

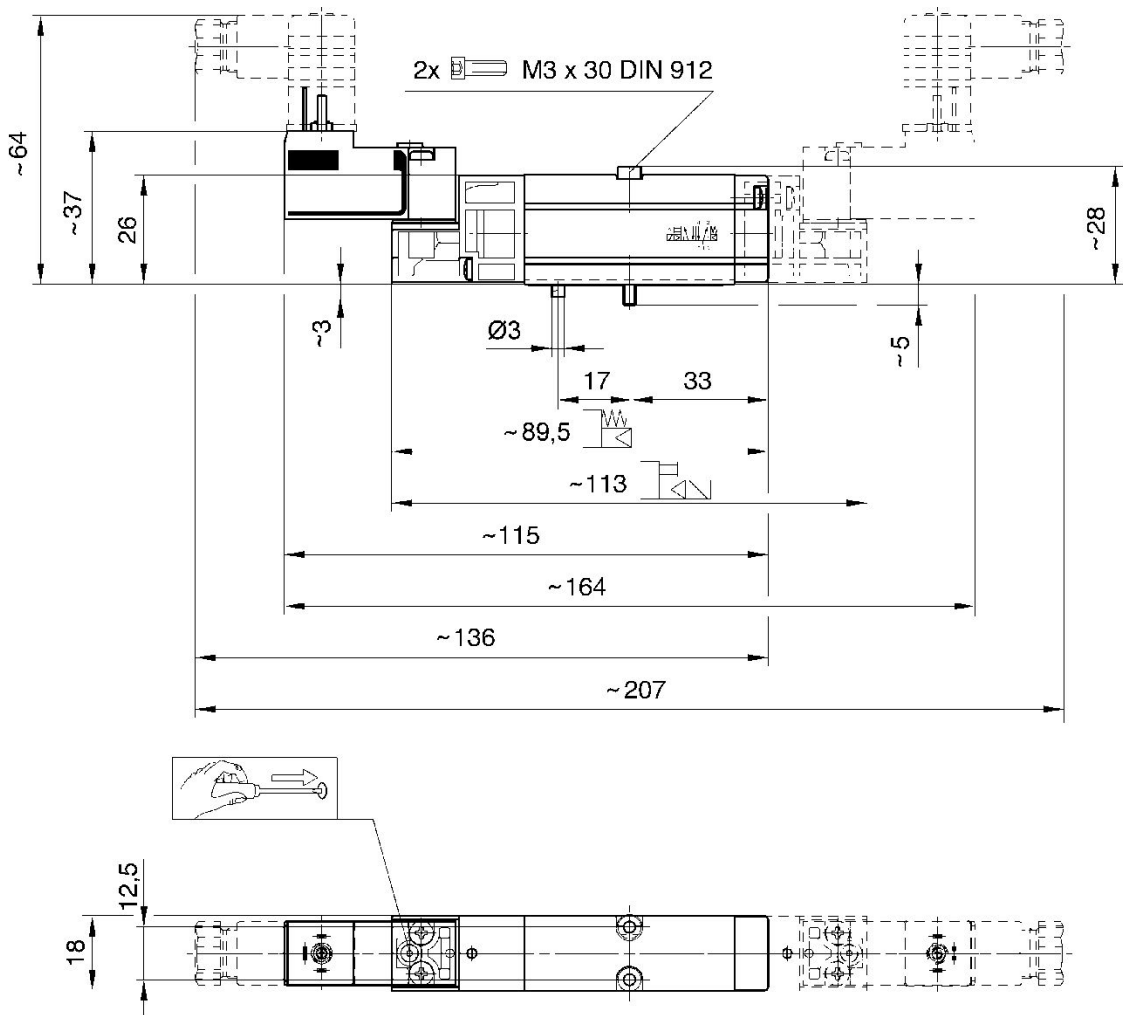
Max. ambient temperature: 50 °C



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
2	10		24 V	24 V			11	14	Internal	with de- tent	with spring/ air spring return	0820038178
2	10	24 V			-10 % / +10 %	2	11	14	Internal	with de- tent	with spring/ air spring return	0820038176
2	10	24 V			-10 % / +10 %	1	12	16	Internal	with de- tent	with spring/ air spring return	0820038177
2	10		110 V	110 V			11	14	Internal	with de- tent	with spring/ air spring return	0820038179
2	10		230 V	230 V			11	14	Internal	with de- tent	with spring/ air spring return	0820038175
2	10								Internal		with spring/ air spring return	0820038955
1.5	10		24 V	24 V			8	8	Internal	with de- tent	with spring/ air spring return	0820038678
1.5	10	24 V			-10 % / +10 %	2	8	8	Internal	with de- tent	with spring/ air spring return	0820038676

Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
1.5	10	24 V			-10 % / +10 %	1	10	10	Internal	with de-tent	with spring/air spring return	0820038677
1.5	10		110 V	110 V			8	8	Internal	with de-tent	with spring/air spring return	0820038679
1.5	10		230 V	230 V			8	8	Internal	with de-tent	with spring/air spring return	0820038675
1.5	10								Internal		with spring/air spring return	0820038957

Dimensions



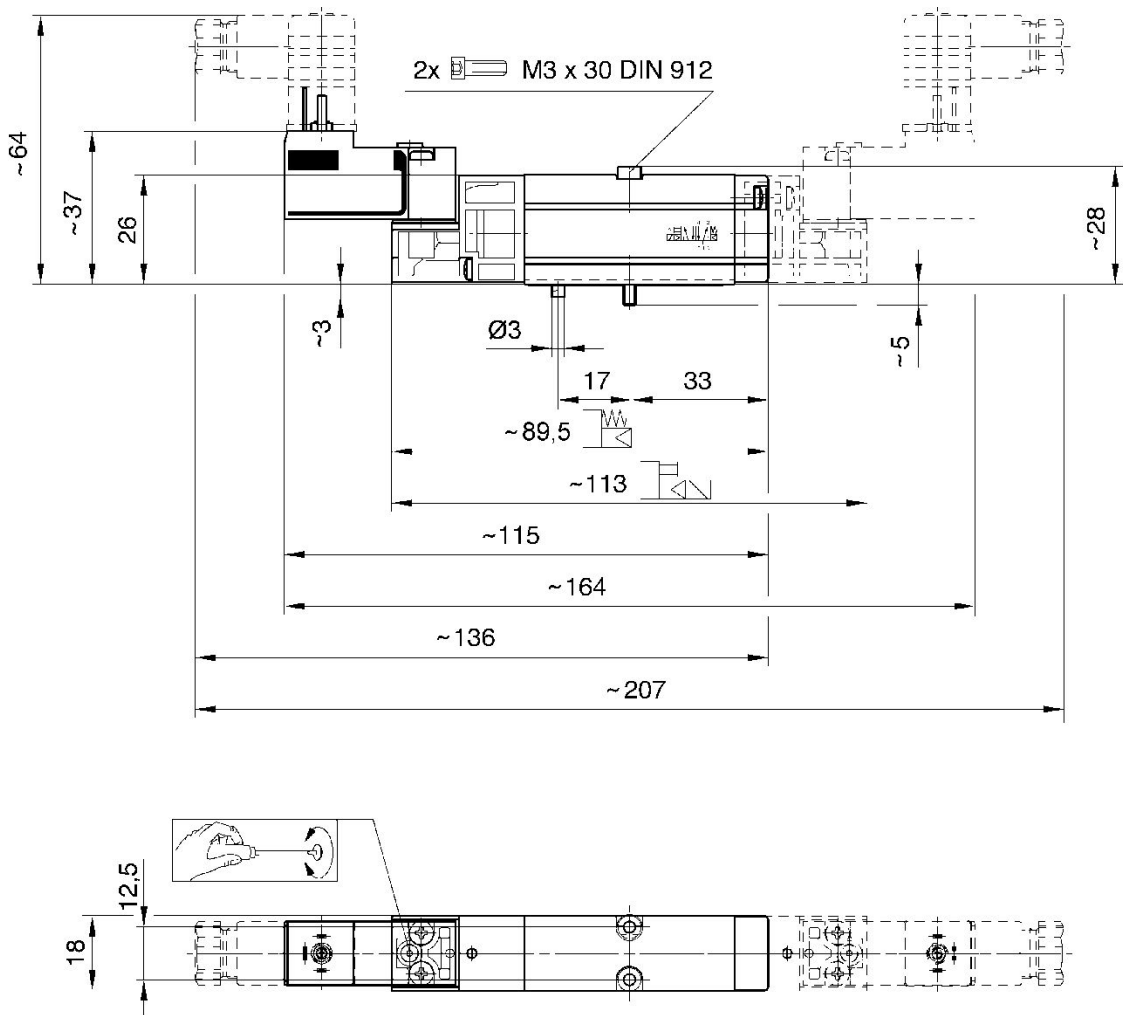
5/2-directional valve, Series CD02-AL, G 1/8

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: -0.9 bar



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
-0.9	10	24 V	-10 % / +10 %	2	11	14	External	with de-tent	with spring/air spring return	0820038181
-0.9	10	24 V	-10 % / +10 %	2	8	10	External	with de-tent	with spring/air spring return	0820038681

Dimensions



5/2-directional valve, Series CD02-AL, G 1/8

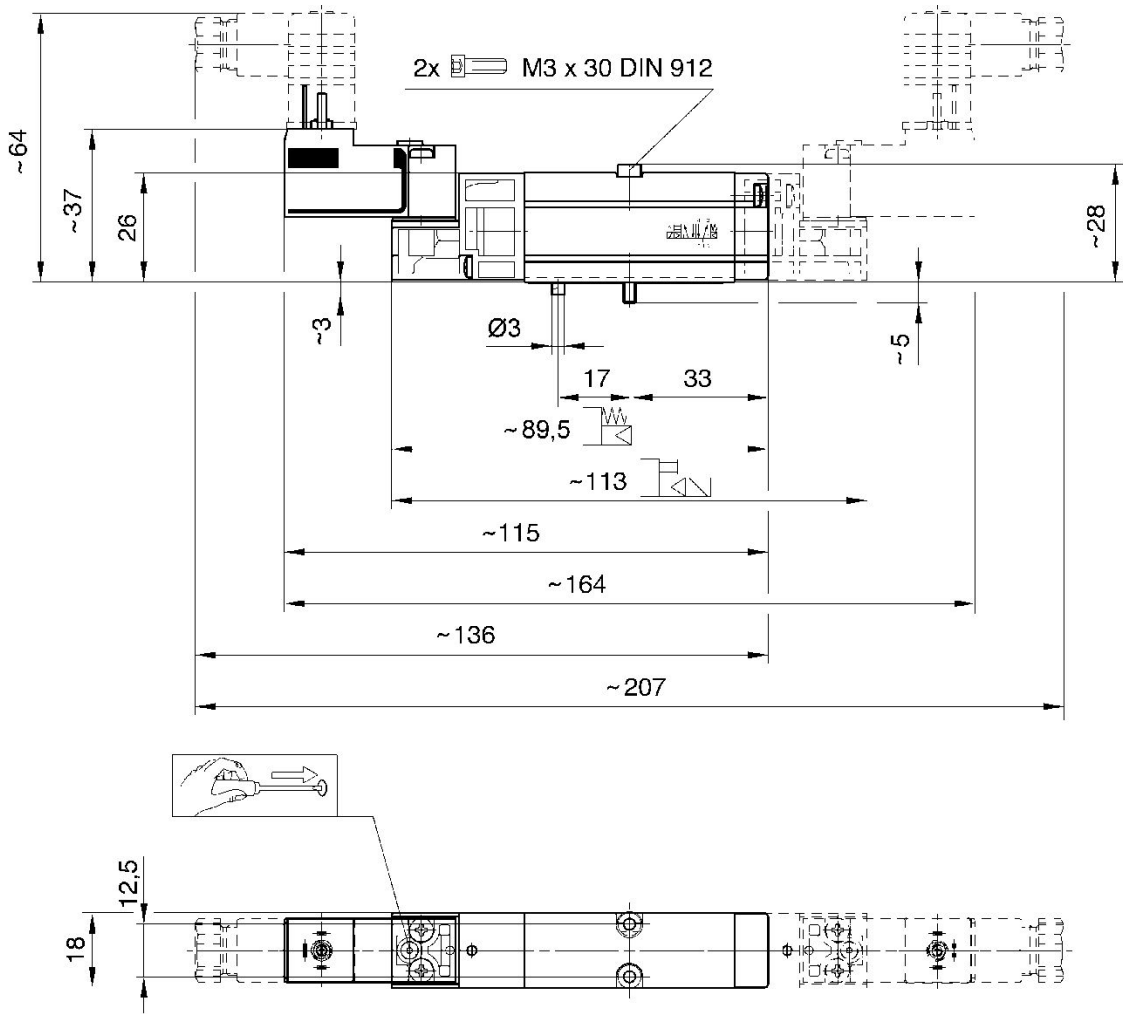
Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
2	10		24 V	24 V			11	14	Internal	without detent	with spring/air spring return	0820038154
2	10	24 V			-10 % / +10 %	2	11	14	Internal	without detent	with spring/air spring return	0820038152
2	10	24 V			-10 % / +10 %	1	12	16	Internal	without detent	with spring/air spring return	0820038153
2	10		110 V	110 V			11	14	Internal	without detent	with spring/air spring return	0820038155
2	10		230 V	230 V			11	14	Internal	without detent	with spring/air spring return	0820038151
1.5	10		24 V				8	8	Internal	without detent	with spring/air spring return	0820038654
1.5	10	24 V			-10 % / +10 %	2	8	8	Internal	without detent	with spring/air spring return	0820038652
1.5	10	24 V			-10 % / +10 %	1	10	10	Internal	without detent	with spring/air spring return	0820038653

Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
1.5	10		110 V	110 V			8	8	Internal	without detent	with spring/air spring return	0820038655
1.5	10		230 V	230 V			8	8	Internal	without detent	with spring/air spring return	0820038651

Dimensions



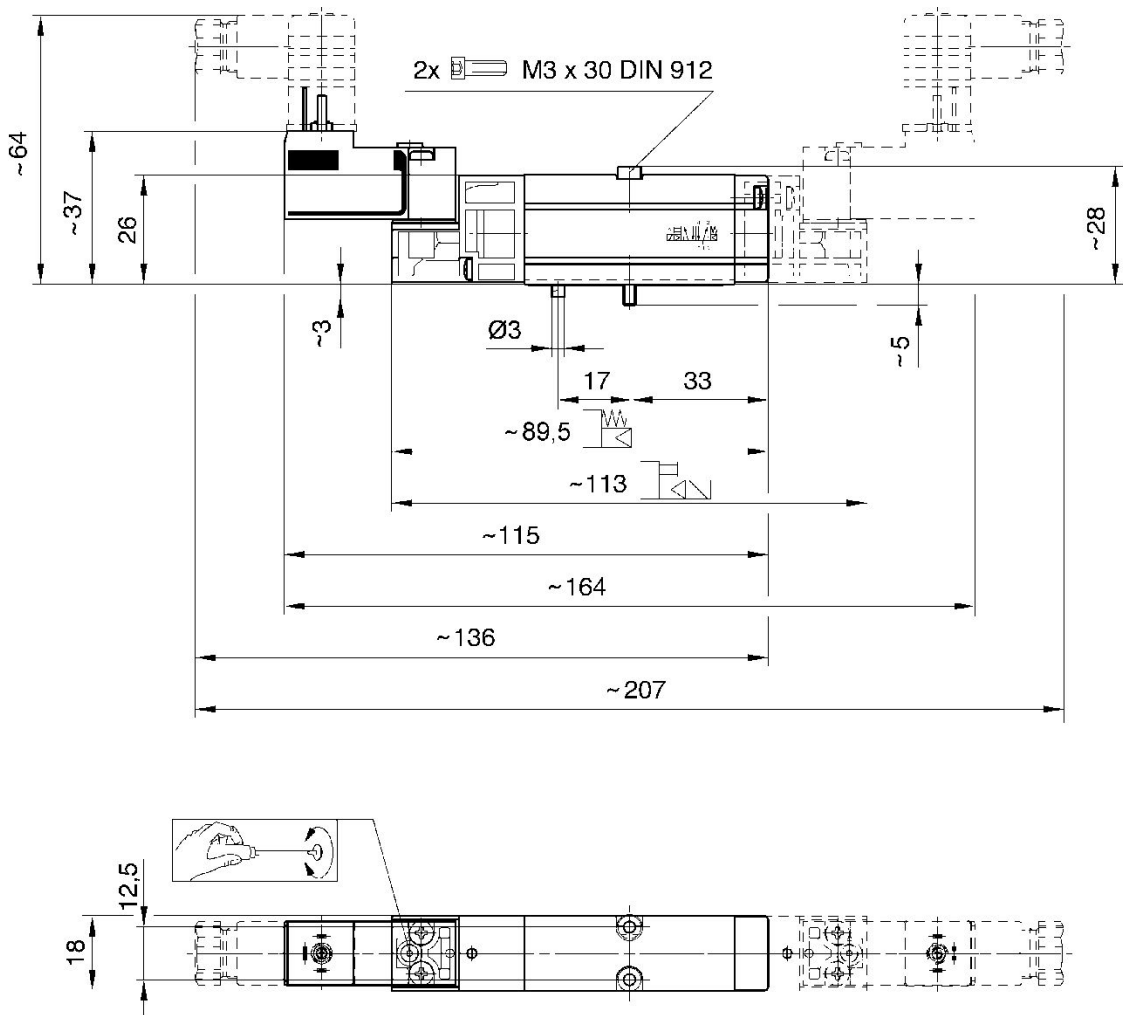
5/2-directional valve, Series CD02-AL, G 1/8, Min. working pressure: -0.9 bar

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: -0.9 bar
Max. working pressure: 10 bar



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Return type	Part No.
-0.9	10	24 V	-10 % / +10 %	2	11	14	External	without detent	with spring/air spring return	0820038157
-0.9	10						External		with spring/air spring return	0820038959
-0.9	10	24 V	-10 % / +10 %	2	8	10	External	without detent	with spring/air spring return	0820038657
-0.9	10						External		with spring/air spring return	0820038961

Dimensions



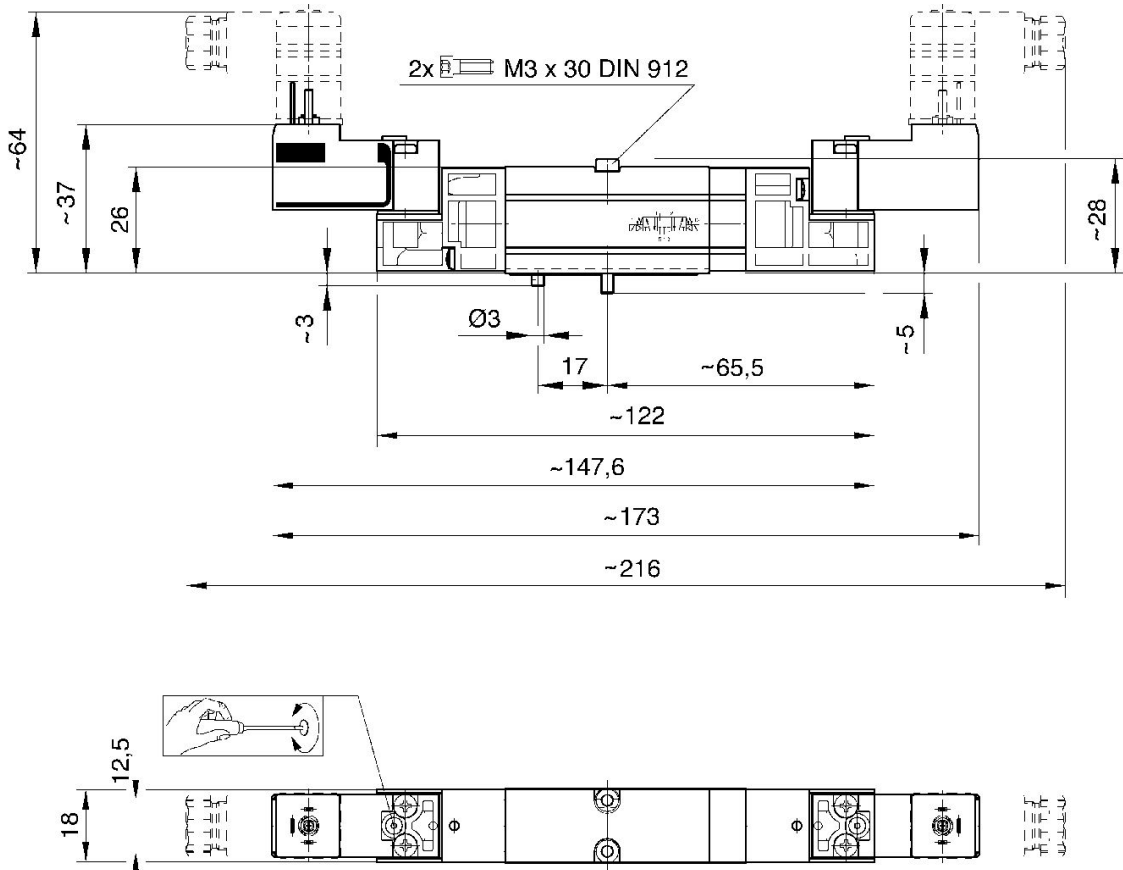
5/3-directional valve, Series CD02-AL, G 1/8

Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: 2.2 bar
Max. working pressure: 10 bar

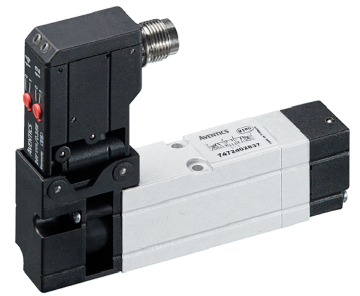


Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Pilot	Part No.
5/3, closed center	2.2	10	Internal	0820039933
5/3, pressurized center	2.2	10	Internal	0820039935
5/3, exhausted center	2.2	10	Internal	0820039934

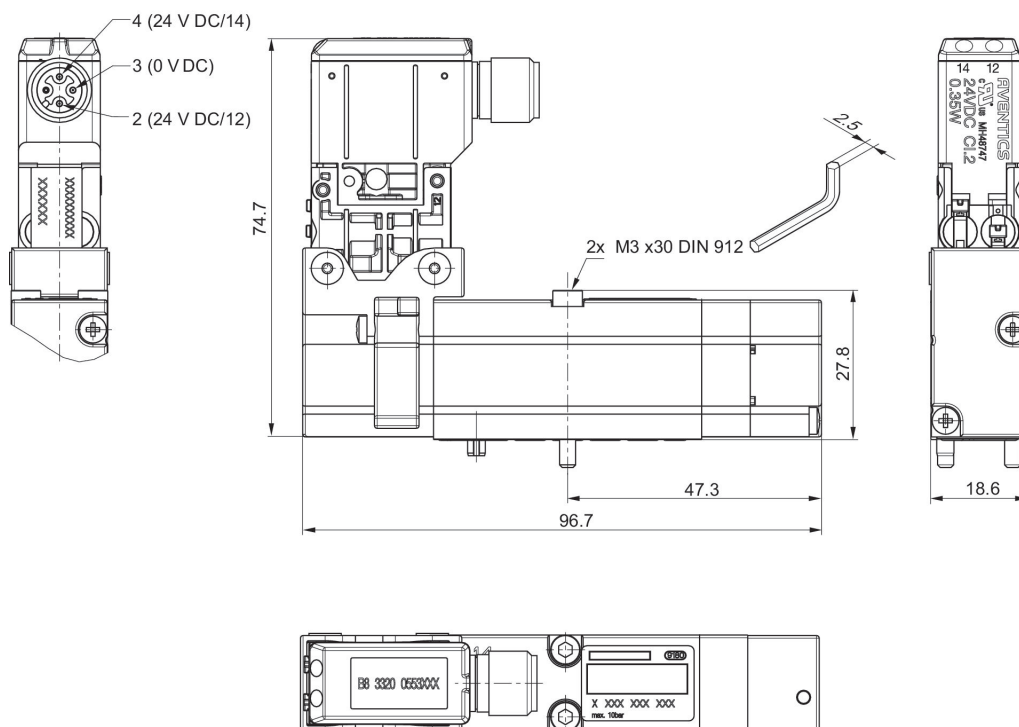
Dimensions



Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar

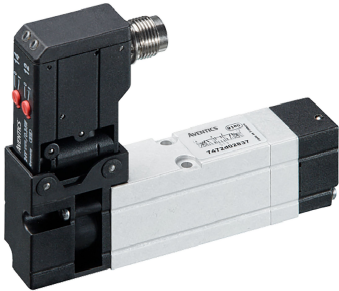


Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2.5	10	24 V	-15 % / +20 %	0.35	14	14	Internal	without de- tent	7472D02837
-0.8	10	24 V	-15 % / +20 %	0.35	14	14	External	without de- tent	7472D02839



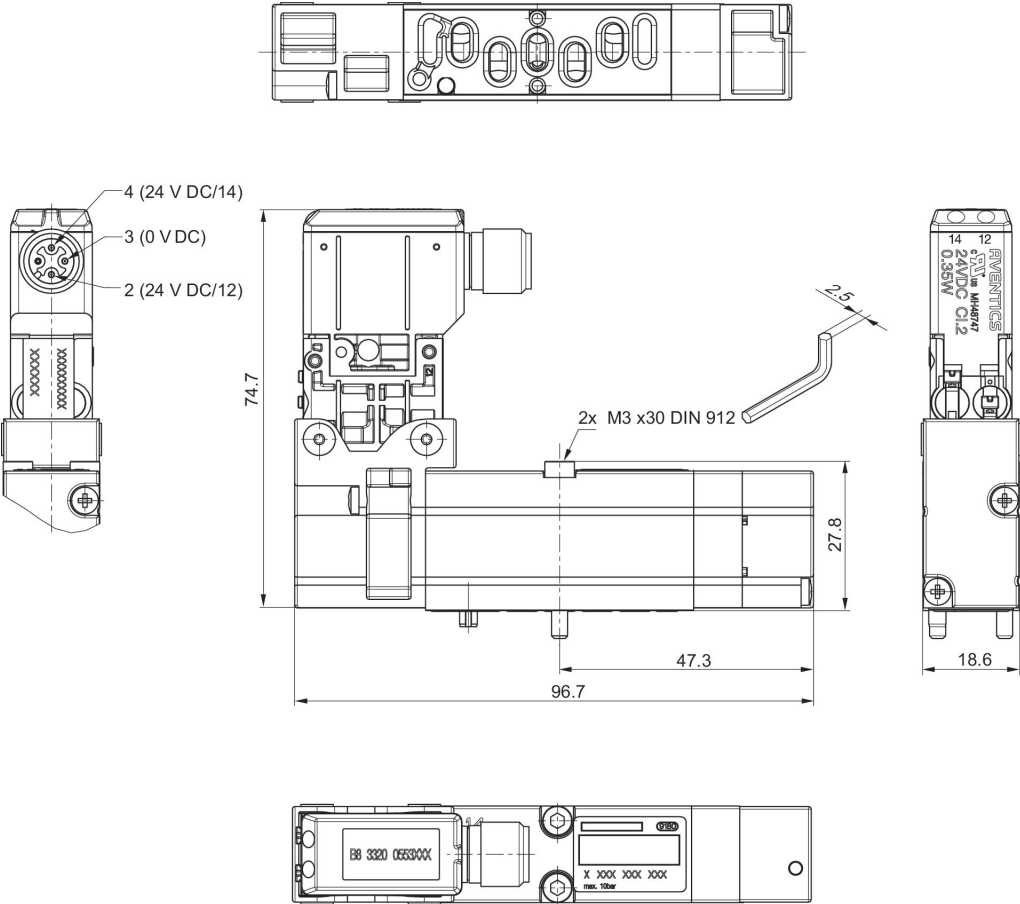
5/3-directional valve, Series CD02-AL, M12

Flow: 450 l/min
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: M12
Compressed air connection type: Base plate connection
Electrical connection 2, number of poles: 3-pin
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.5 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Max. working pressure: 10 bar



Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
2.5	10	24 V	-15 % / +20 %	0.35	14	14	Internal	with detent	7472D02838
-0.8	10	24 V	-15 % / +20 %	0.35	14	14	External	with detent	7472D02840

Dimensions



5/3-directional valve, Series CD02-AL, G 1/8

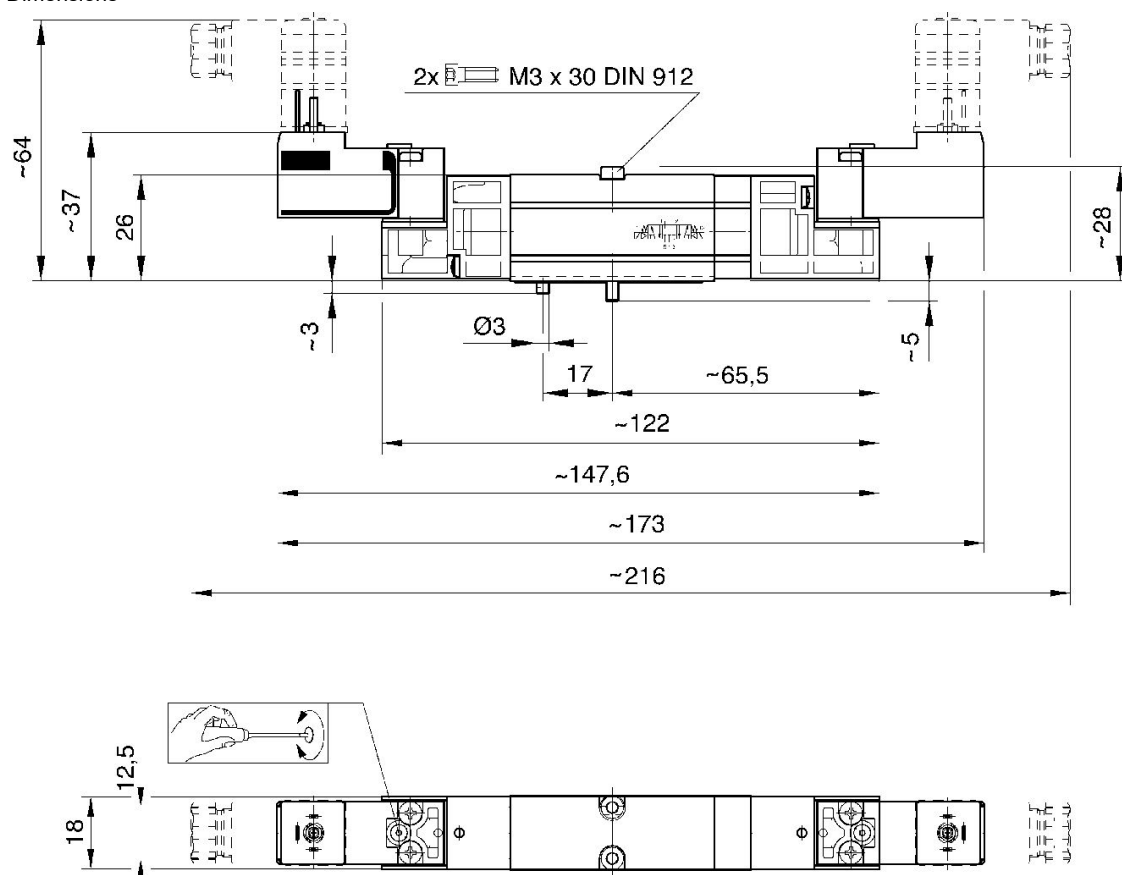
Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: 2.2 bar
Max. working pressure: 10 bar



Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
5/3, closed center	2.2	10		24 V	24 V			9	20	Internal	with detent	0820039318
5/3, closed center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	with detent	0820039316
5/3, closed center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	with detent	0820039317
5/3, closed center	2.2	10		110 V	110 V			9	20	Internal	with detent	0820039319
5/3, closed center	2.2	10		230 V	230 V			9	20	Internal	with detent	0820039315
5/3, pres-surized center	2.2	10		24 V	24 V			9	20	Internal	with detent	0820039363
5/3, pres-surized center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	with detent	0820039361
5/3, pres-surized center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	with detent	0820039362
5/3, pres-surized center	2.2	10		110 V	110 V			9	20	Internal	with detent	0820039364
5/3, pres-surized center	2.2	10		230 V	230 V			9	20	Internal	with detent	0820039360
5/3, exhausted center	2.2	10		24 V	24 V			9	20	Internal	with detent	0820039333

Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
5/3, exhausted center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	with detent	0820039331
5/3, exhausted center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	with detent	0820039332
5/3, exhausted center	2.2	10		110 V	110 V			9	20	Internal	with detent	0820039334
5/3, exhausted center	2.2	10		230 V	230 V			9	20	Internal	with detent	0820039330

Dimensions



5/3-directional valve, Series CD02-AL, G 1/8

Activation: Electrically
Standards: ISO 15407-1
Coil width: 15 mm
Electrical connection 2, thread size: ISO 15217, form C
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Pilot valve width: 15 mm
Duty cycle: 100 %
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 50 °C
Min. working pressure: 2.2 bar
Max. working pressure: 10 bar



Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
5/3, closed center	2.2	10		24 V	24 V			9	20	Internal	without detent	0820039218
5/3, closed center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	without detent	0820039216
5/3, closed center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	without detent	0820039217
5/3, closed center	2.2	10		110 V	110 V			9	20	Internal	without detent	0820039219
5/3, closed center	2.2	10		230 V	230 V			9	20	Internal	without detent	0820039215
5/3, closed center	2.2	10								External		0820039943
5/3, exhausted center	2.2	10		24 V	24 V			9	20	Internal	without detent	0820039233
5/3, exhausted center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	without detent	0820039231
5/3, exhausted center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	without detent	0820039232
5/3, exhausted center	2.2	10		110 V	110 V			9	20	Internal	without detent	0820039234
5/3, exhausted center	2.2	10		230 V	230 V			9	20	Internal	without detent	0820039230
5/3, exhausted center	2.2	10								External		0820039944

Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Operational voltage	Operational voltage	Operational voltage	Voltage tolerance DC	Power consumption DC [W]	Switch-on time [ms]	Switch-off time [ms]	Pilot	Manual override	Part No.
5/3, pres-surized center	2.2	10		24 V	24 V			9	20	Internal	without detent	0820039263
5/3, pres-surized center	2.2	10	24 V			-10 % / +10 %	2	9	20	Internal	without detent	0820039261
5/3, pres-surized center	2.2	10	24 V			-10 % / +10 %	1	11	23	Internal	without detent	0820039262
5/3, pres-surized center	2.2	10		110 V	110 V			9	20	Internal	without detent	0820039264
5/3, pres-surized center	2.2	10		230 V	230 V			9	20	Internal	without detent	0820039260
5/3, pres-surized center	2.2	10								External		0820039945

[illegible]

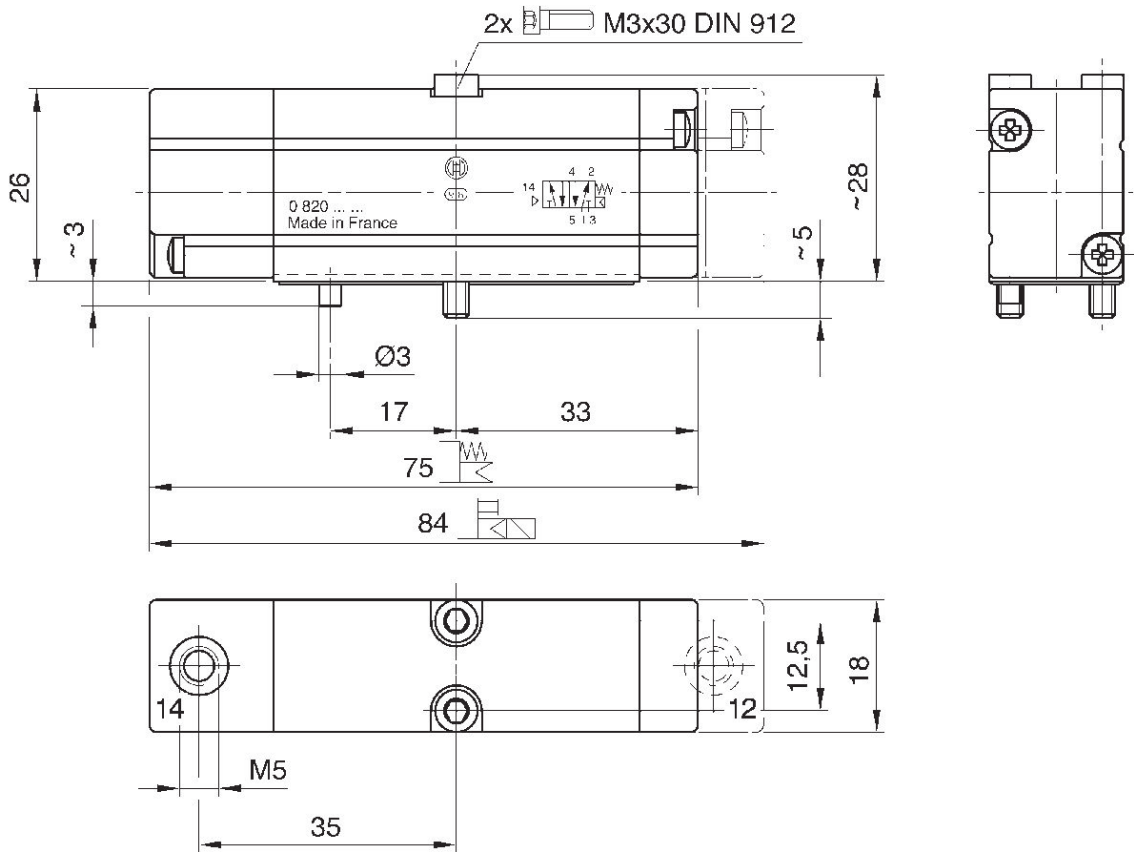
5/2-directional valve, Series CD02-AL

Flow: 450 l/min
Activation: Pneumatically
Standards: ISO 15407-1
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Max. control pressure: 10 bar
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 80 °C
Max. working pressure: 10 bar

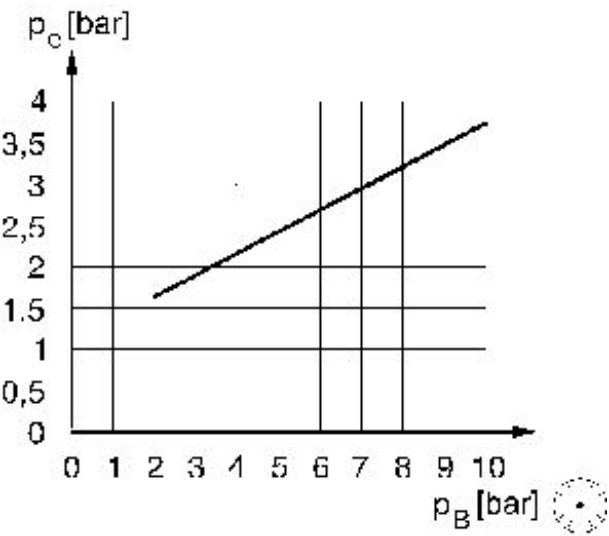


Min. working pressure [bar]	Max. working pressure [bar]	Pilot	Return type	Part No.
2	10	External	with spring/air spring return	0820238103
-0.9	10	External	with spring/air spring return	0820238104

Dimensions



Control pressure for spring/air spring return valves



p_c = external control pressure, min.
 p_B = Working pressure

Activation: Pneumatically
Standards: ISO 15407-1
Compressed air connection type: Base plate connection
Compressed air connection input: VDMA 02 base plate
Compressed air connection output: VDMA 02 base plate
Min. control pressure: 2.2 bar
Max. control pressure: 10 bar
Type: Spool valve, positive overlapping
Min. ambient temperature: 0 °C
Max. ambient temperature: 80 °C
Min. working pressure: -0.9 bar
Max. working pressure: 10 bar



Switching principle	Min. working pressure [bar]	Max. working pressure [bar]	Pilot	Part No.
5/3, closed center	-0.9	10	External	0820239104
5/3, exhausted center	-0.9	10	External	0820239105
5/3, pressurized center	-0.9	10	External	0820239106

Technical drawing of the 0 820 ... pressure washer, showing front, side, and top views with dimensions.

Front View (Top):

- Overall width: ~ 93
- Overall height: ~ 28
- Height of the main body: ~ 26
- Height of the trigger gun: ~ 3
- Height of the spray lance: ~ 5
- Distance from the left edge to the trigger gun: 17
- Distance from the trigger gun to the right edge: 51
- Trigger gun diameter: $\varnothing 3$
- Trigger gun thread: 2x M3x30 DIN 912
- Internal components: 14, 4, 2, 5, 13, 12
- Text: 0 820 ...
Made in France

Side View (Bottom):

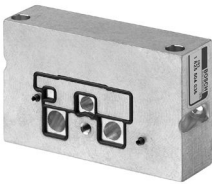
- Overall length: 44
- Overall width: 18
- Width of the trigger gun: 12,5
- Width of the main body: 14
- Width of the spray lance: 12
- Thread: M5
- Distance from the left edge to the trigger gun: 35

Top View (Right):

- Overall width: ~ 28
- Overall height: ~ 5
- Distance from the left edge to the trigger gun: 17
- Distance from the trigger gun to the right edge: 51
- Trigger gun diameter: $\varnothing 3$
- Trigger gun thread: 2x M3x30 DIN 912

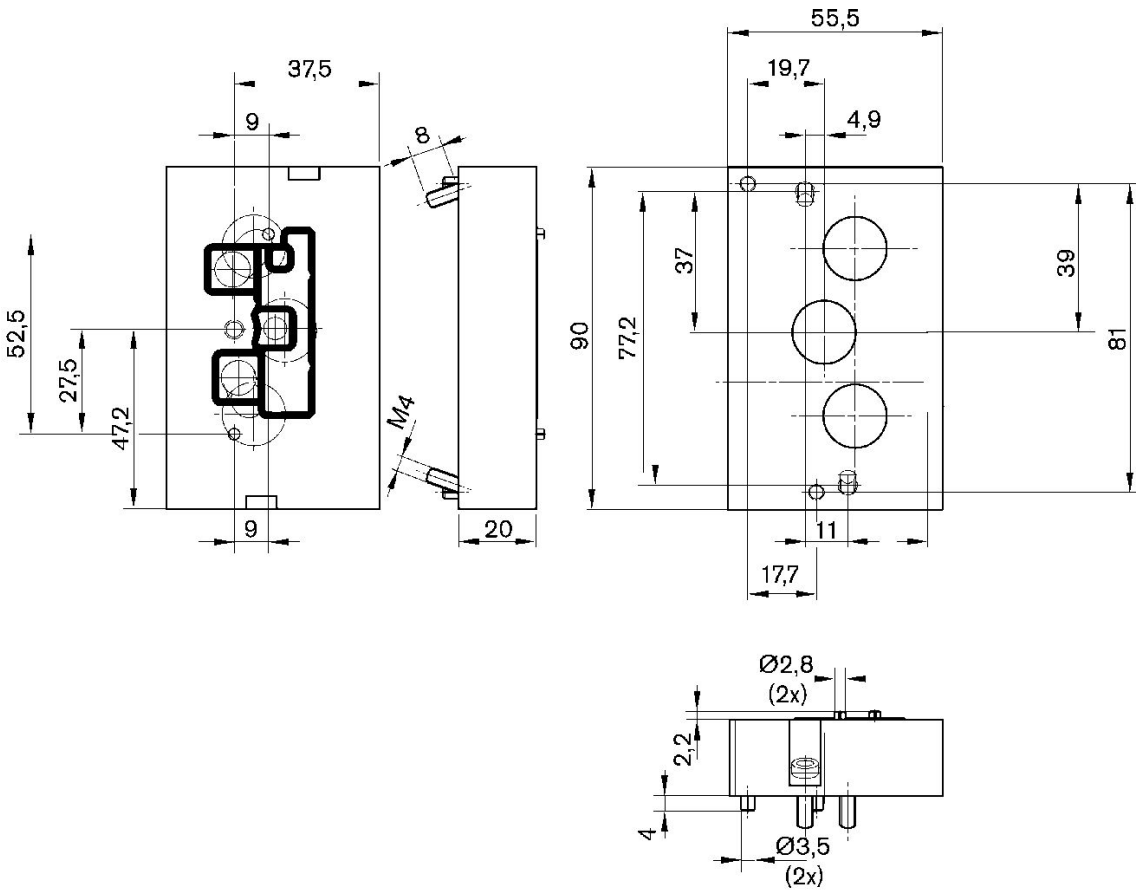
Transition plate, 26 mm / 18 mm

Standards: ISO 15407-1
Compressed air connection input: G 1/4
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C
Min. working pressure: -0.95 bar
Max. working pressure: 16 bar



Compressed air connection input	Compressed air connection pilot air	Compressed air connection pilot air exhaust	Connection direction	Part No.
G 1/4	M5	M5	On the side	1825504036

Dimensions



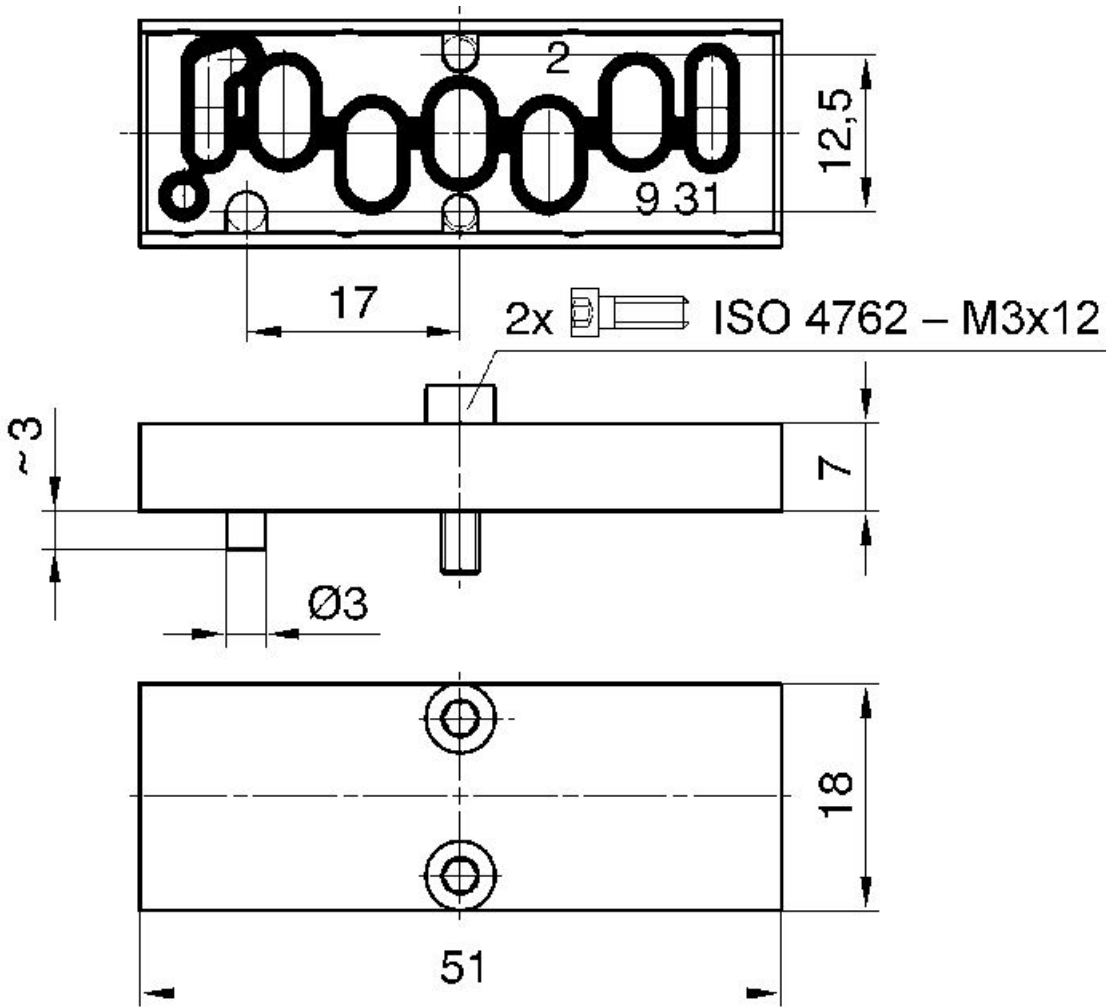
Blanking plate

Standards: ISO 15407-1
Min. ambient temperature: 0 °C
Max. ambient temperature: 80 °C
Min. working pressure: -0.9 bar
Max. working pressure: 10 bar



Type	Part No.
ISO-plates	1825503933

Dimensions



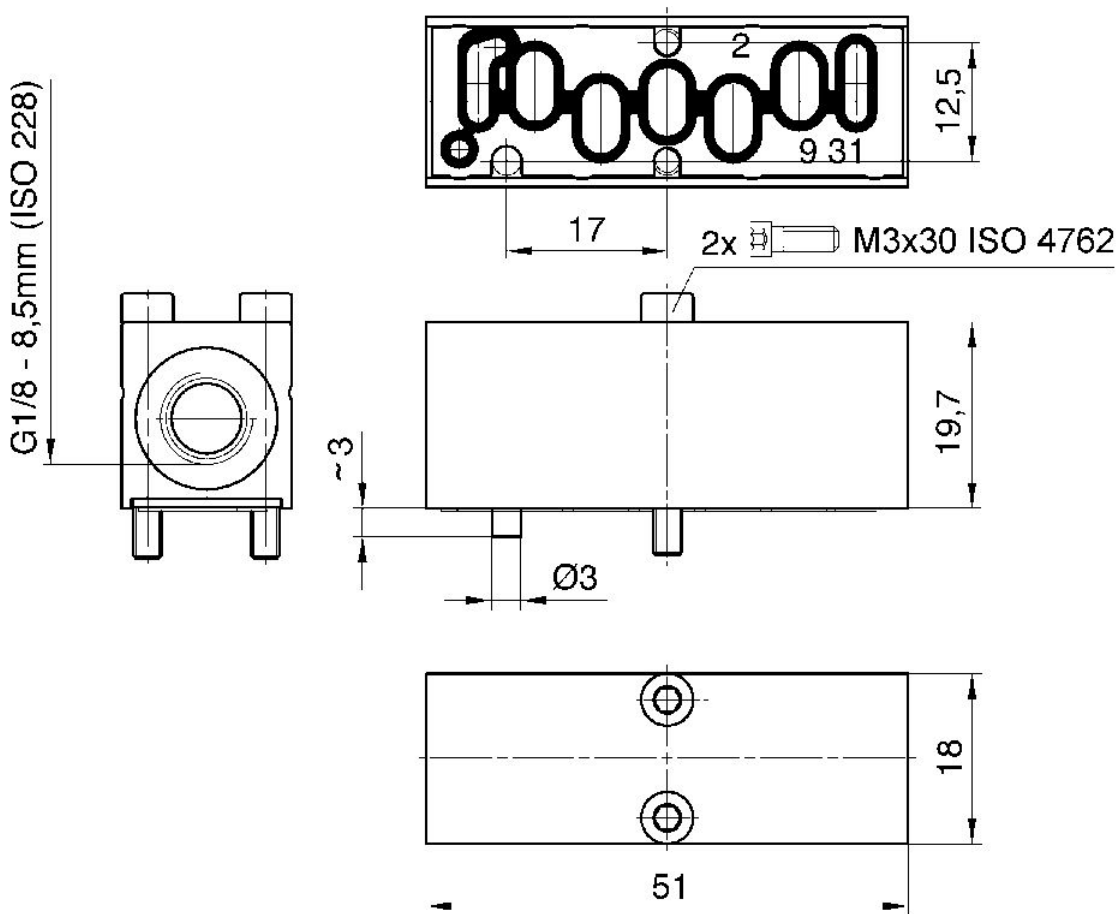
Supply module

Standards: ISO 15407-1
Compressed air connection type: Internal thread
Compressed air connection input: G 1/8
Min. ambient temperature: 0 °C
Max. ambient temperature: 80 °C
Min. working pressure: -0.9 bar
Max. working pressure: 10 bar



Compressed air connection input	Max. number of valve positions	Part No.
G 1/8	1	1827009938

Dimensions



Standards: ISO 15407-1
Compressed air connection type: Internal thread
Compressed air connection input: G 1/8
Compressed air connection output: G 1/8
Compressed air connection, exhaust: G 1/8
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C
Min. working pressure: -0.95 bar
Max. working pressure: 16 bar

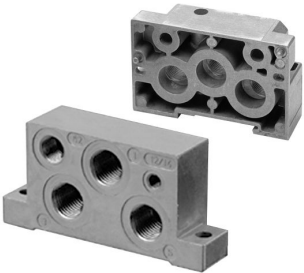


Compressed air connection input	Compressed air connection, exhaust	Compressed air connection output	Compressed air connection pilot air	Compressed air connection pilot air exhaust	Connection direction	Part No.
G 1/8	G 1/8	G 1/8	M5	M5	On the side	1825503890

AVENTICS

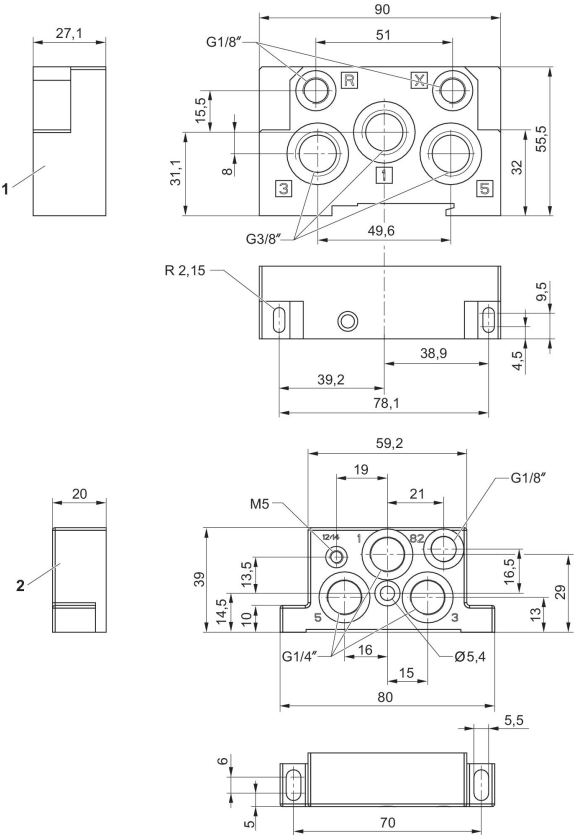
End plate left, End plate right

Standards: ISO 15407-1
For series: CD01-PA CD02-AL
Compressed air connection type: Internal thread
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C
Min. working pressure: -0.95 bar
Max. working pressure: 16 bar



Type	Part No.
End plate left, End plate right	R422004065

Dimensions



- 1) Right end plate CD01
- 2) Left end plate CD02

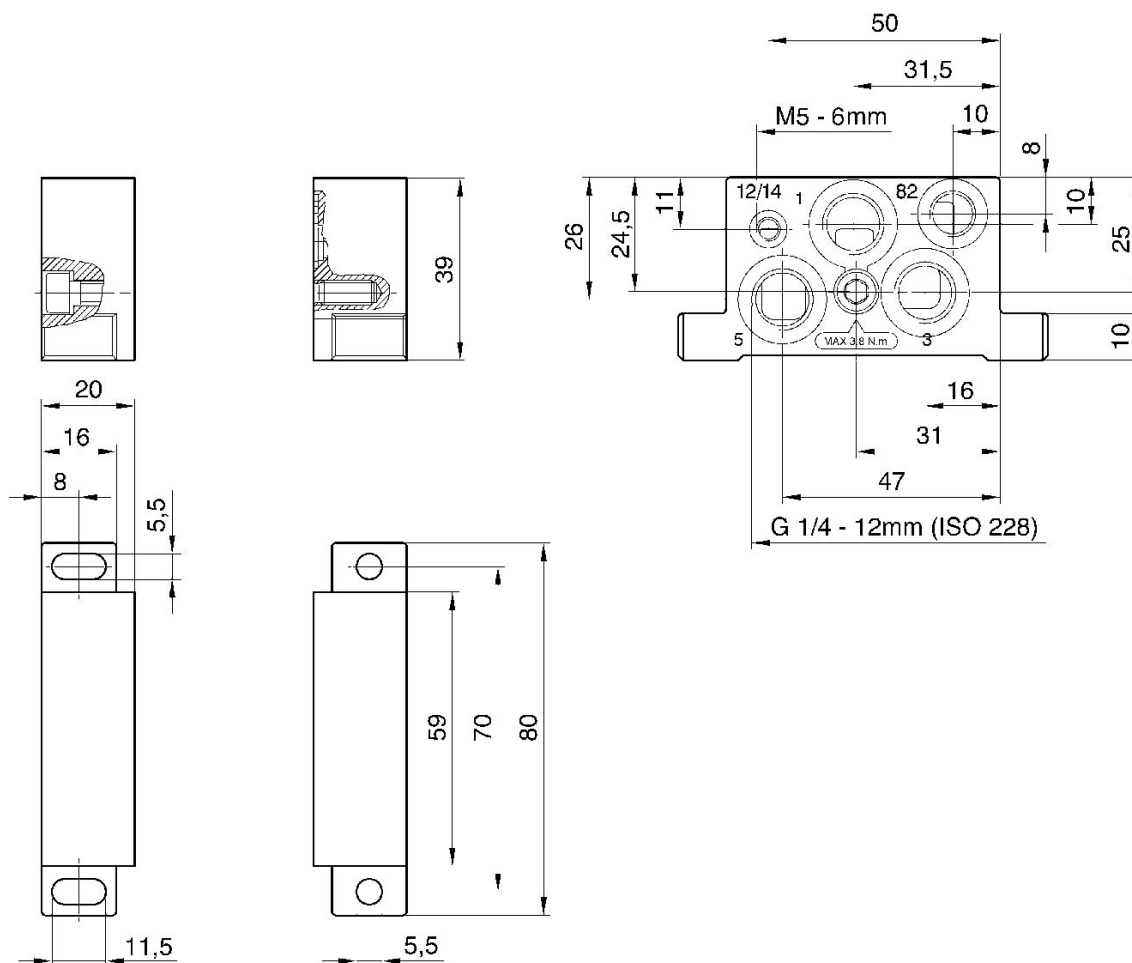
Compressed air connection	Input	Exhaust	Pilot connection	Pilot control exhaust
Port	[1]	[3,5]	[12]	[R]
CD01-PA	G 3/8	G 3/8	G 1/8	G 1/8

Compressed air connection	Input	Exhaust	Pilot connection	Pilot control exhaust
CD02-AL	G 1/8	G 1/8	M5	G 1/8

Standards: ISO 15407-1
Compressed air connection type: Internal thread
Compressed air connection input: G 1/4
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C
Min. working pressure: -0.95 bar
Max. working pressure: 16 bar



Dimensions



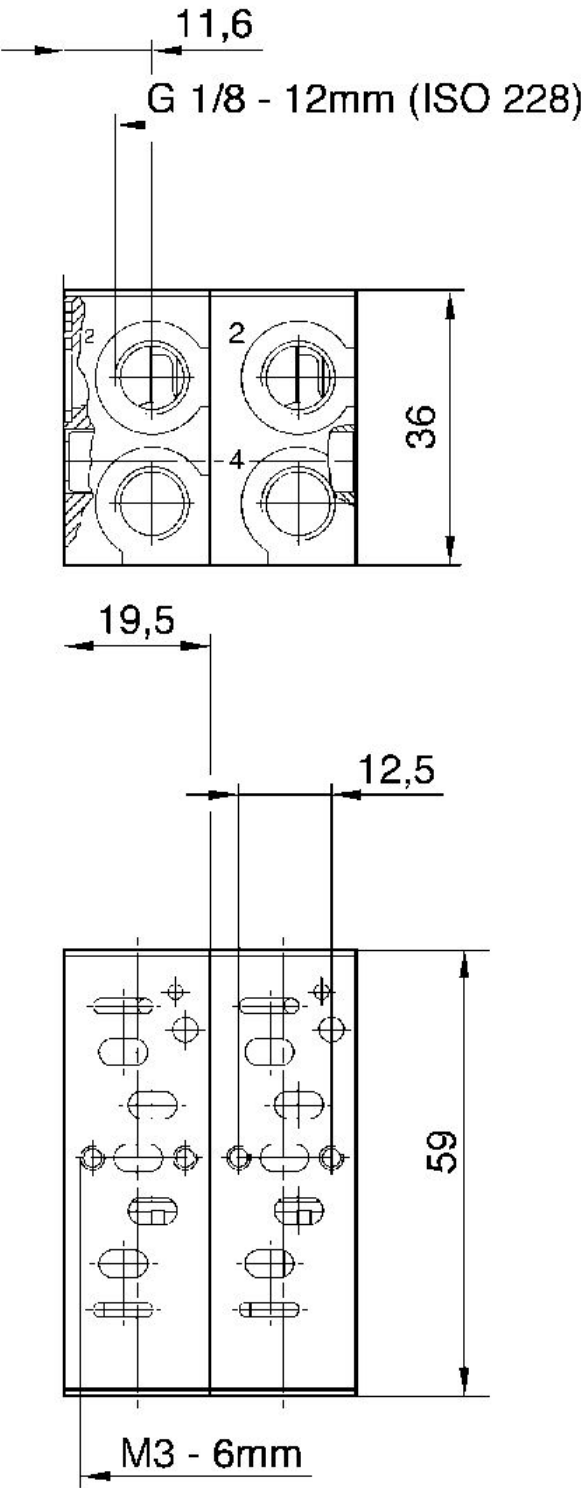
Base plate

Standards: ISO 15407-1
Compressed air connection type: Internal thread
Compressed air connection output: G 1/8
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C
Min. working pressure: -0.95 bar
Max. working pressure: 16 bar



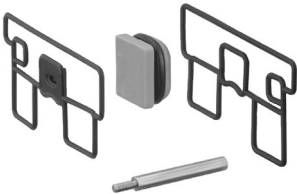
Compressed air connection output	Connection direction	Part No.
G 1/8	On the side	1825503891

Dimensions



Gasket, Series CD02-AL

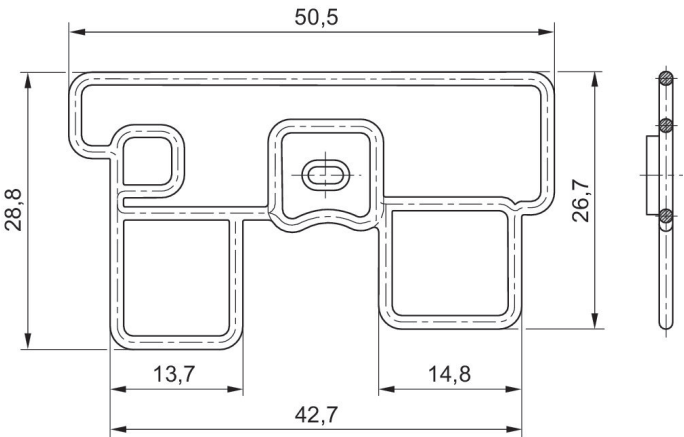
Standards: ISO 15407-1
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C



Type	Part No.
Gasket for intermediate plates, 1 closed, 3 and 5 open	1821015815
Gasket for intermediate plates, 1, 3, and 5 open	1821015817

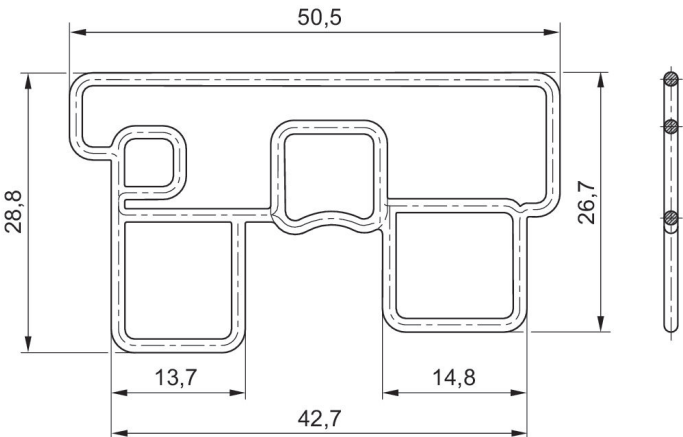
1821015815

Dimensions



1821015817

Dimensions



Gasket, Series CD02-AL

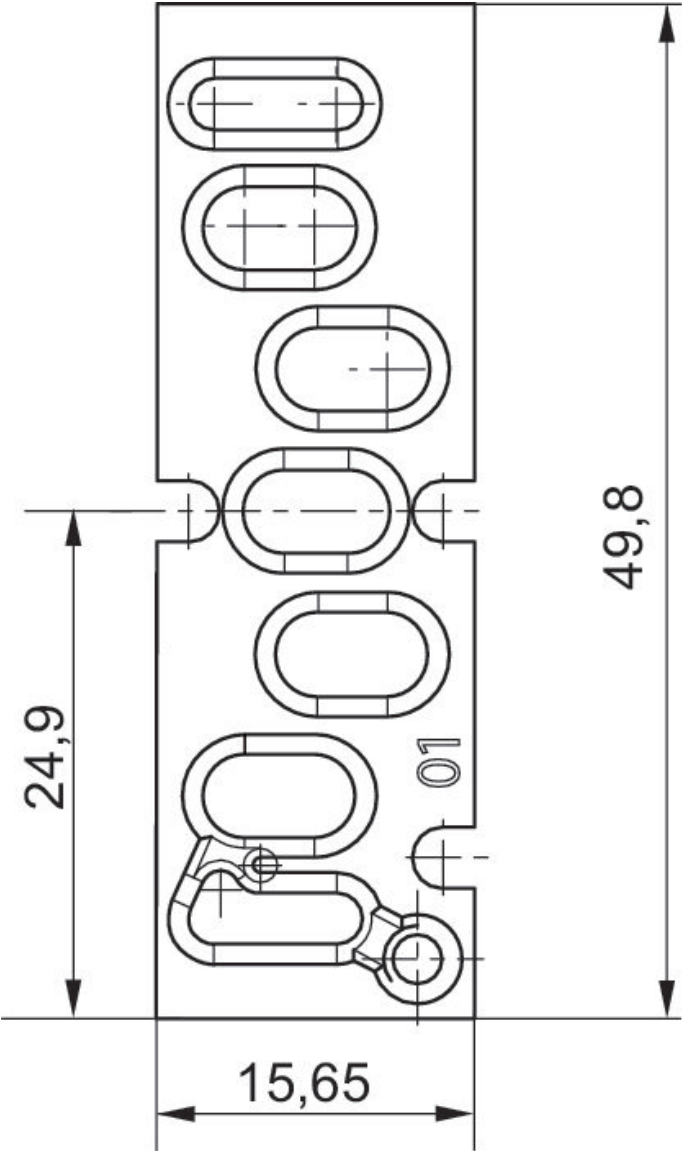
Standards: ISO 15407-1
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C



Type	Part No.
Intermediate plate valve molded seal	1821015829
Intermediate plate/blanking plate molded seal	1821015812

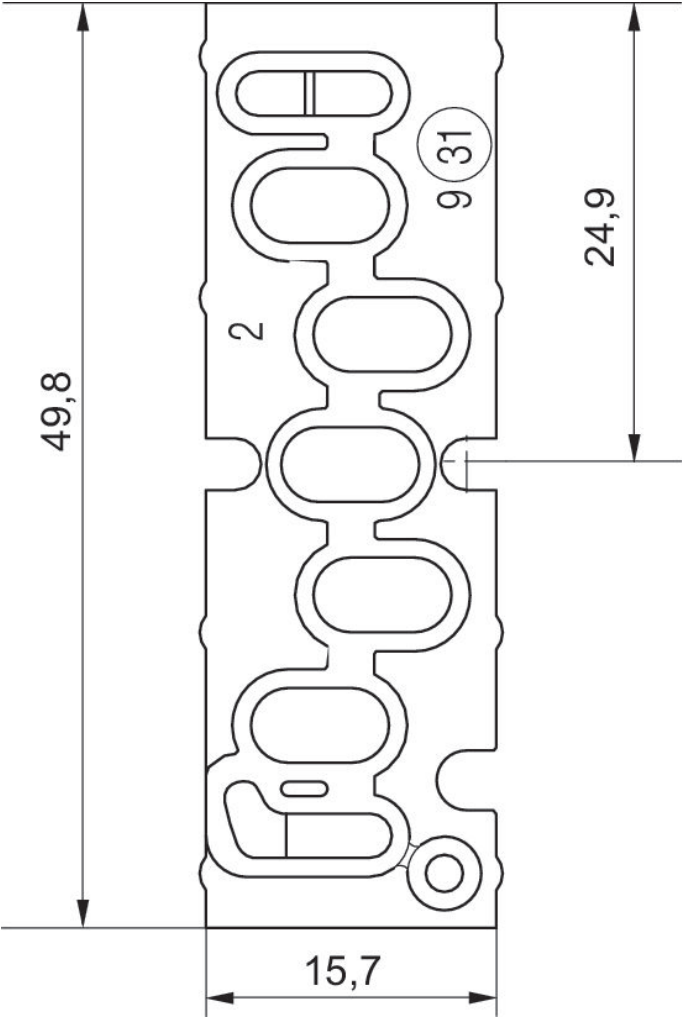
1821015829

Dimensions



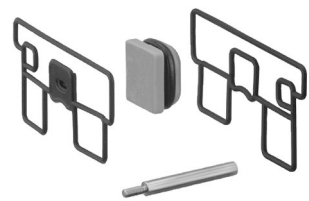
1821015812

Dimensions



Tie rod extension kit

Standards: ISO 15407-1
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C



Type	Part No.
Threaded rods for the assembly of 2 intermediate plates	1823051991
Threaded rods for the assembly of 3 intermediate plates	1823051992
Threaded rods for the assembly of 5 intermediate plates	1823051993

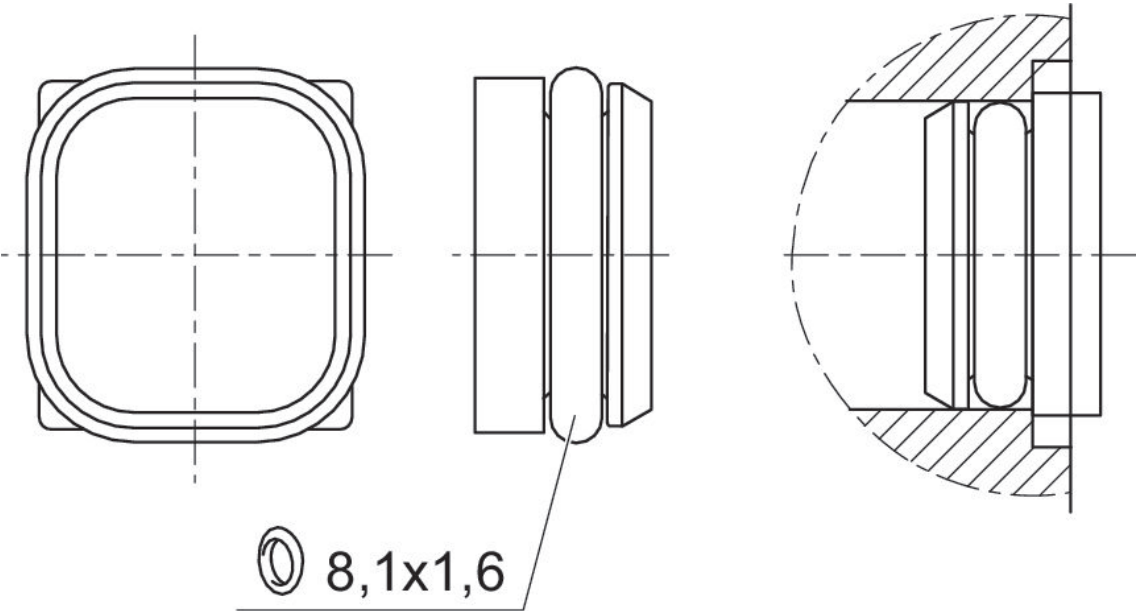
Separator for channel 3 + 5, Series CD02-AL

Standards: ISO 15407-1
Min. ambient temperature: -15 °C
Max. ambient temperature: 70 °C



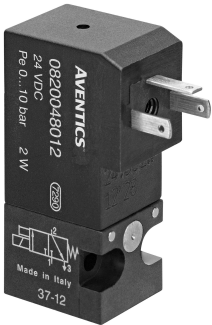
Type	Part No.
Separator for channel 3 + 5	1827003825

Dimensions



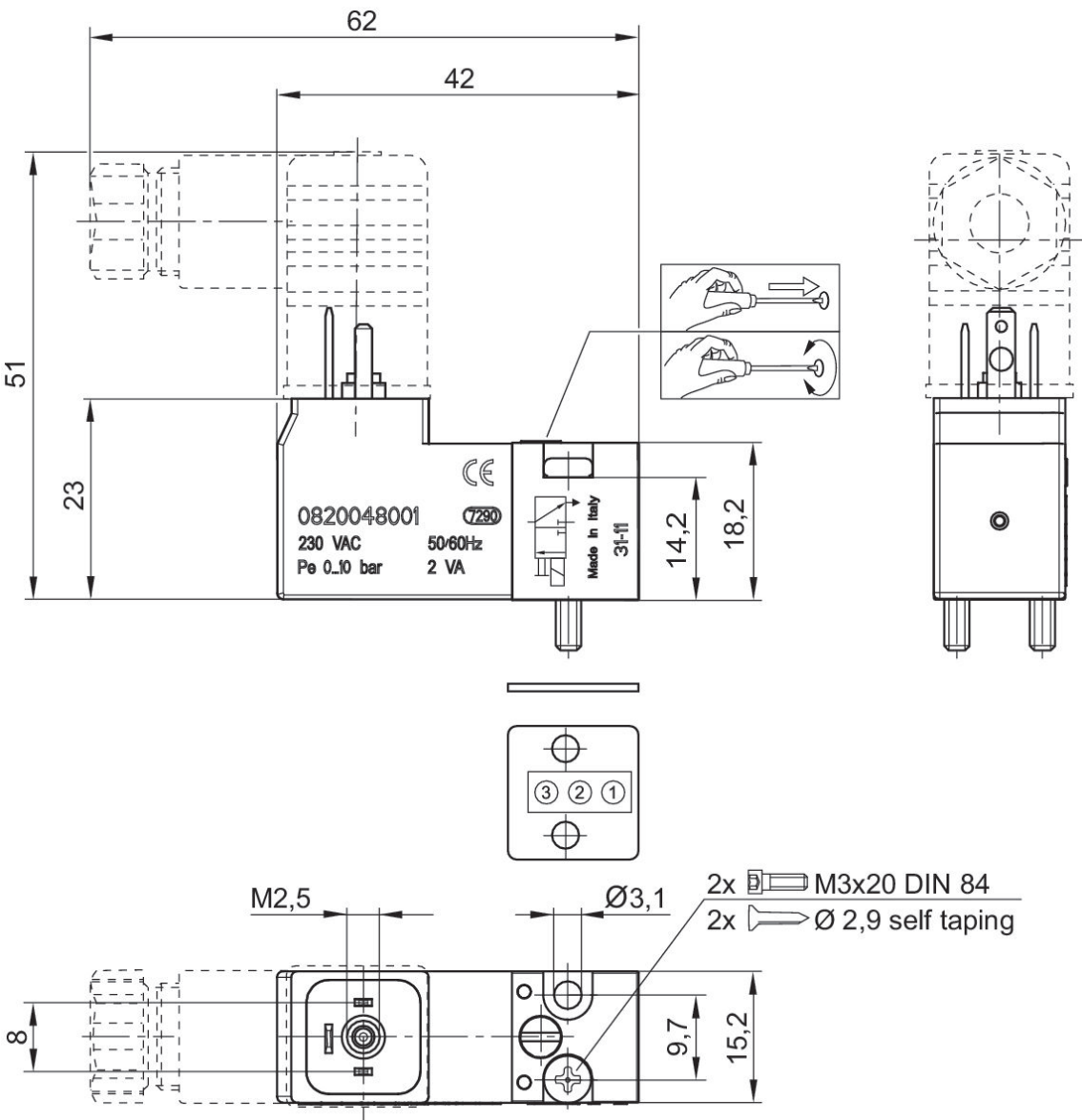
3/2-directional valve, Series DO16, 8 mm

Activation: Electrically
Coil width: 16 mm
Duty cycle: 100 %
Type: Poppet valve
Min. ambient temperature: -10 °C
Max. ambient temperature: 50 °C
Min. working pressure: 0 bar



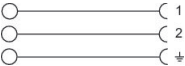
Valve function		Switching principle	Operational voltage	Power consumption DC [W]	Manual override	Nominal flow Qn 1 to 2 [l/min]	Part No.
NC	3/2, with spring return		24 V DC	2	without detent	25	0820048002
			24 V AC		without detent	25	0820048004
			110 V AC		without detent	25	0820048005
			230 V AC		without detent	25	0820048001
			24 V DC	2	with detent	25	0820048026
NC	3/2, with spring return		24 V AC		with detent	25	0820048028
			230 V AC		without detent	16	0820048101
NC	3/2, with spring return		110 V AC		with detent	25	0820048029
			230 V AC		with detent	25	0820048025
			24 V DC	2	without detent	20	0820048102
NO	3/2, with spring return		24 V DC	2	with detent	20	0820048126

Dimensions



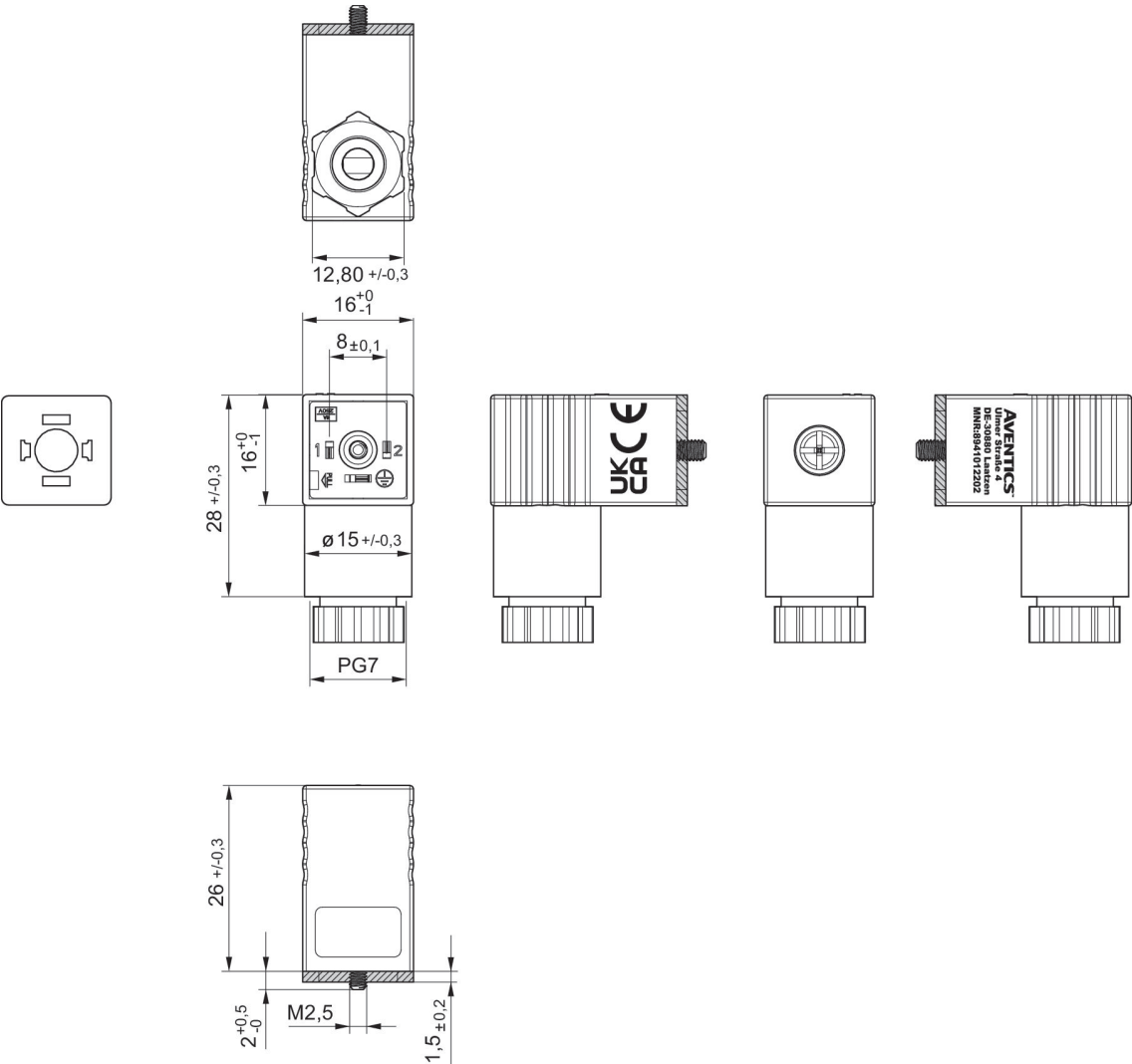
Valve plug connector, series CON-VP, form C, 300 V DC / 250 V AC

Electrical connection 1, thread size: EN 175301-803, form C
Certificates: CE declaration of conformity UKCA
Min. ambient temperature: -40 °C
Max. ambient temperature: 90 °C



Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
300 V DC / 250 V AC	6	2+E	4	6	8941012202

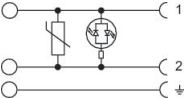
Dimensions



Profile seal

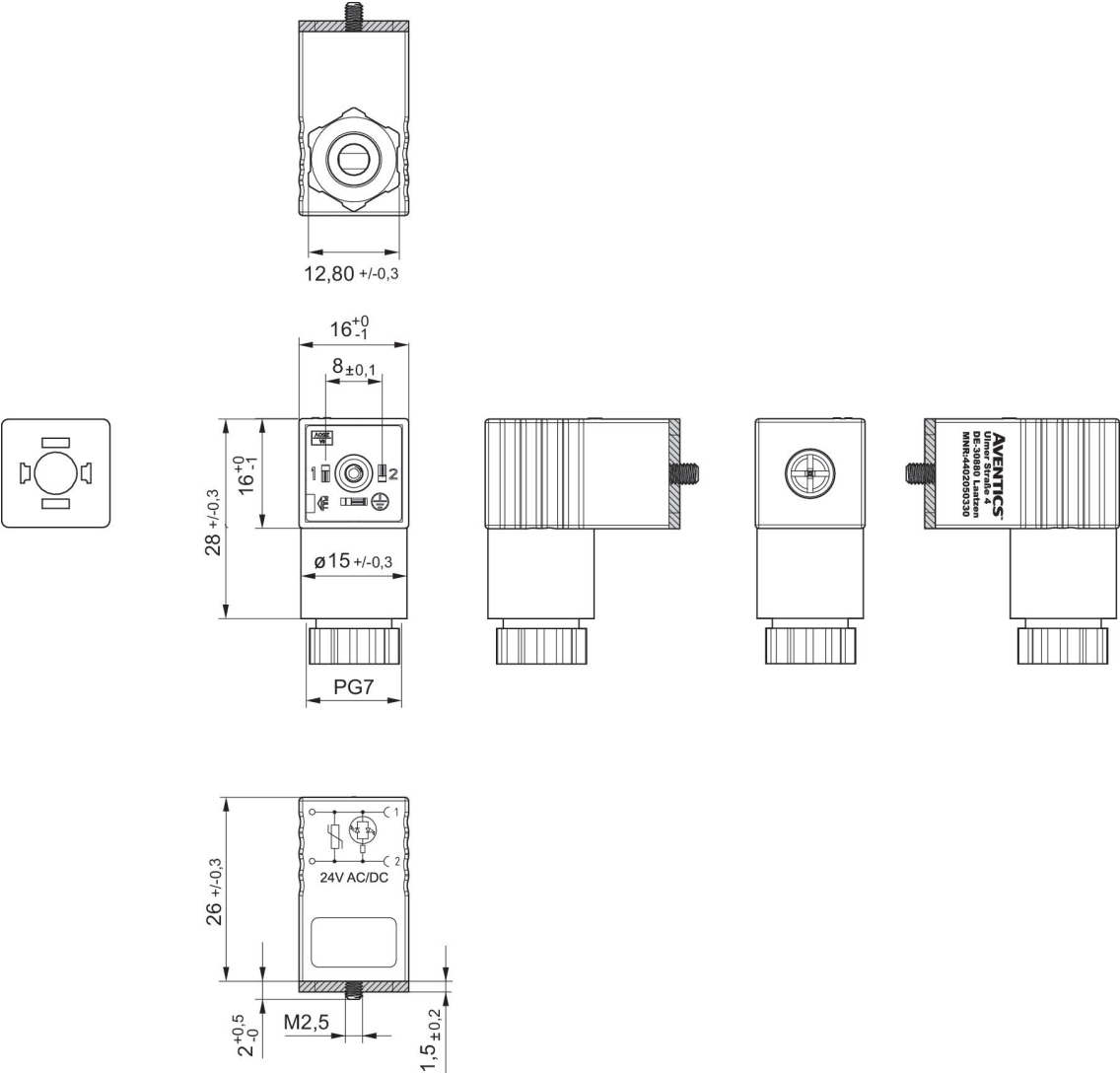
Valve plug connector, series CON-VP, form C, 24 V AC/DC

Electrical connection 1, thread size: EN 175301-803, form C
Min. ambient temperature: -40 °C
Max. ambient temperature: 90 °C



Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
24 V AC/DC	Varistor	1.5	2+E	Green	4	6	4402050330

Dimensions



Profile seal

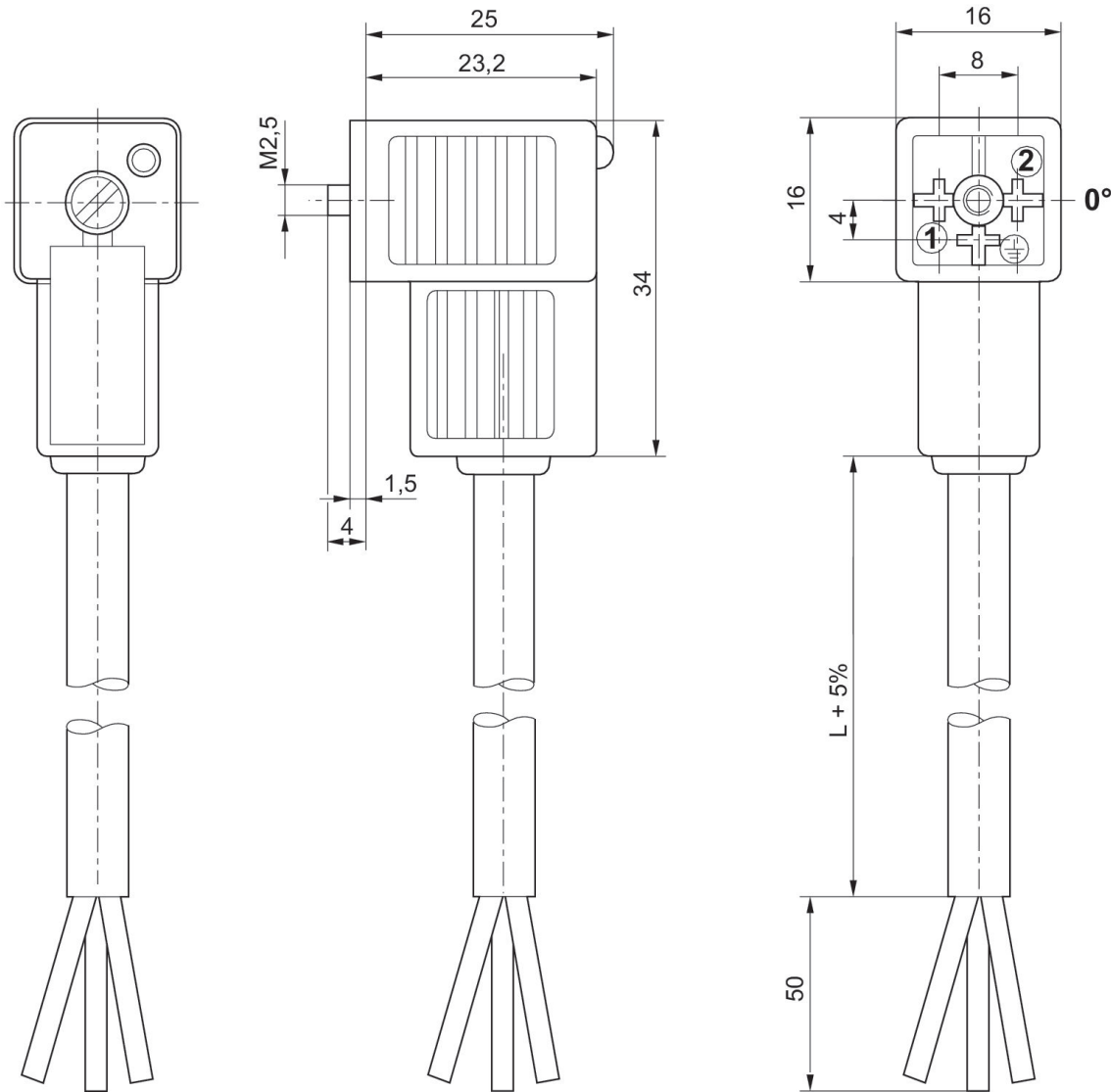
Valve plug connector, series CON-VP, 0° female insert

Electrical connection 1, thread size: form C
Min. ambient temperature: -20 °C
Max. ambient temperature: 80 °C



Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	Cable-Ø [mm]	Cable length [m]	Part No.
230 V AC/DC		6	2+E		5.9	3	1834484212
230 V AC/DC		6	2+E		5.9	5	1834484214
24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	3	1834484204
24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	5	1834484206
230 V AC/DC	Varistor	6	2+E	Yellow	5.9	3	1834484208
230 V AC/DC	Varistor	6	2+E	Yellow	5.9	5	1834484210

Dimensions



0° female insert

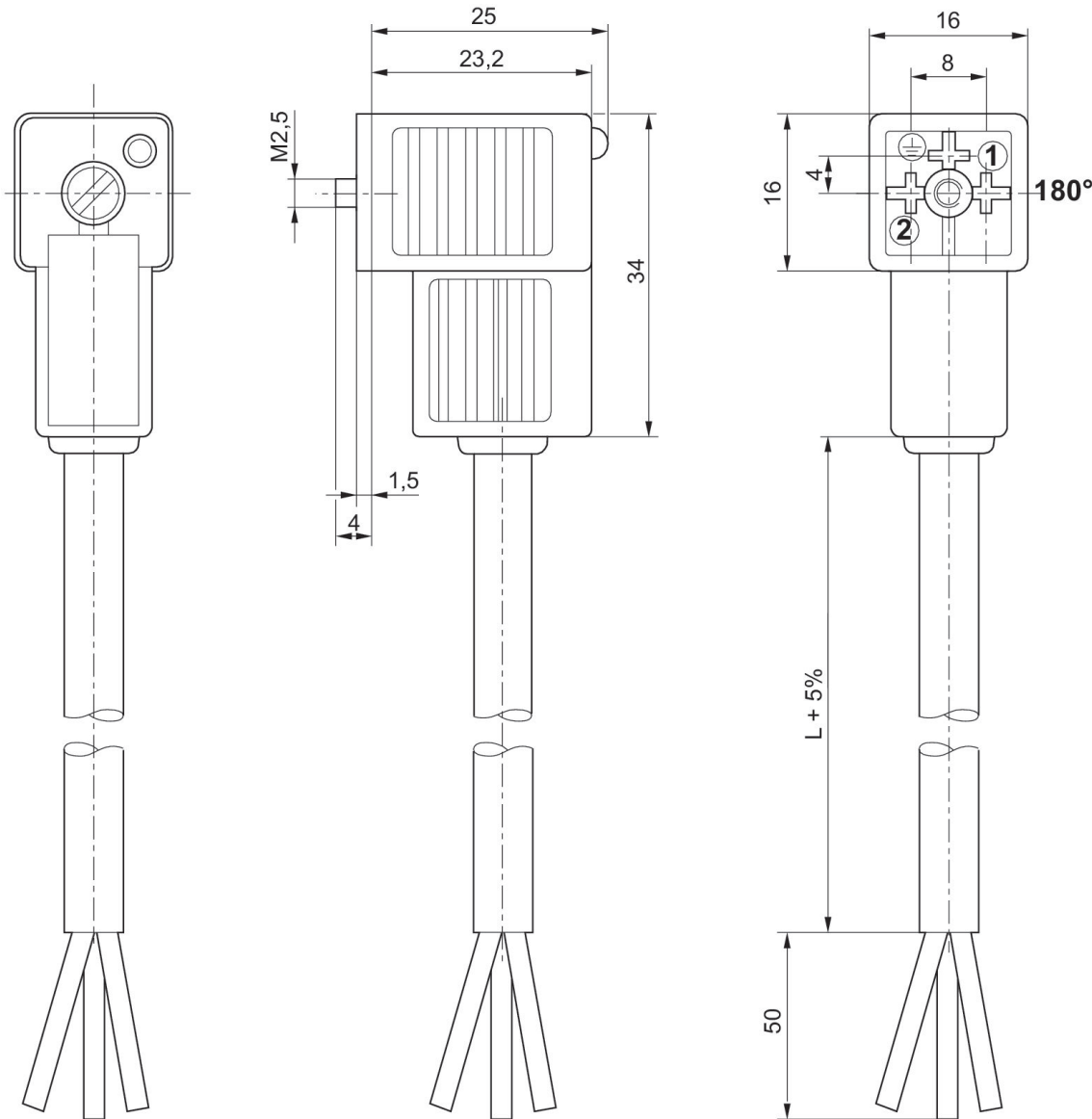
Valve plug connector with cable series CON-VP,, 180° female insert

Electrical connection 1, thread size: form C
Min. ambient temperature: -20 °C
Max. ambient temperature: 80 °C



Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	Cable-Ø [mm]	Cable length [m]	Part No.
230 V AC/DC		6	2+E		5.9	3	1834484213
230 V AC/DC		6	2+E		5.9	5	1834484215
24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	3	1834484205
24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	5	1834484207
230 V AC/DC	Varistor	6	2+E	Yellow	5.9	3	1834484209
230 V AC/DC	Varistor	6	2+E	Yellow	5.9	5	1834484211
24 V AC/DC	Z-diode	6	2+E	Yellow	5.9	10	1834484236

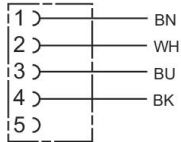
Dimensions



180° female insert

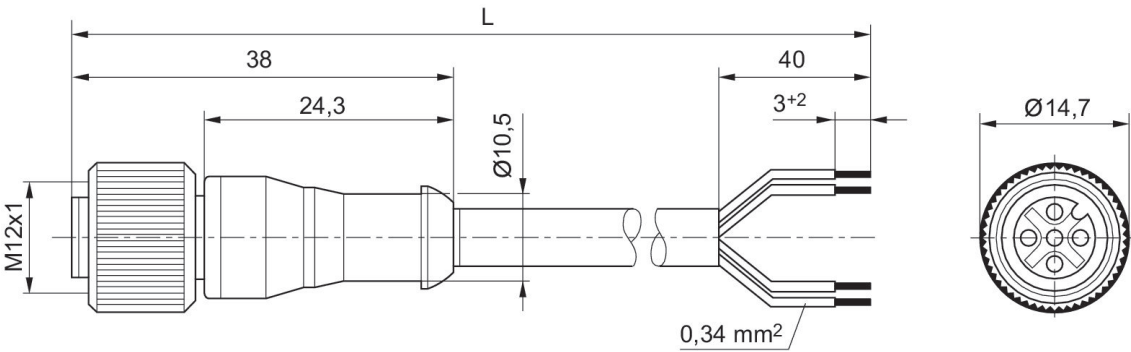
Round plug connector, Series CON-RD, open cable ends, straight

Min. ambient temperature: -25 °C
Max. ambient temperature: 70 °C
Electrical connection 1, type: Socket
Electrical connection 1, thread size: M12x1
Electrical connection 1, number of poles: 5-pin
Cable exit 1: straight
Electrical connection 2, type: without wire end ferrule, tin-plated
Electrical connection 2, number of poles: 4-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Cable exit 1	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	5-pin	A-coded	straight	open cable ends	4-pin	3	1834484256
48 V AC/DC	Socket	M12x1	5-pin	A-coded	straight	open cable ends	4-pin	5	1834484257
48 V AC/DC	Socket	M12x1	5-pin	A-coded	straight	open cable ends	4-pin	10	1834484258

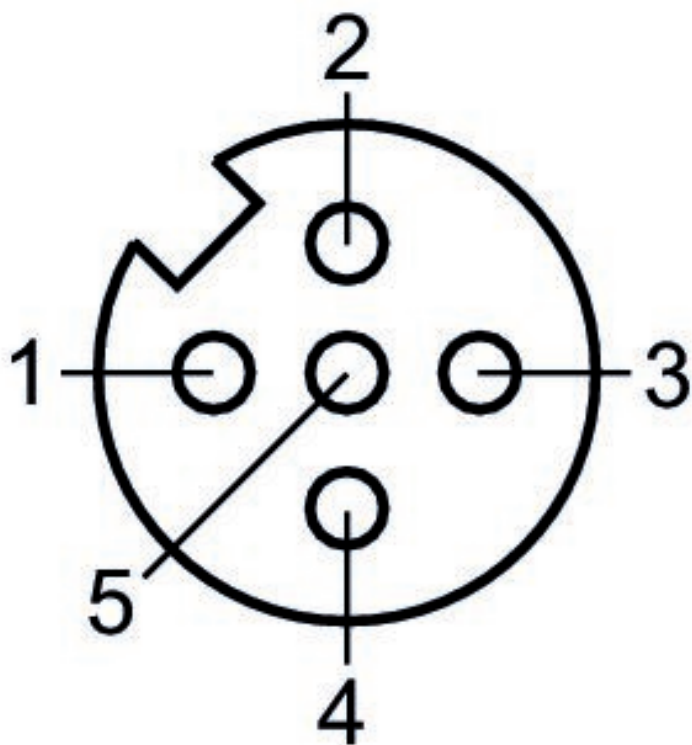
Dimensions



L = length

1834484256, 1834484257, 1834484258

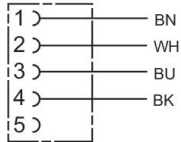
Pin assignment, socket



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

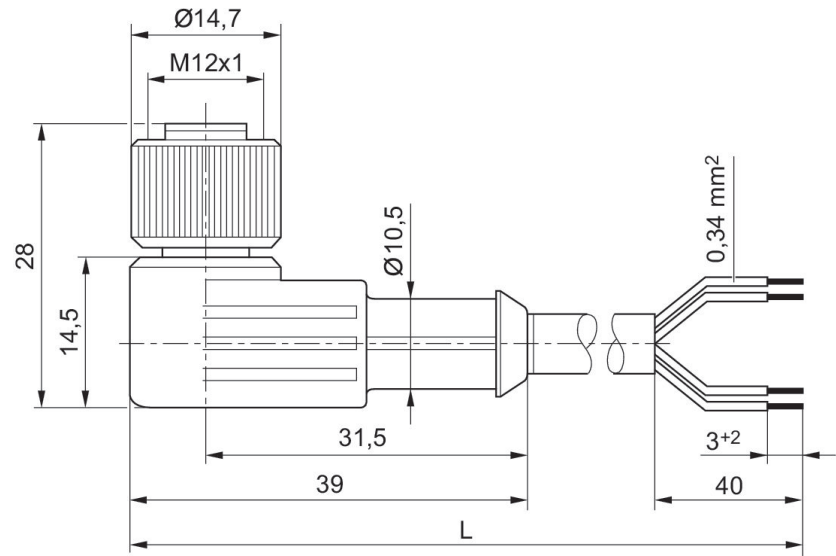
Round plug connector, Series CON-RD, 5-pin, angled, unshielded

Min. ambient temperature: -40 °C
Max. ambient temperature: 85 °C
Electrical connection 1, type: Socket
Electrical connection 1, thread size: M12x1
Electrical connection 1, number of poles: 5-pin
Cable exit 1: angled
Electrical connection 2, type: without wire end ferrule, tin-plated
Electrical connection 2, number of poles: 4-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 1, number of poles	Electrical connection 1, coding	Cable exit 1	Electrical connection 2, type	Electrical connection 2, number of poles	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	5-pin	A-coded	angled	open cable ends	4-pin	3	1834484259
48 V AC/DC	Socket	M12x1	5-pin	A-coded	angled	open cable ends	4-pin	5	1834484260
48 V AC/DC	Socket	M12x1	5-pin	A-coded	angled	open cable ends	4-pin	10	1834484261

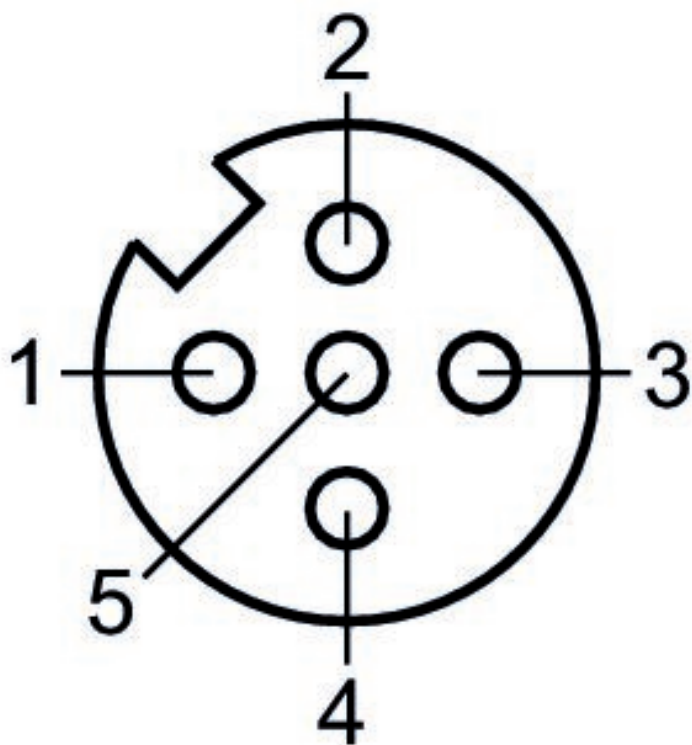
Dimensions



L = length

1834484259, 1834484260, 1834484261

Pin assignment, socket



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

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