

Series CL03

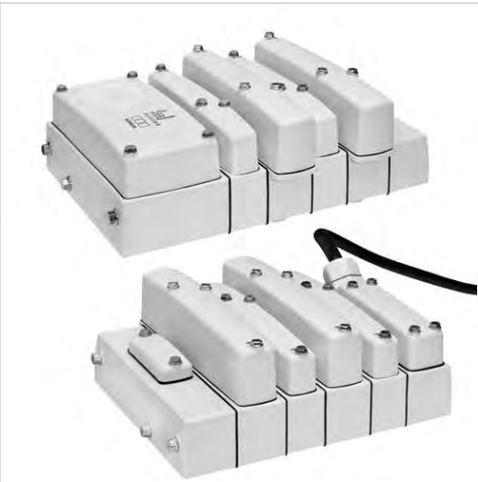


AVENTICS™ Series CL03





Valve system, Series CL03

- Configurable valve systems, suitable for use in food processing



Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	44 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	1.12 Cv
Operational voltage electronics	24 V DC
Number of valve positions max.	18
Protection class with connection	IP65 IP67 IP69K
DC operating voltage	24 V
An example configuration is illustrated. The delivered product may thus deviate from the illustration.	

Overview of variants

	Version	You have the following options:
	Multipole	Electrical connection Multipole suitable for use in food processing
	Direct fieldbus connection	Supported fieldbus protocols: PROFIBUS DP CANopen DeviceNet PROFINET IO EtherNET/IP

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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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).

See the following pages on the series for technical data on individual components.
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
End plate	Polyamide fiber-glass reinforced
Seal	Hydrogenated acrylonitrile butadiene rubber

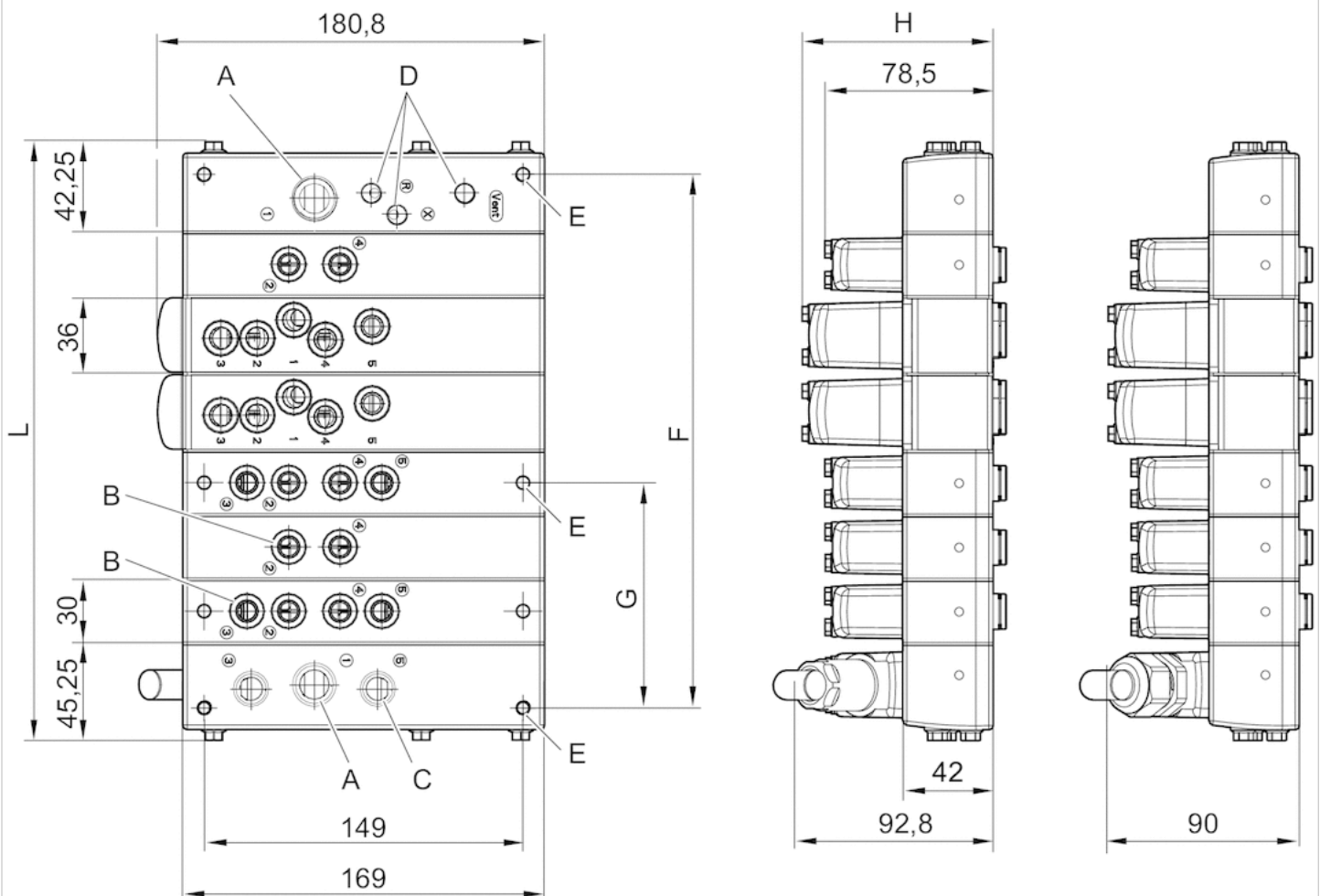
Material

Base plate

Polyamide fiber-glass reinforced

Dimensions

Dimensions in mm, Multipole plug



A = port 1: G 1/2

B = for 2-ported and 4-ported subbases: all ports G 1/4 or push-in 8 mm. For 5-ported subbases: all ports G 1/4 or push-in 10 mm

C = ports 3 and 5: G 3/8

D = external supply and exhaust for pilot valves and ventilation port: G 1/8

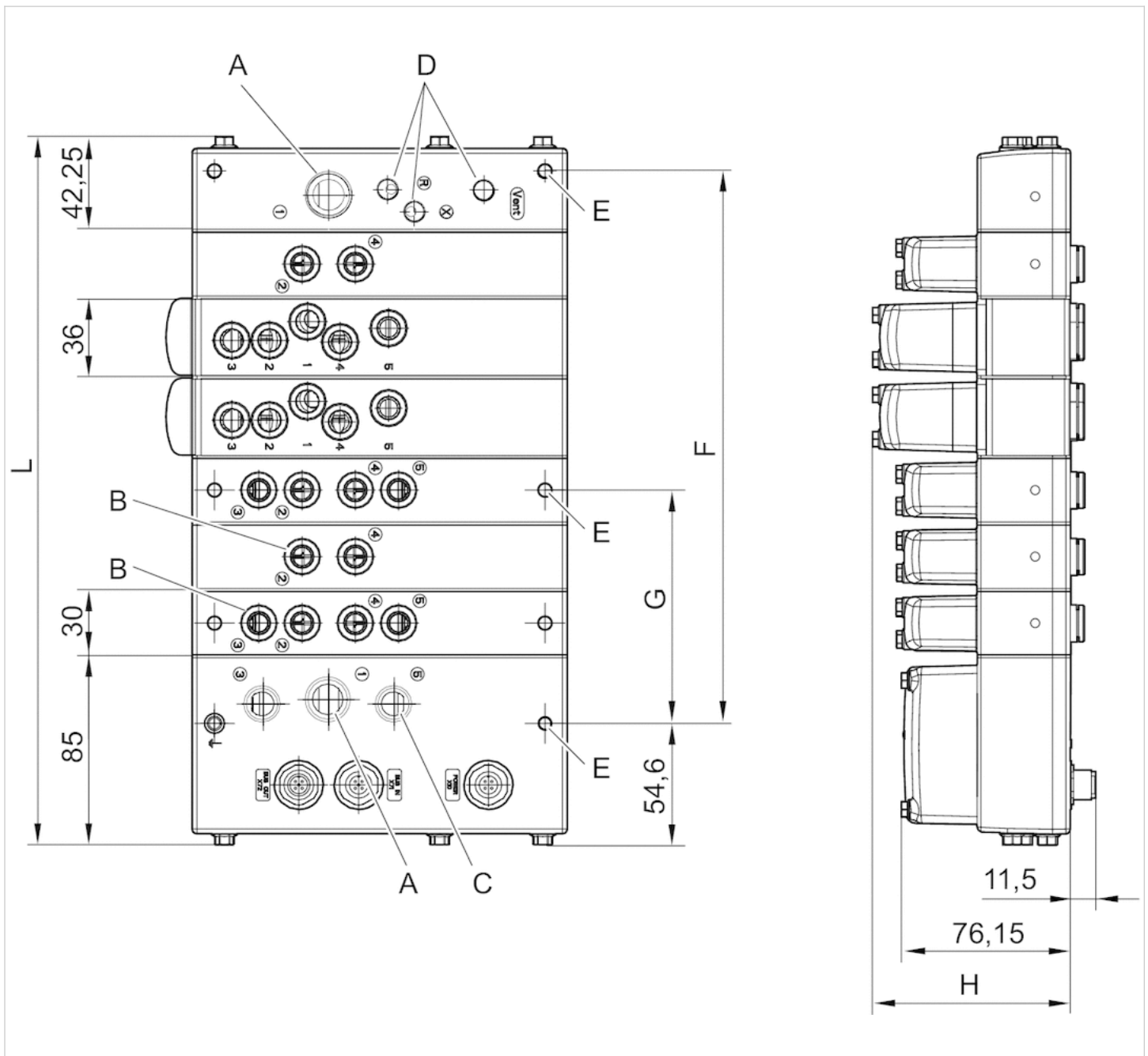
E = mounting thread M6, max. thread depth 15 mm

F = $57.25 + (\text{number of 2-ported and 4-ported subbases}) \cdot 30 + (\text{number of 5-ported subbases}) \cdot 36$ G = mounting on 4-ported subbase $15.25 + (\text{number of 2-ported and 4-ported subbases}) \cdot 30 + (\text{number of 5-ported subbases}) \cdot 36$ G = mounting on 5-ported subbase $12.25 + (\text{number of 2-ported and 4-ported subbases}) \cdot 30 + (\text{number of 5-ported subbases}) \cdot 36$ L = $87.5 + (\text{number of 2-ported and 4-ported subbases}) \cdot 30 + (\text{number of 5-ported subbases}) \cdot 36$

H = 89.15 (IP69K version)

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

Dimensions in mm, Direct fieldbus connection (BDC)



$G = \text{mounting on 4-ported subbase } 0.60'' + (\text{number of 2-ported and 4-ported subbases}) * 1.18'' + (\text{number of 5-ported subbases}) * 1.42''$

$G = \text{mounting on 5-ported subbase } 0.48'' + (\text{number of 2-ported and 4-ported subbases}) * 1.18'' + (\text{number of 5-ported subbases}) * 1.42''$

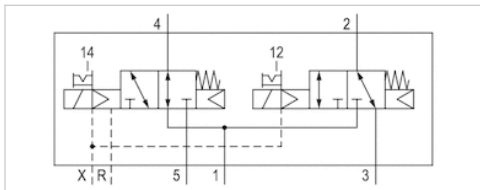
$L = 5.01'' + (\text{number of 2-ported and 4-ported subbases}) * 1.18'' + (\text{number of 5-ported subbases}) * 1.42''$

$H = 3.51''$ (IP69K version)

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




2x3/2-directional valve, Series CL03-EV

- 2x3/2
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- NO/NC
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	44 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO		Compressed air connection	Compressed air connection
			Input	Output
R412017959		NO/NC	Ø 8	Ø 8
R412017960		NO/NC	Ø 8	Ø 8
R412017961		NO/NC	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412017959	Ø 8	Ø 4
R412017960	Ø 8	Ø 4
R412017961	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Exhaust	DC	DC
R412017959	Ø 4	24 V	-15% / +20%
R412017960	Ø 4	24 V	-15% / +20%
R412017961	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412017959	0.35 W	0.22	2.9 l/(s*bar)	Brass nickel-plated
R412017960	0.35 W	0.22	2.9 l/(s*bar)	Stainless steel
R412017961	0.35 W	0.22	2.9 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

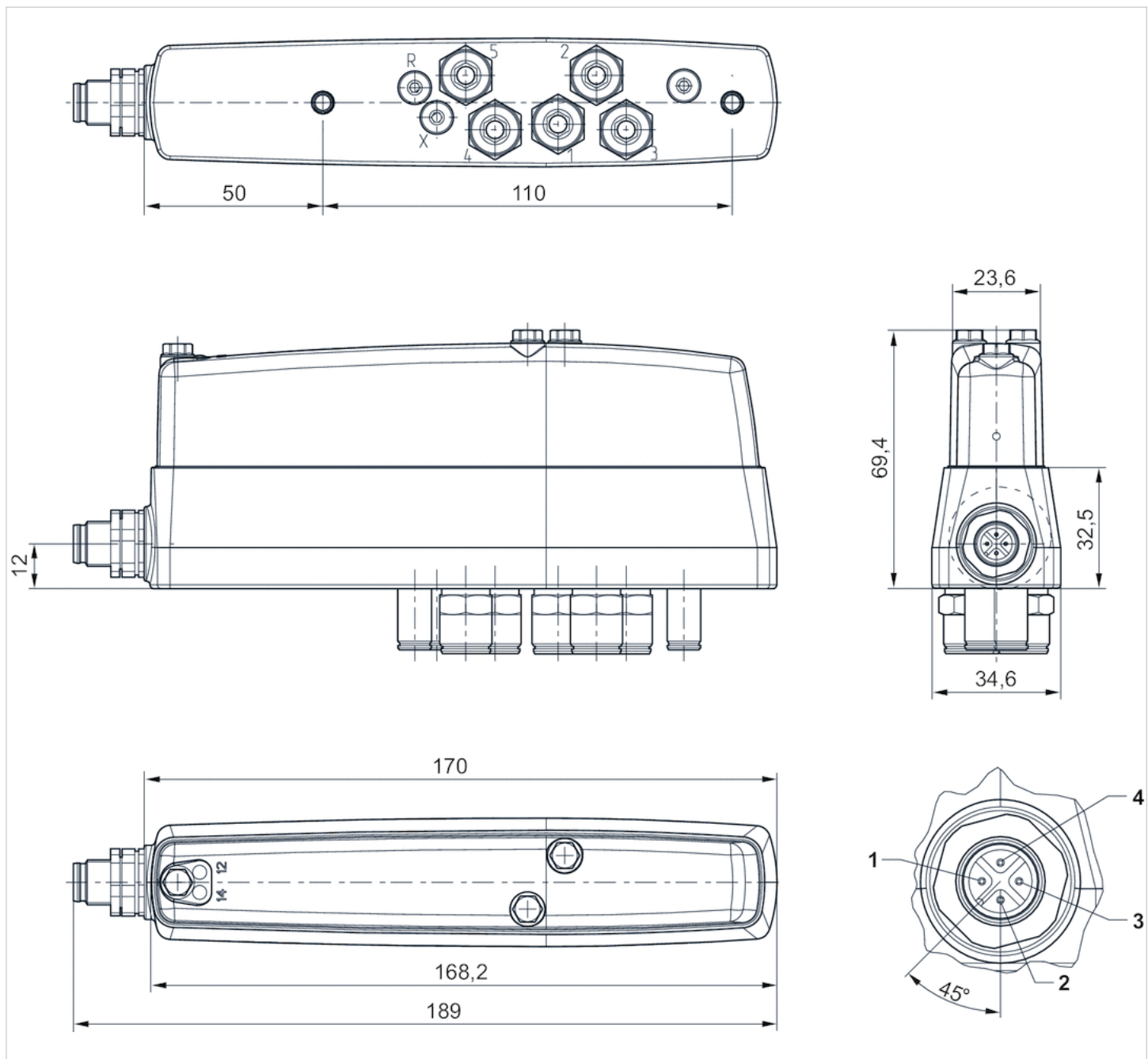
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel

Dimensions

Dimensions

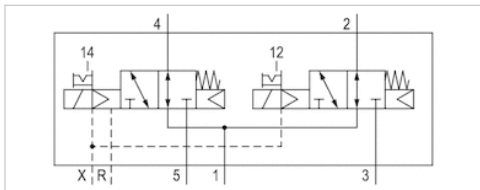


Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14




2x3/2-directional valve, Series CL03-EV

- 2x3/2
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- NO/NO
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO		Compressed air connection	Compressed air connection
			Input	Output
R412017956		NO/NO	Ø 8	Ø 8
R412017957		NO/NO	Ø 8	Ø 8
R412017958		NO/NO	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412017956	Ø 8	Ø 4
R412017957	Ø 8	Ø 4
R412017958	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Exhaust	DC	DC
R412017956	Ø 4	24 V	-15% / +20%
R412017957	Ø 4	24 V	-15% / +20%
R412017958	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412017956	0.35 W	0.22	2.9 l/(s*bar)	Brass nickel-plated
R412017957	0.35 W	0.22	2.9 l/(s*bar)	Stainless steel
R412017958	0.35 W	0.22	2.9 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

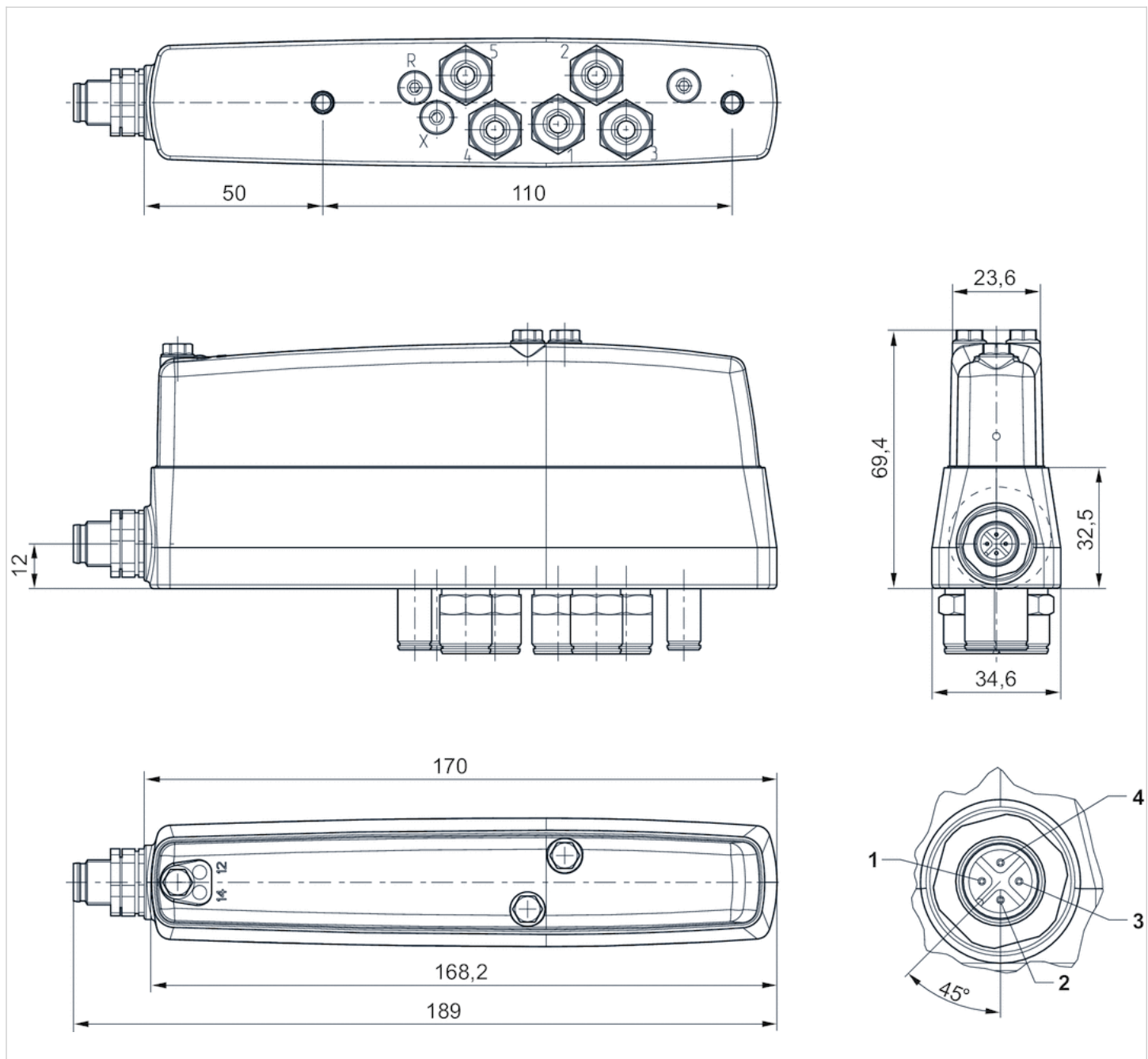
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel

Dimensions

Dimensions

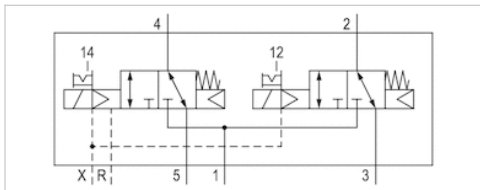


Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14




2x3/2-directional valve, Series CL03-EV

- 2x3/2
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- NC/NC
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO		Compressed air connection	Compressed air connection
			Input	Output
R412021814		NC/NC	Ø 8	Ø 8
R412021815		NC/NC	Ø 8	Ø 8
R412021816		NC/NC	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412021814	Ø 8	Ø 4
R412021815	Ø 8	Ø 4
R412021816	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Exhaust	DC	DC
R412021814	Ø 4	24 V	-15% / +20%
R412021815	Ø 4	24 V	-15% / +20%
R412021816	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412021814	0.35 W	0.22	2.9 l/(s*bar)	Brass nickel-plated
R412021815	0.35 W	0.22	2.9 l/(s*bar)	Stainless steel
R412021816	0.35 W	0.22	2.9 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

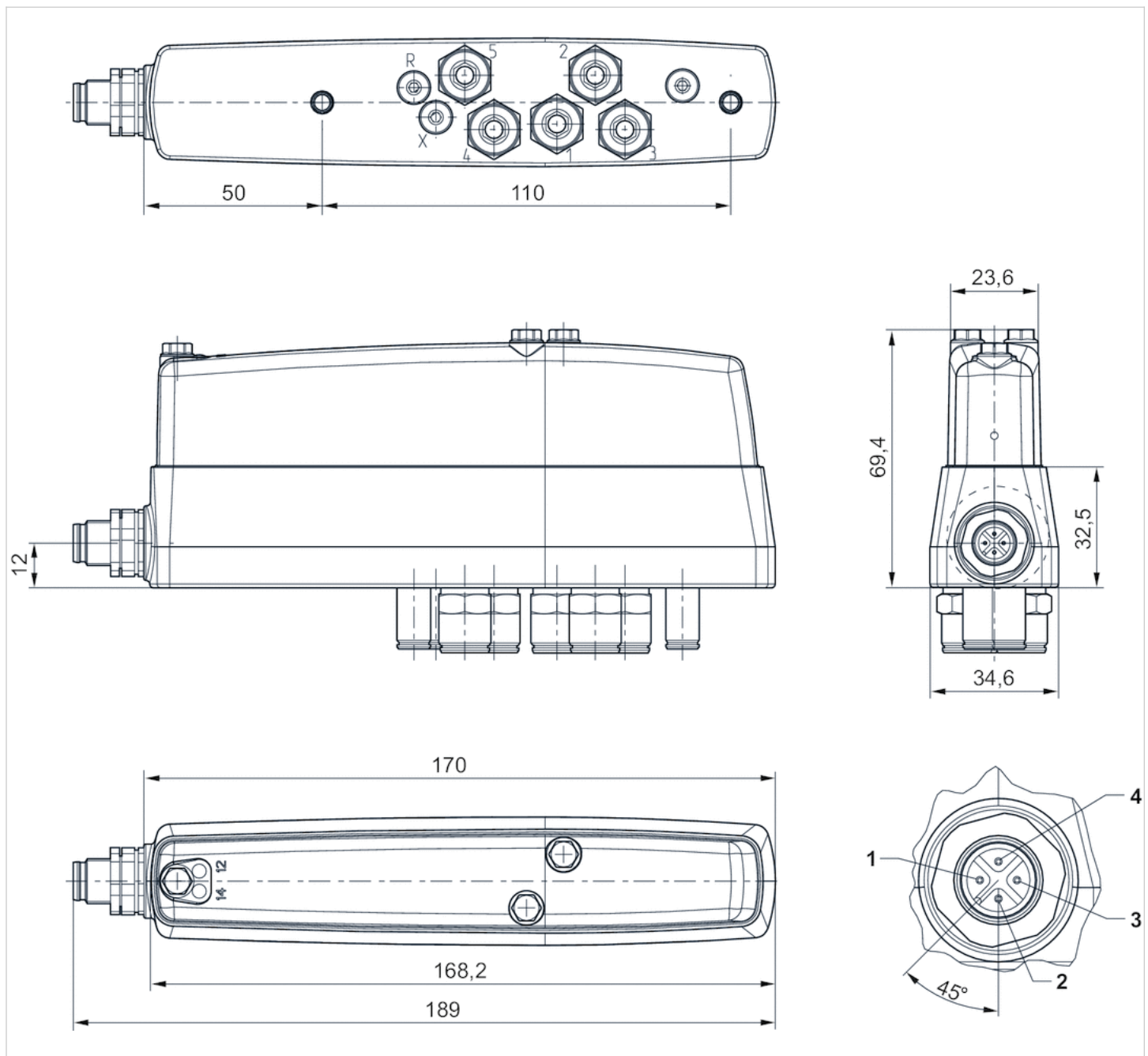
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel

Dimensions

Dimensions

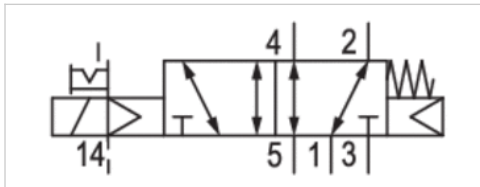


Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14




5/2-directional valve, Series CL03-EV

- 5/2
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- single solenoid
- With spring/air spring return
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	44 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	23 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO	Compressed air connection	Compressed air connection
		Input	Output
R412017962		Ø 8	Ø 8
R412017963		Ø 8	Ø 8
R412017964		G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412017962	Ø 8	Ø 4
R412017963	Ø 8	Ø 4
R412017964	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Exhaust	DC	DC
R412017962	Ø 4	24 V	-15% / +20%
R412017963	Ø 4	24 V	-15% / +20%
R412017964	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412017962	0.35 W	0.22	2.9 l/(s*bar)	Brass nickel-plated
R412017963	0.35 W	0.22	2.9 l/(s*bar)	Stainless steel
R412017964	0.35 W	0.22	2.9 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

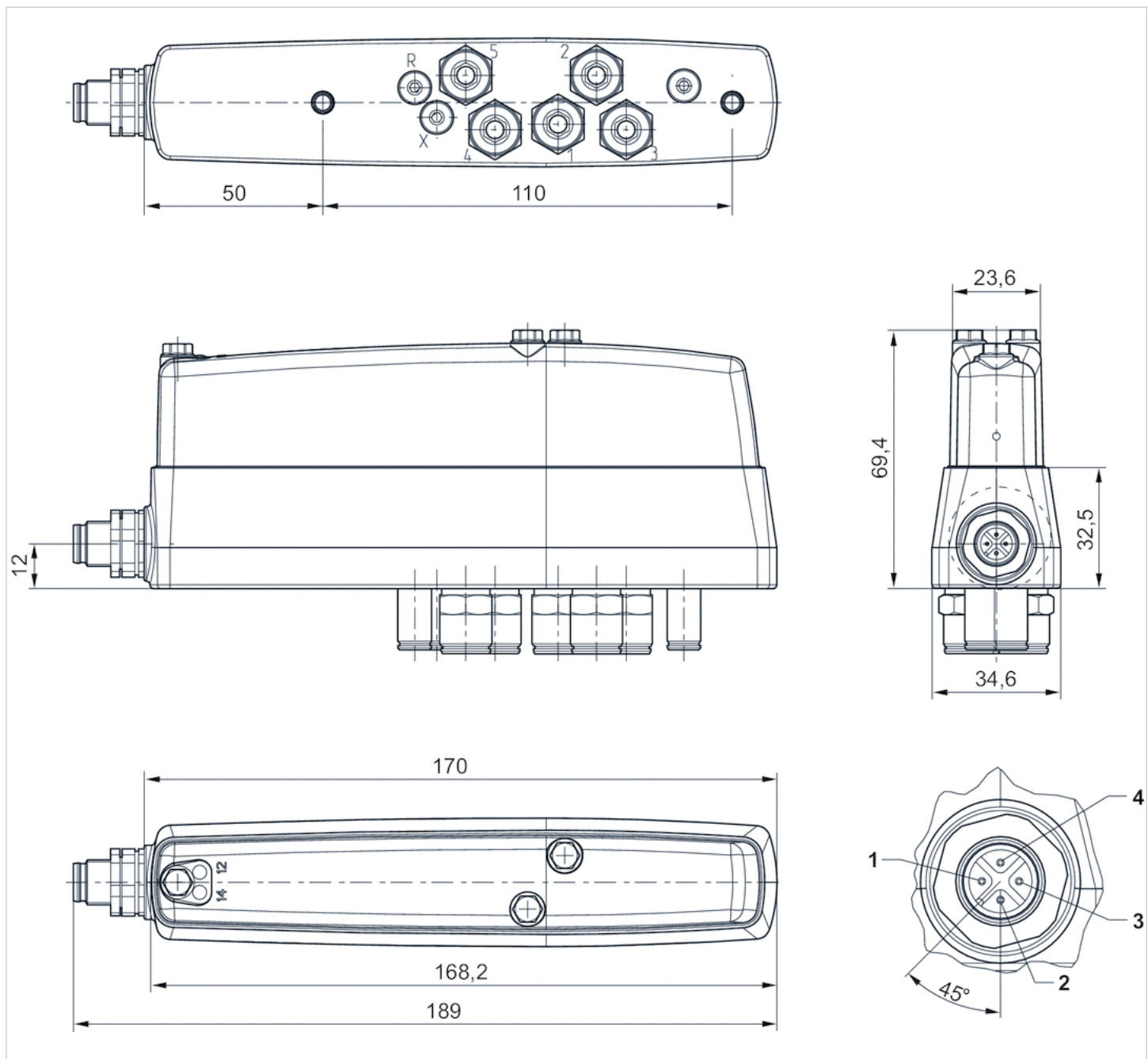
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel

Dimensions

Dimensions

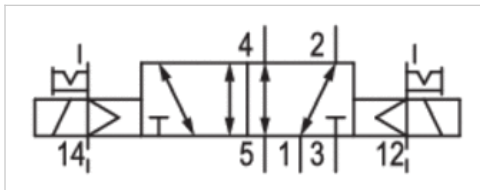


Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14




5/2-directional valve, Series CL03-EV

- 5/2
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- double solenoid
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	44 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	13 ms
Typ. switch-off time	15 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO	Compressed air connection	Compressed air connection
		Input	Output
R412017950		Ø 8	Ø 8
R412017951		Ø 8	Ø 8
R412017952		G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Exhaust	Pilot Input
R412017950	Ø 8	Ø 4
R412017951	Ø 8	Ø 4
R412017952	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Exhaust	DC	DC
R412017950	Ø 4	24 V	-15% / +20%
R412017951	Ø 4	24 V	-15% / +20%
R412017952	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412017950	0.35 W	0.22	2.9 l/(s*bar)	Brass nickel-plated
R412017951	0.35 W	0.22	2.9 l/(s*bar)	Stainless steel
R412017952	0.35 W	0.22	2.9 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

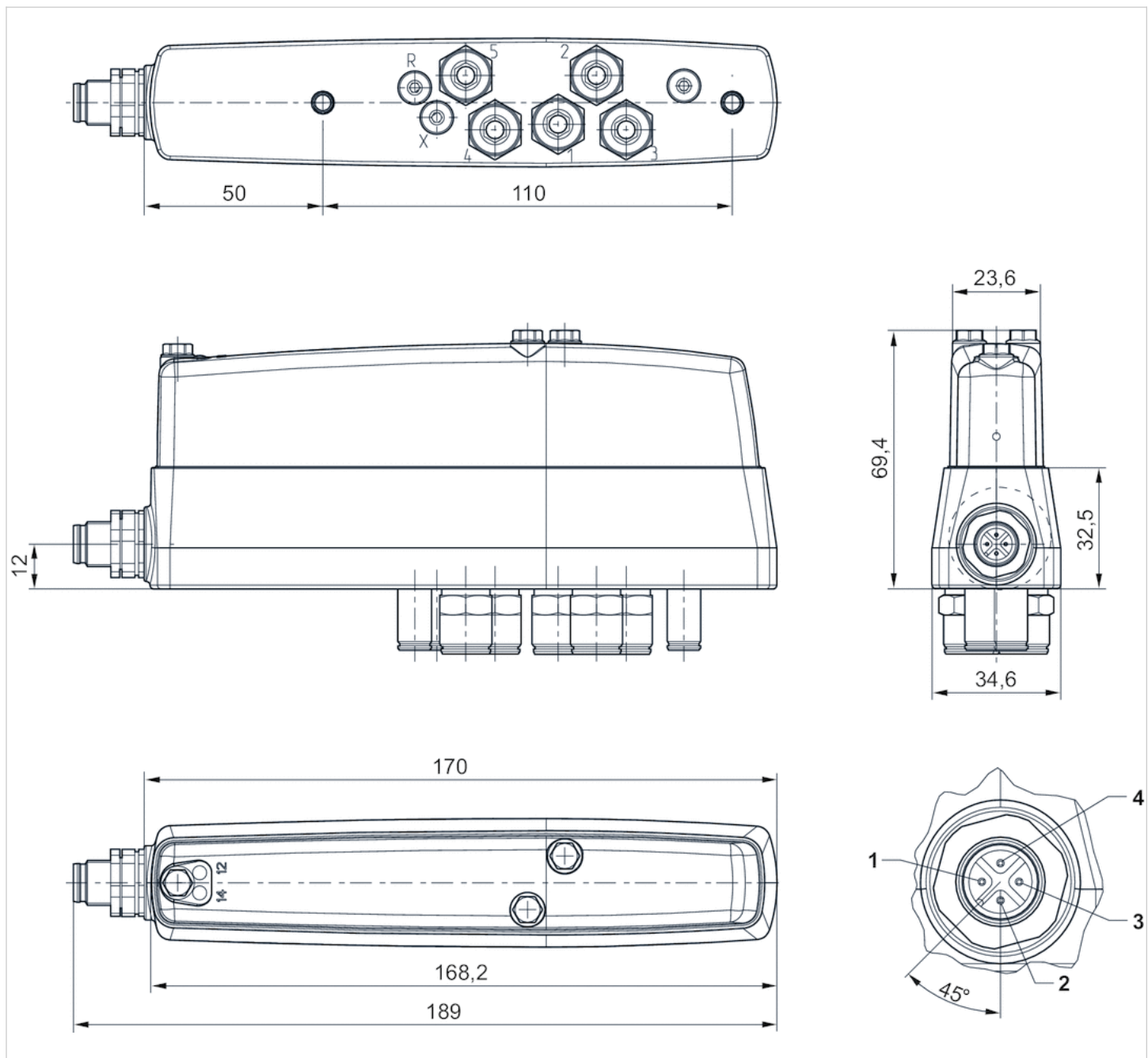
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel

Dimensions

Dimensions

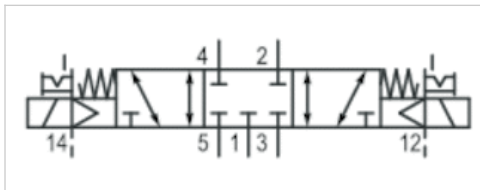


Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14




5/3-directional valve, Series CL03-EV

- 5/3
- $Q_n = 0.711 \text{ Cv}$
- Pilot valve width : 16 mm
- closed center
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- Pilot : External
- suitable for use in food processing



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	44 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	0.711 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
mounting screws	M5
Mounting screw tightening torque	1.48 ft./lbs.
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0.364 lbs

Technical data

Part No.	MO		Compressed air connection
			Input
R412017953		closed center	Ø 8
R412017954		closed center	Ø 8
R412017955		closed center	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
R412017953	Ø 8	Ø 8
R412017954	Ø 8	Ø 8
R412017955	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Pilot Input	Pilot Exhaust
R412017953	Ø 4	Ø 4
R412017954	Ø 4	Ø 4
R412017955	M5	M5

Part No.	Operational voltage	Voltage tolerance	Power consumption
	DC	DC	DC
R412017953	24 V	-15% / +20%	0.35 W
R412017954	24 V	-15% / +20%	0.35 W
R412017955	24 V	-15% / +20%	0.35 W

Part No.	Flow conductance	Flow conductance	push-in fitting
	b	C-value	
R412017953	0.39	2.5 l/(s*bar)	Brass nickel-plated
R412017954	0.39	2.5 l/(s*bar)	Stainless steel
R412017955	0.39	2.5 l/(s*bar)	-

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

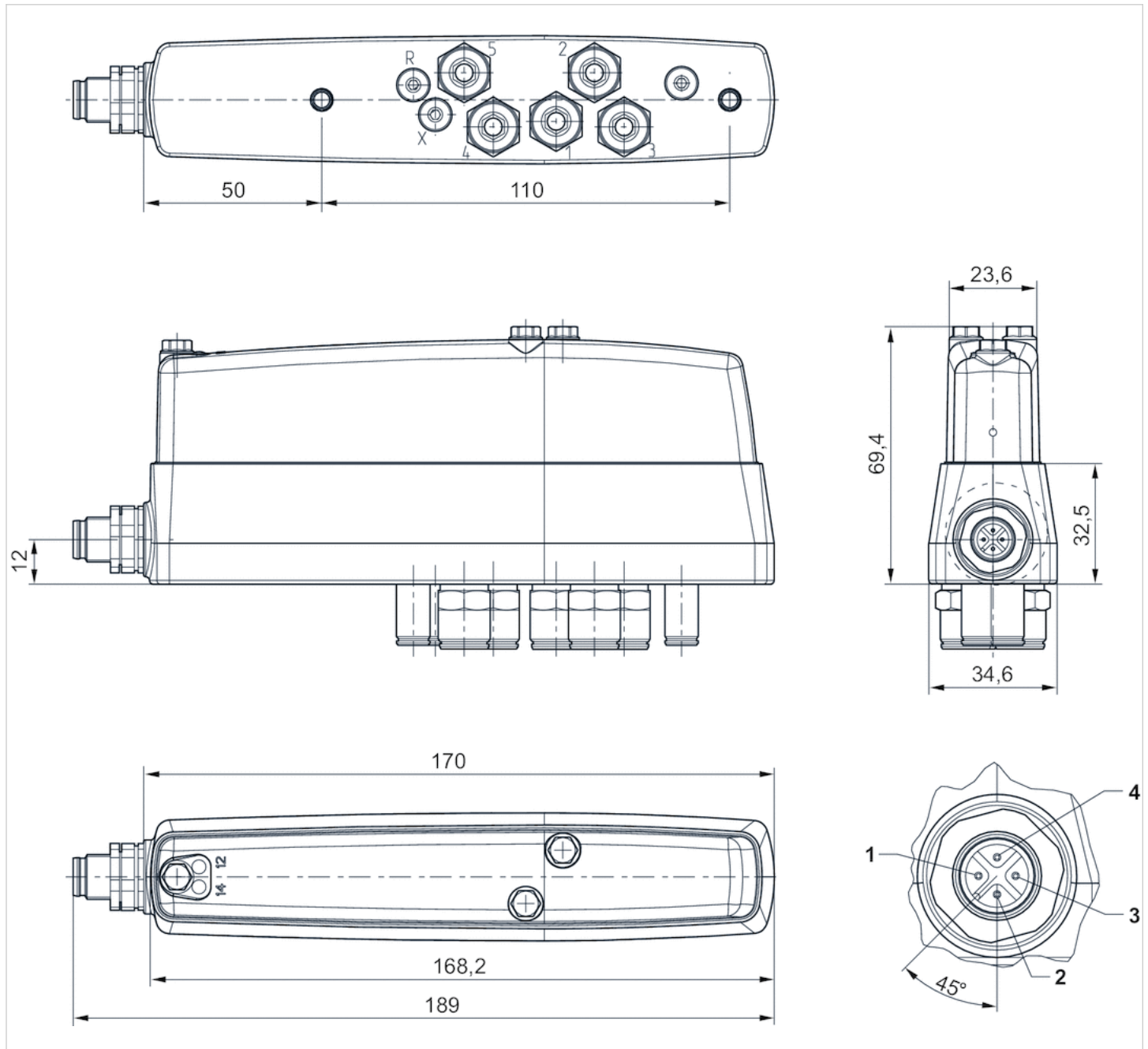
Material

Threaded bushing

Brass, nickel-plated Stainless steel

Dimensions

Dimensions



Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14









2x3/2-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 2x3/2
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- NC/NC NO/NO NC/NO NO/NC
- Plate connection
- Manual override : with detent
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.		MO		Operational voltage	Voltage tolerance
				DC	DC
0820055101			NC/NC	24 V	-15% / +20%
0820055201			NO/NO	24 V	-15% / +20%
0820055301			NC/NO	24 V	-15% / +20%
0820055311			NO/NC	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055101	0.35 W	0.22	2.97 l/(s*bar)
0820055201	0.35 W	0.22	2.97 l/(s*bar)
0820055301	0.35 W	0.22	2.97 l/(s*bar)

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055311	0.35 W	0.22	2.97 l/(s*bar)

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

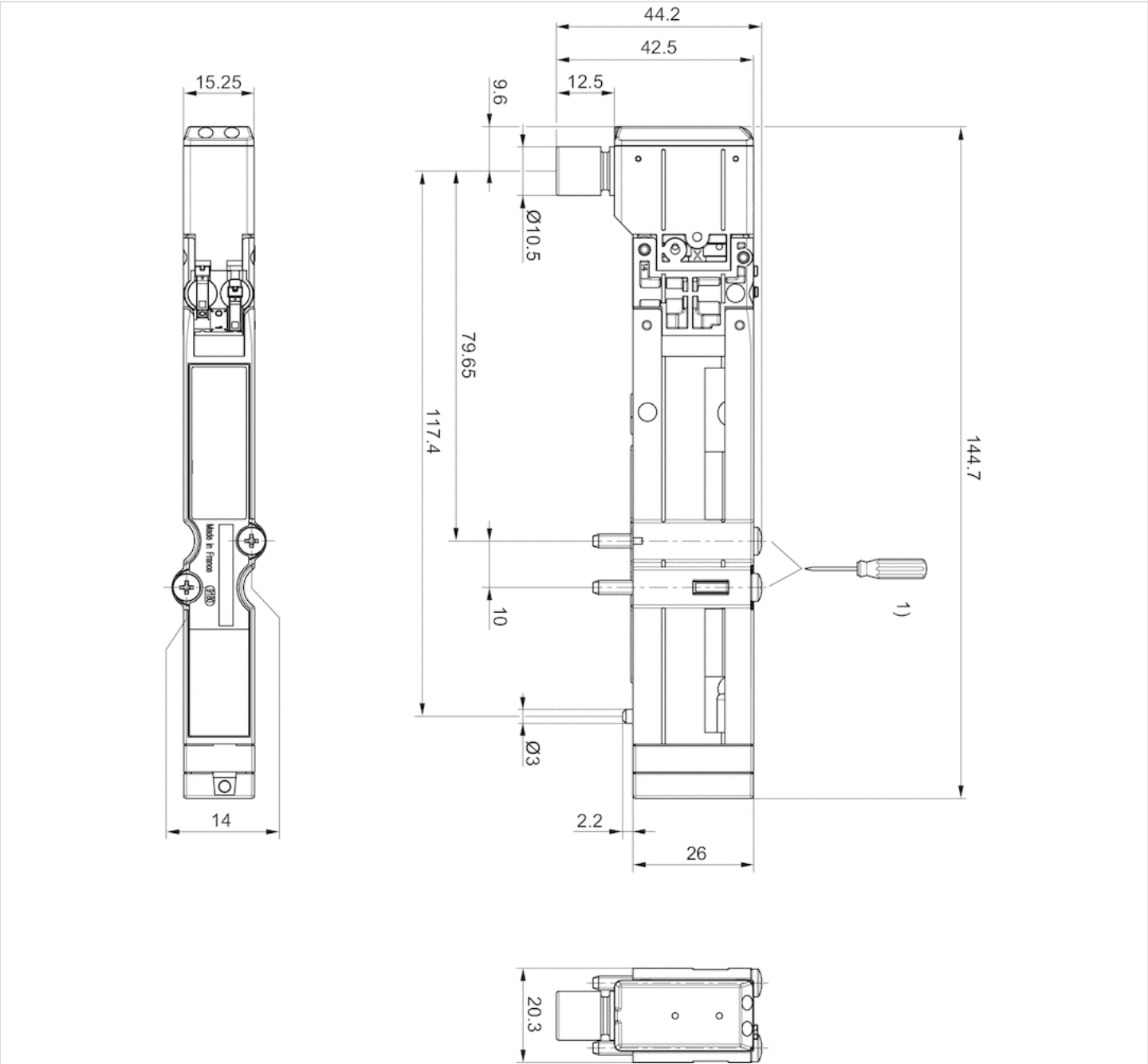
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



1) = 1.1Nm 800tr/min. max.









2x3/2-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 2x3/2
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- NC/NC NO/NO NC/NO NO/NC
- Plate connection
- Manual override : without detent
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.		MO		Operational voltage	Voltage tolerance
				DC	DC
0820055102			NC/NC	24 V	-15% / +20%
0820055202			NO/NO	24 V	-15% / +20%
0820055302			NC/NO	24 V	-15% / +20%
0820055312			NO/NC	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055102	0.35 W	0.22	2.97 l/(s*bar)
0820055202	0.35 W	0.22	2.97 l/(s*bar)

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055302	0.35 W	0.22	2.97 l/(s*bar)
0820055312	0.35 W	0.22	2.97 l/(s*bar)

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

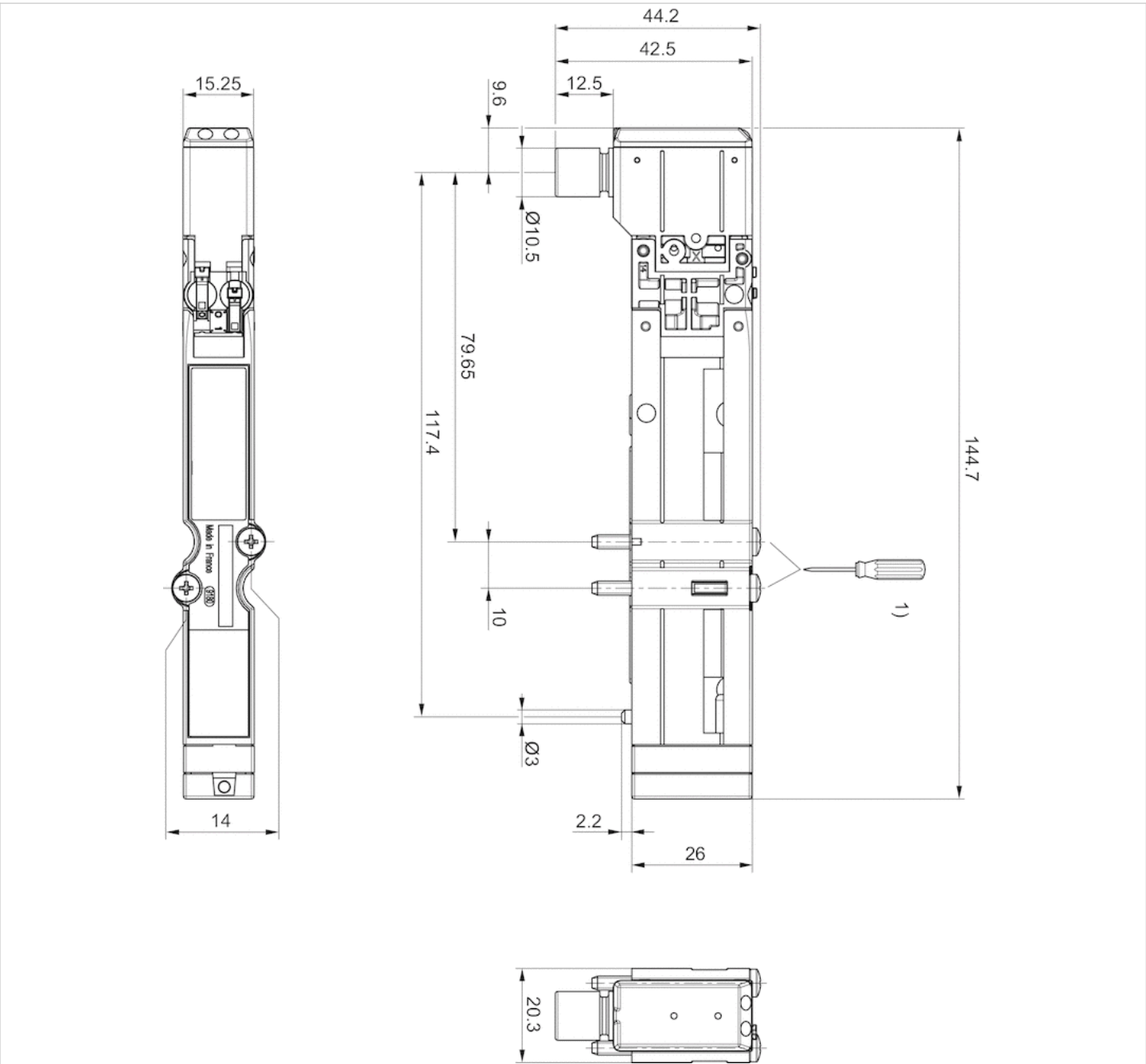
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



1) = 1.1Nm 800tr/min. max.







2x3/2-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 2x3/2
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- NC/NC NO/NO NC/NO
- Plate connection
- Manual override : with detent
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	33 ms
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.		MO		Operational voltage	Voltage tolerance
				DC	DC
R424B10512			NC/NC	24 V	-15% / +20%
R424B10510			NO/NO	24 V	-15% / +20%
R424B10514			NC/NO	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
R424B10512	0.35 W	0.4	5.87 l/(s*bar)
R424B10510	0.35 W	0.4	5.87 l/(s*bar)
R424B10514	0.35 W	0.4	5.87 l/(s*bar)

Nominal flow Qn at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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).

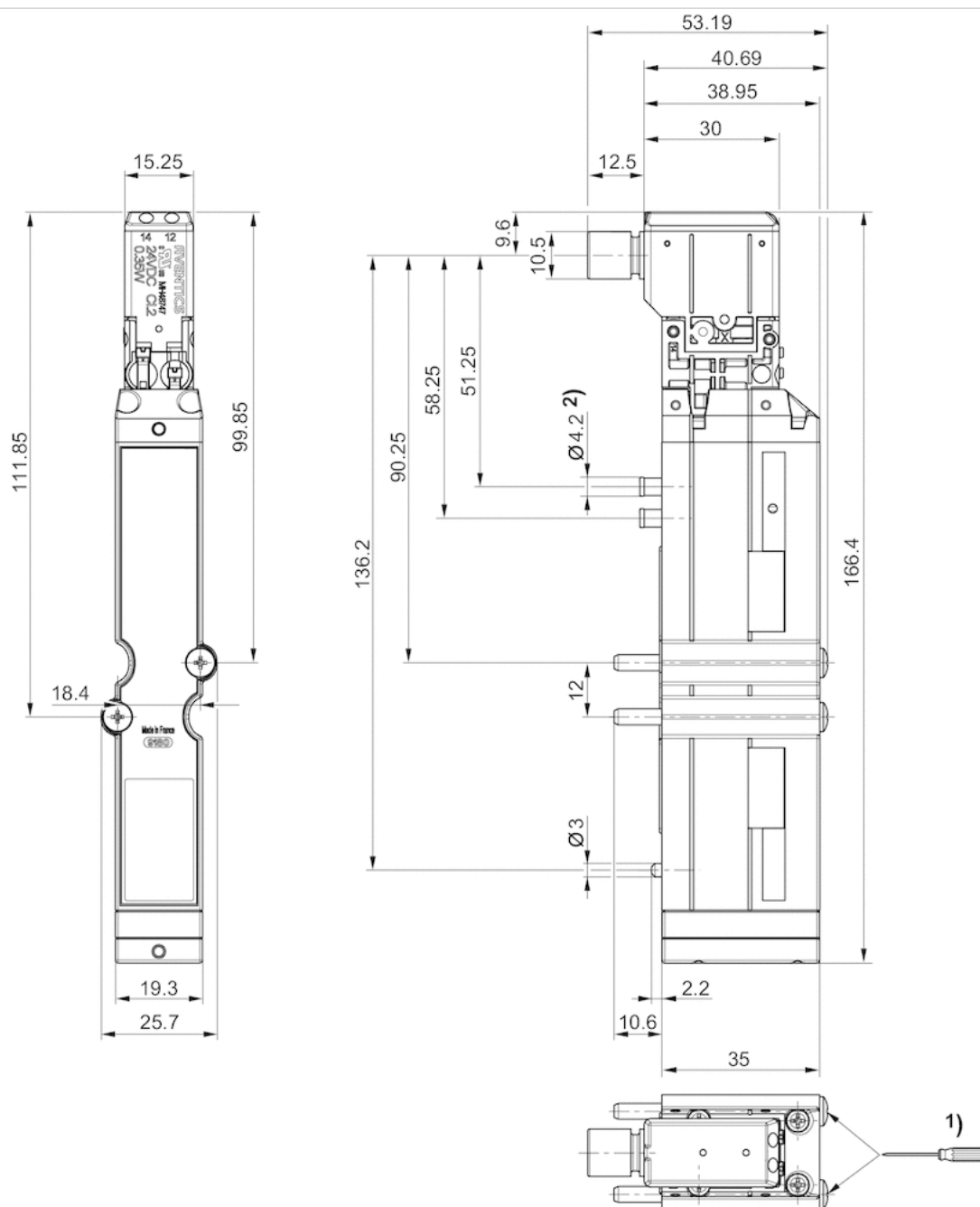
The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
The UL certification refers to the pilot valve.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

Dimensions



1) =1.1Nm 800tr/min. max.







5/2-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 5/2
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Manual override : with detent
- single solenoid double solenoid
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.		MO	Operational voltage	Voltage tolerance
			DC	DC
0820055051			24 V	-15% / +20%
0820055501			24 V	-15% / +20%
0820055001			24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
0820055051	0.35 W	0.22	2.98 l/(s*bar)	16 ms
0820055501	0.35 W	0.22	2.97 l/(s*bar)	13 ms
0820055001	0.35 W	0.22	2.98 l/(s*bar)	15 ms

Part No.	Typ. switch-off time
0820055051	23 ms
0820055501	15 ms
0820055001	23 ms

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

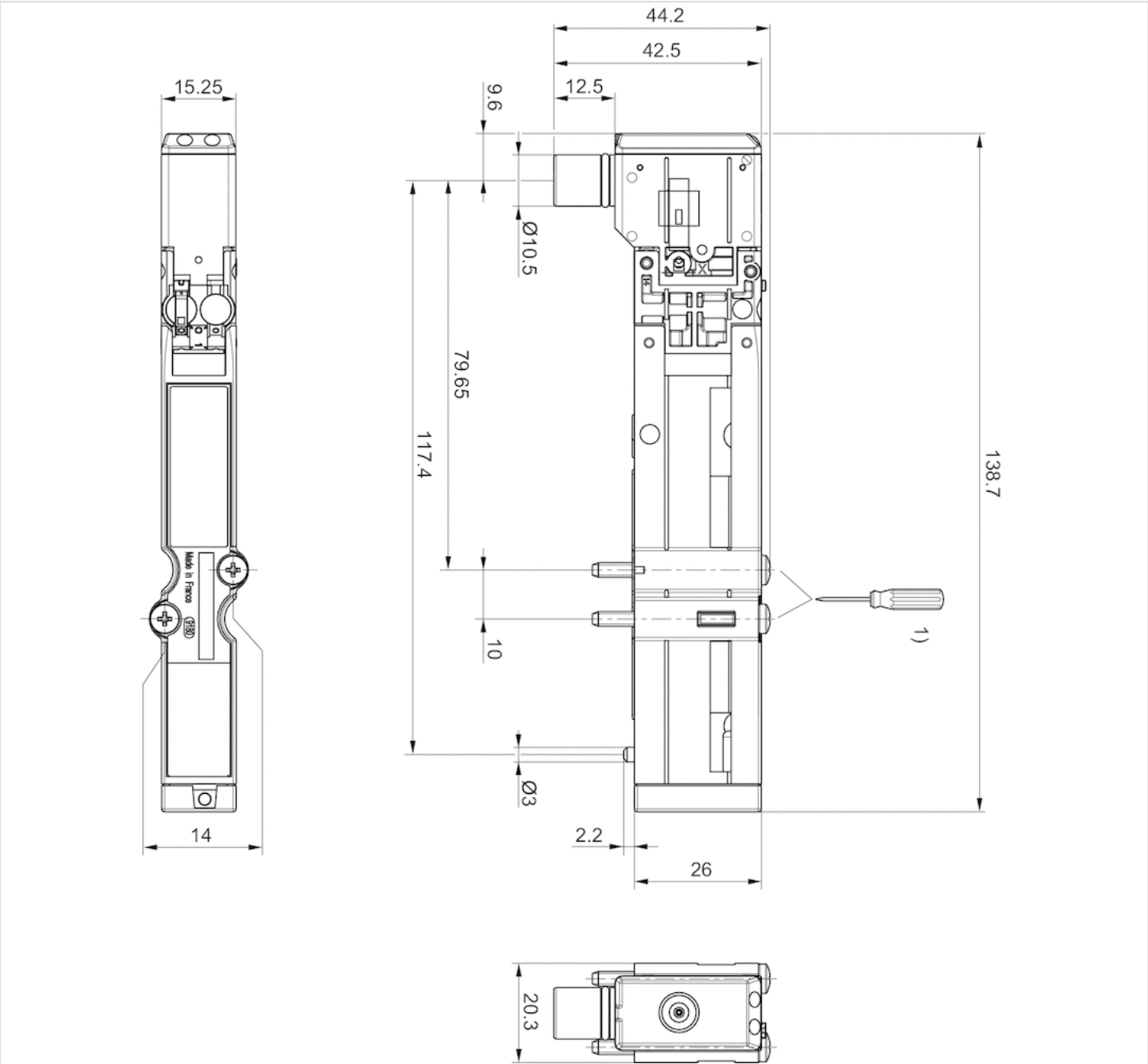
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions









2x3/2-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 2x3/2
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- NC/NC NO/NO NC/NO
- Plate connection
- Manual override : without detent
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	33 ms
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.		MO			Operational voltage	Voltage tolerance
					DC	DC
R424B10511				NC/NC	24 V	-15% / +20%
R424B10339				NO/NO	24 V	-15% / +20%
R424B10513				NC/NO	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
R424B10511	0.35 W	0.4	5.87 l/(s*bar)
R424B10339	0.35 W	0.4	5.87 l/(s*bar)
R424B10513	0.35 W	0.4	5.87 l/(s*bar)

Nominal flow Qn at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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).

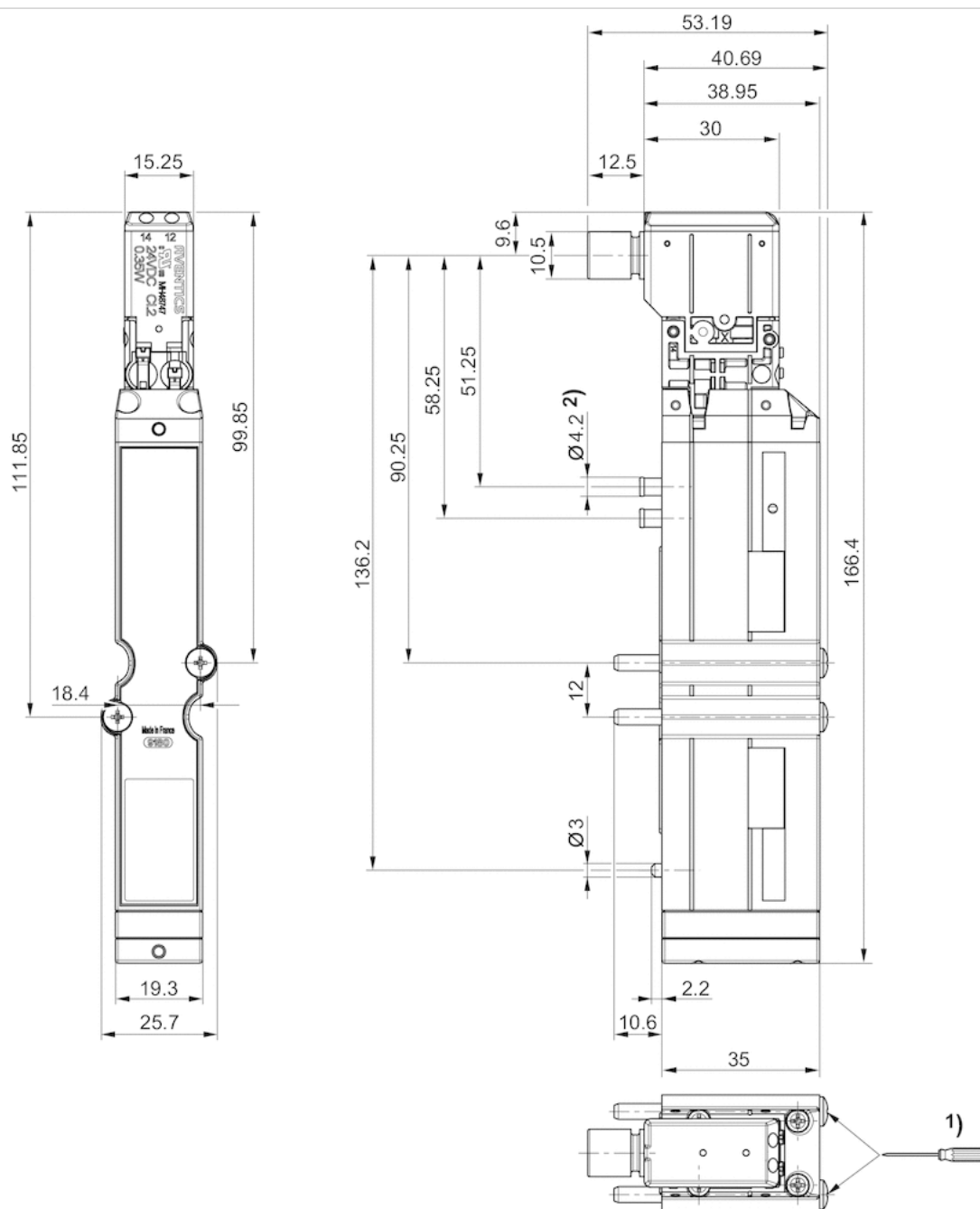
The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
The UL certification refers to the pilot valve.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

Dimensions



1) =1.1Nm 800tr/min. max.







5/2-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 5/2
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Manual override : without detent
- single solenoid double solenoid
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.		MO	Operational voltage	Voltage tolerance
			DC	DC
0820055052			24 V	-15% / +20%
0820055502			24 V	-15% / +20%
0820055002			24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
0820055052	0.35 W	0.22	2.98 l/(s*bar)	16 ms
0820055502	0.35 W	0.22	2.97 l/(s*bar)	13 ms
0820055002	0.35 W	0.22	2.98 l/(s*bar)	15 ms

Part No.	Typ. switch-off time
0820055052	23 ms
0820055502	15 ms
0820055002	23 ms

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

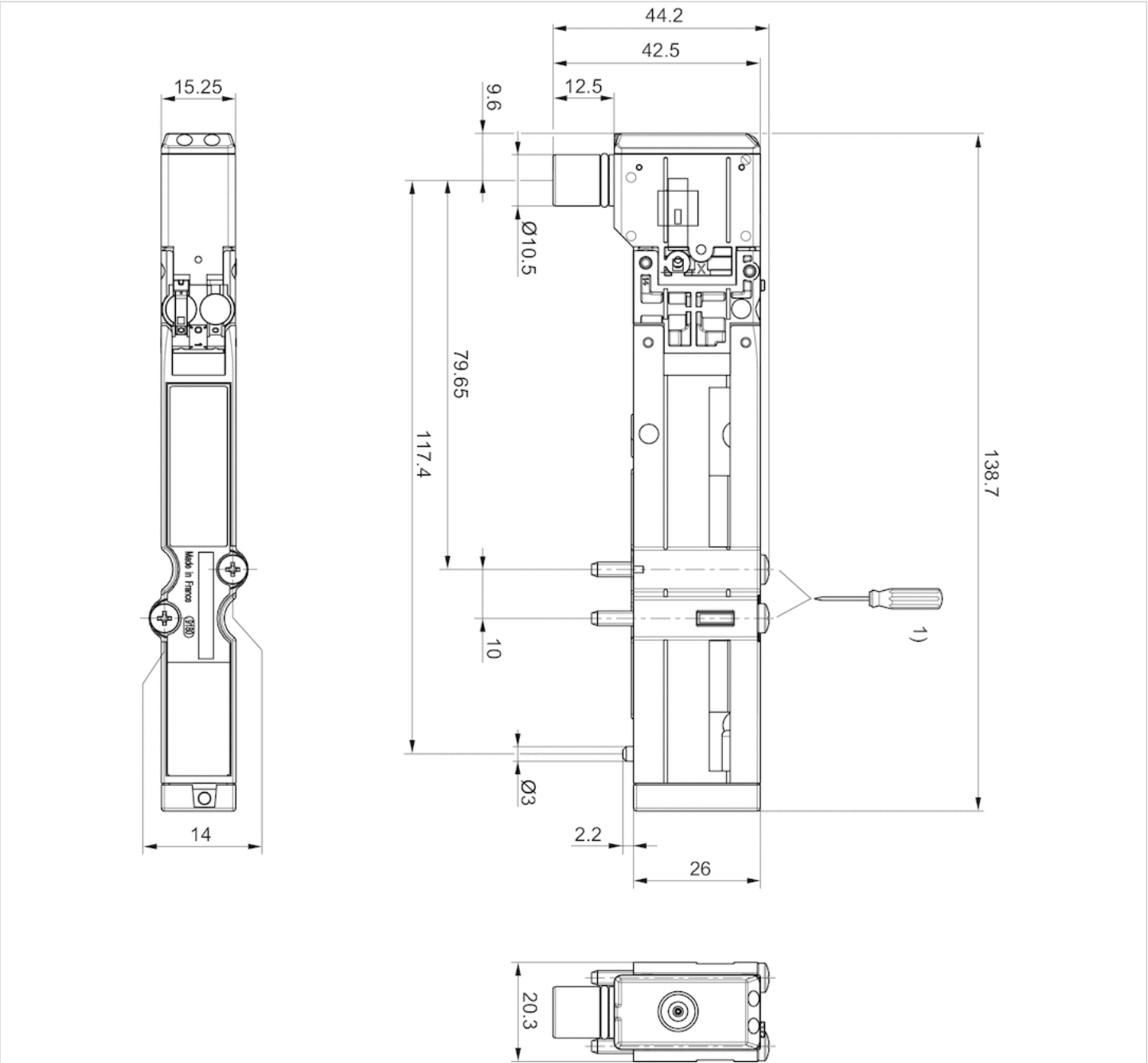
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



1) =1.1Nm 800tr/min. max.







5/2-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 5/2
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Can be assembled into blocks
- Manual override : with detent
- single solenoid
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.		MO	Operational voltage	Voltage tolerance
			DC	DC
0820056051			24 V	-15% / +20%
0820056501			24 V	-15% / +20%
0820056001			24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
0820056051	0.35 W	0.38	6.13 l/(s*bar)	13 ms
0820056501	0.35 W	0.38	6.13 l/(s*bar)	13 ms
0820056001	0.35 W	0.38	6.13 l/(s*bar)	19 ms

Part No.	Typ. switch-off time
0820056051	40 ms
0820056501	15 ms
0820056001	30 ms

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

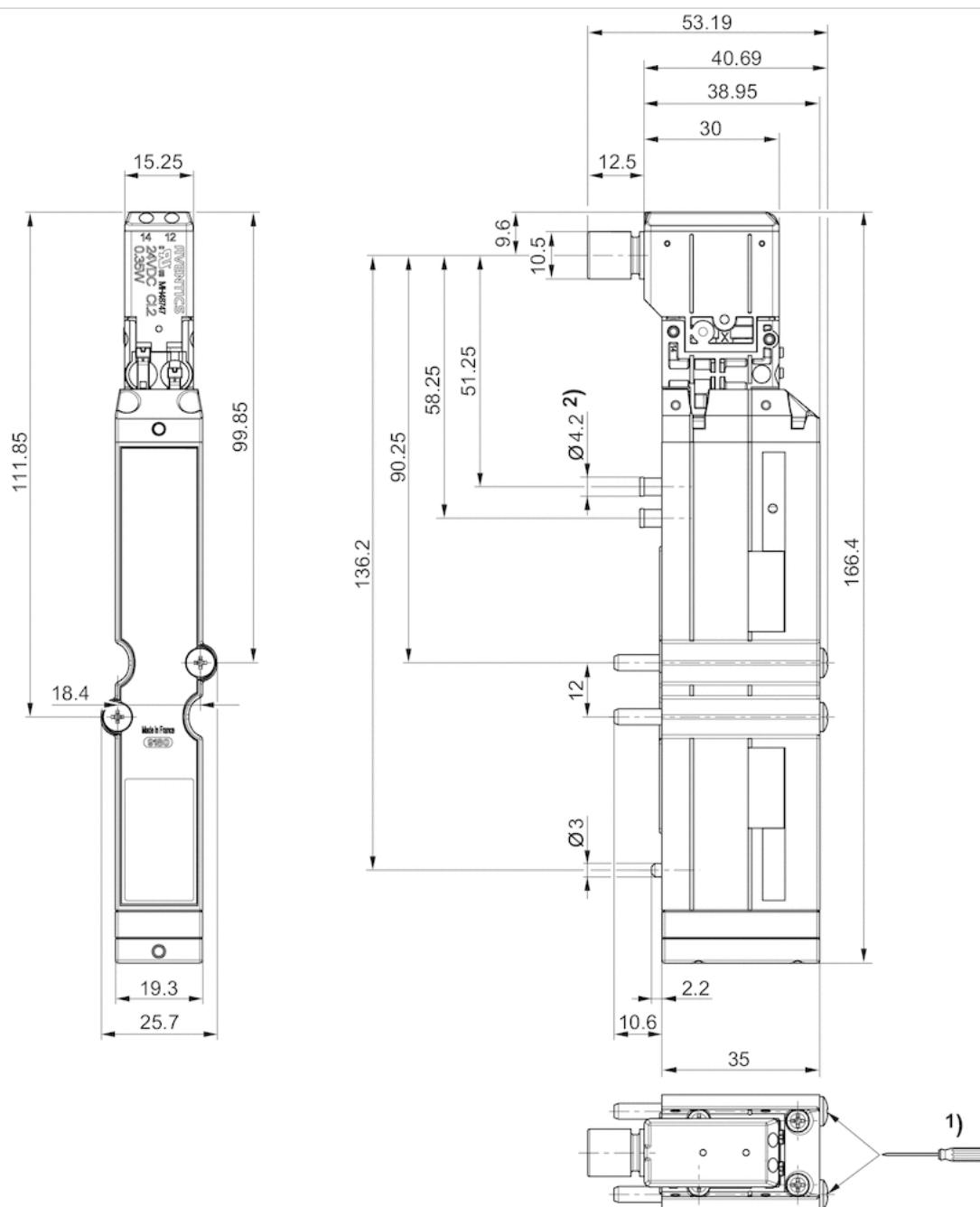
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

Dimensions



1) =1.1Nm 800tr/min. max.







5/2-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 5/2
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- Plate connection
- Manual override : without detent
- single solenoid double solenoid
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.		MO	Operational voltage	Voltage tolerance
			DC	DC
0820056052			24 V	-15% / +20%
0820056502			24 V	-15% / +20%
0820056002			24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
0820056052	0.35 W	0.38	6.13 l/(s*bar)	13 ms
0820056502	0.35 W	0.38	6.13 l/(s*bar)	13 ms
0820056002	0.35 W	0.38	6.13 l/(s*bar)	19 ms

Part No.	Typ. switch-off time
0820056052	40 ms
0820056502	15 ms
0820056002	30 ms

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

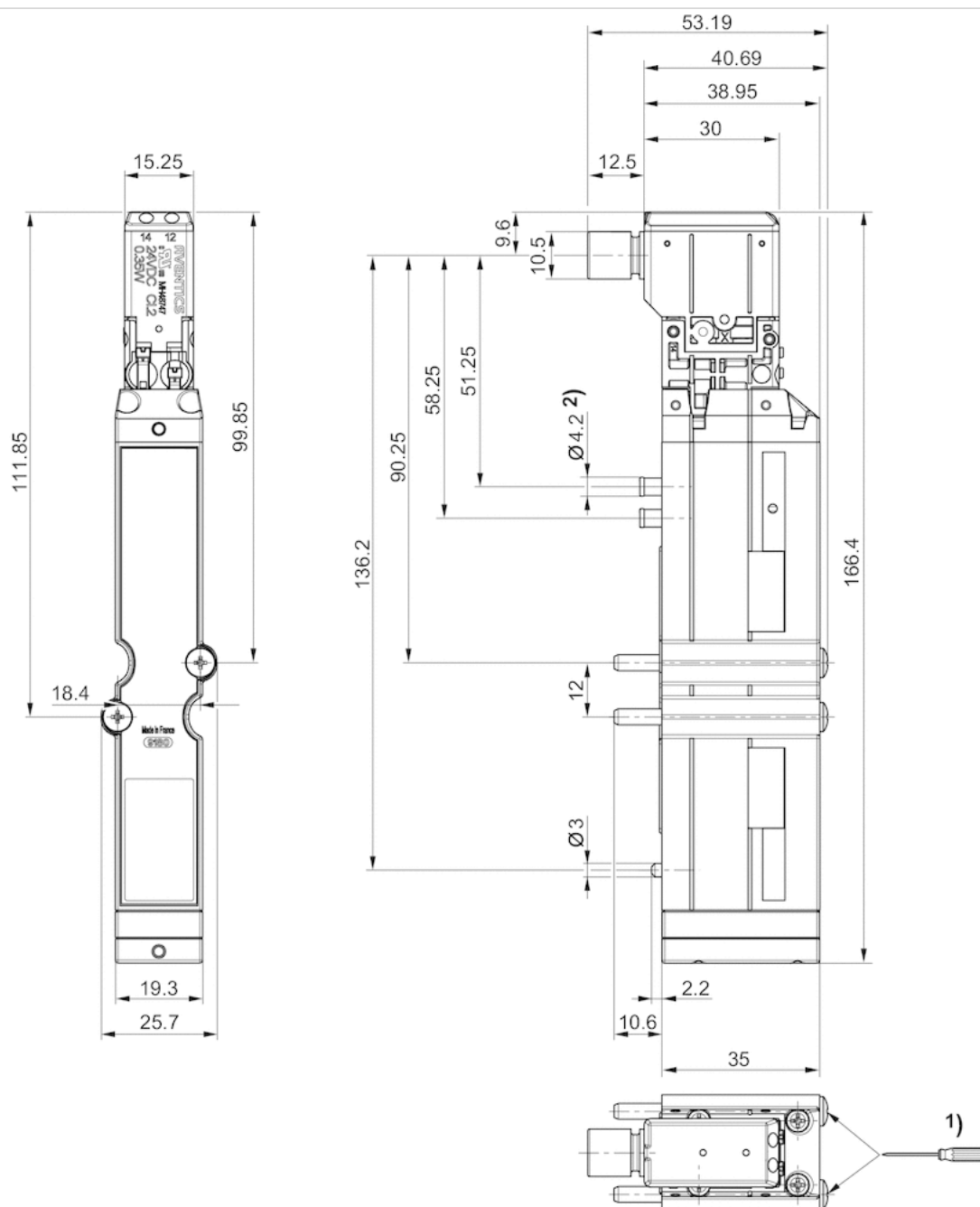
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

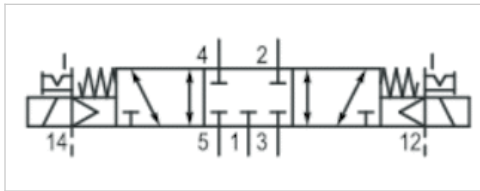
Dimensions



1) =1.1Nm 800tr/min. max.


5/3-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 5/3
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- closed center
- Plate connection
- Manual override : with detent
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.	MO		Operational voltage	Voltage tolerance
			DC	DC
0820055601		closed center	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055601	0.35 W	0.23	2.79 l/(s*bar)

Nominal flow Q_n at 87 psi and $\Delta p = 14.5$ psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

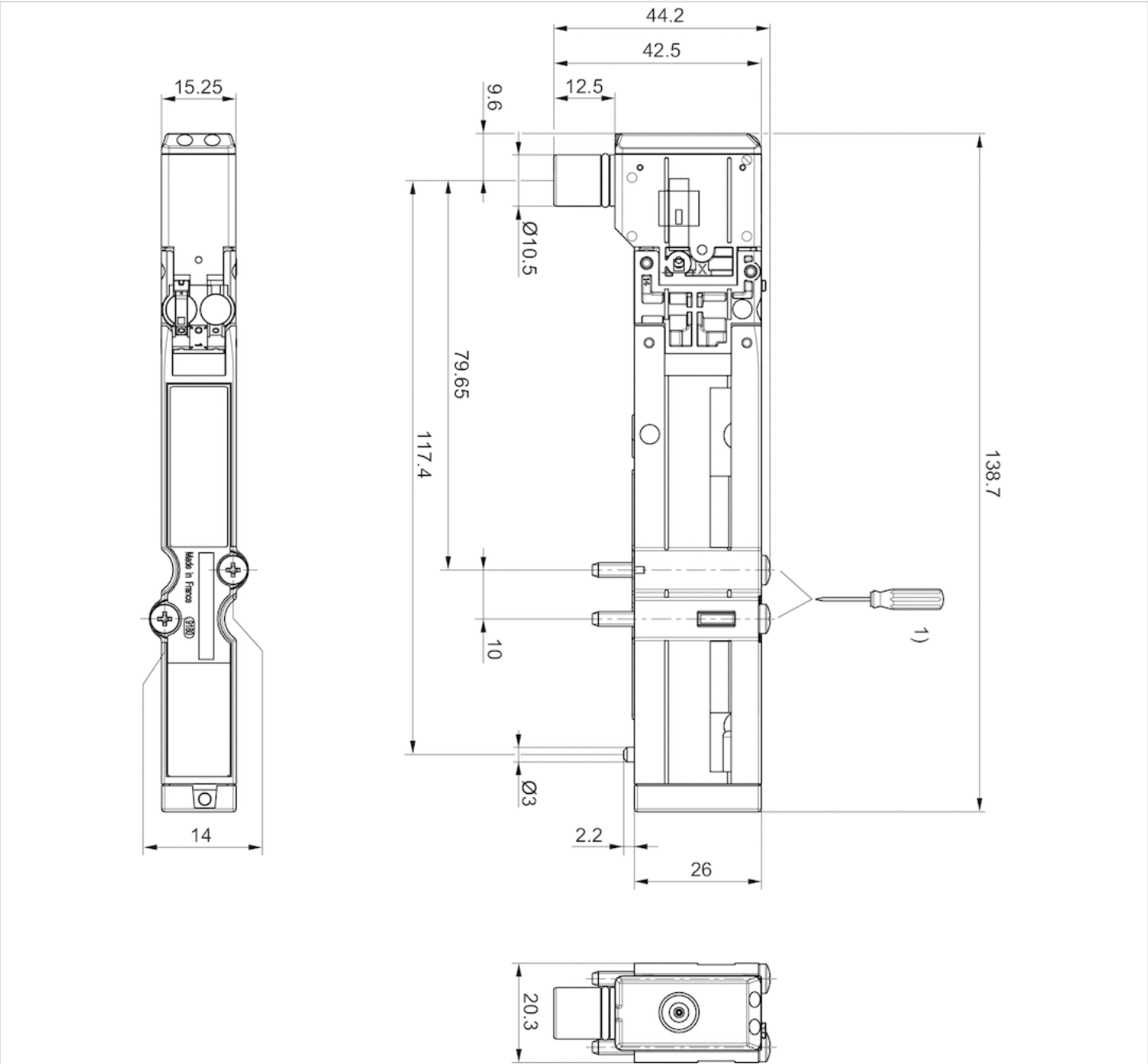
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

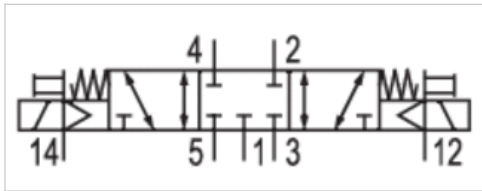
Dimensions



1) = 1.1Nm 800tr/min. max.

5/3-directional valve, Series HF03-LG

- For series : HF03-LG, CL03
- 5/3
- $Q_n = 0.864 \text{ Cv}$
- Pilot valve width : 16 mm
- closed center
- Plate connection
- Manual override : without detent
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	0.864 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
mounting screws	cross recessed DIN EN ISO 4757-Z1
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.181 lbs

Technical data

Part No.	MO		Operational voltage	Voltage tolerance
			DC	DC
0820055602		closed center	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820055602	0.35 W	0.23	2.79 l/(s*bar)

Nominal flow Q_n at 87 psi and $\Delta p = 14.5 \text{ psi}$, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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).

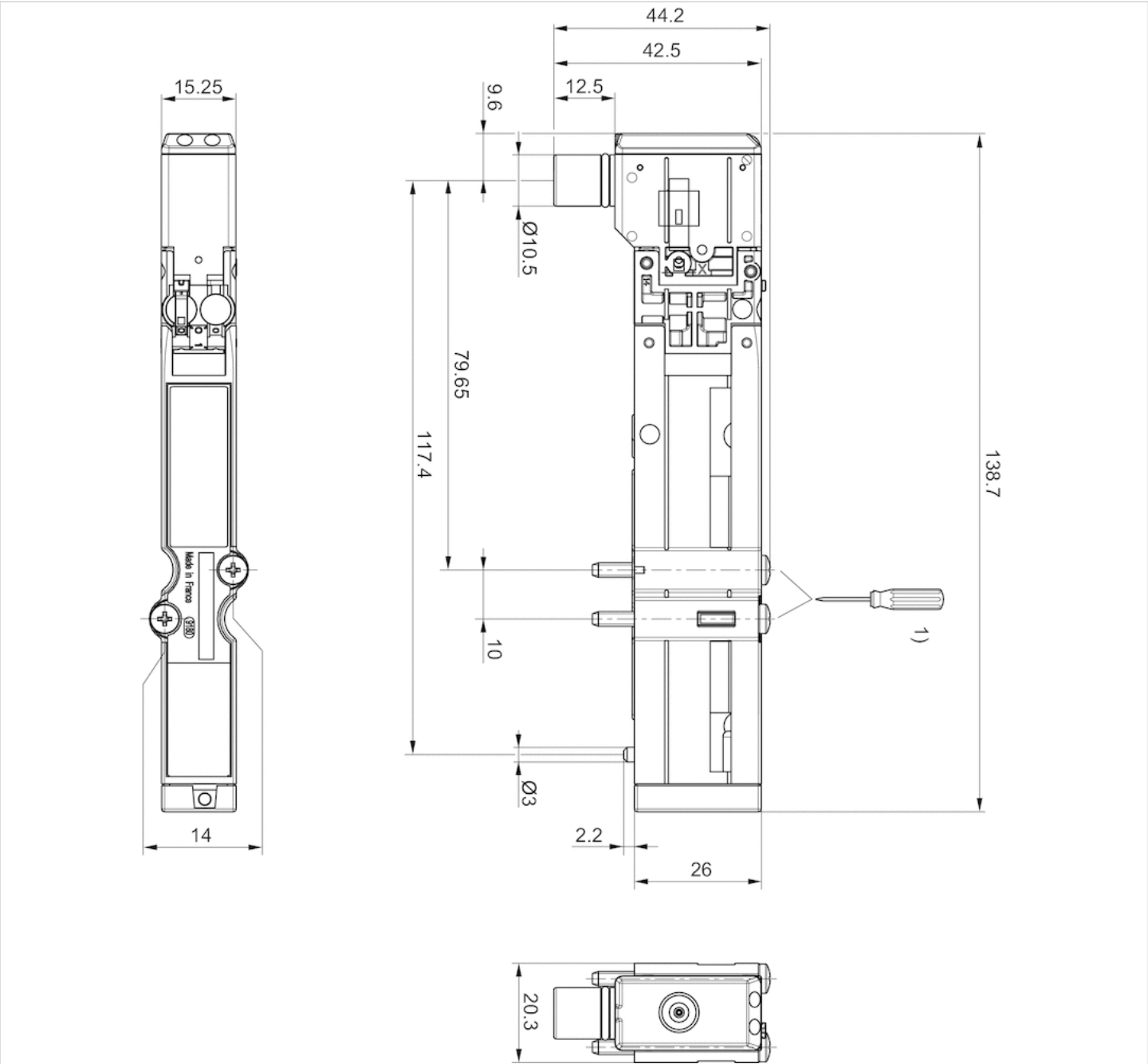
The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

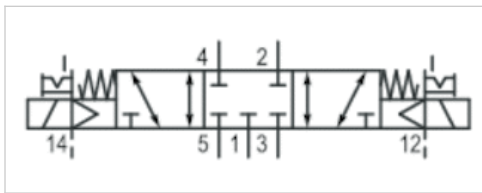
Dimensions

Dimensions




5/3-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 5/3
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- closed center
- Plate connection
- Manual override : with detent
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.	MO		Operational voltage	Voltage tolerance
			DC	DC
0820056601		closed center	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820056601	0.35 W	0.4	5.87 l/(s*bar)

Nominal flow Q_n at 87 psi and $\Delta p = 14.5 \text{ psi}$

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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

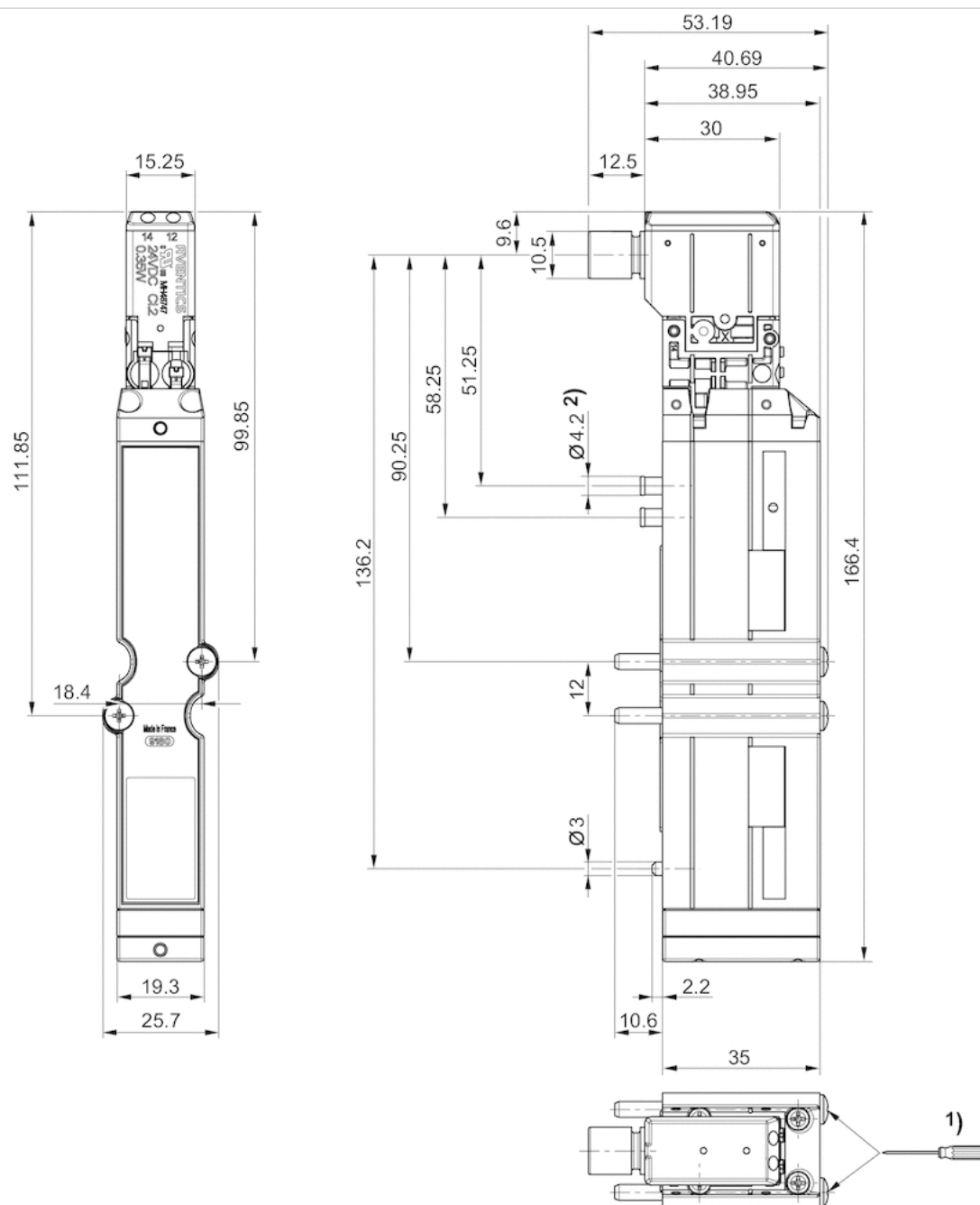
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

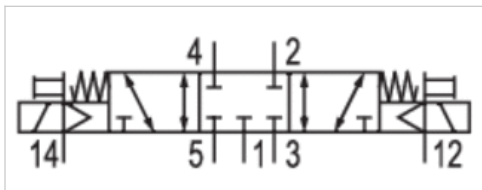
Dimensions



1) =1.1Nm 800tr/min. max.


5/3-directional valve, Series HF02-LG

- For series : HF02-LG, CL03
- 5/3
- $Q_n = 1.42 \text{ Cv}$
- Pilot valve width : 16 mm
- closed center
- Plate connection
- Manual override : without detent
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Certificates	UR (Underwriters Laboratories)
Working pressure min./max.	-13 ... 145 psi
Control pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Q_n	1.42 Cv
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	15 ms
mounting screws	cross recessed DIN EN ISO 4757-Z2
Mounting screw tightening torque	0.96 ft./lbs.
Weight	0.317 lbs

Technical data

Part No.	MO		Operational voltage	Voltage tolerance
			DC	DC
0820056602		closed center	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
0820056602	0.35 W	0.4	5.87 l/(s*bar)

Nominal flow Q_n at 87 psi and $\Delta p = 14.5 \text{ psi}$, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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).

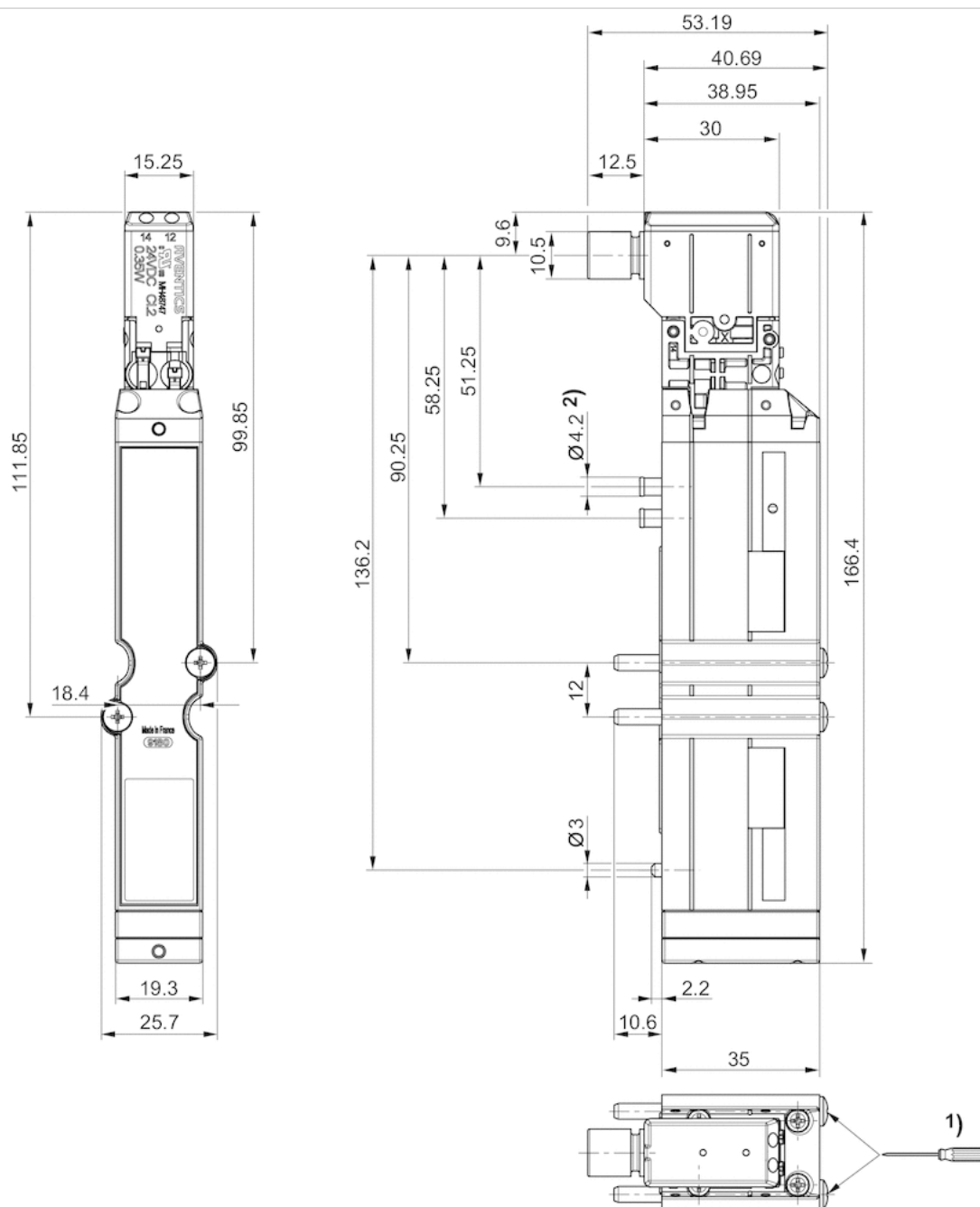
The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
The pilot valve is UL (Underwriters Laboratories) certified.

Technical information

Material	
Housing	Polyamide
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber

Dimensions

Dimensions



1) =1.1Nm 800tr/min. max.

Blanking plate

- for HF02-LG



Working pressure min./max.	-13 ... 145 psi
Ambient temperature min./max.	23 ... 122 °F
Medium	Compressed air
Mounting screw	cross recessed DIN EN ISO 4757-Z2
Tightening torque for mounting screws	0.81 ft./lbs.
Weight	0.205 lbs

Technical data

Part No.	Type	Delivery unit
1825A00087	Blanking plate, incl. sealing kit, 1x mounting screws	1 piece

Technical information

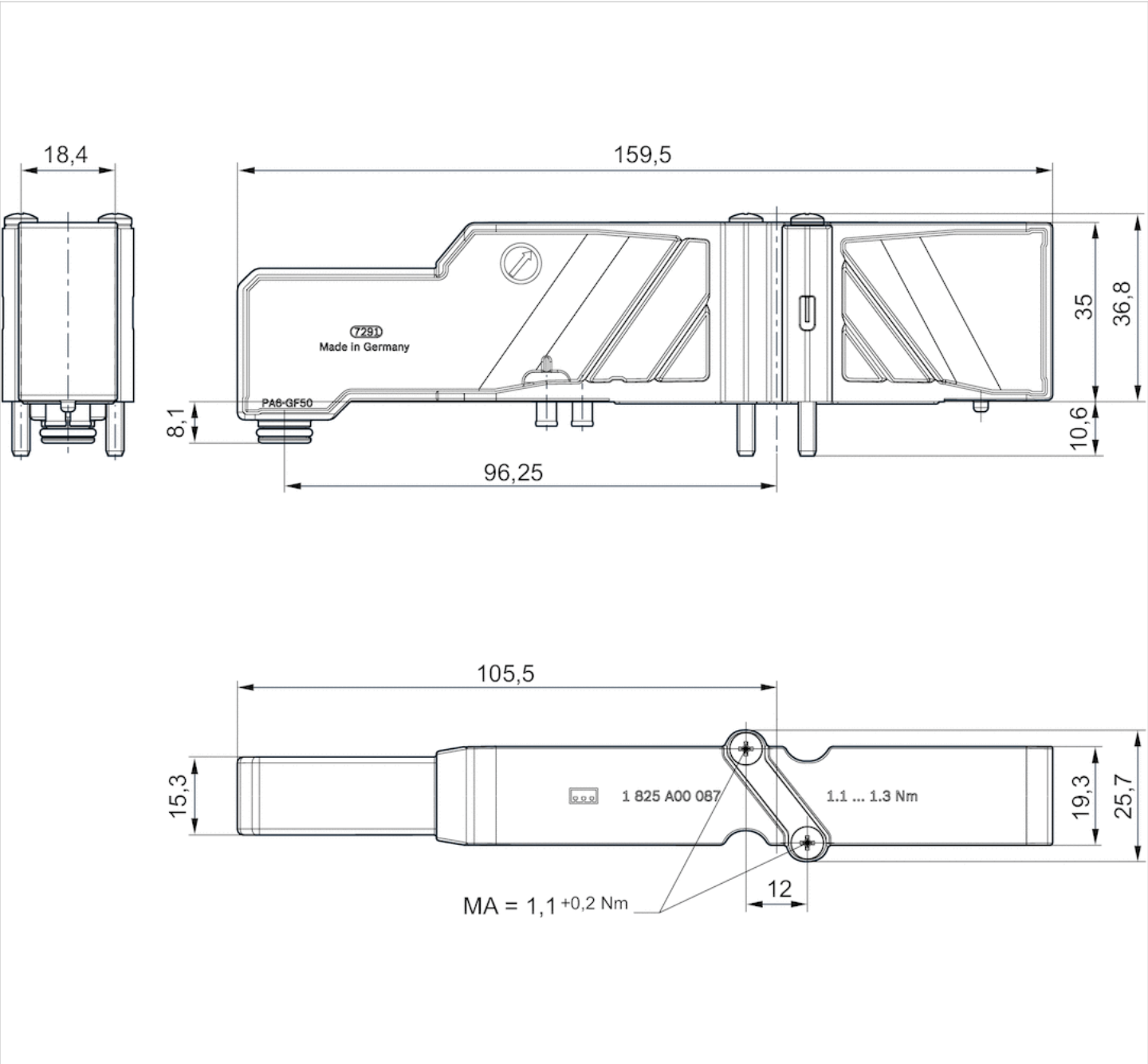
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
 The oil content of compressed air must remain constant during the life cycle.
 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	Polyamide
Seal	Nitrile rubber

Dimensions

Dimensions



Blanking plate

- for HF03-LG



Working pressure min./max.	-13 ... 145 psi
Ambient temperature min./max.	23 ... 122 °F
Medium	Compressed air
Mounting screw	cross recessed DIN EN ISO 4757-Z1
Tightening torque for mounting screws	0.81 ft./lbs.
Weight	0.205 lbs

Technical data

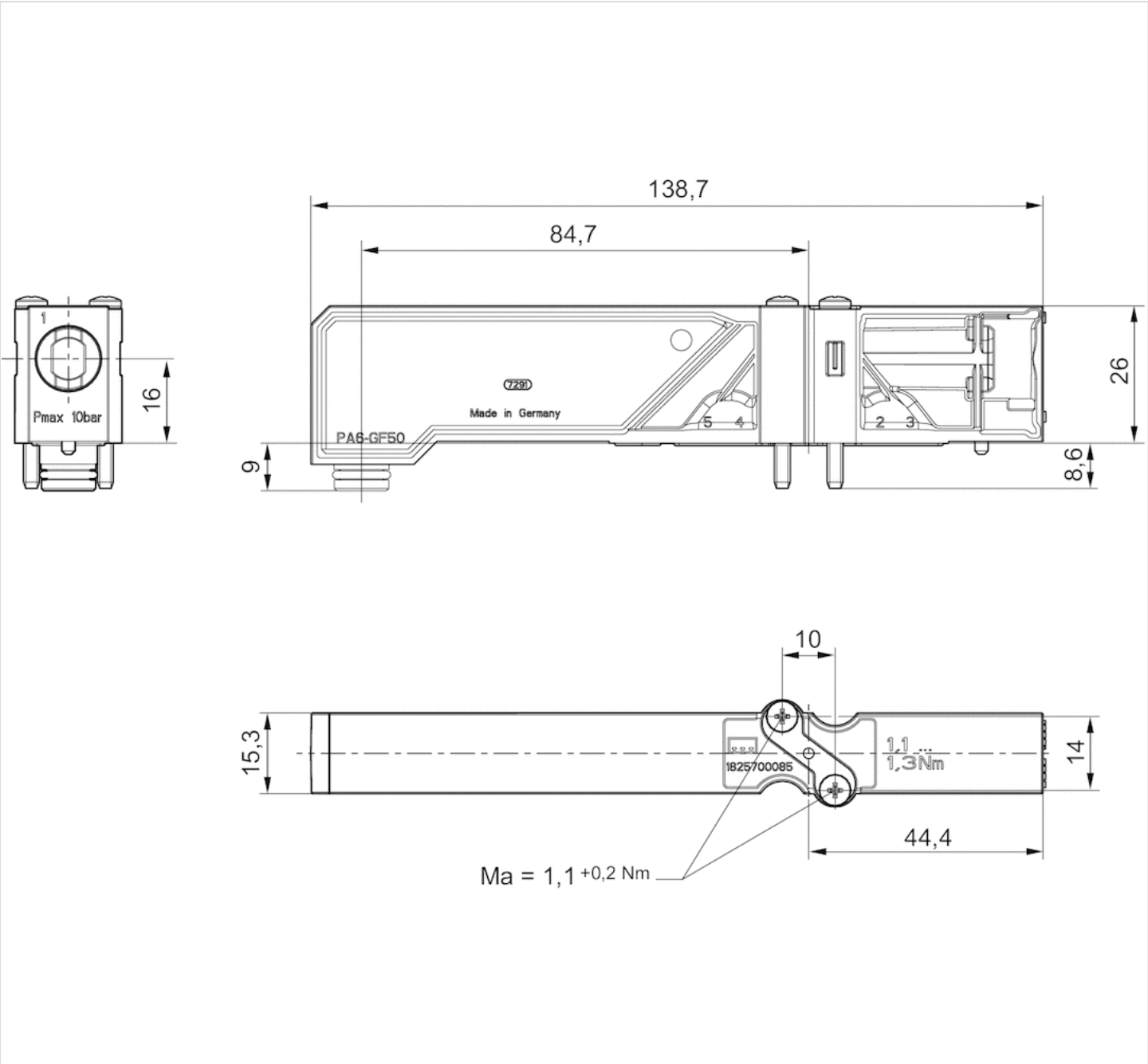
Part No.	Type
1825A00085	Blanking plate, incl. sealing kit, 1x mounting screws

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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Dimensions

Dimensions



Base plate

- IP69K
- Compressed air connection output G 1/4 Ø 8 Ø 10
- Can be assembled into blocks
- for CL03, HF03-LG, HF02-LG



Medium
Protection class
Weight

Compressed air
IP69K
See table below

Technical data

Part No.	Type	Compressed air connection Input [1]
2631301000	2 ports	-
2631301070	2 push-in fittings	-
2631301060	2 push-in fittings, stainless steel	-
2631401000	4 ports	-
2631401020	4 push-in fittings	-
2631401010	4 push-in fittings, stainless steel	-
R414006056	5 push-in fittings	Ø 10
R414006057	5 push-in fittings	Ø 10
R414006058	5 push-in fittings	G 1/4
R414006059	5 push-in fittings	G 1/4

Part No.	Compressed air connection Output [2 / 4]	Compressed air connection Exhaust [3 / 5]	Weight	Fig.
2631301000	G 1/4	-	-	Fig. 1
2631301070	Ø 8	-	-	Fig. 1
2631301060	Ø 8	-	-	Fig. 1
2631401000	G 1/4	G 1/4	-	Fig. 1
2631401020	Ø 8	Ø 8	-	Fig. 1
2631401010	Ø 8	Ø 8	-	Fig. 1
R414006056	Ø 10	Ø 10	0.452 lbs	Fig. 2
R414006057	Ø 10	Ø 10	0.452 lbs	Fig. 2
R414006058	G 1/4	G 1/4	0.386 lbs	Fig. 2
R414006059	G 1/4	G 1/4	0.386 lbs	Fig. 2

Part No.	
2631301000	-
2631301070	-
2631301060	-
2631401000	-
2631401020	-
2631401010	1)
R414006056	1)
R414006057	2)
R414006058	1)
R414006059	2)

1) Subbase for individual control

2) Subbase for parallel control of next subbase (dual signal)

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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

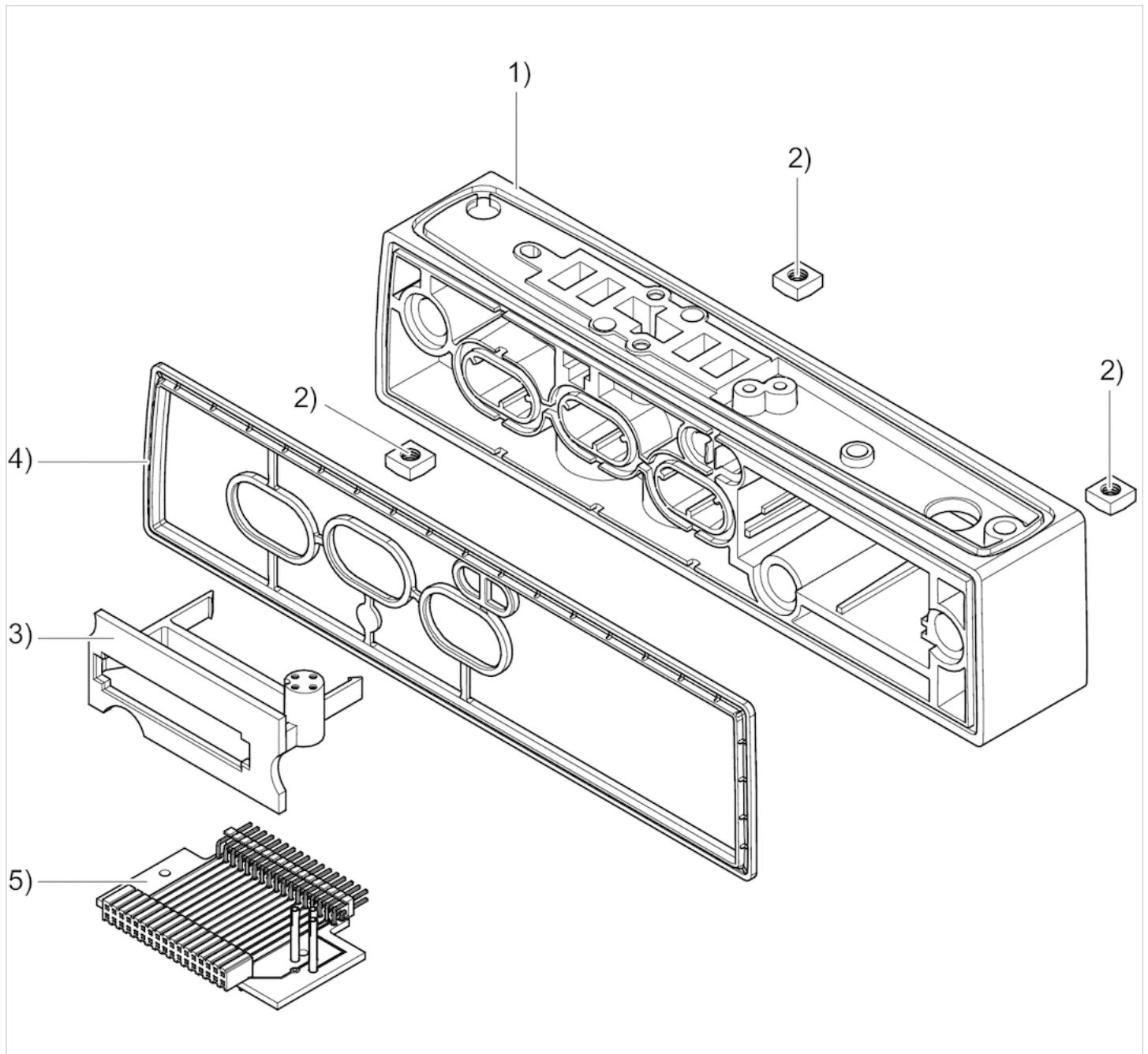
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Polyamide fiber-glass reinforced
Seal	Hydrogenated acrylonitrile butadiene rubber

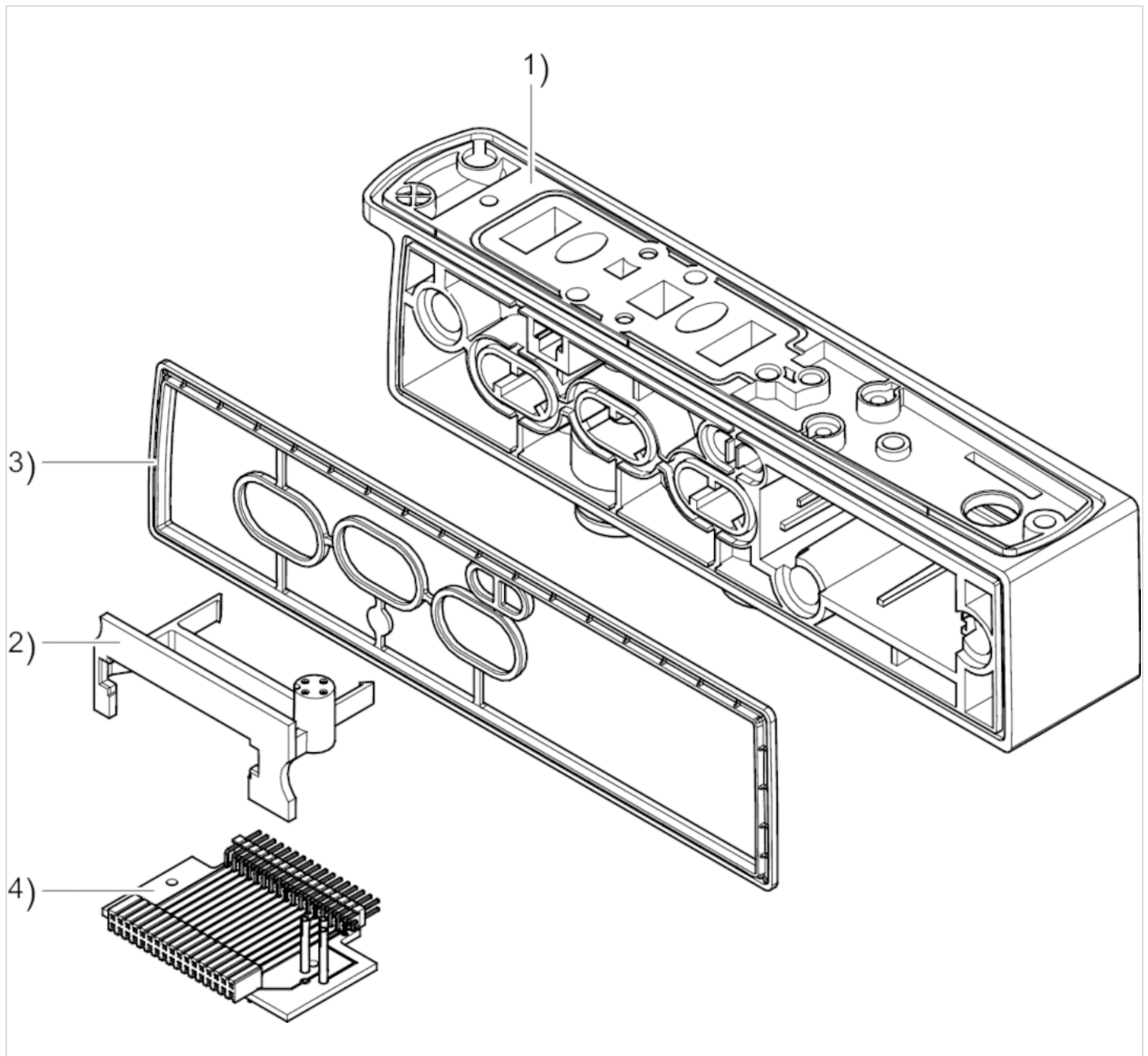
Dimensions

Fig. 1, CL03, HF03-LG



1) Subbase 2) plug 3) circuit board holder 4) seal 5) circuit board

Fig. 2, CL03, HF02-LG



1) Subbase 2) Circuit board holder 3) Seal 4) Circuit board

base plates -Inch

- Compressed air connection output 3/8"
- Can be assembled into blocks



Medium

Protection class

Weight

Compressed air

IP69K

0.377 lbs

Technical data

Part No.	Type	Compressed air connection Output [2 / 4]
R402003312	2 push-in fittings, stainless steel	3/8"

Technical information

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

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

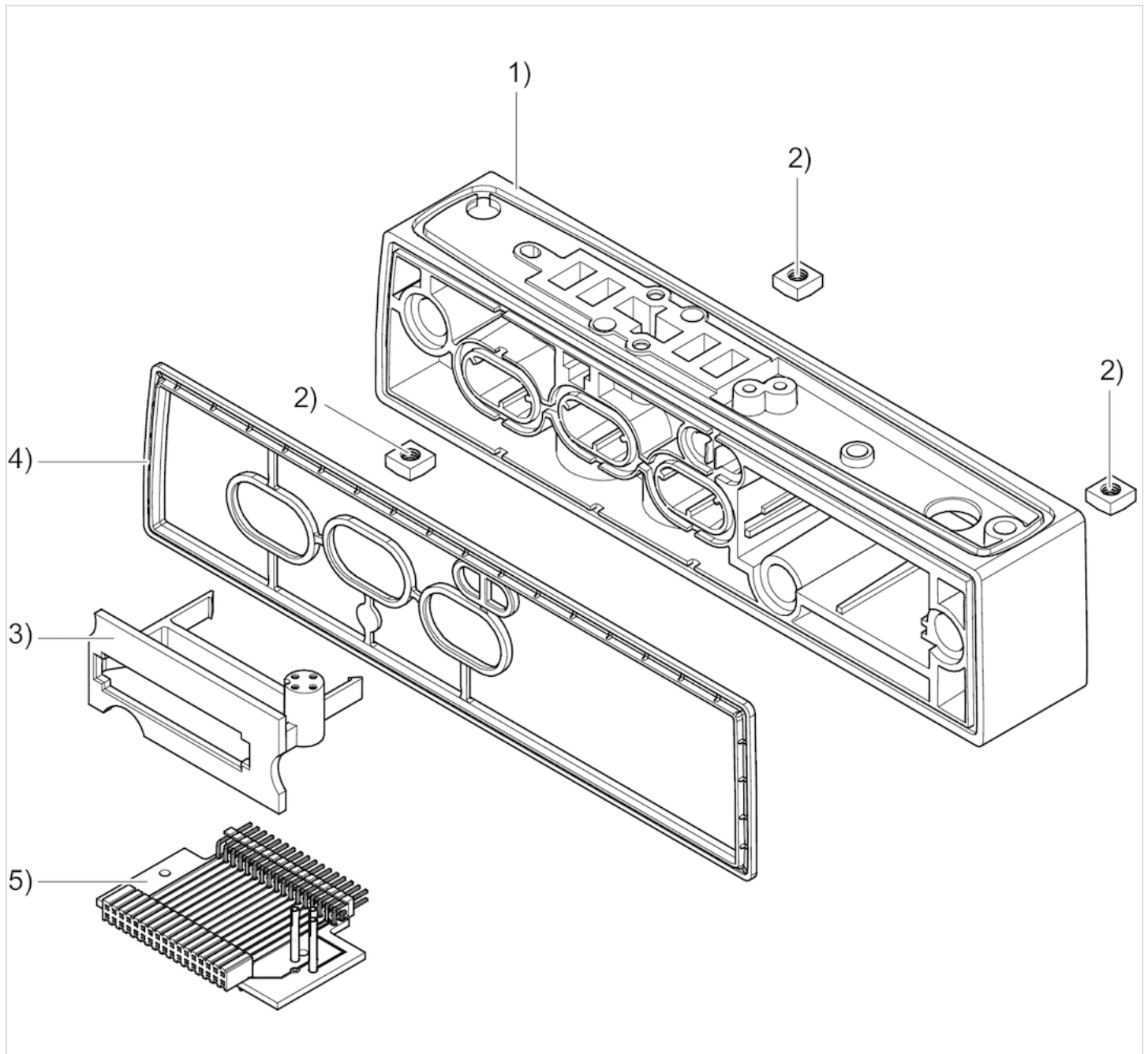
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Polyamide fiber-glass reinforced
Seal	Hydrogenated acrylonitrile butadiene rubber

Dimensions

Fig. 1, CL03, HF03-LG



1) Subbase 2) plug 3) circuit board holder 4) seal 5) circuit board

Series CL03

- Can be assembled into blocks



Medium
Weight

Compressed air
See table below

Technical data

Part No.	Type	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]	Weight
2631380000	metric	G 1/2	-	-
2631380060	inch	1/2-14 NPTF	-	-
R414006061	metric	G 1/2	G 1/2	0.465 lbs
R414006064	inch	1/2-14 NPTF	1/2-14 NPTF	0.712 lbs

Part No.	Fig.
2631380000	Fig. 1
2631380060	Fig. 1
R414006061	Fig. 2
R414006064	Fig. 2

Only external pilot possible, additional ports 3 and 5

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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

End plate kit: external pilot

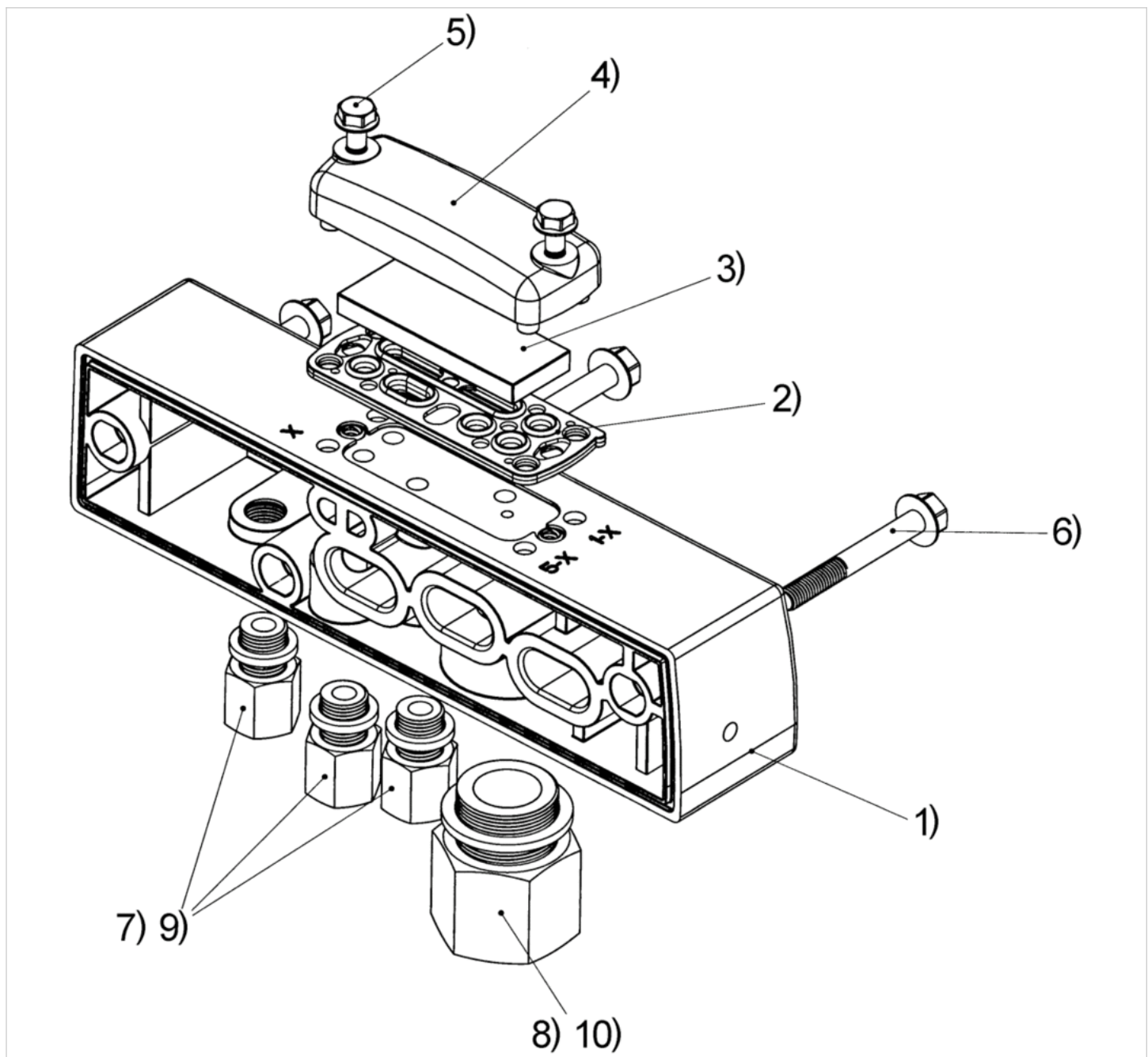
Technical information

Material	
Base plate	Polyamide fiber-glass reinforced
Seal	Hydrogenated acrylonitrile butadiene rubber

Material	
Screws	Stainless steel

Dimensions

Fig. 1

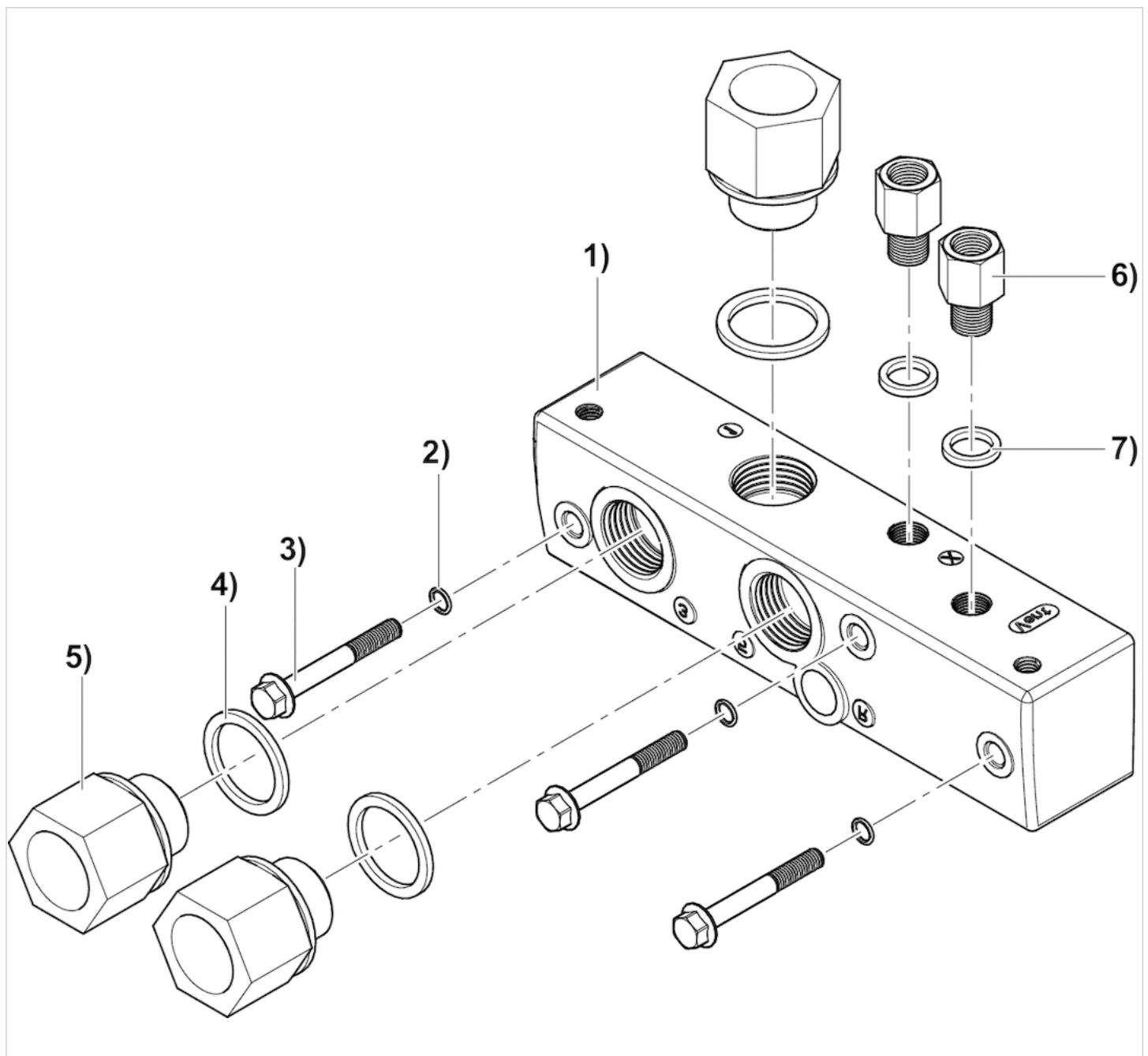


1) End plate X, R 2) Seal 3) Blanking plate 4) Cover 5) Screw M4x20 6) Screw M5x40

Additionally for inch versions:

7) Adapter G 1/8 - NPTF 1/8 8) Adapter G 1/2 - NPTF 1/2 9) Seal for adapter 10) Seal for adapter

Fig. 2



1) End plate X, R 2) O-ring 3) Screws M5x40

Additionally for inch versions:

4) Seal for adapter NPTF 1/2 5) Adapter G 1/2 - NPTF 1/2 6) Adapter G 1/8 - NPTF 1/8 7) Seal for adapter NPTF 1/8

Left end plate

- Can be assembled into blocks



Medium
Protection class
Weight

Compressed air
IP69K
See table below

Technical data

Part No.	Type	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]	Weight
2631481100	metric	G 1/2	G 3/8	0.551 lbs
2631481160	inch	1/2-14 NPTF	3/8-18 NPTF	0.922 lbs

Multiple plug (48-pin)

Technical information

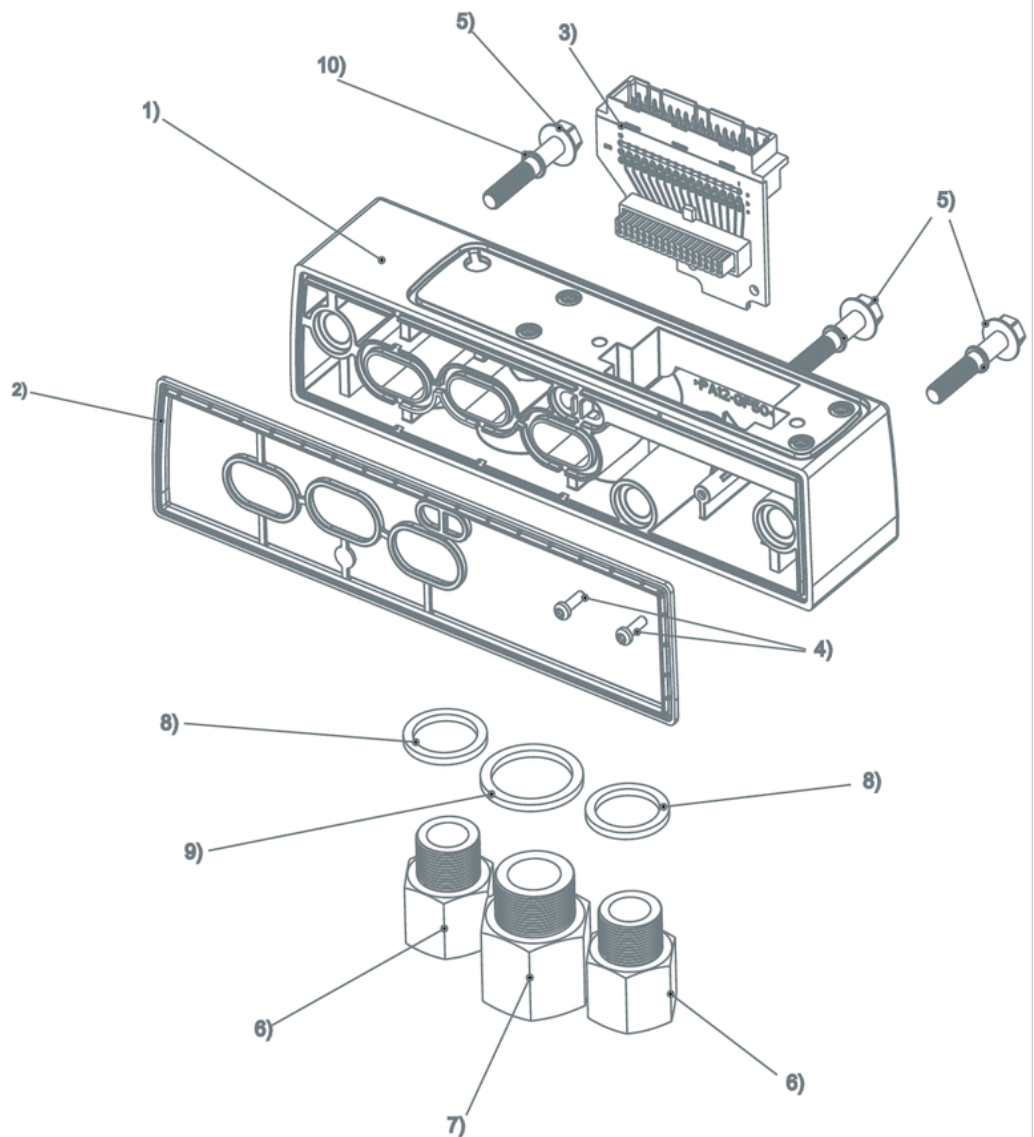
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
The oil content of compressed air must remain constant during the life cycle.
Use 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	Polyamide fiber-glass reinforced
Seal	Hydrogenated acrylonitrile butadiene rubber
Screws	Stainless steel

Dimensions

Overview drawing



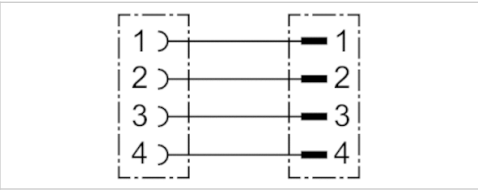
1) Connection piece 2) Seal 3) Circuit board connection piece 4) Screws 5) Screw M5x30 For additional inch-versions: 6) Adapter G 1/8 - NPTF 1/8 7) Adapter G 3/8 8) Seal for connecting fittings 9) Seal

Round plug connector, Series CON-RD

- Socket M12x1 4-pin A-coded straight 180°
- Plug M12x1 4-pin A-coded straight 180°
- EN 61076-2-101
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 221 °F
Protection class	IP65 IP67 IP68 IP69
Wire cross-section	0 in²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length	Delivery unit	Weight
R402003760	4 A	4	1.77 inch	0.177 inch	16.4 ft.	1 piece	0.569 lbs
R402003761	4 A	4	1.77 inch	0.177 inch	32.8 ft.	1 piece	1.07 lbs
R402003762	4 A	4	1.77 inch	0.177 inch	49.2 ft.	1 piece	1.54 lbs

Technical information

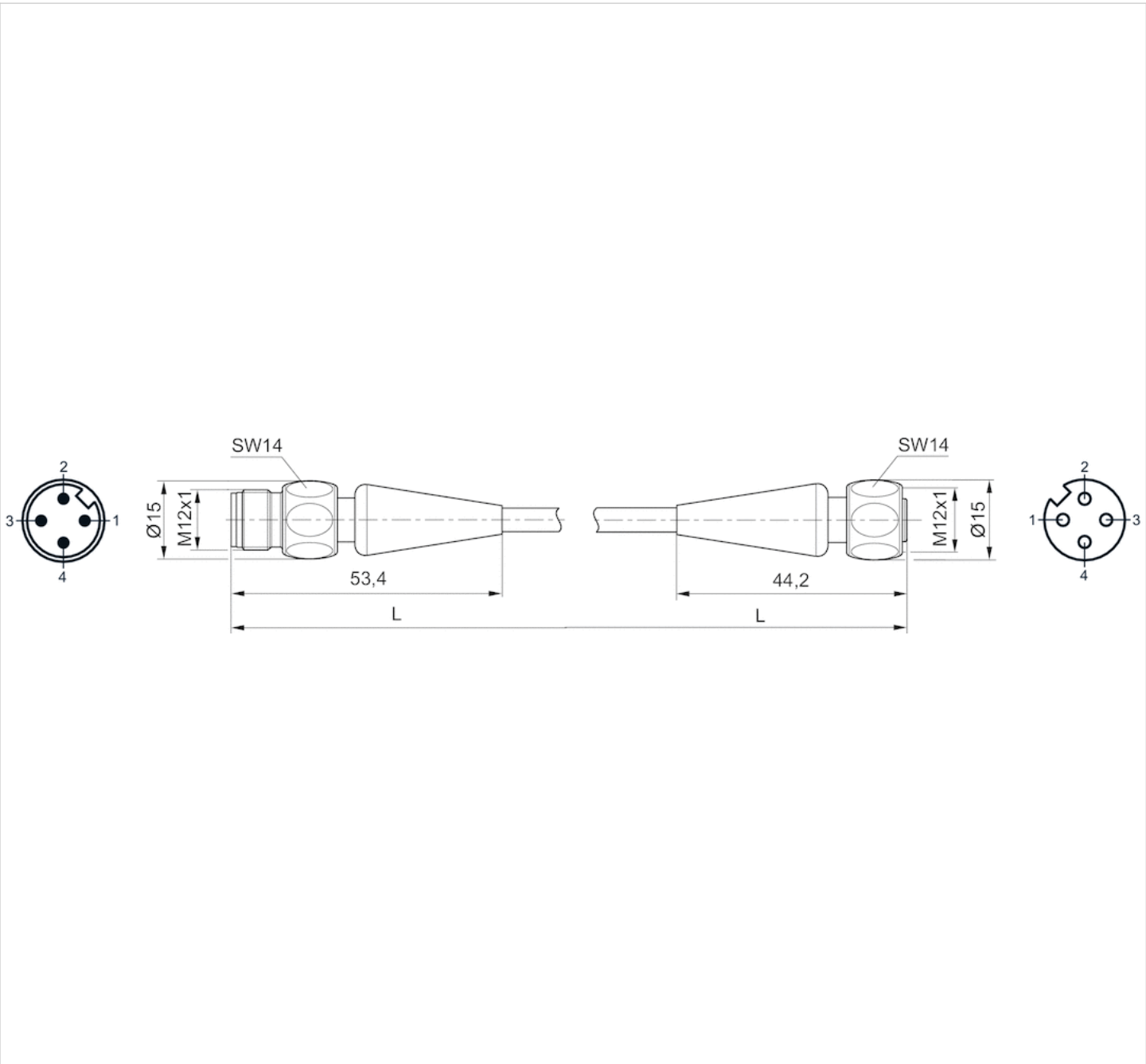
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polypropylene
Seals	Ethylene propylene diene monomer rubber
Cable sheath	Polyvinyl chloride

Dimensions

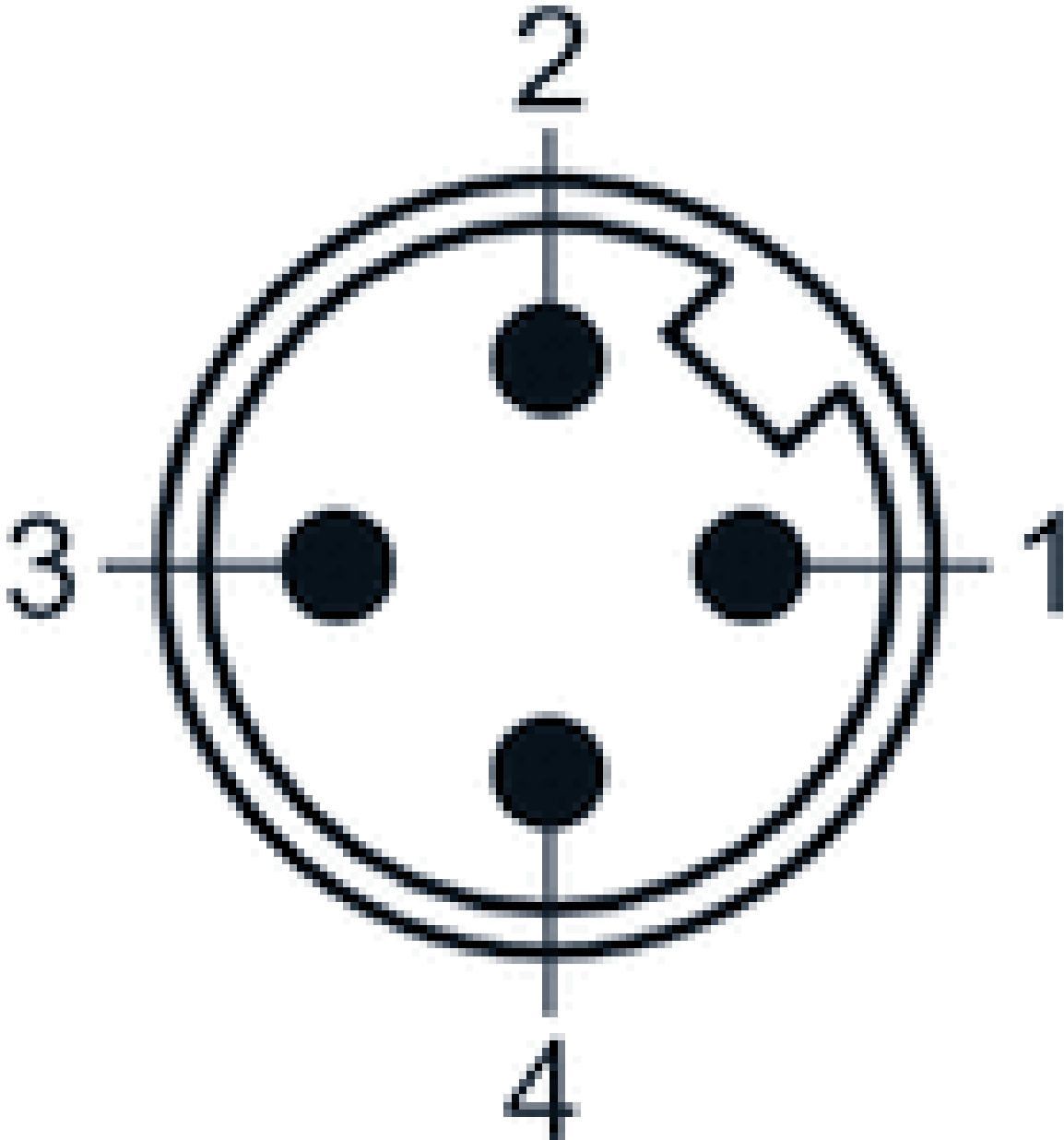
Dimensions



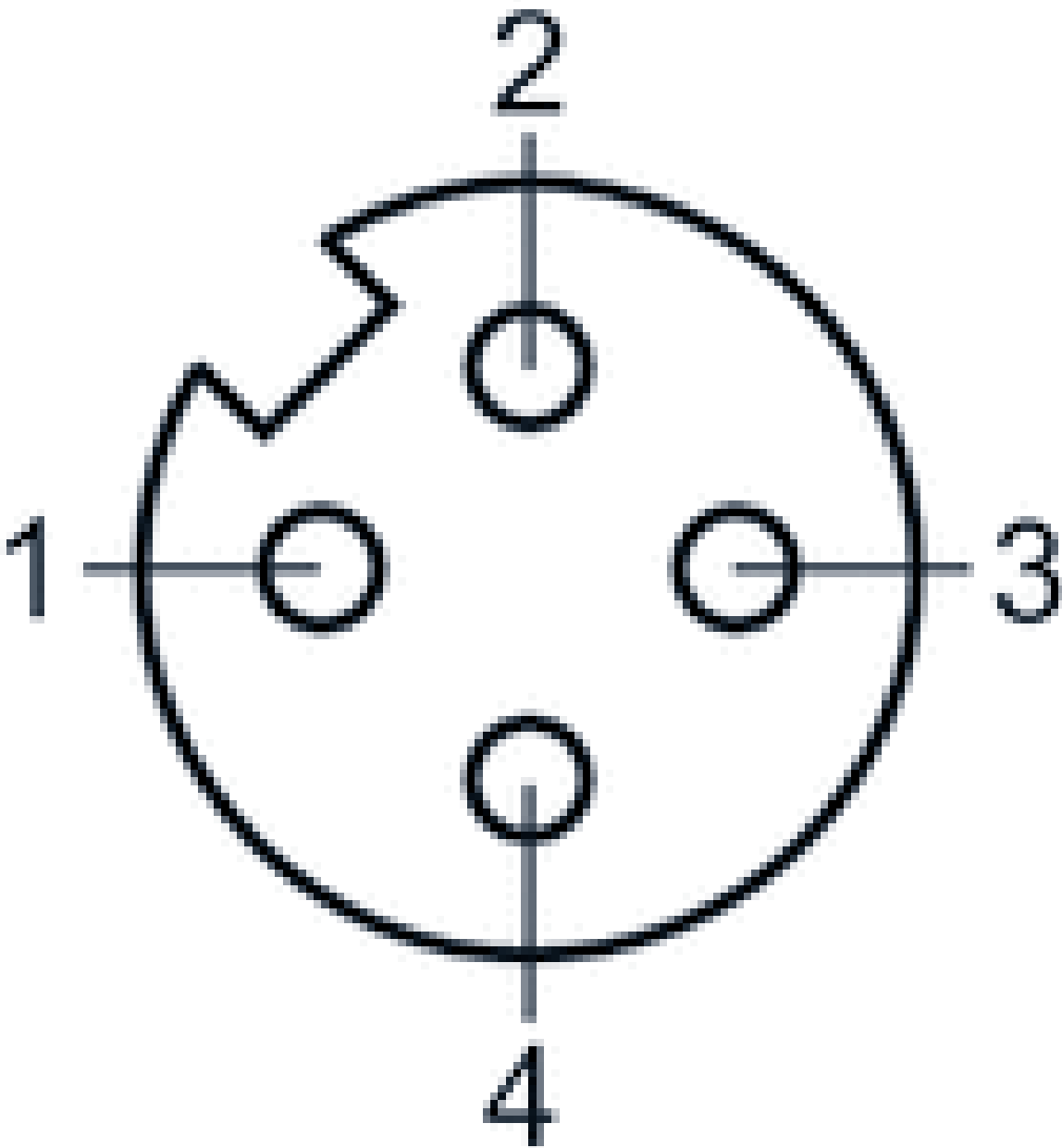
L = cable length

Pin assignments

Plug pin assignment

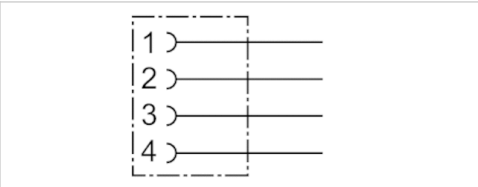


Pin assignment, socket



Round plug connector DUO, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, straight, 180°
- unshielded



Connection type	Screws
Ambient temperature min./max.	32 ... 122 °F
Operational voltage	48 V AC/DC
Protection class	IP67

Technical data

Part No.	Type	Max. current
R402003790	duo plug	4 A

Technical information

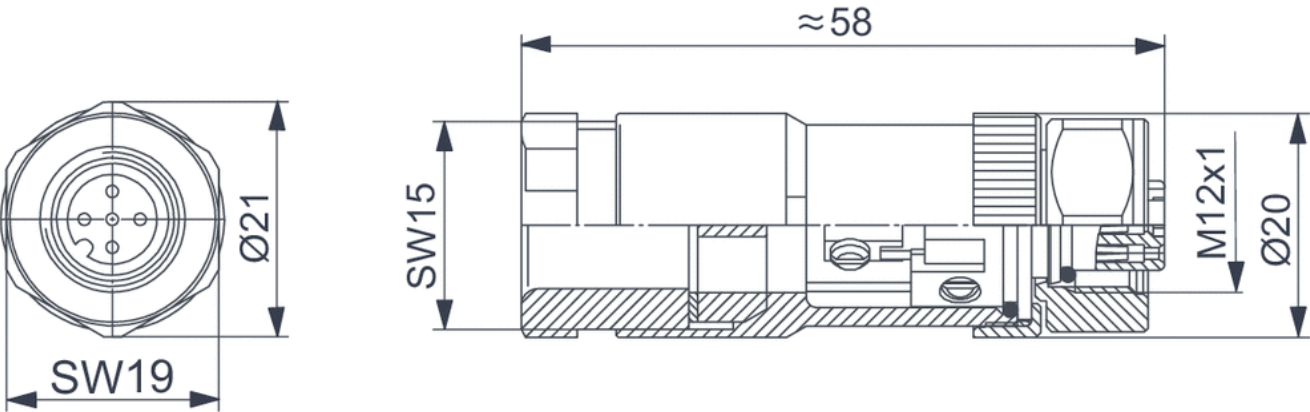
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Stainless steel Polybutyleneterephthalate
Seals	Fluorocaoutchouc

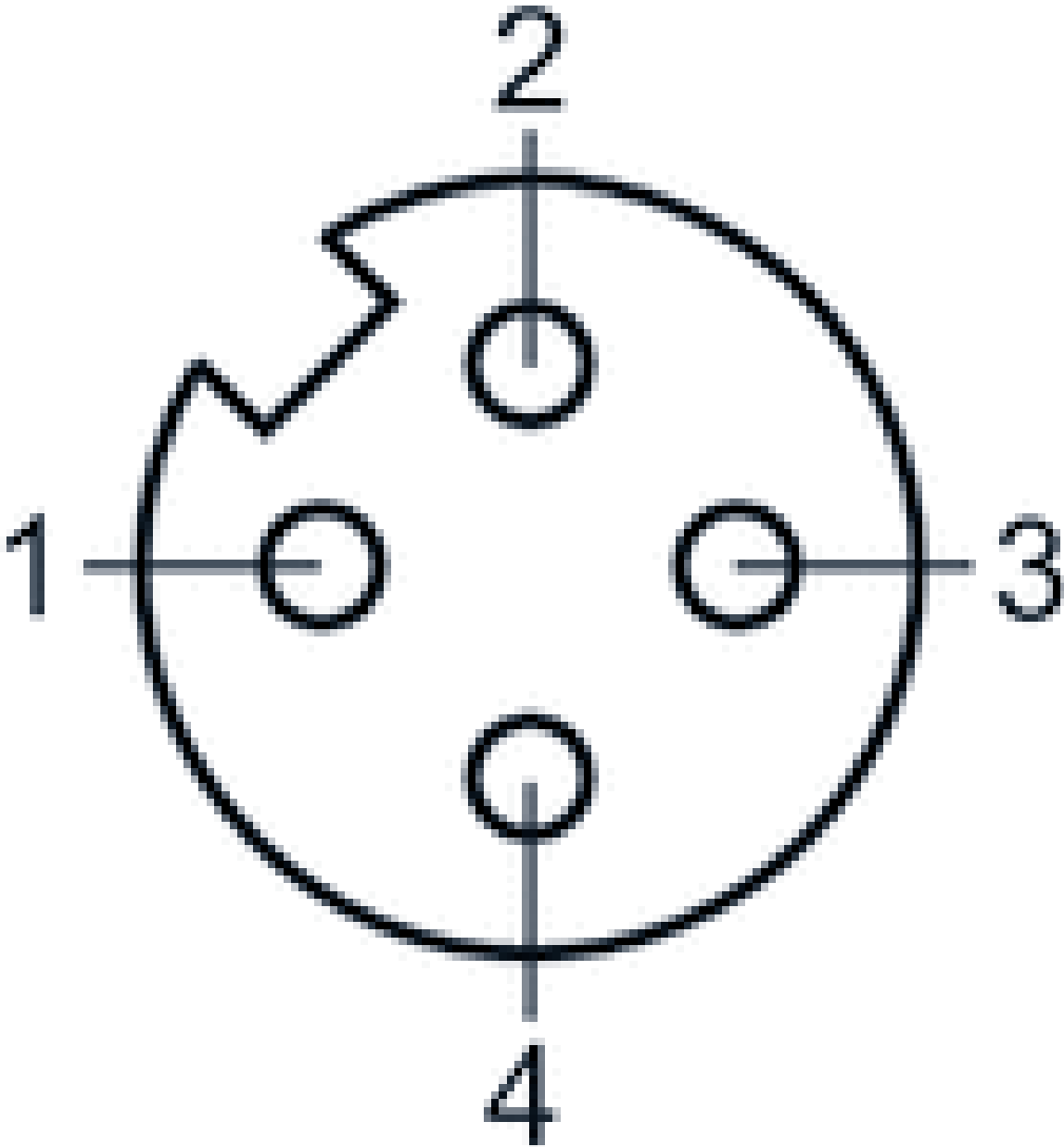
Dimensions

Dimensions



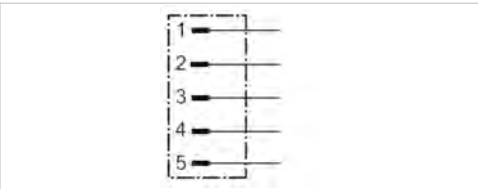
Pin assignments

Pin assignment, socket



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet
- shielded



Connection type	Screws
Ambient temperature min./max.	32 ... 122 °F
Operational voltage	48 V AC/DC
Protection class	IP69K

Technical data

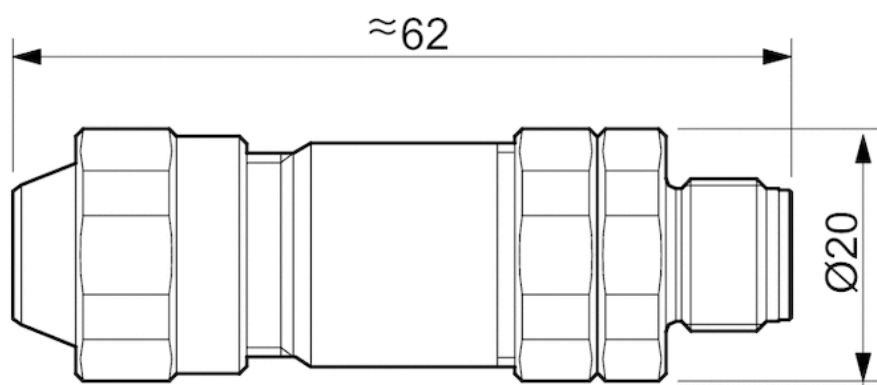
Part No.	Type	Max. current
R402003758	Data plug output	4 A

Technical information

Material	
Housing	Stainless steel

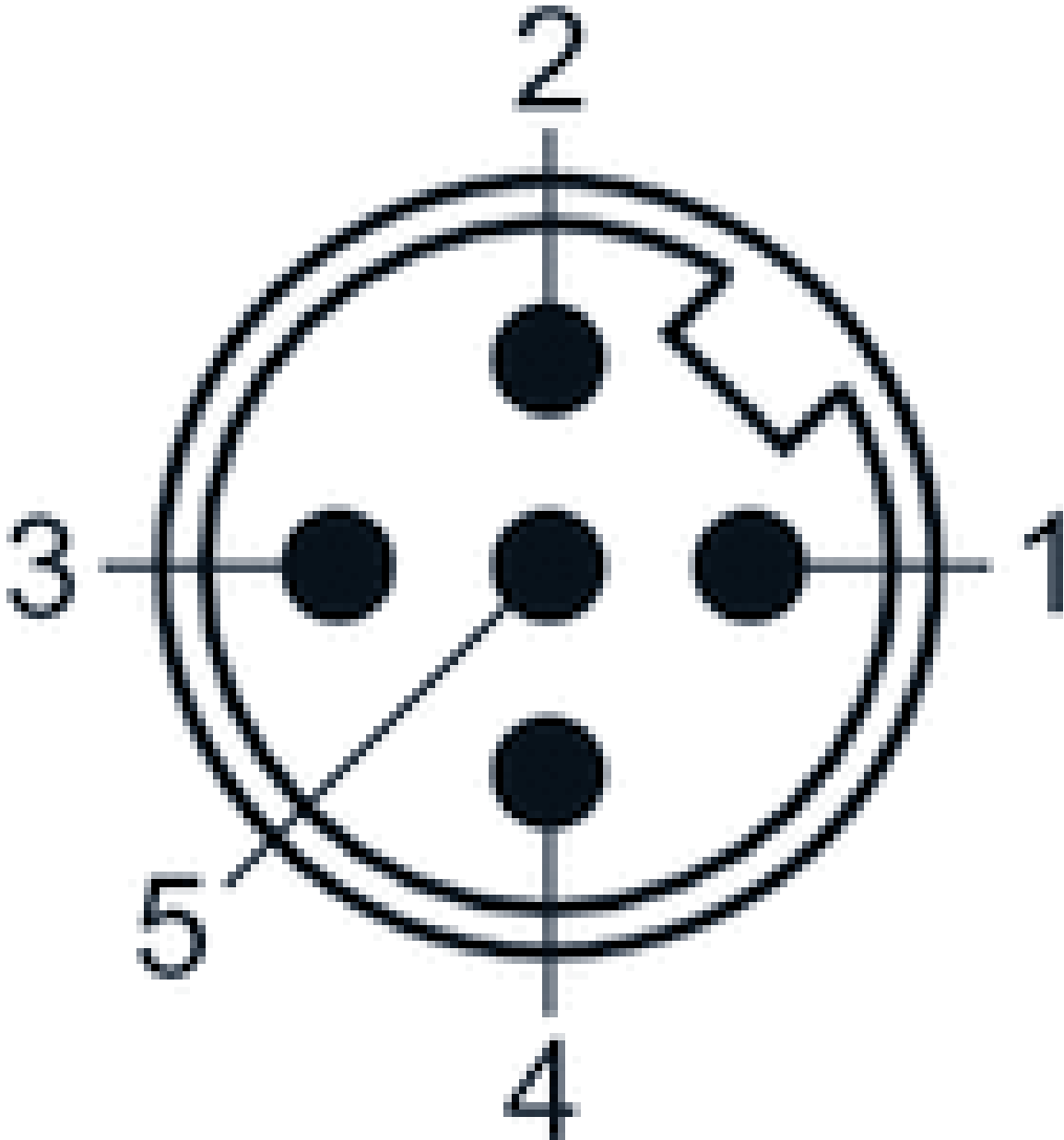
Dimensions

Dimensions



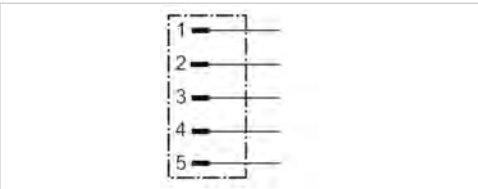
Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, B-coded, straight, 180°
- for PROFIBUS DP
- shielded



Connection type	Screws
Ambient temperature min./max.	32 ... 122 °F
Operational voltage	48 V AC/DC
Protection class	IP69K

Technical data

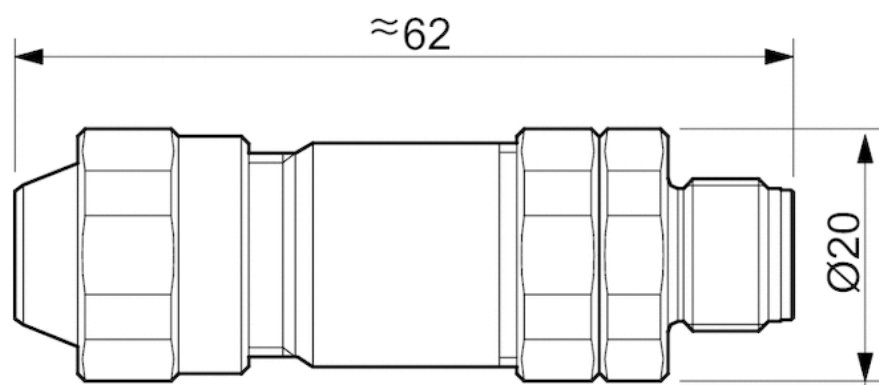
Part No.	Type	Max. current
R402003771	Data plug output	4 A

Technical information

Material	
Housing	Stainless steel

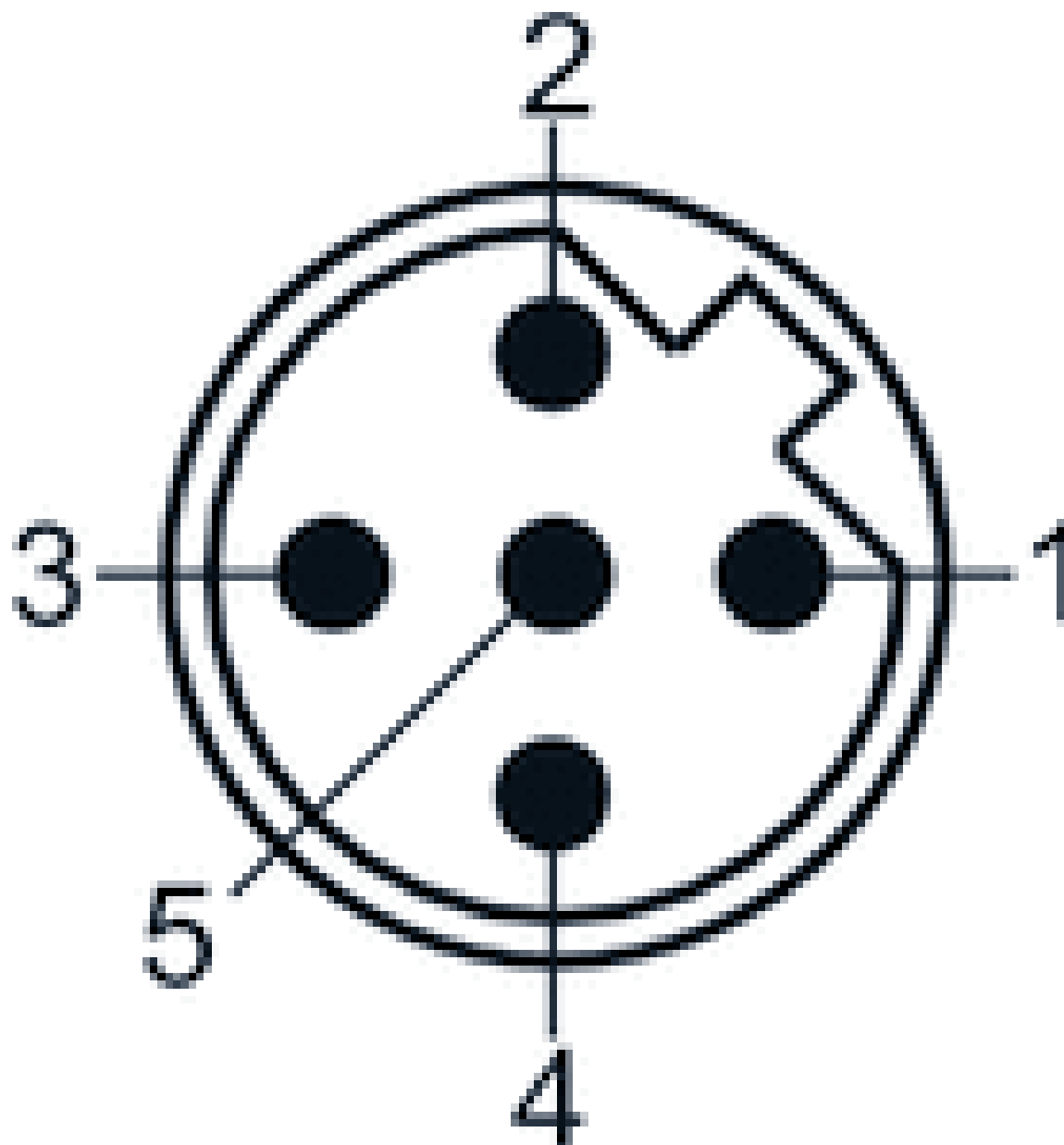
Dimensions

Dimensions



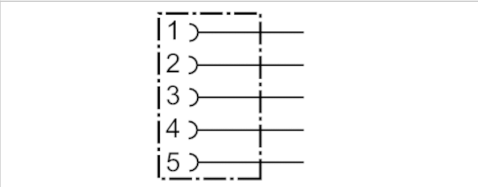
Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet
- shielded



Connection type	Screws
Ambient temperature min./max.	32 ... 122 °F
Operational voltage	48 V AC/DC
Protection class	IP69K
Weight	0.13 lbs

Technical data

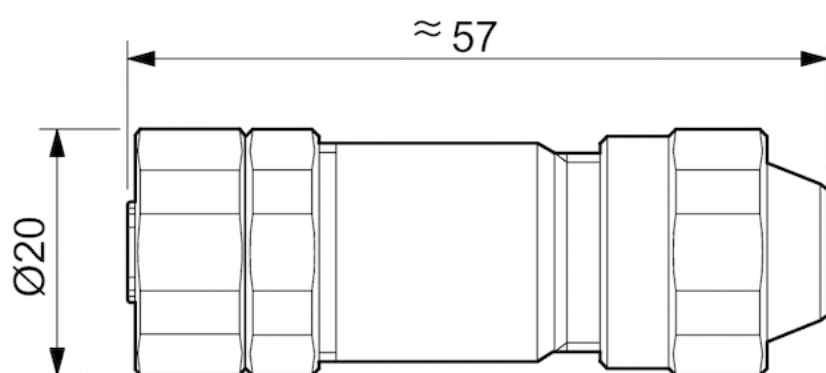
Part No.	Type	Max. current
R402003757	Data plug input	4 A

Technical information

Material	
Housing	Stainless steel

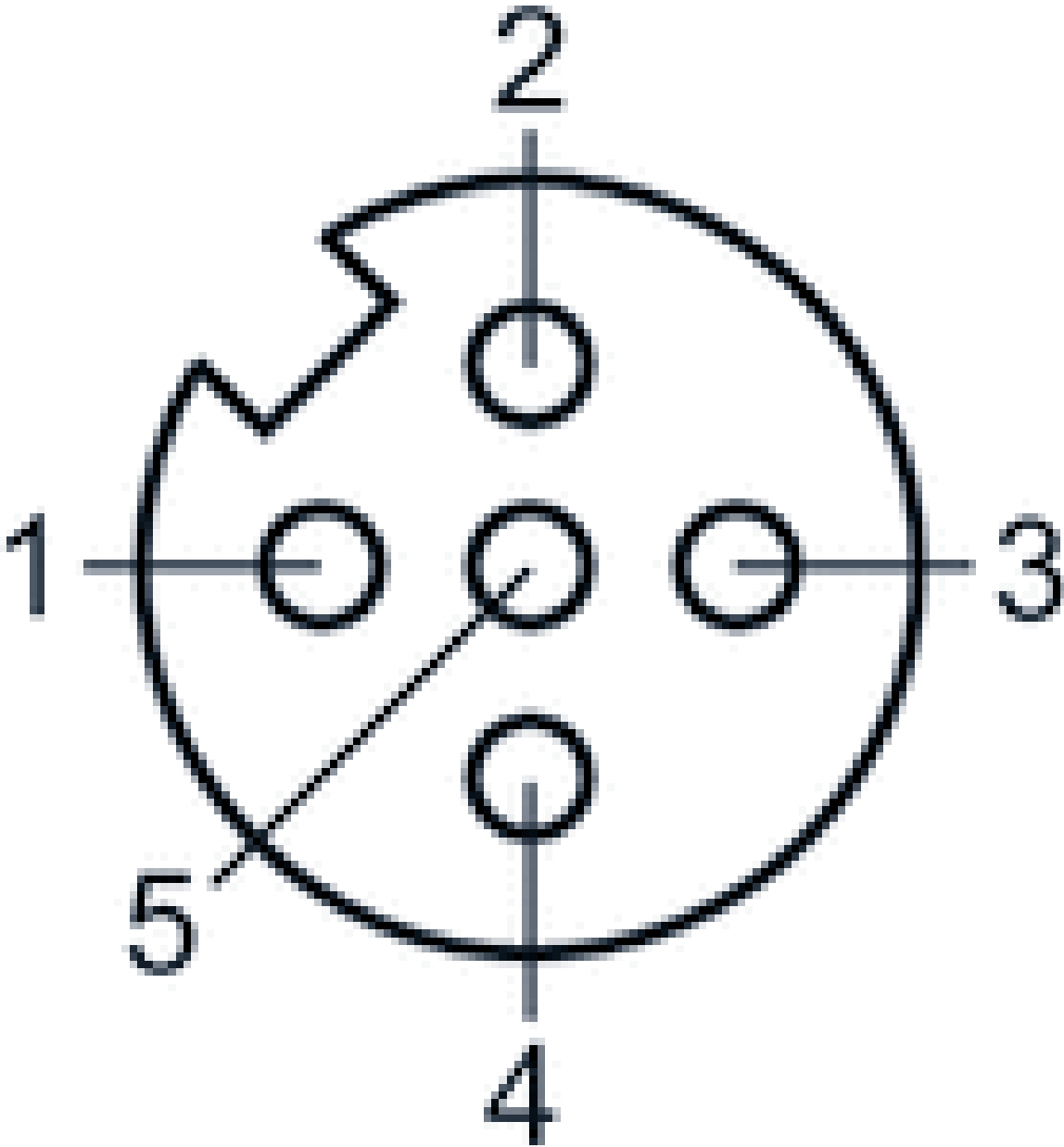
Dimensions

Dimensions



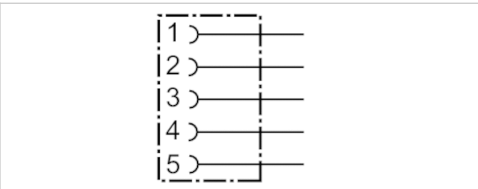
Pin assignments

Pin assignment, socket



Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, B-coded, straight, 180°
- for PROFIBUS DP
- shielded



Connection type	Screws
Ambient temperature min./max.	32 ... 122 °F
Operational voltage	48 V AC/DC
Protection class	IP69K

Technical data

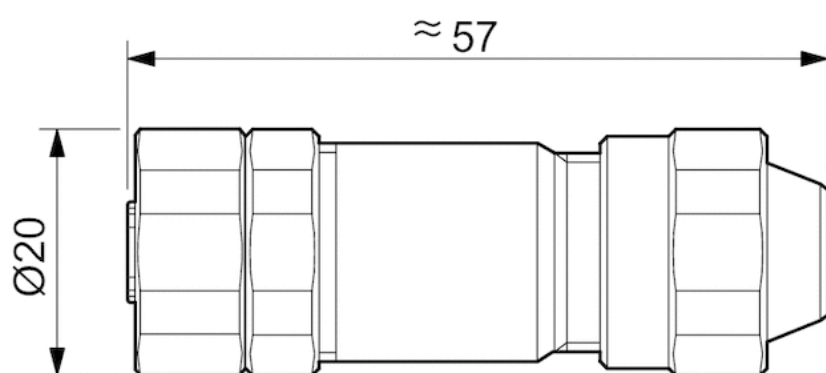
Part No.	Type	Max. current
R402003772	Data plug input	4 A

Technical information

Material	
Housing	Stainless steel

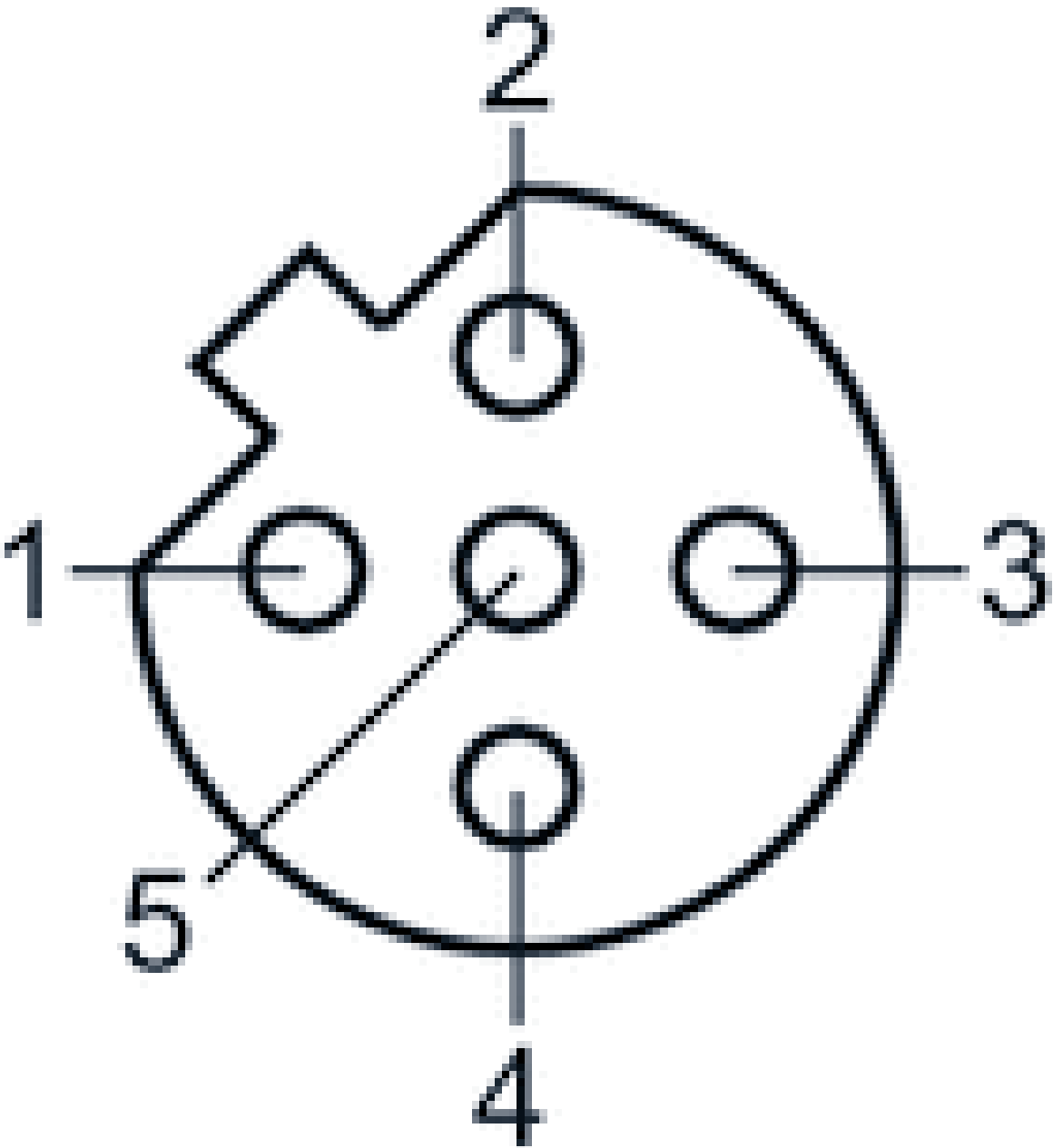
Dimensions

Dimensions



Pin assignments

Pin assignment, socket



Multipole plug, series CON-MP

- Socket C/2 48-pin angled 45°
- with cable
- unshielded



Operational
voltage
Protection class
Weight

24 V DC
IP69K
See table below

Technical data

Part No.	Electrical connection	Max. current	Number of wires	Cable length	Weight	
	2					
0493871009	open cable ends 24-pin	3 A	25	16.4 ft.	2.2 lbs	1)
0493871203	open cable ends 24-pin	3 A	25	32.81 ft.	4.4 lbs	1)
0493871408	open cable ends 24-pin	3 A	25	49.21 ft.	6.26 lbs	1)
0493871106	open cable ends 48-pin	3 A	40	16.4 ft.	3.27 lbs	2)
0493871300	open cable ends 48-pin	3 A	40	32.81 ft.	6.5 lbs	2)
0493871505	open cable ends 48-pin	3 A	40	49.21 ft.	9.43 lbs	2)

1) max. 8 valves

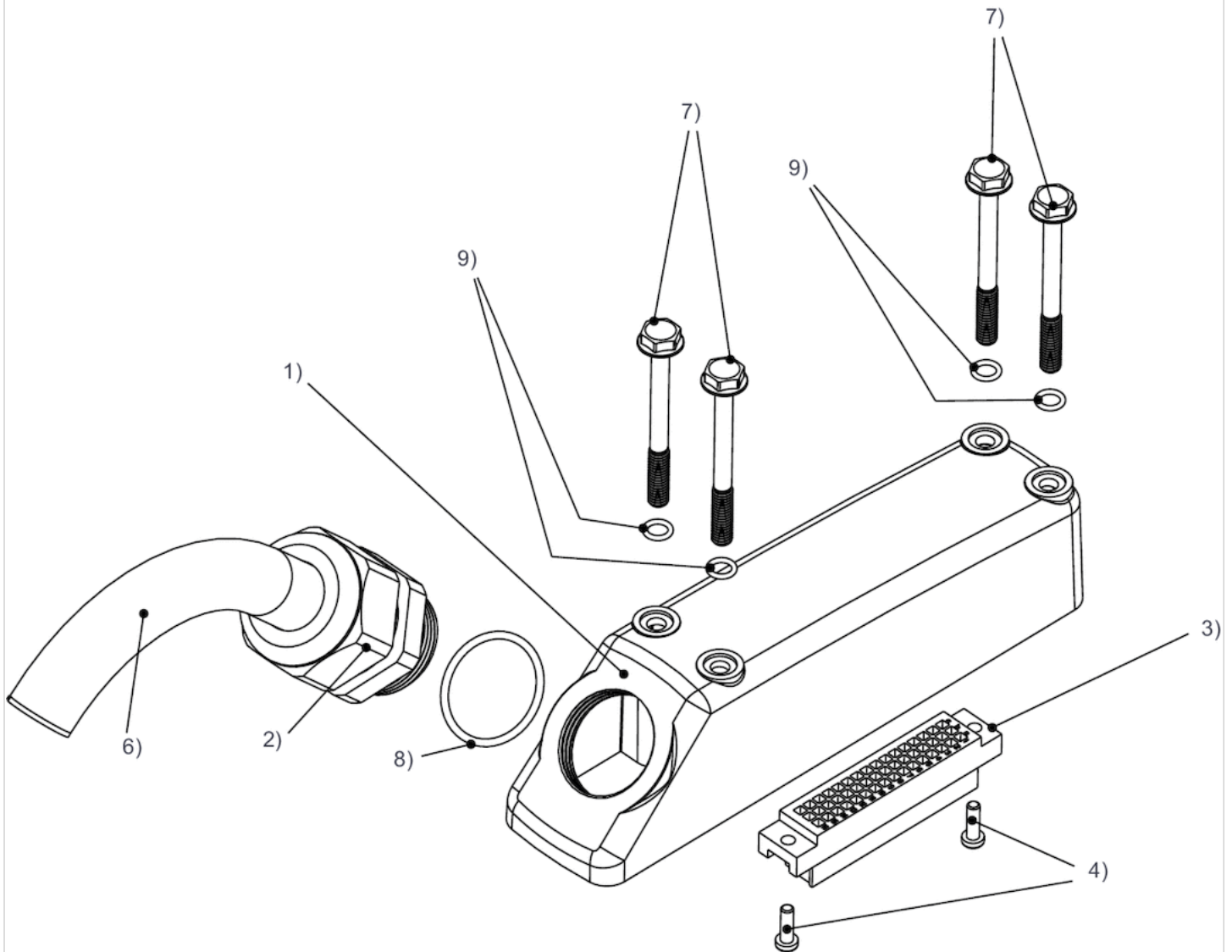
2) max. 16 valves

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyvinyl chloride

Dimensions

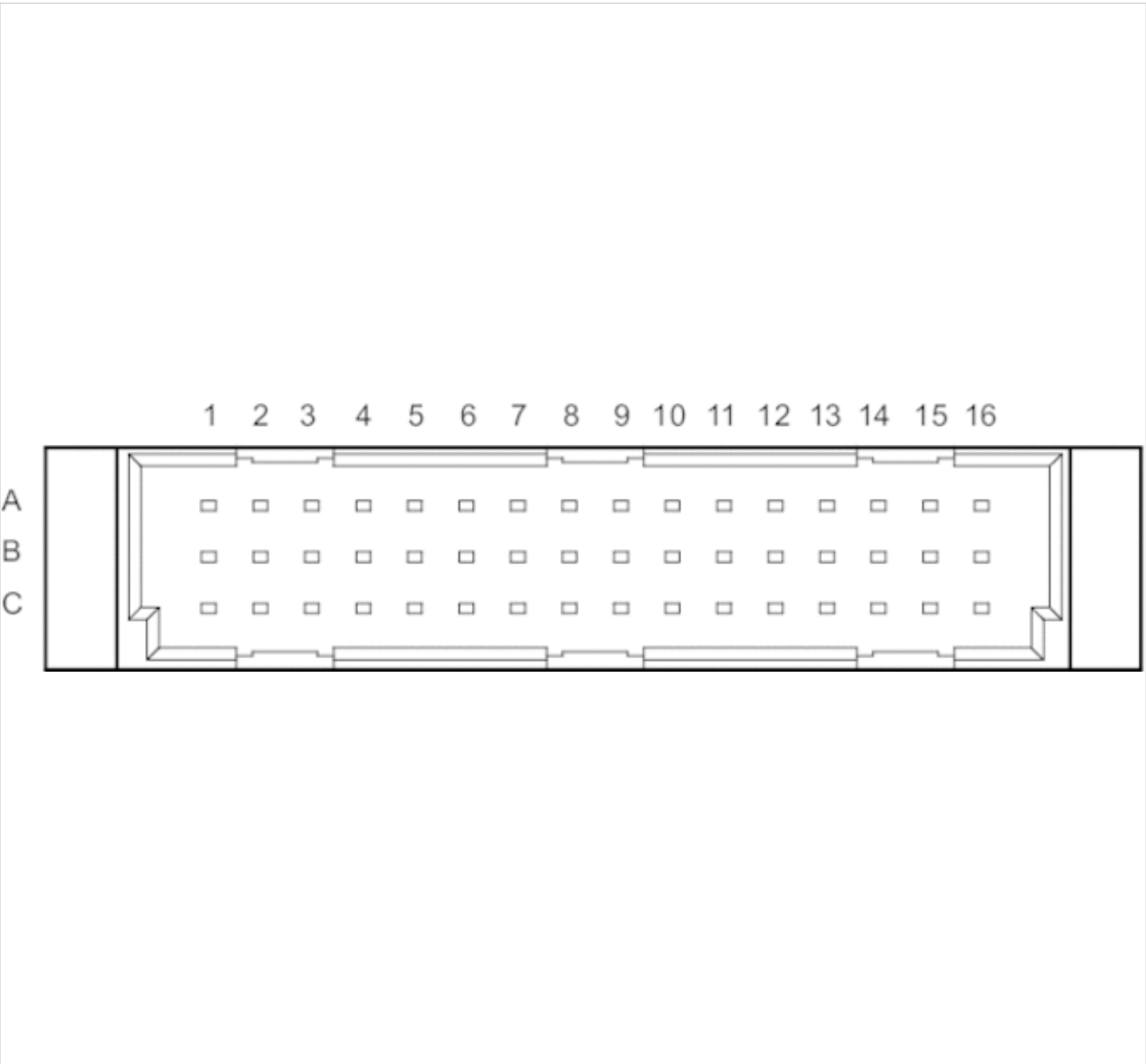
Dimensions



1) housing 2) cable gland 3) connector housing size C/2 4) screw 5) seal 6) cable 7) screw 8) seal 9) seal

Pin assignments

PIN assignment and cable colors



Pin	A1	A2	A3	A4	A5	A6
Color	blue	red/blue	white/pink	pink/brown	white/blue	brown/blue

A7	A8	B1	B2	B3	B4	B5	B6
white/red	brown/red	white	green	gray	red	violet	white/green

B7	B8	C1	C2	C3	C4	C5
white/yellow	white/gray	brown	yellow	pink	black	gray/pink

C6	C7	C8
brown/green	yellow/brown	gray/brown

Pin	A2	A3	A4	A5	A6	A7	
Color	red/blue	white/pink	brown/blue	white/blue	brown/blue	white/red	
A8	A9	B1	B2	B3	B4	B5	B6
brown/red	blue	white	green	gray	red	violet	white/green
B7	B8	B9	B10	B11	B12		
white/yellow	white/gray	white/pink	white/red	white/black	gray/green		
B13	B14	B15	B16	C1	C2	C3	C4
pink/green	green/red	green/black	gray/red	brown	yellow	pink	black
C5	C6	C7	C8	C9	C10		
gray/pink	brown/green	yellow/brown	gray/brown	pink/brown	brown/red		
C11	C12	C13	C14	C15	C16		
brown/black	yellow/gray	yellow/pink	yellow/red	yellow/black	pink/red		

Valve cover

- for series HF02-LG, HF03-LG



Weight

0.115 lbs

Technical data

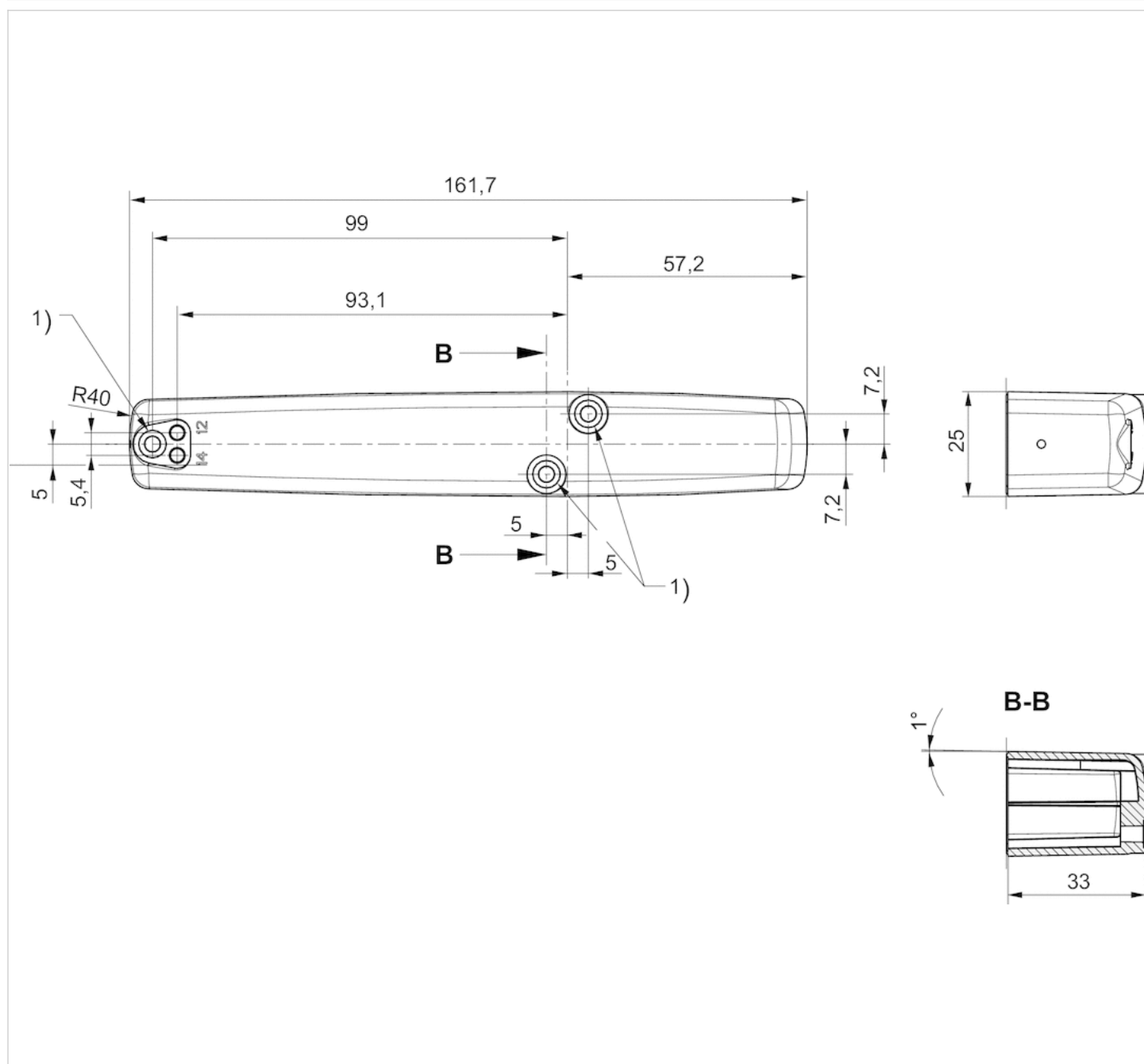
Part No.	Type
2631780000	CL03, HF03-LG
R414006060	CL03, HF02-LG

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated nitrile butadiene rubber

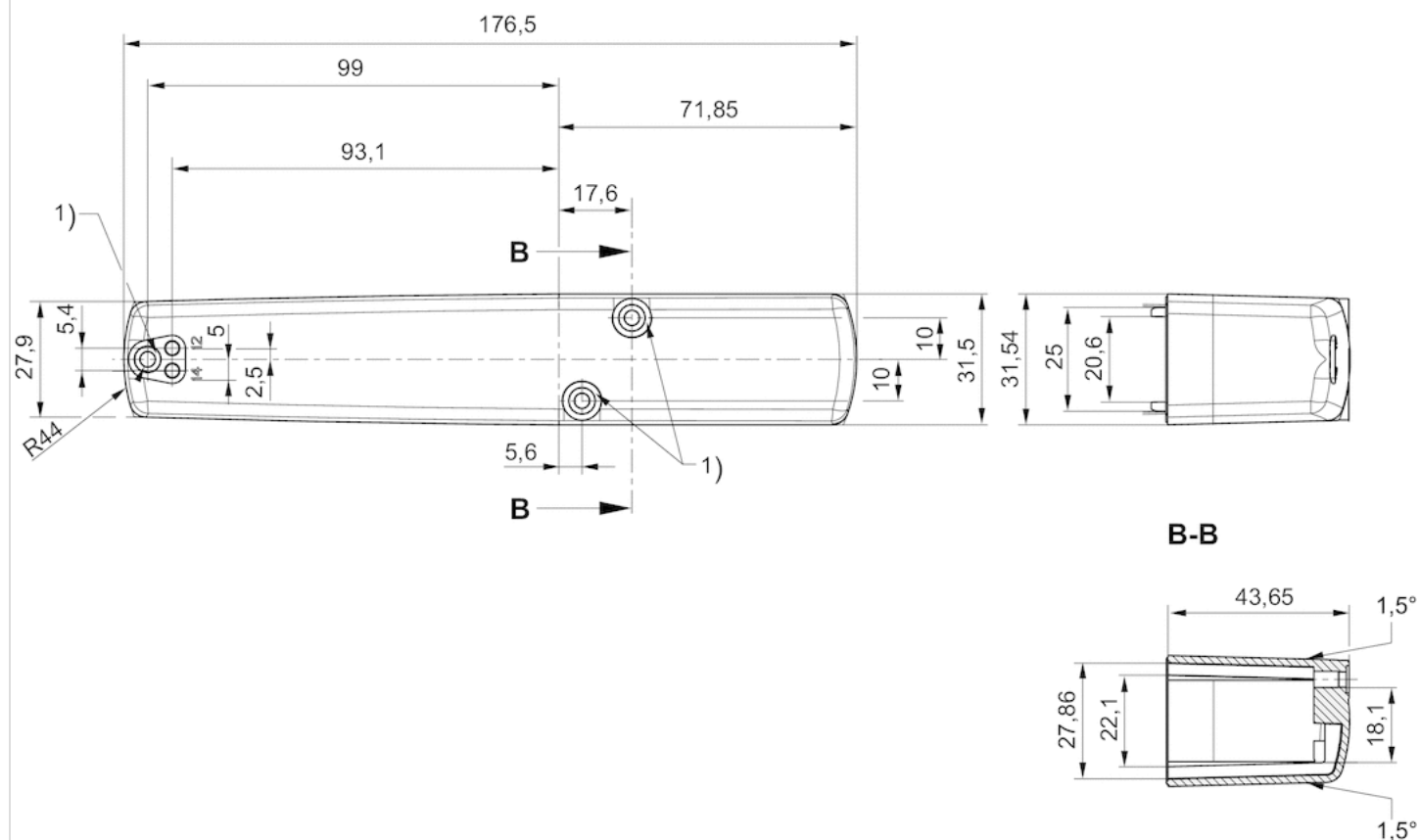
Dimensions

Dimensions, CL03, HF03-LG



1) Seal

Dimensions, CL03, HF02-LG



1) Seal

Separator

- for CL03



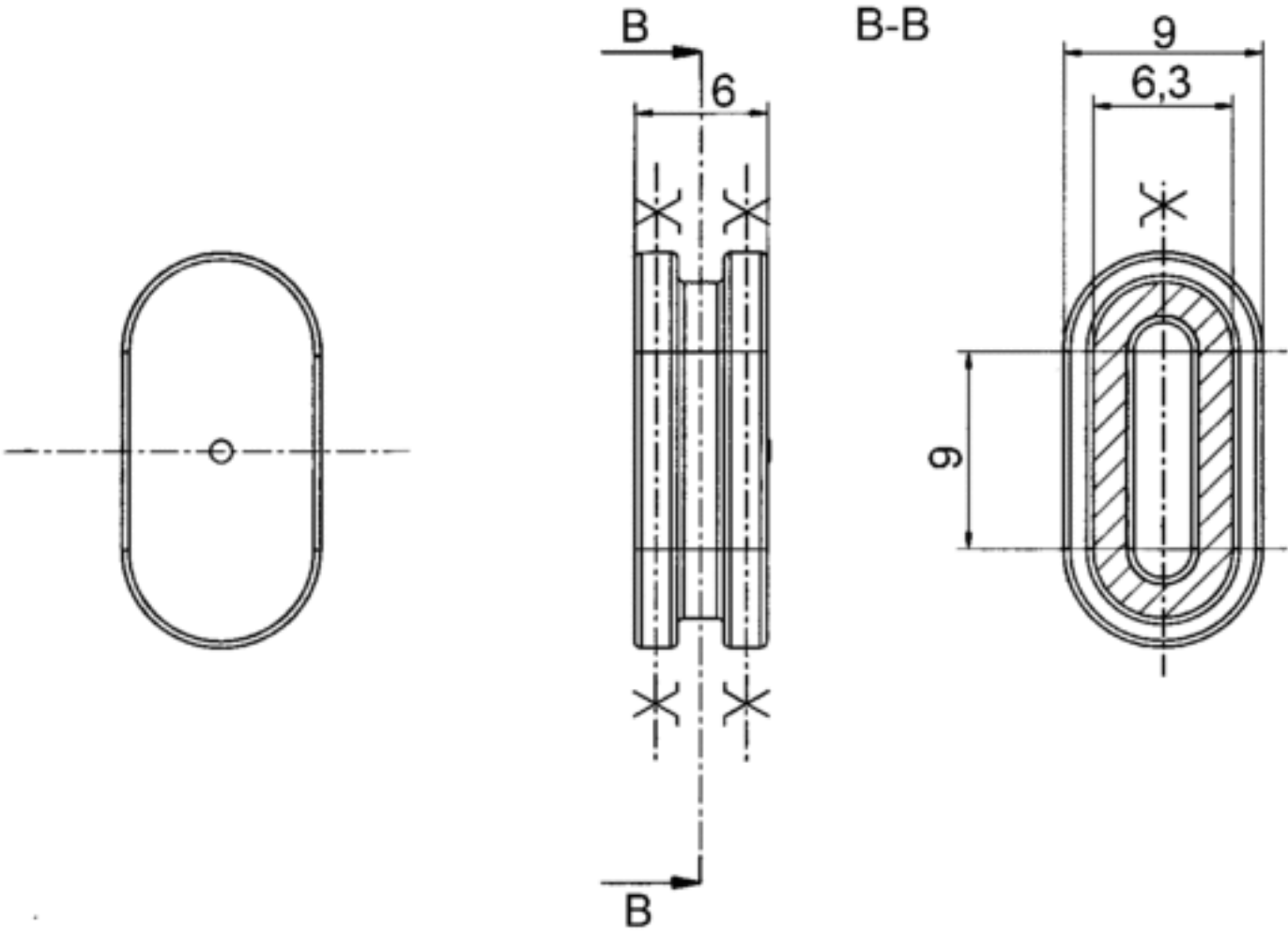
Weight

1.61 lbs

Technical data

Part No.	Type	Delivery unit
0493871904	Separator for connections 1, 3, 5	3 piece

Dimensions



Tie rod extension, 3 pieces

- for CL03, HF03-LG



Weight

See table below

Technical data

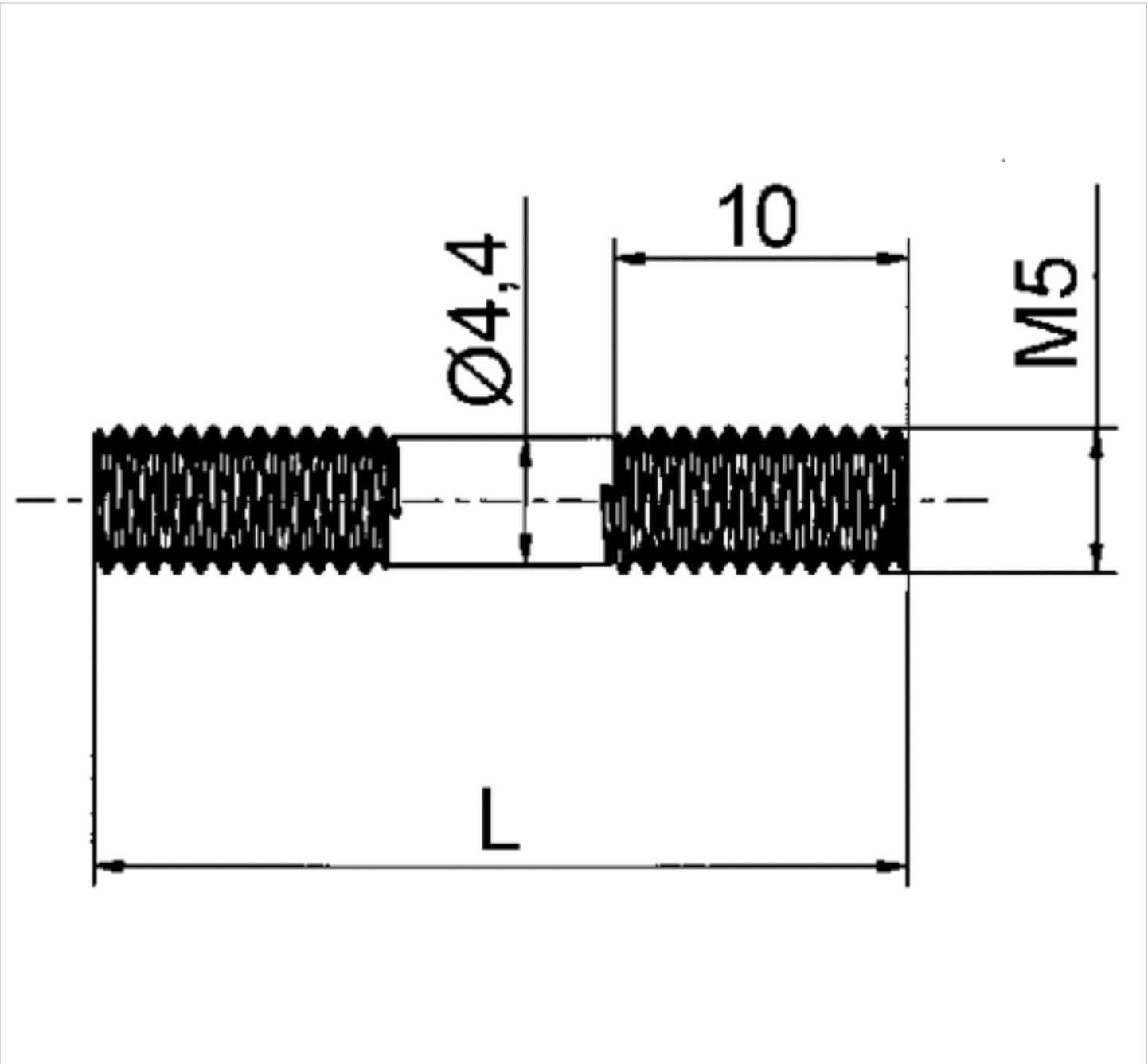
Part No.	Type	Delivery unit
2631881010	CL03, HF03-LG Single base plate principle, can be assembled into blocks	3 piece
2631881020	CL03, HF03-LG Double base plate principle, can be assembled into blocks	3 piece
R414001154	CL03, HF02-LG Single base plate principle, can be assembled into blocks	3 piece
R414001155	CL03, HF02-LG Double base plate principle, can be assembled into blocks	3 piece

Part No.	Weight
2631881010	0.055 lbs
2631881020	0.079 lbs
R414001154	0.06 lbs
R414001155	0.086 lbs

Technical information

Material	
Housing	Stainless steel

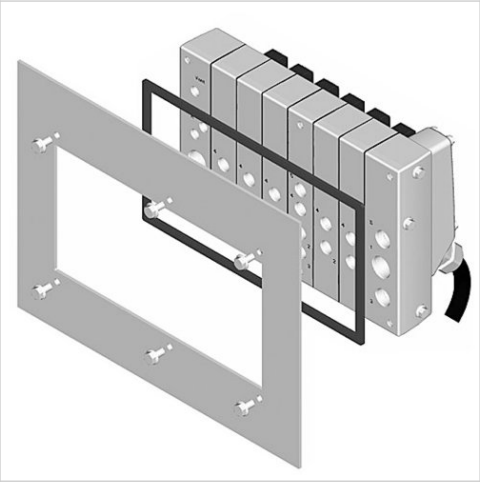
Dimensions



Dimensions

Part No.	L
2631881010	30
2631881020	60
R414001154	35.5
R414001155	71

Mecproof sealing



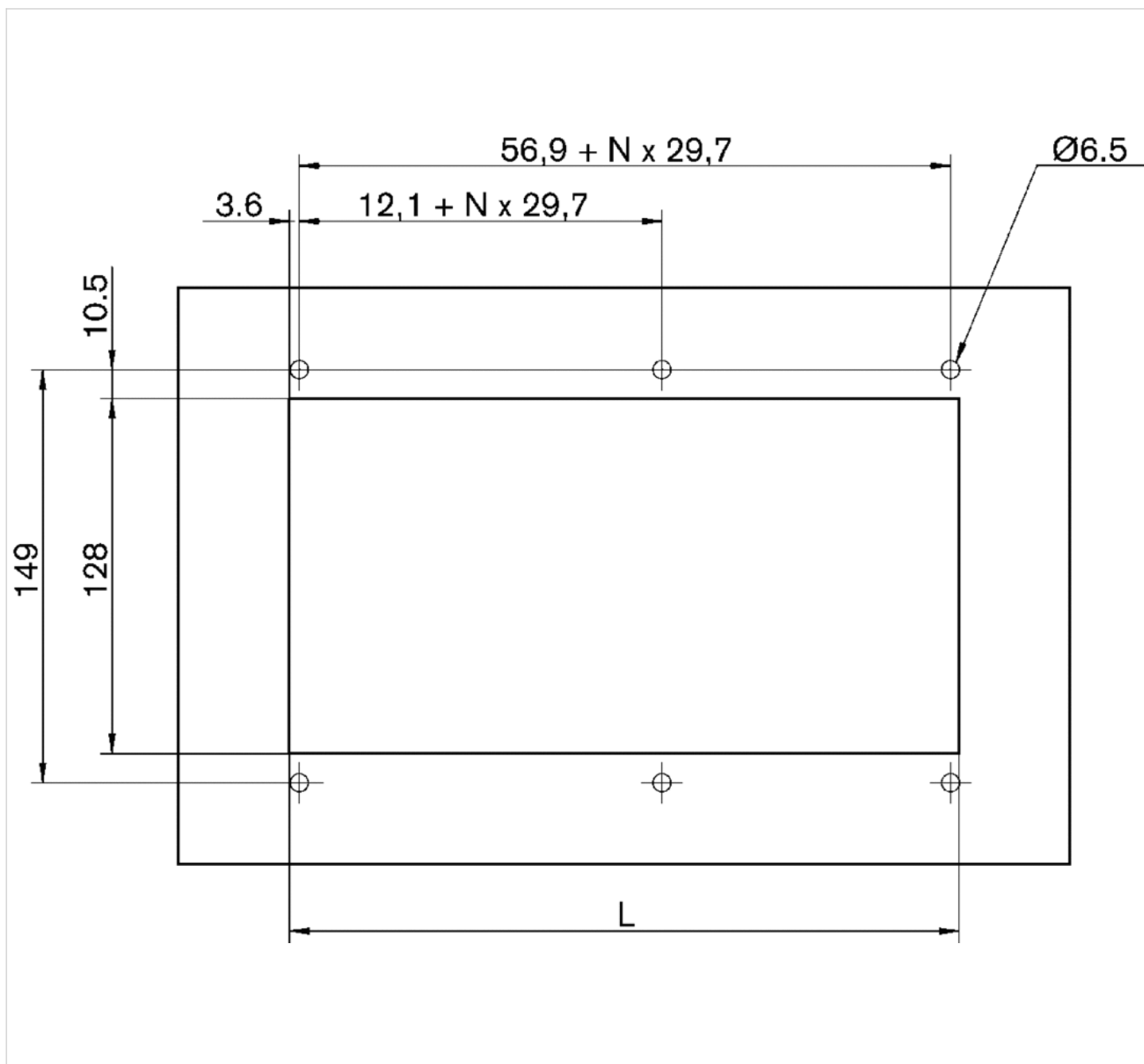
Technical data

Part No.	Type
0493872001	Mecproof sealing

Technical information

Material	
Seal	Chloroprene rubber

Dimensions



$L = 63,5 + N \times 29,7$ (not for CL03 integrated bus versions)

$L = 101,5 + N \times 29,7$ (for CL03 integrated bus versions)

N = number of subbases

Bus coupler, Series CL03

- Fieldbus protocol PROFIBUS DP PROFINET IO EtherNET/IP DeviceNet CANopen



Ambient temperature min./max.

32 ... 122 °F

Operational voltage electronics

24 V DC

Protection class

IP69K

Weight

See table below

Technical data

Part No.	Type	Fieldbus protocol	Port	Port
			1	2
R402003531	metric	PROFIBUS DP	Plug, M12, 5-pin, B-coded	Socket, M12, 5-pin, B-coded
R402003535	inch	PROFIBUS DP	Plug, M12, 5-pin, B-coded	Socket, M12, 5-pin, B-coded
R412023889	metric	PROFINET IO	Socket, M12, 5-pin, D-coded	Socket, M12, 5-pin, D-coded
R412023890	inch	PROFINET IO	Socket, M12, 5-pin, D-coded	Socket, M12, 5-pin, D-coded
R412023891	metric	EtherNET/IP	Socket, M12, 5-pin, D-coded	Socket, M12, 5-pin, D-coded
R412023892	inch	EtherNET/IP	Socket, M12, 5-pin, D-coded	Socket, M12, 5-pin, D-coded
R402003533	metric	DeviceNet	Plug, M12, 5-pin, A-coded	Socket, M12, 5-pin, A-coded
R402003537	inch	DeviceNet	Plug, M12, 5-pin, A-coded	Socket, M12, 5-pin, A-coded
R402003534	metric	CANopen	Plug, M12, 5-pin, A-coded	Socket, M12, 5-pin, A-coded
R402003538	inch	CANopen	Plug, M12, 5-pin, A-coded	Socket, M12, 5-pin, A-coded

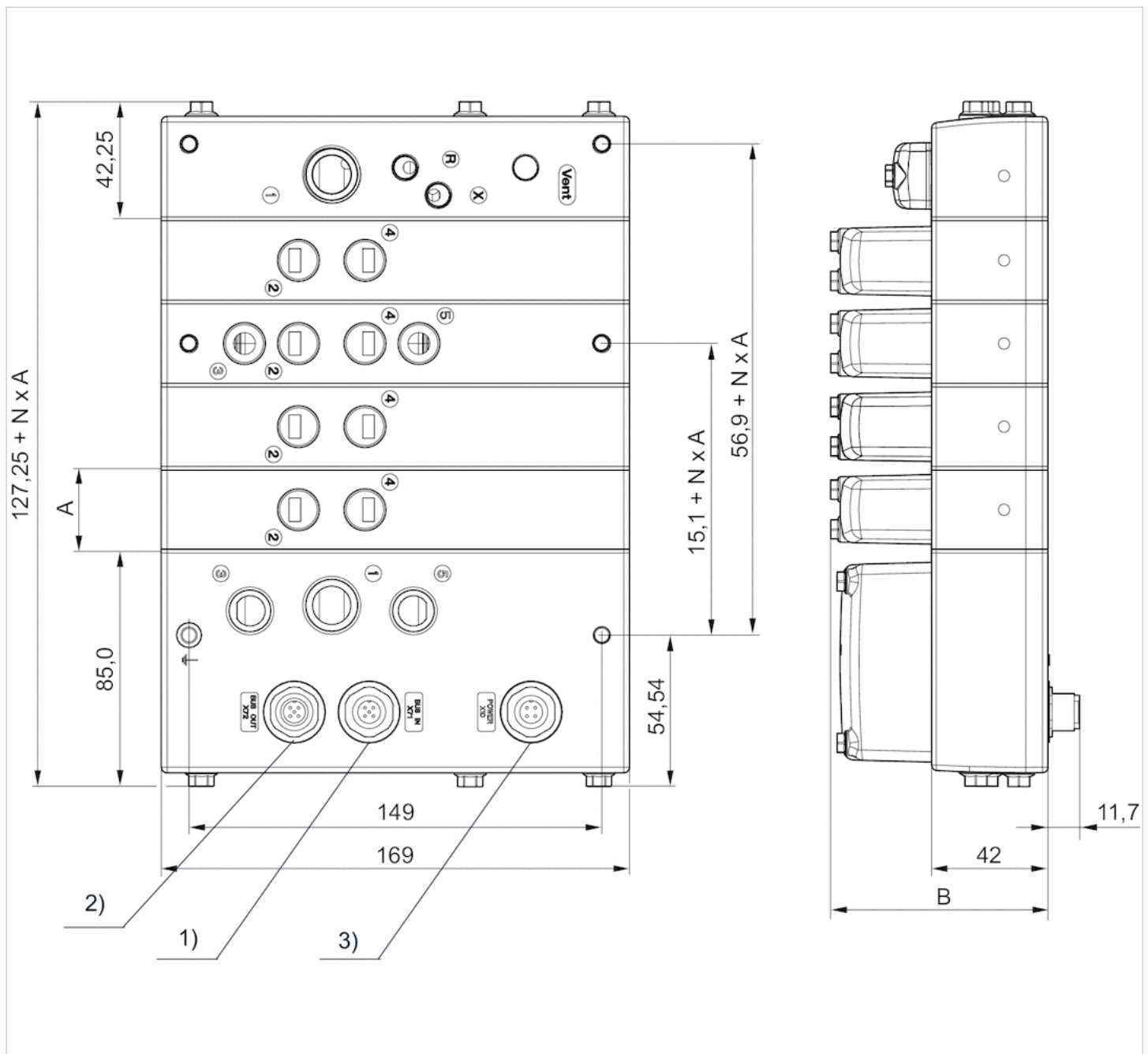
Part No.	power supply	Weight
R402003531	Plug, M12, 4-pin, A-coded	1.2 lbs
R402003535	Plug, M12, 4-pin, A-coded	1.57 lbs
R412023889	Plug, M12, 4-pin, A-coded	1.21 lbs
R412023890	Plug, M12, 4-pin, A-coded	1.54 lbs
R412023891	Plug, M12, 4-pin, A-coded	1.21 lbs
R412023892	Plug, M12, 4-pin, A-coded	1.54 lbs
R402003533	Plug, M12, 4-pin, A-coded	1.17 lbs
R402003537	Plug, M12, 4-pin, A-coded	1.54 lbs
R402003534	Plug, M12, 4-pin, A-coded	1.17 lbs
R402003538	Plug, M12, 4-pin, A-coded	1.54 lbs

Technical information

Material	
Housing	Polyamide fiber-glass reinforced Stainless steel

Dimensions

Dimensions



CL03:A = 30,0 mm

B = 78,5 mm

CL03-CL:A = 36,0 mm

B = 89,15

1) Connection 1 bus IN

2) Connection 2 bus OUT

3) Power supply

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