



Directional valves → Electrically operated

Series TC08

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Brochure



Directional valves → Electrically operated

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Directional valves → Electrically operated
Series TC08

Valves, compressed air connection NPTF 1/8-27

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Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► double solenoid



Version	Spool valve, zero overlap
Pilot	internal, external
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ISO 228-1
Connector standard	EN 61076-2-101
Protection class according to EN 60529: with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks	
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. ■ The oil content of air pressure must remain constant during the life cycle. ■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.	

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection		b	C		
									[l/(s*bar)]	[l/min]	
	NC/NC		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102055
	NO/NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102056

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► double solenoid

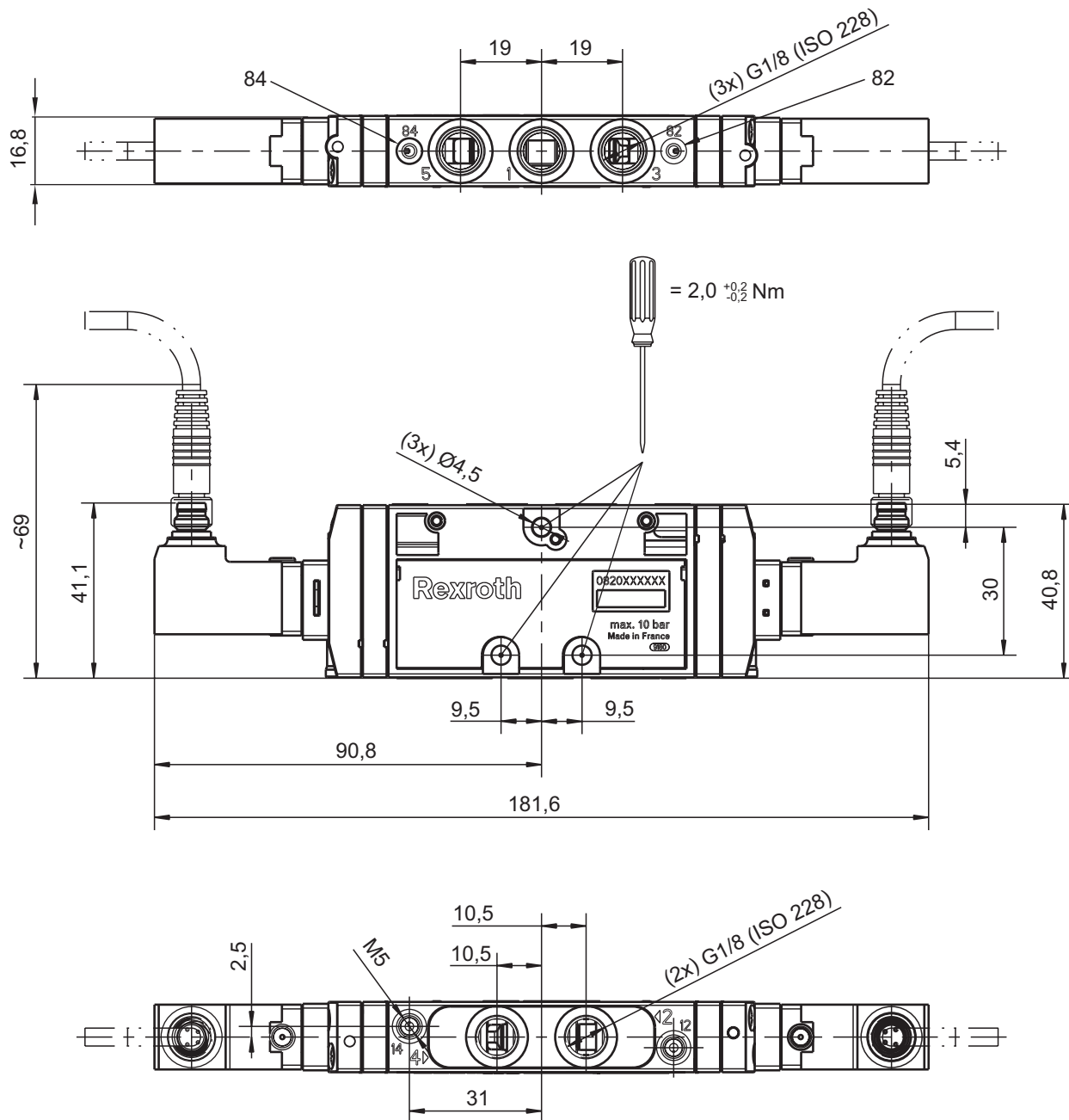
		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connec- tion	DC	b	C	Qn	
									[l/(s*bar)]	[l/min]	
	NC/ NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102057
	NC/NC		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102058
	NO/ NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102059
	NC/ NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102060
Part No.	Working pressure min./max.						Weight				
	</										

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► double solenoid

Dimensions



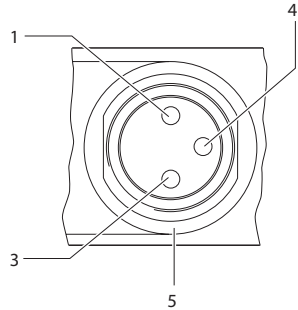
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Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► double solenoid

PIN assignment and cable colors for electrical connector



00125554

PIN assignment:

1) PIN not assigned

3) 0 V

4) 24 V

5) LED

Cable color

1) Brown

3) Blue

4) Black

Note: Bi-polar protective circuit to prevent overvoltage

Directional valves → Electrically operated

5/2-way valve, Series TC08

▶ Qn = 800 l/min ▶ pipe connection ▶ compressed air connection output: G 1/8 ▶ Electr. connection: Plug, M8, 3-pin ▶ manual override: with detent ▶ single solenoid, double solenoid



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. ■ The oil content of air pressure must remain constant during the life cycle. ■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

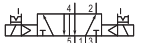
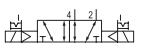
Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[bar]	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2.5 / 10	2.5 / 10	R422100968
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2.5 / 10	R422100969
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	3 / 10	3 / 10	R422100970
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	3 / 10	R422100971

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Q_n			
							[l/(s*bar)]	[l/min]	[bar]	[bar]	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2 / 10	2 / 10	R422100972
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2 / 10	R422100973
Part No.	Switch-on time		Switch-off time		Weight		Note				
	[ms]		[ms]		[kg]						
R422100968	17		22		0.14				1)		
R422100969	17		22		0.14				2)		
R422100970	12		16		0.14				1)		
R422100971	12		16		0.14				2)		
R422100972	9		9		0.172				1)		
R422100973	9		9		0.172				2)		

MO = Manual override

1) Pilot: internal

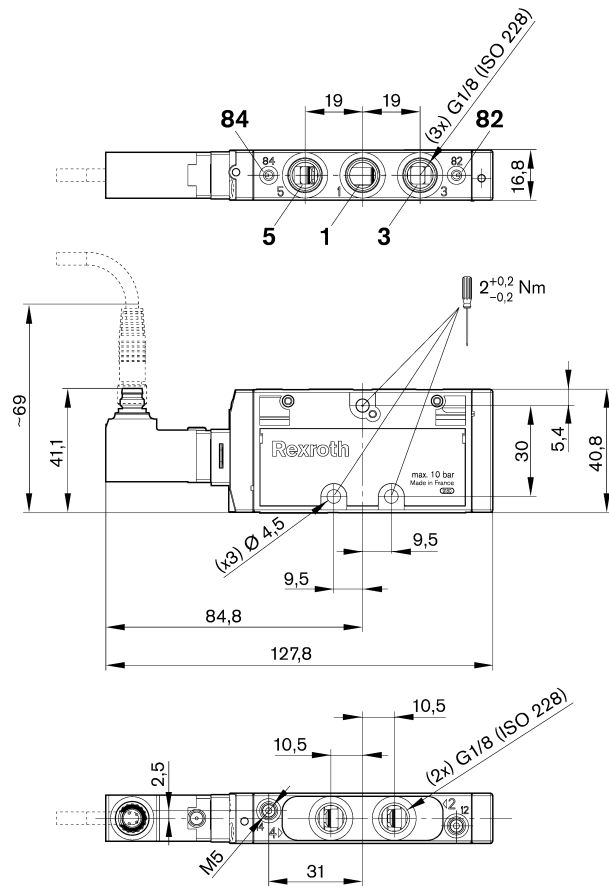
2) Pilot: external

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► single solenoid, double solenoid

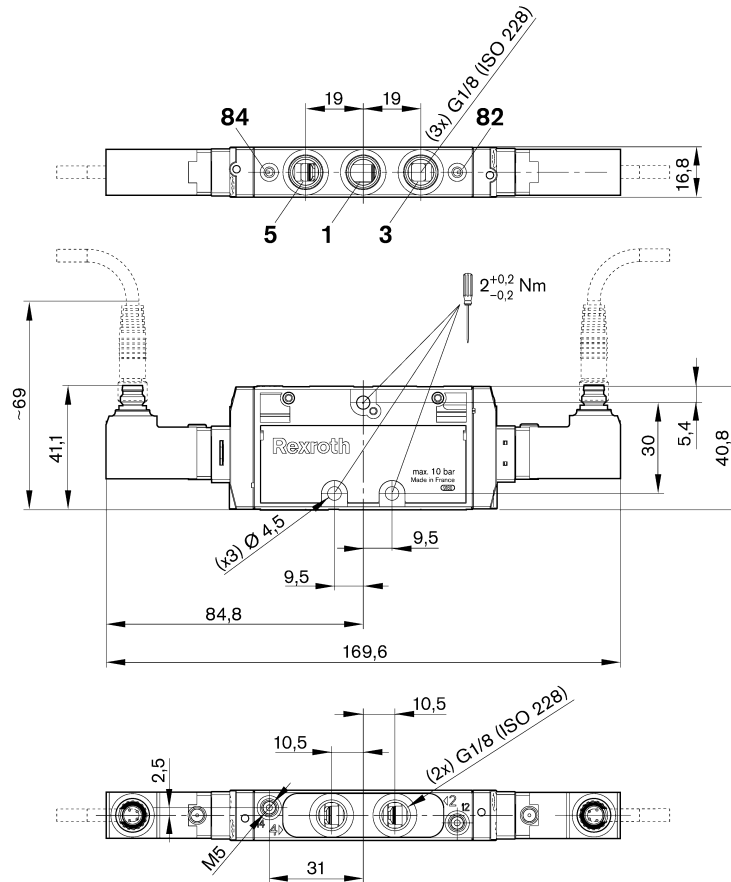
Dimensions, single solenoid

00111977_a

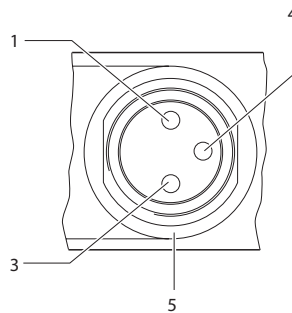
Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► single solenoid, double solenoid

Dimensions, double solenoid

00111978_a

PIN assignment for electrical connector

00125554

Pin assignment:

- 1) Pin not assigned
- 3) 0 V
- 4) 24 V
- 5) LED

Note: Bi-polar protective circuit to prevent overvoltage

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. ■ The oil content of air pressure must remain constant during the life cycle. ■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

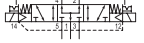
Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	R422100974
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	R422100975
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	R422100976
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	R422100977

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	R422100978
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	R422100979
Part No.	Note										
R422100974	1)										
R422100975	2)										
R422100976	1)										
R422100977	2)										
R422100978	1)										
R422100979	2)										

MO = Manual override

1) Pilot: internal

2) Pilot: external

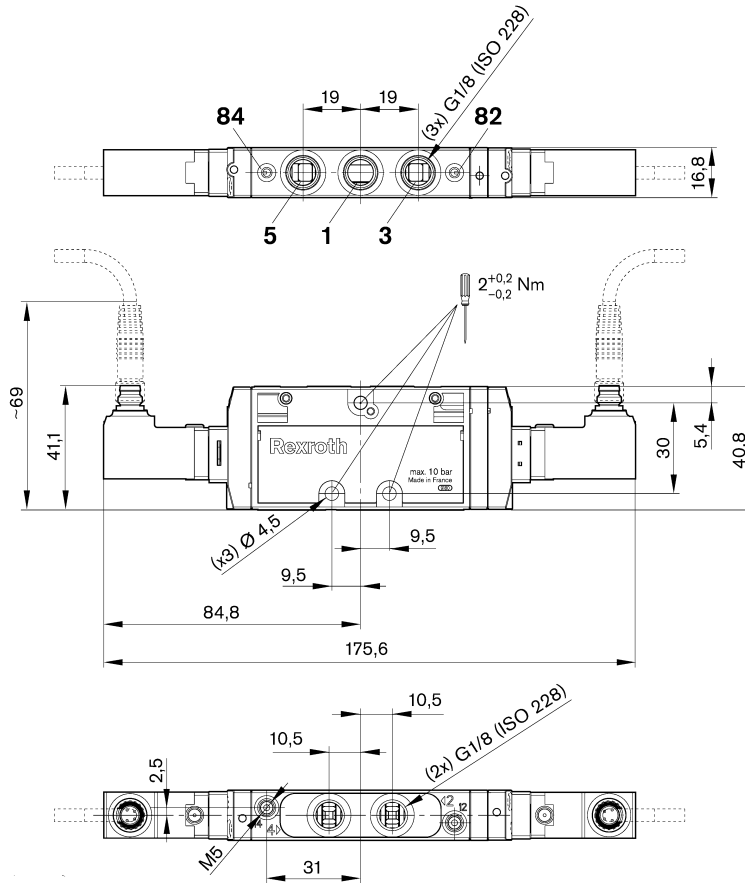
Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

5/3-way valve, Series TC08

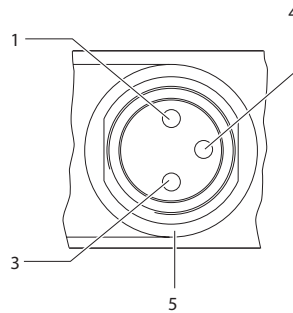
► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 3-pin ► manual override: with detent

Dimensions



00111979_b

PIN assignment for electrical connector



00125554

Pin assignment:

- 1) Pin not assigned
- 3) 0 V
- 4) 24 V
- 5) LED

Note: Bi-polar protective circuit to prevent overvoltage

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► double solenoid



00134318

Version	Spool valve, zero overlap
Pilot	internal, external
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ISO 228-1
Connector standard	EN 61076-2-101
Protection class according to EN 60529: with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

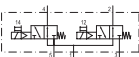
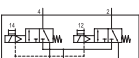
Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	DC	b	C	Qn	
									[l/(s*bar)]	[l/min]	
	NC/NC		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102049

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► double solenoid

		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	DC	b	C	Qn	
									[l/(s*bar)]	[l/min]	
	NO/NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102050
	NC/NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102051
	NC/NC		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102052
	NO/NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102053
	NC/NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102054
Part No.	Working pressure min./max.						Weight				
	[bar]						[kg]				
R422102049	2.5 / 10						0.182				
R422102050	2.5 / 10						0.182				
R422102051	2.5 / 10						0.182				
R422102052	-0.9 / 10						0.182				
R422102053	-0.9 / 10						0.182				
R422102054	-0.9 / 10						0.182				

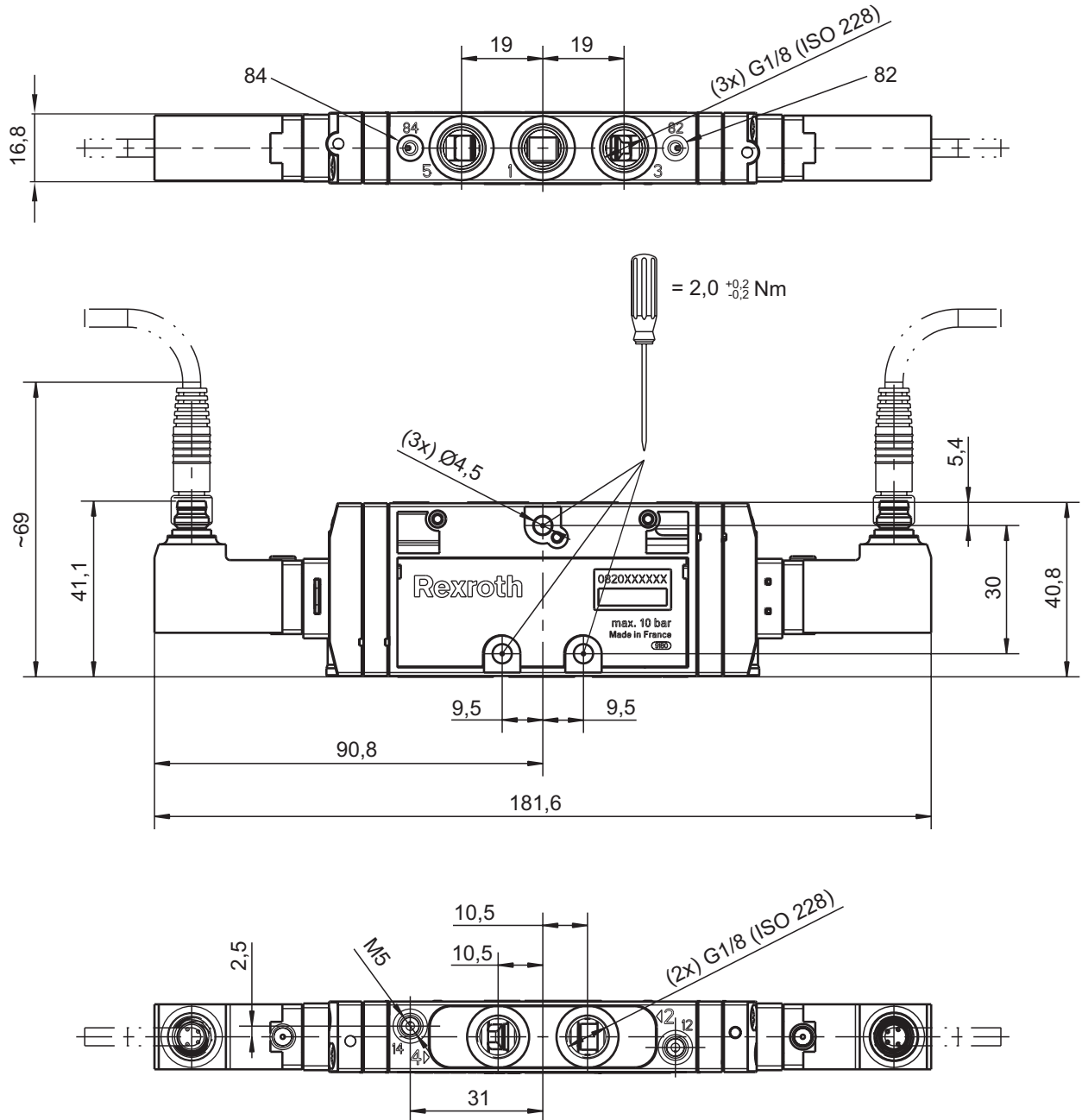
MO = Manual override

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

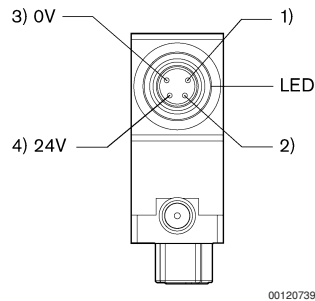
► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► double solenoid

Dimensions

00134233

Directional valves → Electrically operated**2x3/2-way valve, Series TC08**

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► double solenoid

PIN assignment and cable colors for electrical connector

PIN assignment:

1) PIN not assigned

2) PIN not assigned

Cable color

1) Brown

2) White

3) Blue

4) Black

Note: Bi-polar protective circuit to prevent overvoltage

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► double solenoid



00134318

Version	Spool valve, zero overlap
Pilot	internal, external
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ISO 228-1
Connector standard	EN 61076-2-101
Protection class according to EN 60529: with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	DC	b	C	Qn	
									[l/(s*bar)]	[l/min]	
	NC/NC		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102043

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► double solenoid

		MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Part No.
			Input	Output	Exhaust	Pilot connection	DC	b	C	Qn	
									[l/(s*bar)]	[l/min]	
	NO/NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102044
	NC/NO		G 1/8	G 1/8	G 1/8	-	24 V	0.27	2.8	600	R422102045
	NC/NC		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102046
	NO/NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102047
	NC/NO		G 1/8	G 1/8	G 1/8	M5	24 V	0.27	2.8	600	R422102048
Part No.	Working pressure min./max.						Weight				
	[bar]						[kg]				
R422102043	2.5 / 10						0.182				
R422102044	2.5 / 10						0.182				
R422102045	2.5 / 10						0.182				
R422102046	-0.9 / 10						0.182				
R422102047	-0.9 / 10						0.182				
R422102048	-0.9 / 10						0.182				

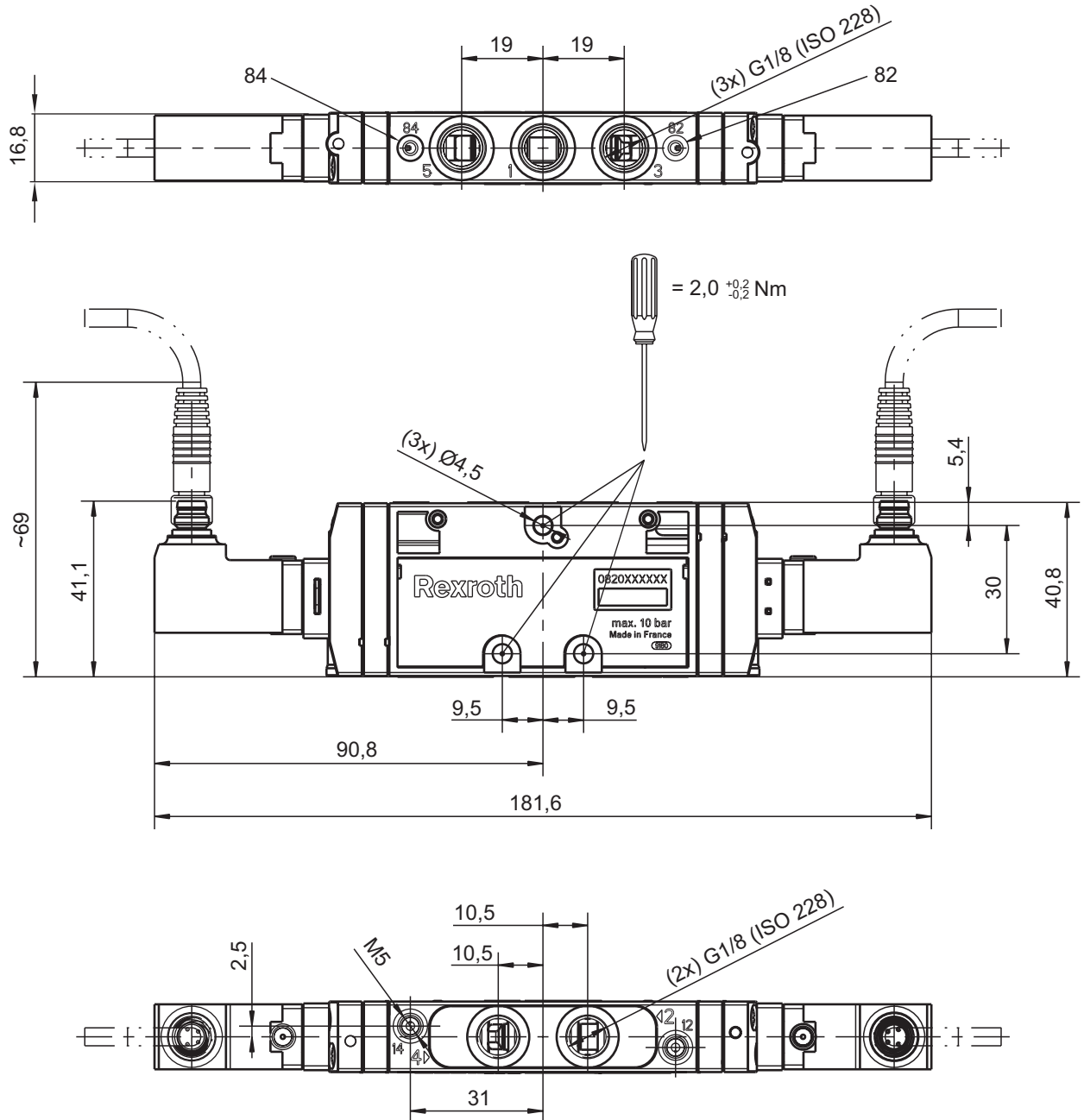
MO = Manual override

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► double solenoid

Dimensions

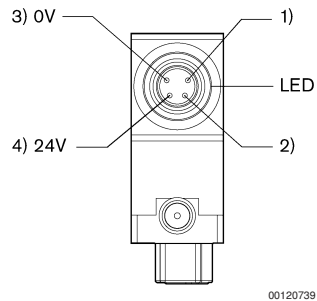
00134233

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► double solenoid

PIN assignment and cable colors for electrical connector



00120739

PIN assignment:

1) PIN not assigned

2) PIN not assigned

Cable color

1) Brown

2) White

3) Blue

4) Black

Note: Bi-polar protective circuit to prevent overvoltage

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► single solenoid, double solenoid



00120252

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

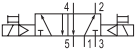
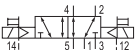
	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[bar]	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2.5 / 10	2.5 / 10	0820060301
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2.5 / 10	0820060351
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	3 / 10	3 / 10	0820060311
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	3 / 10	0820060361

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
Pneumatics catalog, online PDF, as of 2010-02-05, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Q_n			
							$[\text{l}/(\text{s} \cdot \text{bar})]$	$[\text{l}/\text{min}]$	$[\text{bar}]$	$[\text{bar}]$	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2 / 10	2 / 10	0820060321
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2 / 10	0820060371
Part No.	Switch-on time		Switch-off time		Weight		Note				
	$[\text{ms}]$		$[\text{ms}]$		$[\text{kg}]$						
0820060301	17		22		0.14		1)				
0820060351	17		22		0.14		2)				
0820060311	12		16		0.14		1)				
0820060361	12		16		0.14		2)				
0820060321	9		9		0.172		1)				
0820060371	9		9		0.172		2)				

MO = Manual override

1) Pilot: internal

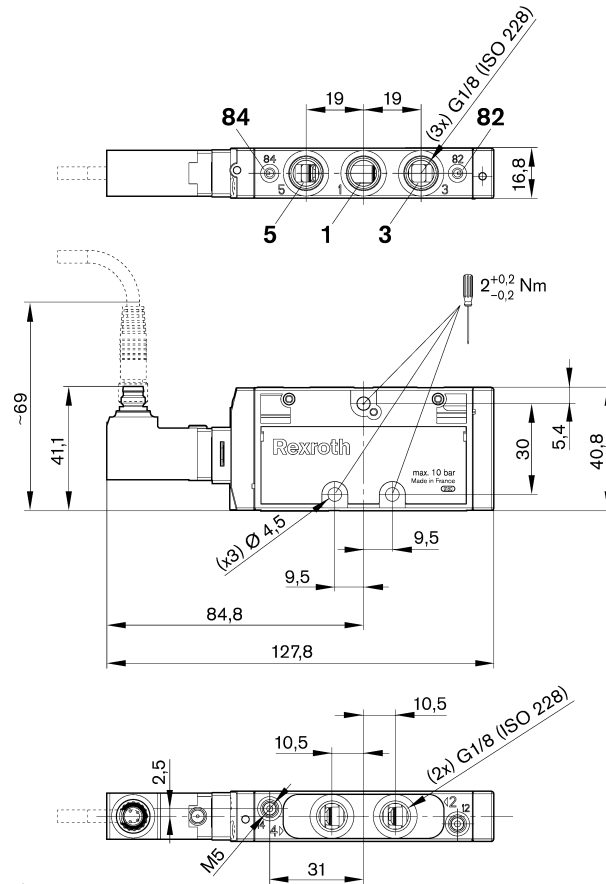
2) Pilot: external

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► single solenoid, double solenoid

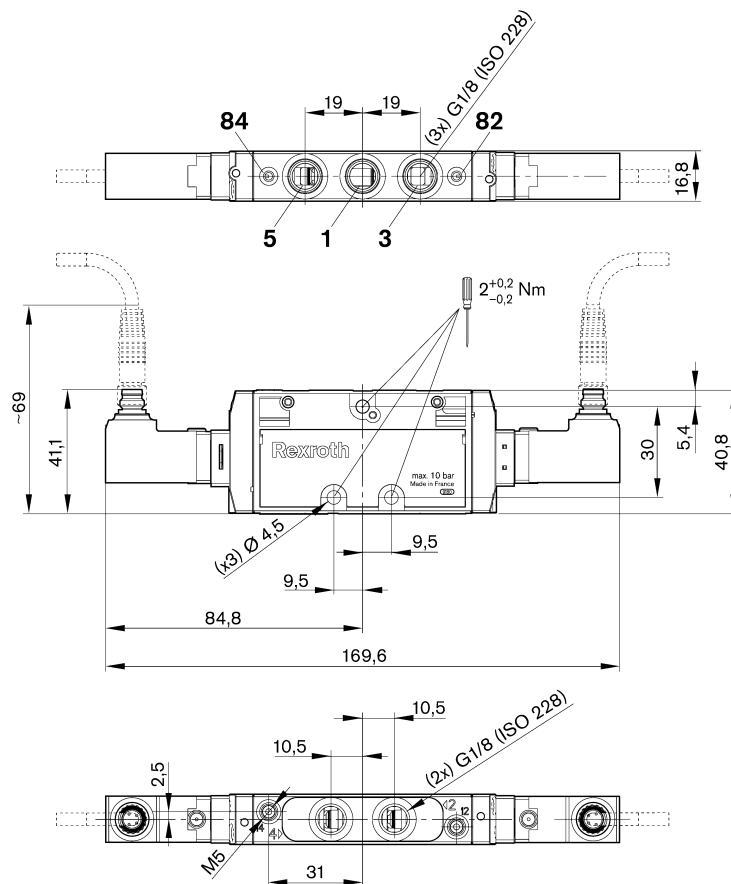
Dimensions, single solenoid

00111977

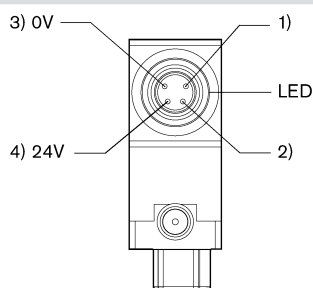
Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent ► single solenoid, double solenoid

Dimensions, double solenoid

00111978

PIN assignment and cable colors for electrical connector

00120739

PIN assignment:

- 1) PIN not assigned
- 2) PIN not assigned

Cable color

- 1) Brown
- 2) White
- 3) Blue
- 4) Black

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► single solenoid, double solenoid



00120252

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[bar]	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2.5 / 10	2.5 / 10	0820060201
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2.5 / 10	0820060251
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	3 / 10	3 / 10	0820060211
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	3 / 10	0820060261

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Control pressure min./max.	Part No.
		Input	Output	Exhaust	DC	b	C	Q_n			
							$[\text{l}/(\text{s} \cdot \text{bar})]$	$[\text{l}/\text{min}]$	$[\text{bar}]$	$[\text{bar}]$	
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	2 / 10	2 / 10	0820060221
		G 1/8	G 1/8	G 1/8	24 V	0.36	3.5	800	-0.9 / 10	2 / 10	0820060271
Part No.	Switch-on time		Switch-off time		Weight		Note				
	$[\text{ms}]$		$[\text{ms}]$		$[\text{kg}]$						
0820060201	17		22		0.14				1)		
0820060251	17		22		0.14				2)		
0820060211	12		16		0.14				1)		
0820060261	12		16		0.14				2)		
0820060221	9		9		0.172				1)		
0820060271	9		9		0.172				2)		

MO = Manual override

1) Pilot: internal

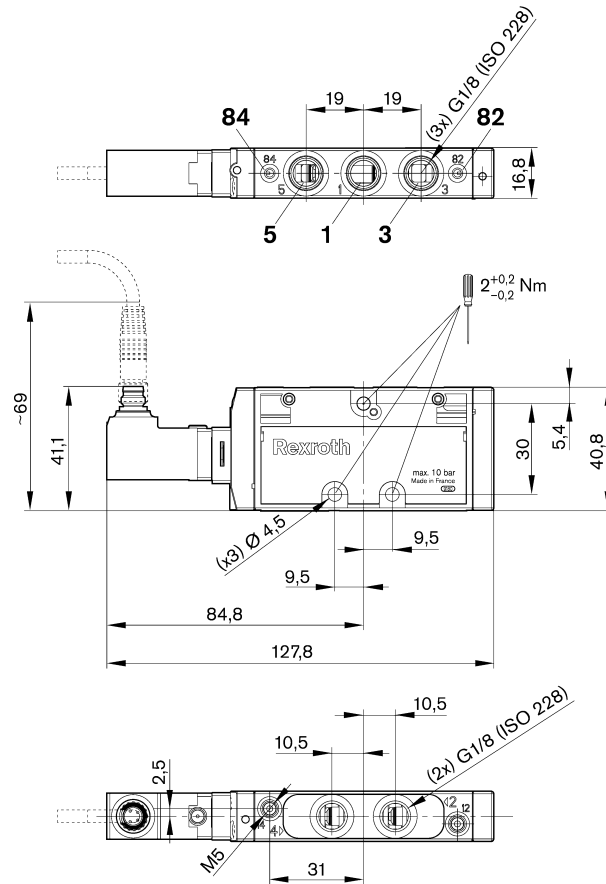
2) Pilot: external

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► single solenoid, double solenoid

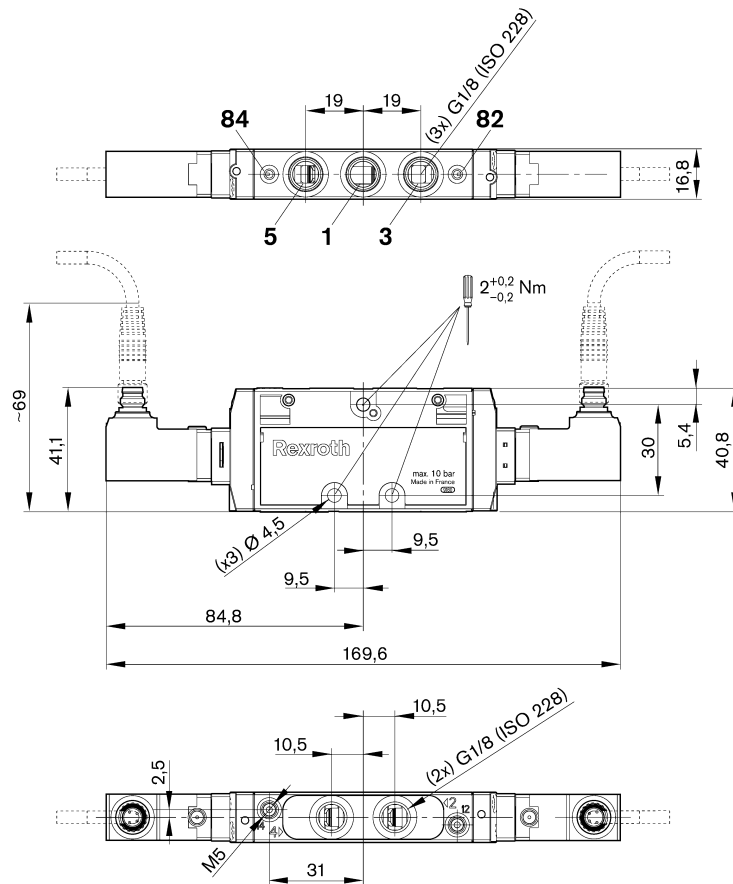
Dimensions, single solenoid

00111977_a

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► single solenoid, double solenoid

Dimensions, double solenoid

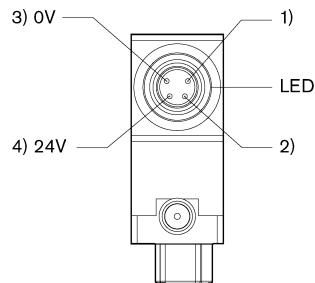
00111978_a

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent ► single solenoid, double solenoid

PIN assignment and cable colors for electrical connector



00120739_a

PIN assignment:

- 1) PIN not assigned
- 2) PIN not assigned

Cable color

- 1) Brown
- 2) White
- 3) Blue
- 4) Black

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent



00120255

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061301
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061351
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061311
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061361

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
	≡	G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061321
	≡	G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061371
Part No.	Note										
0820061301	1)										
0820061351	2)										
0820061311	1)										
0820061361	2)										
0820061321	1)										
0820061371	2)										

MO = Manual override

1) Pilot: internal

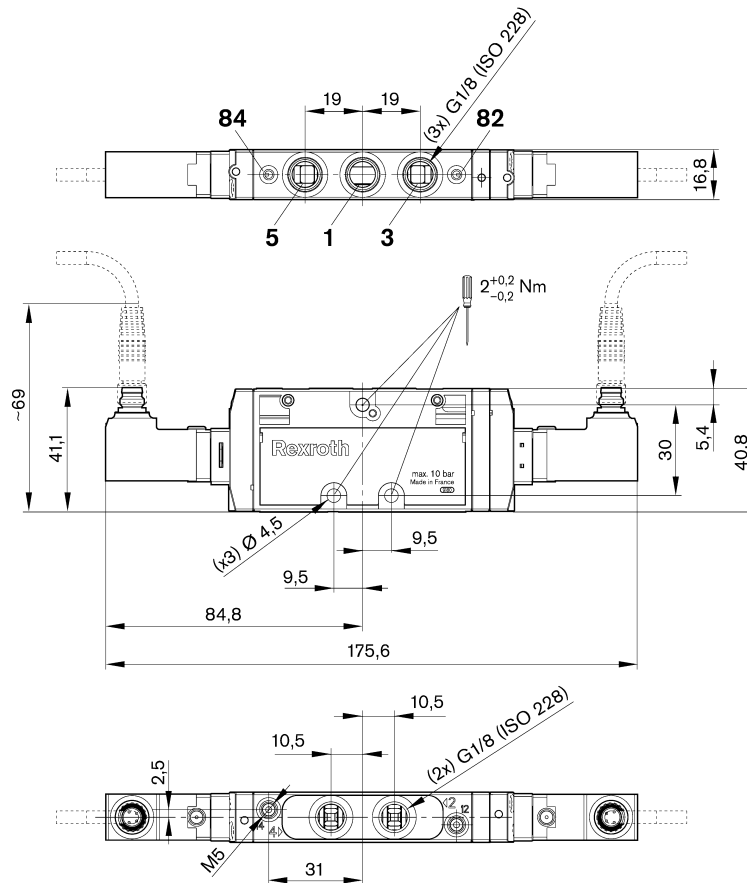
2) Pilot: external

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

5/3-way valve, Series TC08

► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent

Dimensions

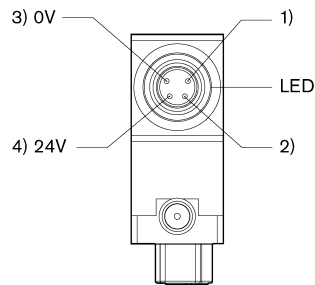
00111979

Directional valves → Electrically operated

5/3-way valve, Series TC08

► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: without detent

PIN assignment and cable colors for electrical connector



00120739_b

PIN assignment:

1) PIN not assigned

2) PIN not assigned

Cable color

1) Brown

2) White

3) Blue

4) Black

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks	
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.	
■ The oil content of air pressure must remain constant during the life cycle.	
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.	

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust		b	C				
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061201
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061251
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061211
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061261

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent

	MO	Compressed air connection			Operating voltage	Flow conductance		Flow rate value	Working pressure min./max.	Weight	Part No.
		Input	Output	Exhaust	DC	b	C	Qn			
							[l/(s*bar)]	[l/min]	[bar]	[kg]	
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	3 / 10	0.178	0820061221
		G 1/8	G 1/8	G 1/8	24 V	0.34	3	700	-0.9 / 10	0.178	0820061271
Part No.	Note										
0820061201	1)										
0820061251	2)										
0820061211	1)										
0820061261	2)										
0820061221	1)										
0820061271	2)										

MO = Manual override

1) Pilot: internal

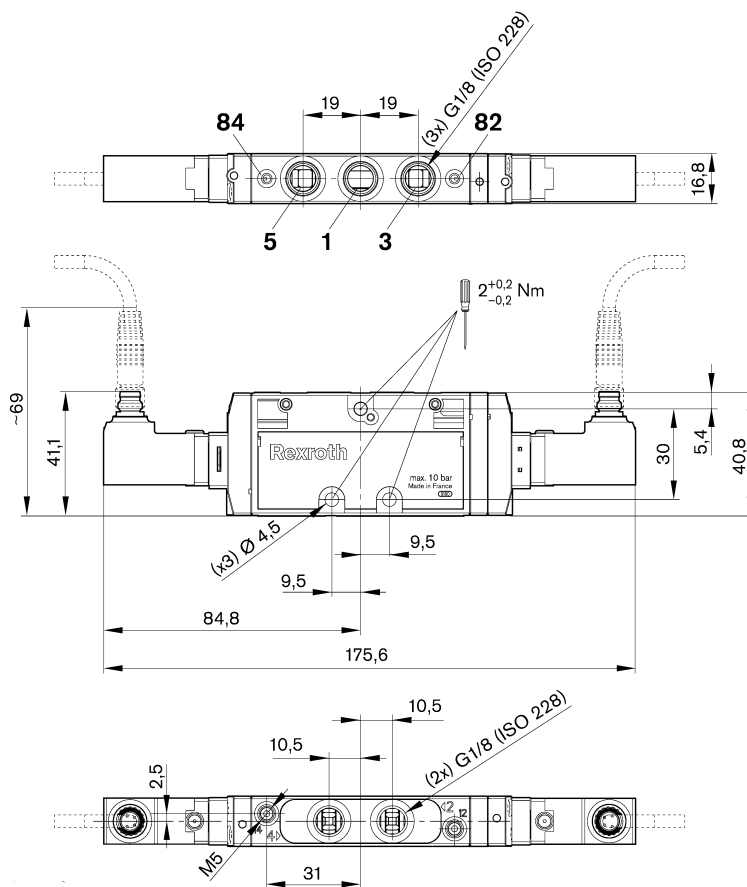
2) Pilot: external

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

5/3-way valve, Series TC08

► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent

Dimensions

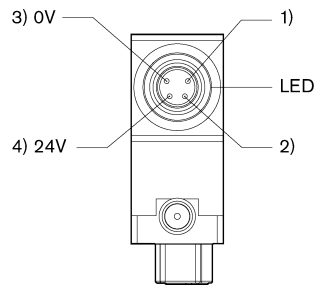
00111979_b

Directional valves → Electrically operated

5/3-way valve, Series TC08

► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, M8, 4-pin ► manual override: with detent

PIN assignment and cable colors for electrical connector



00120739_c

PIN assignment:

- 1) PIN not assigned
- 2) PIN not assigned

Cable color

- 1) Brown
- 2) White
- 3) Blue
- 4) Black

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► double solenoid



00134319

Version	Spool valve, zero overlap
Pilot	internal, external
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ISO 228-1
Connector standard	ISO 15217:2000
Protection class according to EN 60529: with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

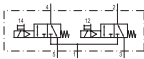
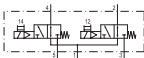
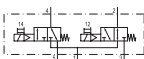
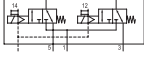
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► double solenoid

		MO	Compressed air connection				Operating voltage			Flow con- duc- tance	Part No.
			Input	Output	Exhaust	Pilot con- nec- tion	DC	AC 50 Hz	AC 60 Hz	b	
	NC/NC		G 1/8	G 1/8	G 1/8	-	- 24 V - 110 V - 230 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102022 R422102023 R422102024 R422102025
	NO/NO		G 1/8	G 1/8	G 1/8	-	- 24 V - 110 V - 230 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102026 R422102027 R422102028 R422102029
	NC/NO		G 1/8	G 1/8	G 1/8	-	- 24 V - 110 V - 230 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102030 R422102031 R422102032 R422102033
	NC/NC		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V - 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102034 R422102035 R422102036
	NO/NO		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V - 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102037 R422102038 R422102039
	NC/NO		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V - 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102040 R422102041 R422102042
Part No.	Flow conductance		Flow rate value		Working pressure min./ max.		Weight				
	C		Qn								
	[l/(s*bar)]		[l/min]		[bar]		[kg]				
R422102022 R422102023 R422102024 R422102025	2.8		600		2.5 / 10		0.181				
R422102026 R422102027 R422102028 R422102029	2.8		600		2.5 / 10		0.181				
R422102030 R422102031 R422102032 R422102033	2.8		600		2.5 / 10		0.181				
R422102034 R422102035 R422102036	2.8		600		-0.9 / 10		0.181				
R422102037 R422102038 R422102039	2.8		600		-0.9 / 10		0.181				

MO = Manual override

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

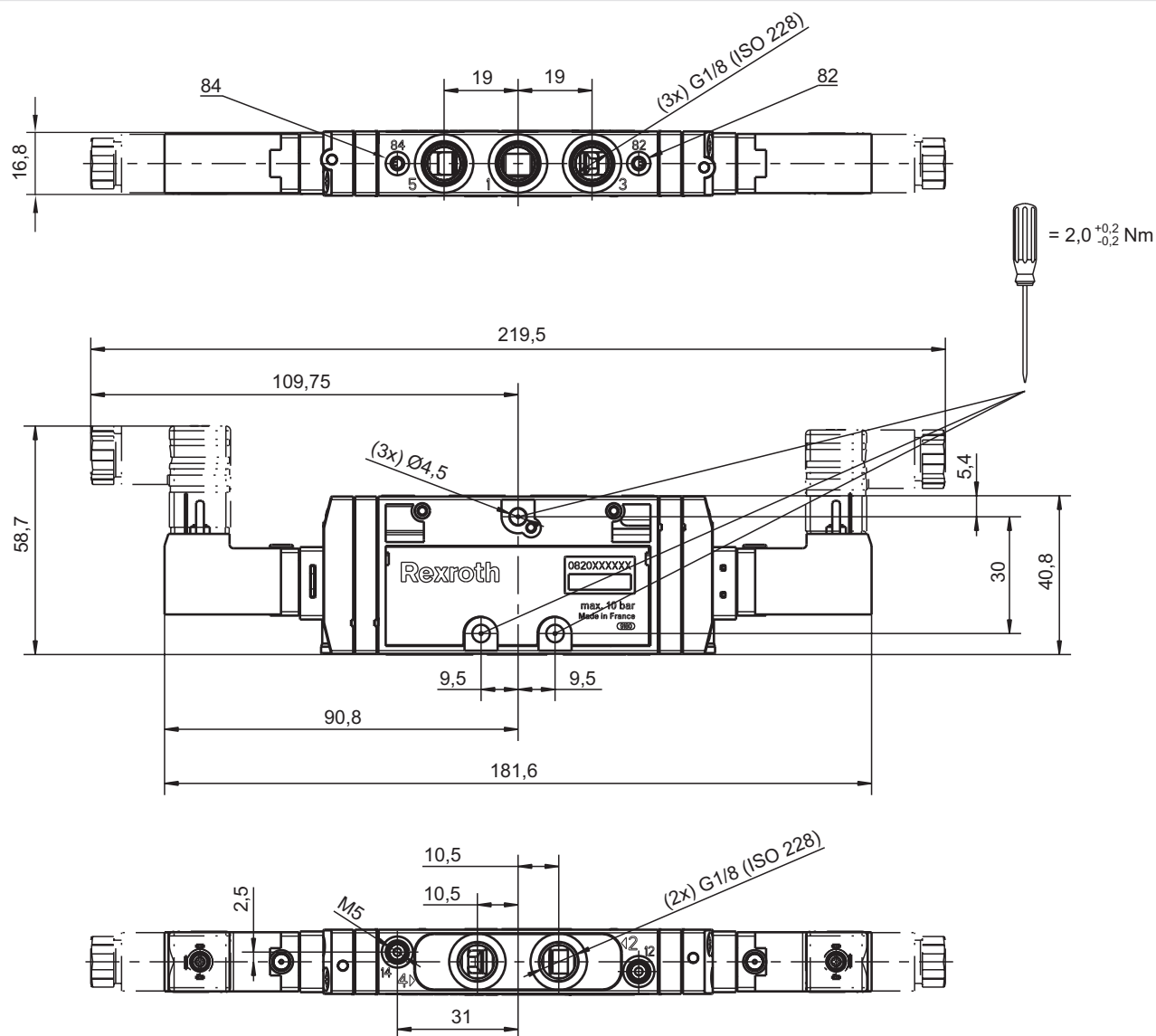
2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► double solenoid

Part No.	Flow conductance	Flow rate value	Working pressure min./ max.	Weight
	C	Q_n		
	[l/(s*bar)]	[l/min]	[bar]	[kg]
R422102040	2.8	600	-0.9 / 10	0.181
R422102041				
R422102042				

MO = Manual override

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Dimensions

00134234

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► double solenoid



00134319

Version	Spool valve, zero overlap
Pilot	internal, external
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ISO 228-1
Connector standard	ISO 15217:2000
Protection class according to EN 60529: with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

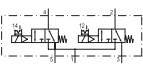
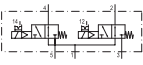
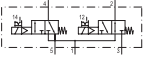
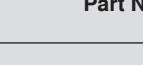
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► double solenoid

		MO	Compressed air connection				Operating voltage			Flow con- duc- tance	Part No.
			Input	Output	Exhaust	Pilot con- nec- tion	DC	AC 50 Hz	AC 60 Hz	b	
	NC/NC		G 1/8	G 1/8	G 1/8	-	- 24 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102001 R422102002 R422102003 R422102004
	NO/NO		G 1/8	G 1/8	G 1/8	-	- 24 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102005 R422102006 R422102007 R422102008
	NC/NO		G 1/8	G 1/8	G 1/8	-	- 24 V	24 V - 110 V 230 V	24 V - 110 V 230 V	0.27	R422102009 R422102010 R422102011 R422102012
	NC/NC		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102013 R422102014 R422102015
	NO/NO		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102016 R422102017 R422102018
	NC/NO		G 1/8	G 1/8	G 1/8	M5	24 V - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.27	R422102019 R422102020 R422102021
Part No.	Flow conductance		Flow rate value			Working pressure min./ max.			Weight		
	C		Qn								
	[l/(s*bar)]		[l/min]			[bar]			[kg]		
R422102001 R422102002 R422102003 R422102004	2.8		600			2.5 / 10			0.181		
R422102005 R422102006 R422102007 R422102008	2.8		600			2.5 / 10			0.181		
R422102009 R422102010 R422102011 R422102012	2.8		600			2.5 / 10			0.181		
R422102013 R422102014 R422102015	2.8		600			-0.9 / 10			0.181		
R422102016 R422102017 R422102018	2.8		600			-0.9 / 10			0.181		

MO = Manual override

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

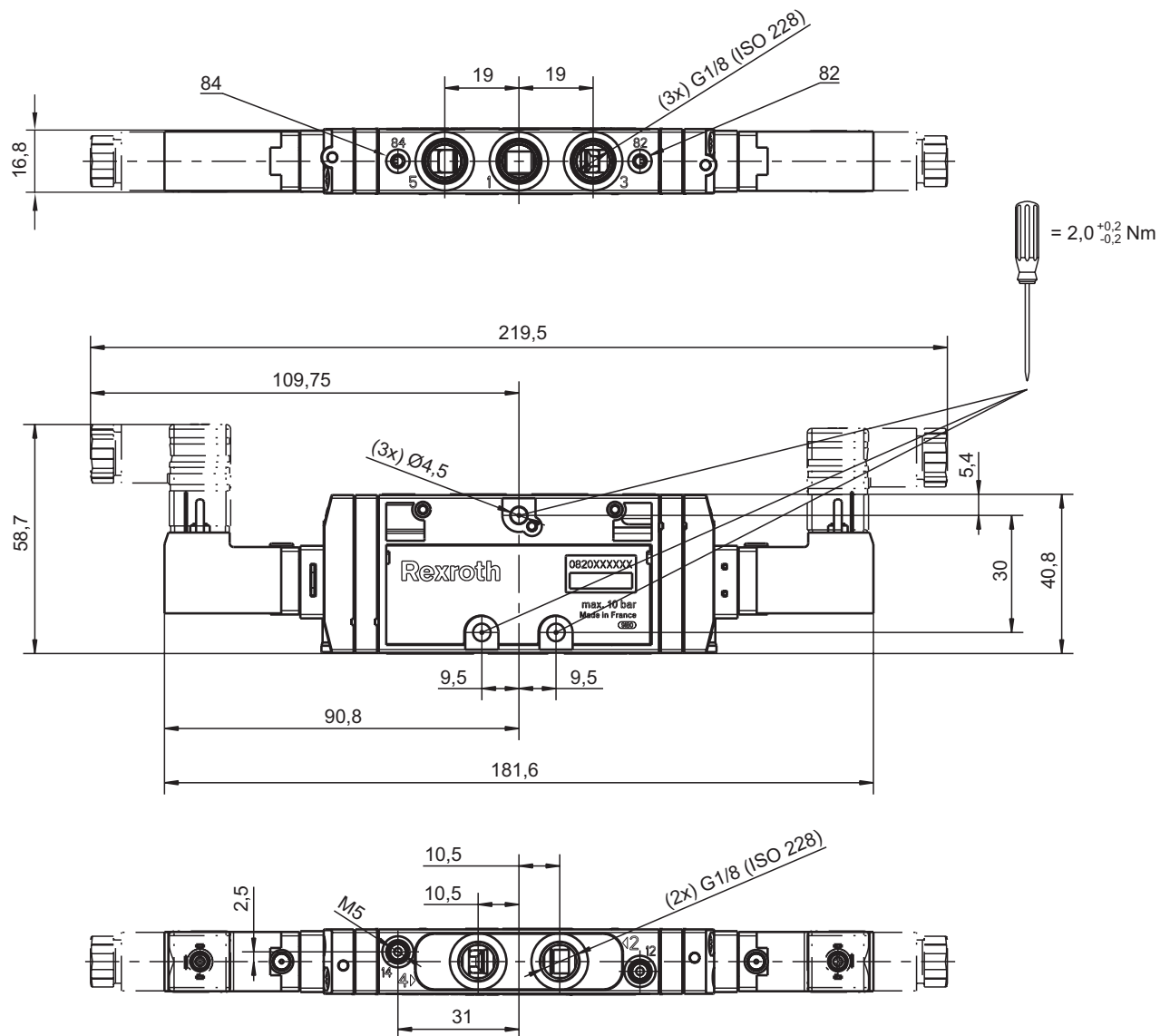
2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► double solenoid

Part No.	Flow conductance	Flow rate value	Working pressure min./ max.	Weight
	C	Q_n		
	[l/(s*bar)]	[l/min]	[bar]	[kg]
R422102019				
R422102020	2.8	600	-0.9 / 10	0.181
R422102021				

MO = Manual override

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Dimensions

00134234

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid



00120258

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

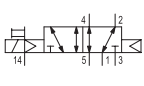
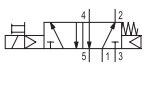
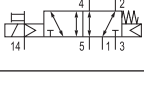
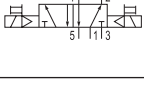
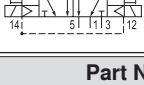
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.36	3.5	800	R422000093
					24 V	-	-				0820060101
					-	110 V	110 V				0820060102
					-	230 V	230 V				0820060103

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - - - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.36	3.5	800	0820060151 0820060152 0820060153
		G 1/8	G 1/8	G 1/8	- 24 V - - 110 V 230 V	24 V - - 110 V 230 V	24 V - - 110 V 230 V	0.36	3.5	800	R422000095 0820060126 0820060127 0820060128
		G 1/8	G 1/8	G 1/8	24 V - - - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.36	3.5	800	0820060176 0820060177 0820060178
		G 1/8	G 1/8	G 1/8	- 24 V - - 110 V 230 V	24 V - - 110 V 230 V	24 V - - 110 V 230 V	0.36	3.5	800	R422000097 0820060601 0820060602 0820060603
		G 1/8	G 1/8	G 1/8	24 V - - - 110 V 230 V	- 110 V 230 V	- 110 V 230 V	0.36	3.5	800	0820060651 0820060652 0820060653
Part No.		Working pressure min./max.	Control pressure min./max.		Switch-on time	Switch-off time		Weight		Note	
		[bar]	[bar]		[ms]	[ms]		[kg]			
R422000093 0820060101 0820060102 0820060103		2.5 / 10	2.5 / 10		17	22		0.14		1)	
0820060151 0820060152 0820060153		-0.9 / 10	2.5 / 10		17	22		0.14		2)	
R422000095 0820060126 0820060127 0820060128		3 / 10	3 / 10		12	16		0.14		1)	
0820060176 0820060177 0820060178		-0.9 / 10	3 / 10		12	16		0.14		2)	
R422000097 0820060601 0820060602 0820060603		2 / 10	2 / 10		9	9		0.172		1)	
0820060651 0820060652 0820060653		-0.9 / 10	2 / 10		9	9		0.172		2)	

MO = Manual override

1) Pilot: internal

2) Pilot: external

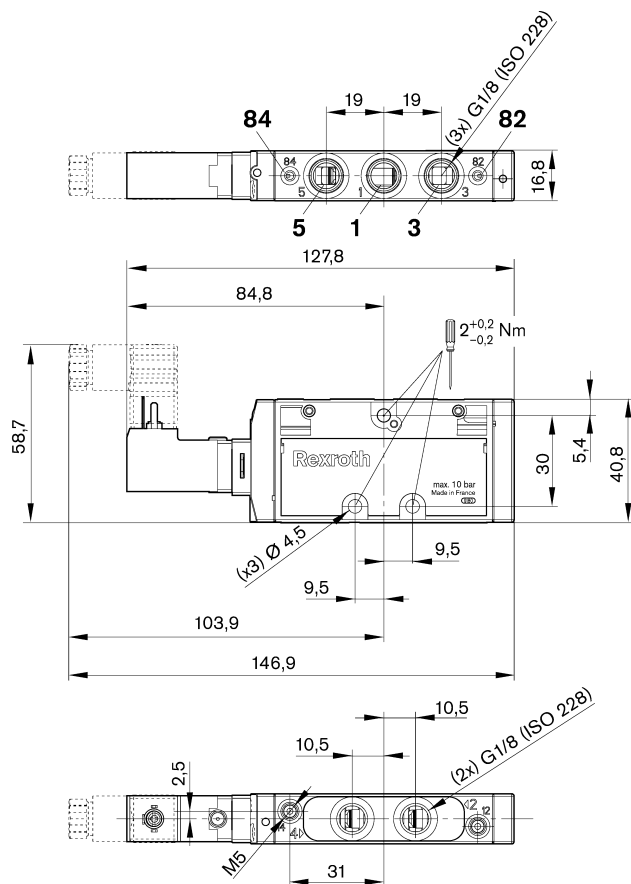
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid

Dimensions, single solenoid

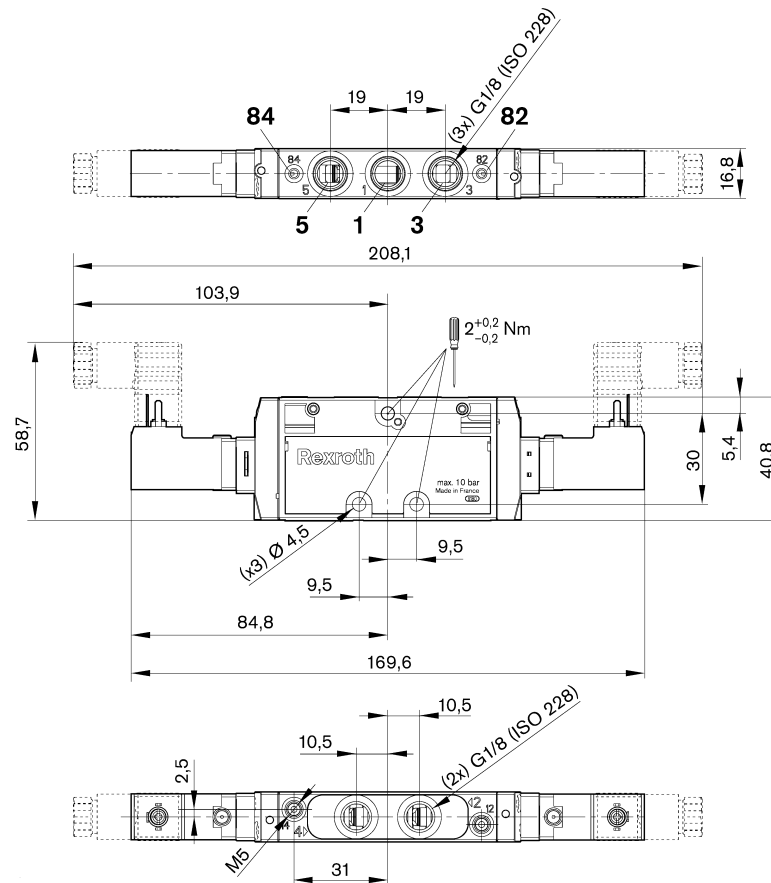


00111317

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid

Dimensions, double solenoid

00111318

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid



00120258

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks										
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.										
■ The oil content of air pressure must remain constant during the life cycle.										
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.										

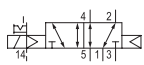
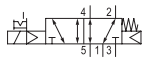
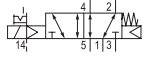
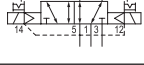
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.36	3.5	800	R422000092
					24 V	-	-				0820060001
					-	110 V	110 V				0820060002
					-	230 V	230 V				0820060003

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - - 110 V 230 V	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	0820060051 0820060052 0820060053
		G 1/8	G 1/8	G 1/8	12 V - 24 V 24 V - 110 V - 230 V	- 24 V - - 110 V 110 V 230 V	- 24 V - - 110 V 110 V 230 V	0.36	3.5	800	R422000481 R422000094 0820060026 0820060027 0820060028
		G 1/8	G 1/8	G 1/8	24 V - - 110 V 230 V	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	0820060076 0820060077 0820060078
		G 1/8	G 1/8	G 1/8	12 V - 24 V 24 V - 110 V - 230 V	- 24 V - - 110 V 110 V 230 V	- 24 V - - 110 V 110 V 230 V	0.36	3.5	800	R422000482 R422000096 0820060501 0820060502 0820060503
		G 1/8	G 1/8	G 1/8	24 V - - 110 V 230 V	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	0820060551 0820060552 0820060553
Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note					
	[bar]	[bar]	[ms]	[ms]	[kg]						
R422000092 0820060001 0820060002 0820060003	2.5 / 10	2.5 / 10	17	22	0.14	1)					
0820060051 0820060052 0820060053	-0.9 / 10	2.5 / 10	17	22	0.14	2)					
R422000481 R422000094 0820060026 0820060027 0820060028	3 / 10	3 / 10	12	16	0.14	1)					
0820060076 0820060077 0820060078	-0.9 / 10	3 / 10	12	16	0.14	2)					
R422000482 R422000096 0820060501 0820060502 0820060503	2 / 10	2 / 10	9	9	0.172	1)					

MO = Manual override

1) Pilot: internal

2) Pilot: external

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

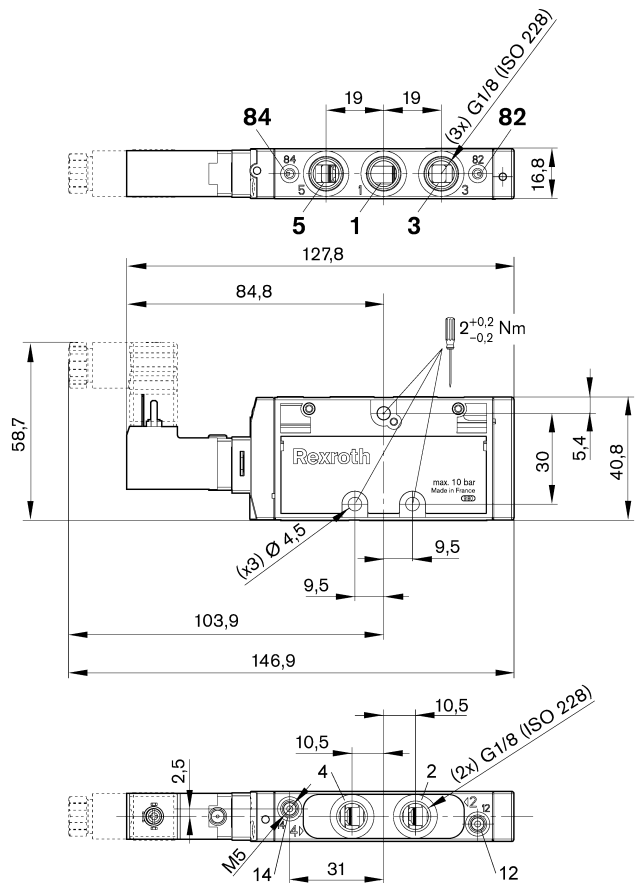
5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	[bar]	[bar]	[ms]	[ms]	[kg]	
0820060551 0820060552 0820060553	-0.9 / 10	2 / 10	9	9	0.172	2)

MO = Manual override
1) Pilot: internal
2) Pilot: external
Nominal flow Qn at 6 bar and Δp = 1 bar

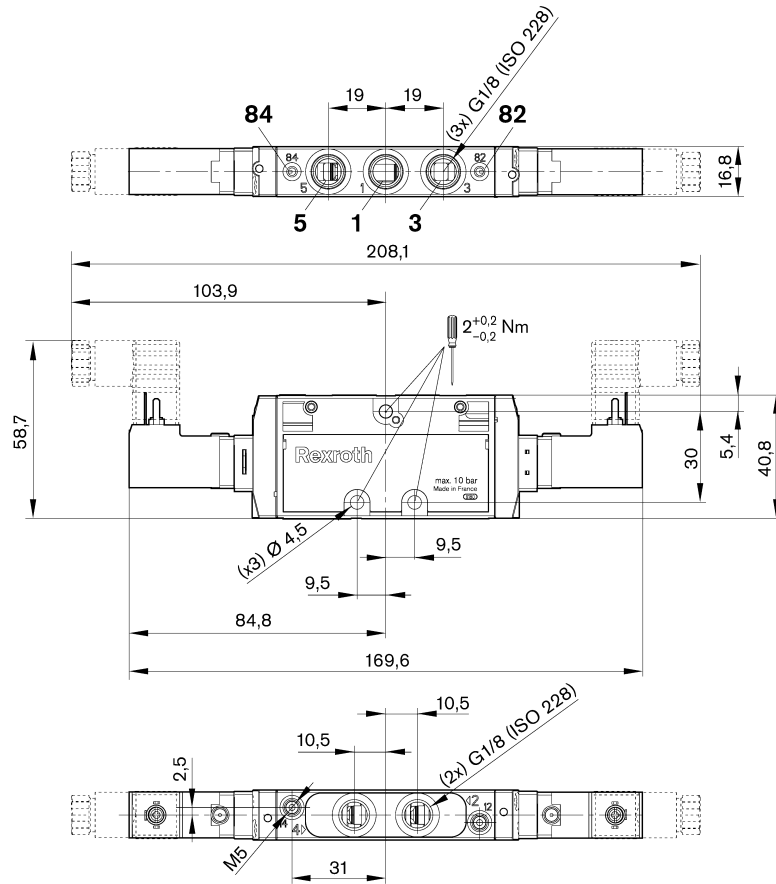
Dimensions, single solenoid



Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Dimensions, double solenoid

00111318_a

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks										
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.										
■ The oil content of air pressure must remain constant during the life cycle.										
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.										

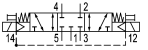
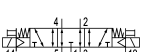
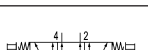
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.34	3	700	R422000099
					24 V	-	-				0820061101
					-	110 V	110 V				0820061102
					-	230 V	230 V				0820061103

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - -	- 110 V 230 V	- 110 V 230 V	0.34	3	700	0820061151 0820061152 0820061153
		G 1/8	G 1/8	G 1/8	24 V - -	24 V - 110 V 230 V	24 V - 110 V 230 V	0.34	3	700	R422000101 0820061111 0820061112 0820061113
		G 1/8	G 1/8	G 1/8	24 V - -	110 V 230 V	110 V 230 V	0.34	3	700	0820061161 0820061162 0820061163
		G 1/8	G 1/8	G 1/8	24 V - -	24 V - 110 V 230 V	24 V - 110 V 230 V	0.34	3	700	R422000103 0820061121 0820061122 0820061123
		G 1/8	G 1/8	G 1/8	24 V - -	- 110 V 230 V	- 110 V 230 V	0.34	3	700	0820061171 0820061172 0820061173
Part No.	Working pressure min./max.				Weight				Note		
	[bar]				[kg]						
R422000099 0820061101 0820061102 0820061103	3 / 10				0.178				1)		
0820061151 0820061152 0820061153	-0.9 / 10				0.178				2)		
R422000101 0820061111 0820061112 0820061113	3 / 10				0.178				1)		
0820061161 0820061162 0820061163	-0.9 / 10				0.178				2)		
R422000103 0820061121 0820061122 0820061123	3 / 10				0.178				1)		
0820061171 0820061172 0820061173	-0.9 / 10				0.178				2)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

5/3-way valve, Series TC08

Dimensions



Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent



00120256

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

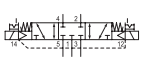
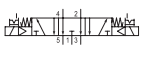
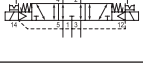
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	- 24 V - 110 V - 230 V	24 V - 110 V - 230 V	24 V - 110 V - 230 V	0.34	3	700	R422000098 0820061001 0820061002 0820061003

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061051
					-	110 V	110 V				0820061052
					-	230 V	230 V				0820061053
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.34	3	700	R422000100
					24 V	-	-				0820061011
					-	110 V	110 V				0820061012
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.34	3	700	R422000100
					24 V	-	-				0820061061
					-	110 V	110 V				0820061062
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.34	3	700	R422000102
					24 V	-	-				0820061021
					-	110 V	110 V				0820061022
		G 1/8	G 1/8	G 1/8	-	230 V	230 V	0.34	3	700	0820061023
					24 V	-	-				0820061071
					-	110 V	110 V				0820061072
					-	230 V	230 V				0820061073
Part No.	Working pressure min./max.				Weight				Note		
	[bar]				[kg]						
R422000098 0820061001 0820061002 0820061003	3 / 10				0.178				1)		
0820061051 0820061052 0820061053	-0.9 / 10				0.178				2)		
R422000100 0820061011 0820061012 0820061013	3 / 10				0.178				1)		
0820061061 0820061062 0820061063	-0.9 / 10				0.178				2)		
R422000102 0820061021 0820061022 0820061023	3 / 10				0.178				1)		
0820061071 0820061072 0820061073	-0.9 / 10				0.178				2)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

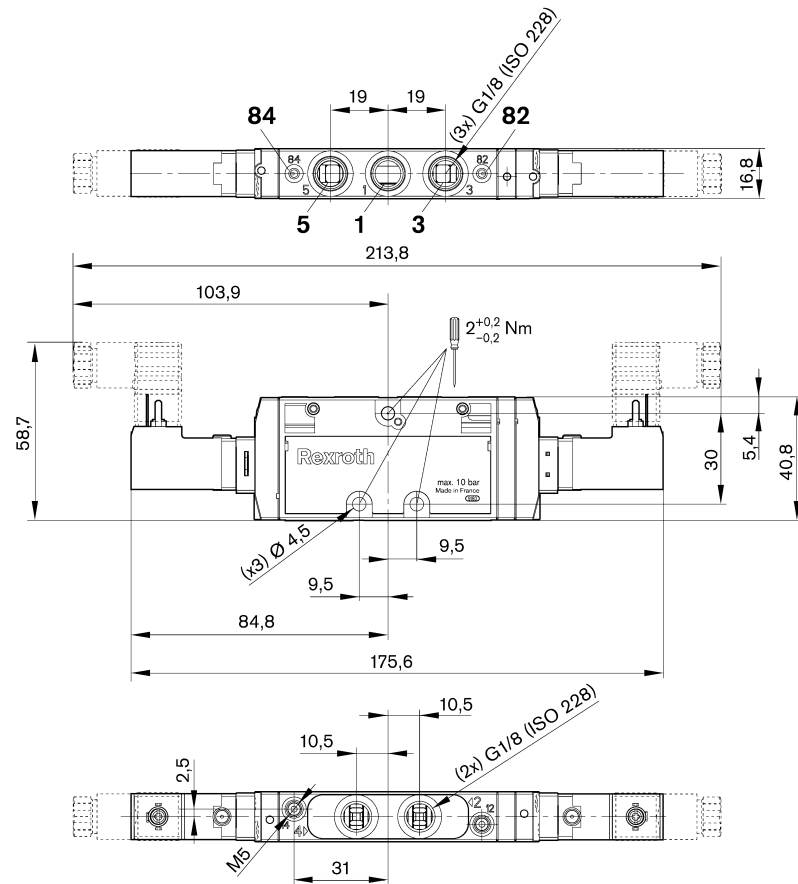
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

Dimensions



00111319_a

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid ► with rotatable coil



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	See table below
Compatibility index	23
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks										
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.										
■ The oil content of air pressure must remain constant during the life cycle.										
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.										

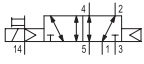
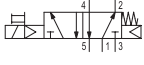
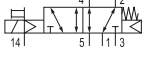
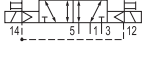
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.36	3.5	800	0820060406
					-	110 V	110 V				0820060407
					-	230 V	230 V				0820060408
					-	-	-				R422100614

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid ► with rotatable coil

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060456 0820060457 0820060458 R422100616
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060416 0820060417 0820060418 R422100618
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060466 0820060467 0820060468 R422100620
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060426 0820060427 0820060428 R422100622
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060476 0820060477 0820060478 R422100624
Part No.	Working pressure min./max.		Control pressure min./max.		Protection class according to EN 60529			Weight		Note	
	[bar]		[bar]					[kg]			
0820060406 0820060407 0820060408 R422100614	2.5 / 10		2.5 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		1) 1) 1) 1); 3)	
0820060456 0820060457 0820060458 R422100616	-0.9 / 10		2.5 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		2) 2) 2) 2); 3)	
0820060416 0820060417 0820060418 R422100618	3 / 10		3 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		1) 1) 1) 1); 3)	
0820060466 0820060467 0820060468 R422100620	-0.9 / 10		3 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		2) 2) 2) 2); 3)	
0820060426 0820060427 0820060428 R422100622	2 / 10		2 / 10		IP 65 IP 65 IP 65 -			0.203 0.203 0.203 0.14		1) 1) 1) 1); 3)	

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
Pneumatics catalog, online PDF, as of 2010-02-05, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

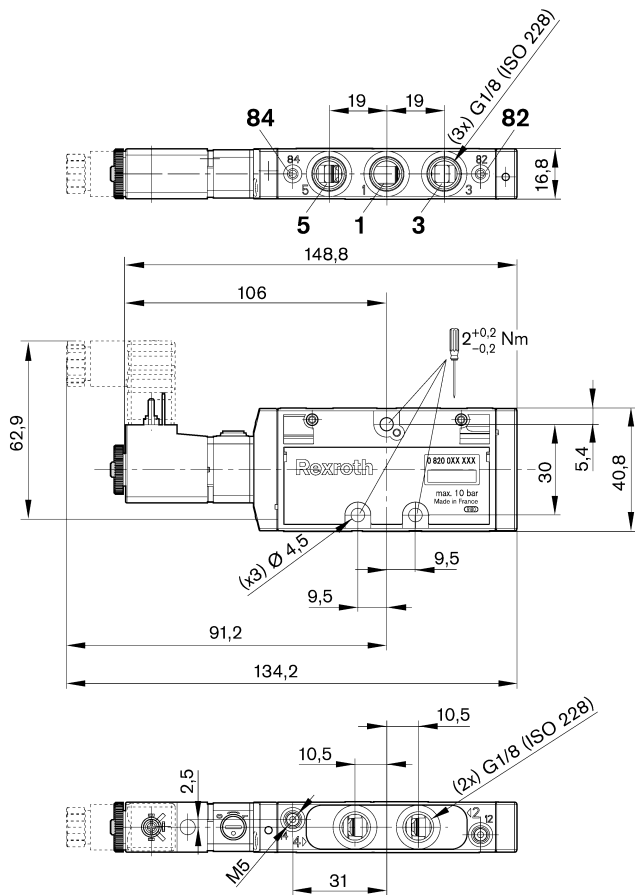
5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid ► with rotatable coil

Part No.	Working pressure min./max.	Control pressure min./max.	Protection class according to EN 60529	Weight	Note
	[bar]	[bar]		[kg]	
0820060476	-0.9 / 10	2 / 10	IP 65	0.203	2)
0820060477			IP 65	0.203	2)
0820060478			IP 65	0.203	2)
R422100624			-	0.14	2); 3)

MO = Manual override
1) Pilot: internal
2) Pilot: external
3) Basic valve without coil
Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions, single solenoid



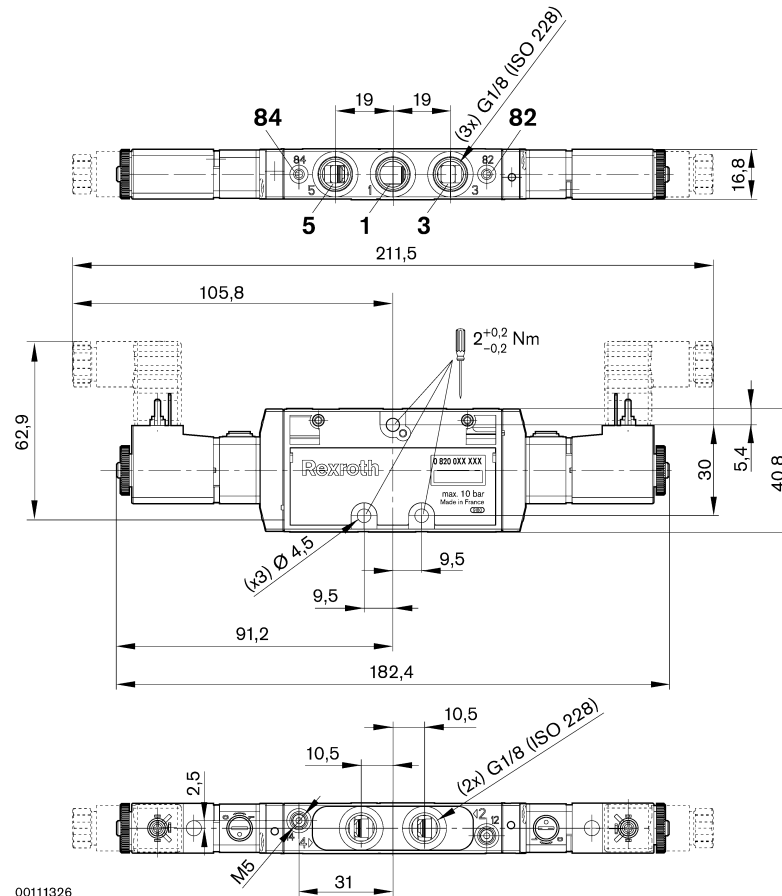
00111325

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► single solenoid, double solenoid ► with rotatable coil

Dimensions, double solenoid



00111326

00111326

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid ► with rotatable coil



00120257

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	See table below
Compatibility index	23
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

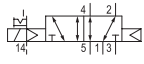
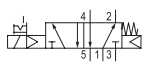
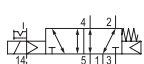
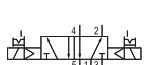
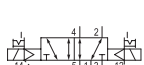
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.36	3.5	800	0820060401
					-	110 V	110 V				0820060402
					-	230 V	230 V				0820060403
					-	-	-				R422100613

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid ► with rotatable coil

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060451 0820060452 0820060453 R422100615
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060411 0820060412 0820060413 R422100617
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060461 0820060462 0820060463 R422100619
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060421 0820060422 0820060423 R422100621
		G 1/8	G 1/8	G 1/8	24 V - - - -	- 110 V 230 V -	- 110 V 230 V -	0.36	3.5	800	0820060471 0820060472 0820060473 R422100623
Part No.	Working pressure min./max.		Control pressure min./max.		Protection class according to EN 60529			Weight		Note	
	[bar]		[bar]					[kg]			
0820060401 0820060402 0820060403 R422100613	2.5 / 10		2.5 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		1) 1) 1) 1); 3)	
0820060451 0820060452 0820060453 R422100615	-0.9 / 10		2.5 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		2) 2) 2) 2); 3)	
0820060411 0820060412 0820060413 R422100617	3 / 10		3 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		1) 1) 1) 1); 3)	
0820060461 0820060462 0820060463 R422100619	-0.9 / 10		3 / 10		IP 65 IP 65 IP 65 -			0.154 0.154 0.154 0.125		2) 2) 2) 2); 3)	
0820060421 0820060422 0820060423 R422100621	2 / 10		2 / 10		IP 65 IP 65 IP 65 -			0.203 0.203 0.203 0.14		1) 1) 1) 1); 3)	

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

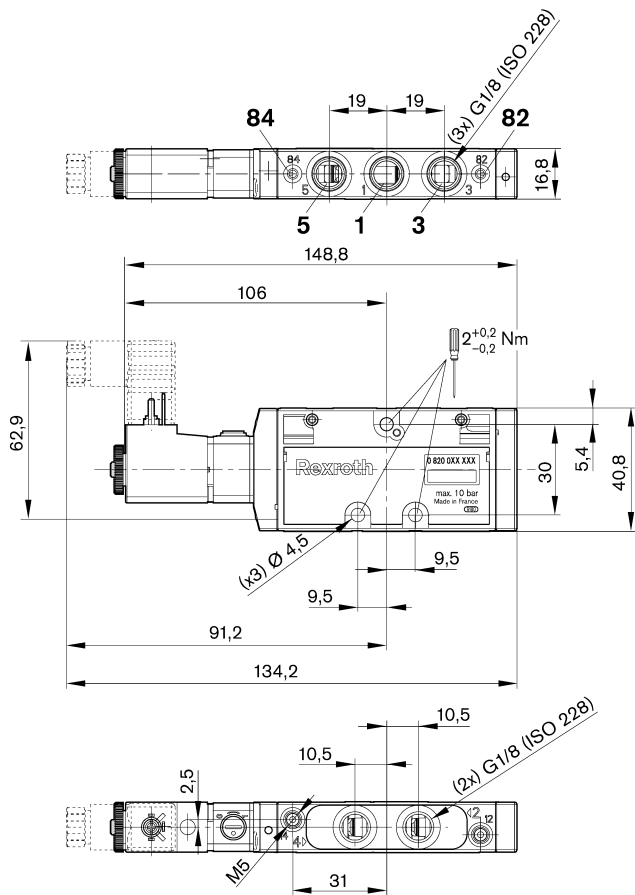
5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid ► with rotatable coil

Part No.	Working pressure min./max.	Control pressure min./max.	Protection class according to EN 60529	Weight	Note
	[bar]	[bar]		[kg]	
0820060471	-0.9 / 10	2 / 10	IP 65	0.203	2)
0820060472			IP 65	0.203	2)
0820060473			IP 65	0.203	2)
R422100623			-	0.14	2); 3)

MO = Manual override
1) Pilot: internal
2) Pilot: external
3) Basic valve without coil
Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions, single solenoid

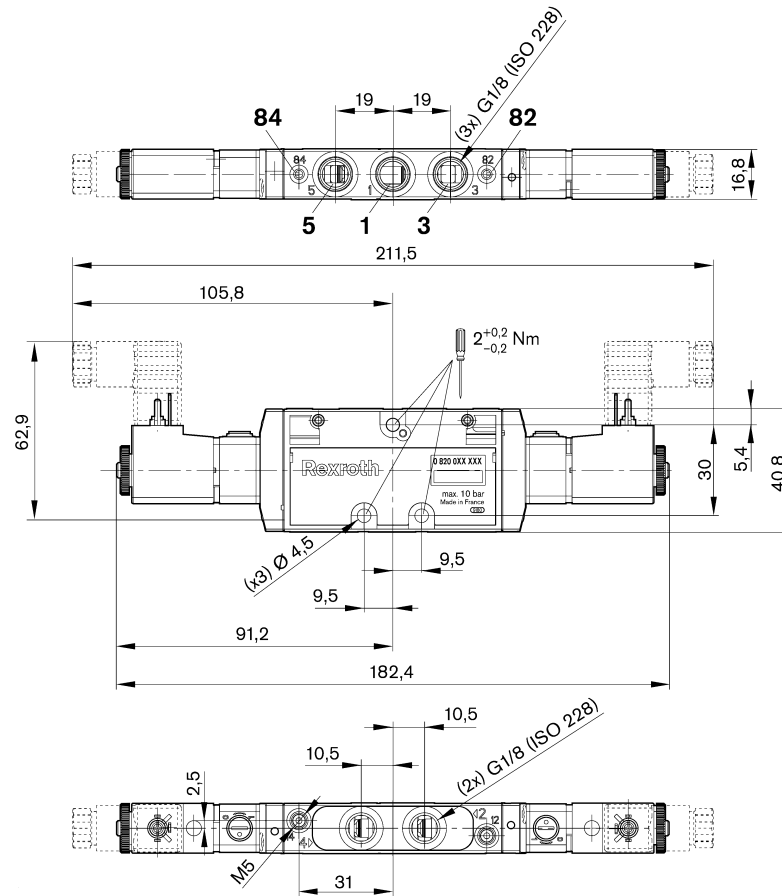


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Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid ► with rotatable coil

Dimensions, double solenoid

00111326_a

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► with rotatable coil



Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	See table below
Compatibility index	23
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks										
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.										
■ The oil content of air pressure must remain constant during the life cycle.										
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.										

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-				0820061406
					-	110 V	110 V	0.34	3	700	0820061407
					-	230 V	230 V				0820061408
					-	-	-				R422100626

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: without detent ► with rotatable coil

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V - 110 V - 230 V -	- 110 V 230 V -	- 110 V 230 V -	0.34	3	700	0820061456 0820061457 0820061458 R422100628
		G 1/8	G 1/8	G 1/8	24 V - 110 V - 230 V -	- 110 V 230 V -	- 110 V 230 V -	0.34	3	700	0820061416 0820061417 0820061418 R422100630
		G 1/8	G 1/8	G 1/8	24 V - 110 V - 230 V -	- 110 V 230 V -	- 110 V 230 V -	0.34	3	700	0820061466 0820061467 0820061468 R422100632
		G 1/8	G 1/8	G 1/8	24 V - 110 V - 230 V -	- 110 V 230 V -	- 110 V 230 V -	0.34	3	700	0820061426 0820061427 0820061428 R422100634
		G 1/8	G 1/8	G 1/8	24 V - 110 V - 230 V -	- 110 V 230 V -	- 110 V 230 V -	0.34	3	700	0820061476 0820061477 0820061478 R422100636
Part No.	Working pressure min./max.			Protection class according to EN 60529			Weight		Note		
	[bar]						[kg]				
0820061406 0820061407 0820061408 R422100626	3 / 10			IP 65 IP 65 IP 65 -			0.21 0.21 0.21 0.15		1) 1) 1) 1); 3)		
0820061456 0820061457 0820061458 R422100628	-0.9 / 10			IP 65 IP 65 IP 65 -			0.21 0.21 0.21 0.15		2) 2) 2) 2); 3)		
0820061416 0820061417 0820061418 R422100630	3 / 10			IP 65 IP 65 IP 65 -			0.21 0.21 0.21 0.15		1) 1) 1) 1); 3)		
0820061466 0820061467 0820061468 R422100632	-0.9 / 10			IP 65 IP 65 IP 65 -			0.21 0.21 0.21 0.15		2) 2) 2) 2); 3)		
0820061426 0820061427 0820061428 R422100634	3 / 10			IP 65 IP 65 IP 65 -			0.21 0.21 0.21 0.15		1) 1) 1) 1); 3)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
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Directional valves → Electrically operated

5/3-way valve, Series TC08

▶ Qn = 700 l/min ▶ pipe connection ▶ compressed air connection output: G 1/8 ▶ Electr. connection: Plug, ISO 15217, form C ▶ manual override: without detent ▶ with rotatable coil

Part No.	Working pressure min./max.	Protection class according to EN 60529	Weight	Note
	[bar]		[kg]	
0820061476	-0.9 / 10	IP 65	0.21	2)
0820061477		IP 65	0.21	2)
0820061478		IP 65	0.21	2)
R422100636		-	0.15	2); 3)

MO = Manual override

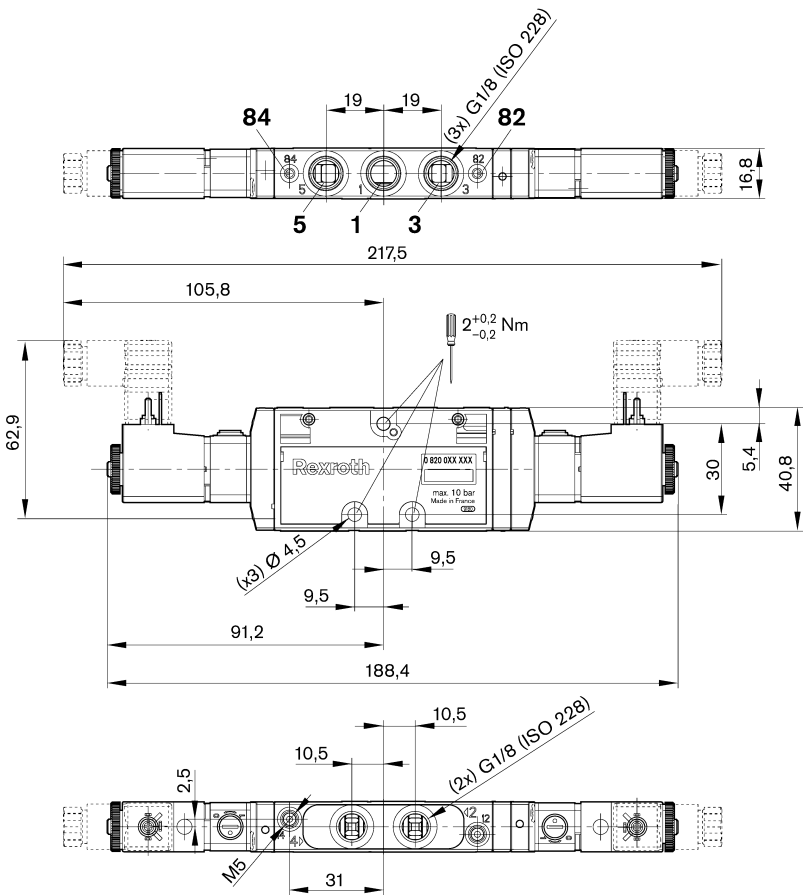
1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions



00111327

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► with rotatable coil



00120259

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	See table below
Compatibility index	23
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	4	3.8	3	2.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061401
					-	110 V	110 V				0820061402
					-	230 V	230 V				0820061403
					-	-	-				R422100625

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► with rotatable coil

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061451
					-	110 V	110 V				0820061452
					-	230 V	230 V				0820061453
					-	-	-				R422100627
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061411
					-	110 V	110 V				0820061412
					-	230 V	230 V				0820061413
					-	-	-				R422100629
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061461
					-	110 V	110 V				0820061462
					-	230 V	230 V				0820061463
					-	-	-				R422100631
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061421
					-	110 V	110 V				0820061422
					-	230 V	230 V				0820061423
					-	-	-				R422100633
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.34	3	700	0820061471
					-	110 V	110 V				0820061472
					-	230 V	230 V				0820061473
					-	-	-				R422100635
Part No.	Working pressure min./max.			Protection class according to EN 60529			Weight		Note		
	[bar]						[kg]				
0820061401	3 / 10						IP 65	0.21	1)		
0820061402							IP 65	0.21	1)		
0820061403							IP 65	0.21	1)		
R422100625							-	0.15	1); 3)		
0820061451	-0.9 / 10						IP 65	0.21	2)		
0820061452							IP 65	0.21	2)		
0820061453							IP 65	0.21	2)		
R422100627							-	0.15	2); 3)		
0820061411	3 / 10						IP 65	0.21	1)		
0820061412							IP 65	0.21	1)		
0820061413							IP 65	0.21	1)		
R422100629							-	0.15	1); 3)		
0820061461	-0.9 / 10						IP 65	0.21	2)		
0820061462							IP 65	0.21	2)		
0820061463							IP 65	0.21	2)		
R422100631							-	0.15	2); 3)		
0820061421	3 / 10						IP 65	0.21	1)		
0820061422							IP 65	0.21	1)		
0820061423							IP 65	0.21	1)		
R422100633							-	0.15	1); 3)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/3-way valve, Series TC08

► $Q_n = 700 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► with rotatable coil

Part No.	Working pressure min./max.	Protection class according to EN 60529	Weight	Note
	[bar]		[kg]	
0820061471	-0.9 / 10	IP 65	0.21	2)
0820061472		IP 65	0.21	2)
0820061473		IP 65	0.21	2)
R422100635		-	0.15	2); 3)

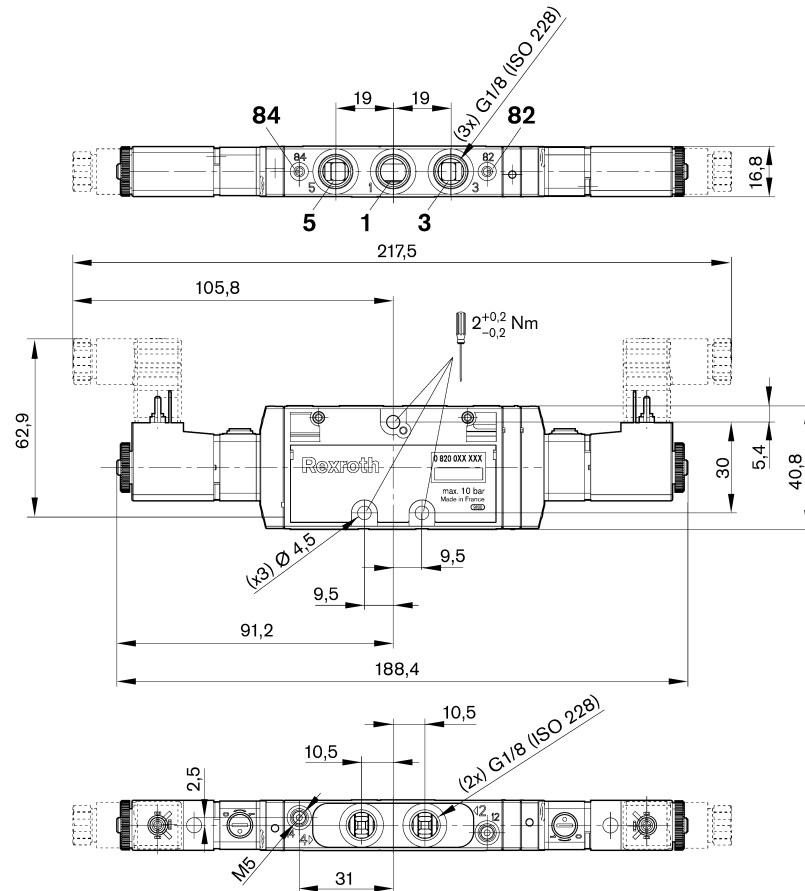
MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Dimensions

00111327_a

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent



00134319

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	2.5 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	ISO 15217:2000
Protection class according to EN 60529: with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	16 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

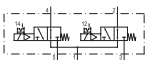
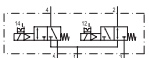
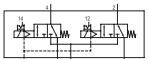
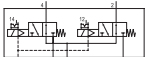
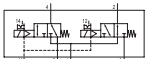
		MO	Compressed air connection				Operating voltage			Flow conductance b	Part No.
			Input	Output	Exhaust	Pilot connection	DC	AC 50 Hz	AC 60 Hz		
	NC/NC		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	-	12 V 24 V - 110 V 230 V	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102100 R422102101 R422102102 R422102103

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
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Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

		MO	Compressed air connection				Operating voltage			Flow con- duc- tance	Part No.
			Input	Output	Exhaust	Pilot connec- tion	DC	AC 50 Hz	AC 60 Hz	b	
	NO/NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	-	12 V 24 V - - -	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102104 R422102105 R422102106 R422102107
	NC/NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	-	12 V 24 V - - -	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102108 R422102109 R422102110 R422102111
	NC/NC		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V - - -	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102112 R422102113 R422102114 R422102115
	NO/NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V - - -	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102116 R422102117 R422102118 R422102119
	NC/NO		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	M5	12 V 24 V - - -	- - 110 V 230 V	- - 110 V 230 V	0.27	R422102120 R422102121 R422102122 R422102123
Part No.	Flow conductance		Flow rate value		Working pressure min./max.		Weight		Note		
	C		Qn								
	[l/(s*bar)]		[l/min]		[bar]		[kg]				
R422102100 R422102101 R422102102 R422102103	2.8		600		3 / 10		0.181		1)		
R422102104 R422102105 R422102106 R422102107	2.8		600		3 / 10		0.181		1)		
R422102108 R422102109 R422102110 R422102111	2.8		600		3 / 10		0.181		1)		
R422102112 R422102113 R422102114 R422102115	2.8		600		-0.9 / 10		0.181		2)		

MO = Manual override

1) Pilot: internal

2) Pilot: external

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

Directional valves → Electrically operated

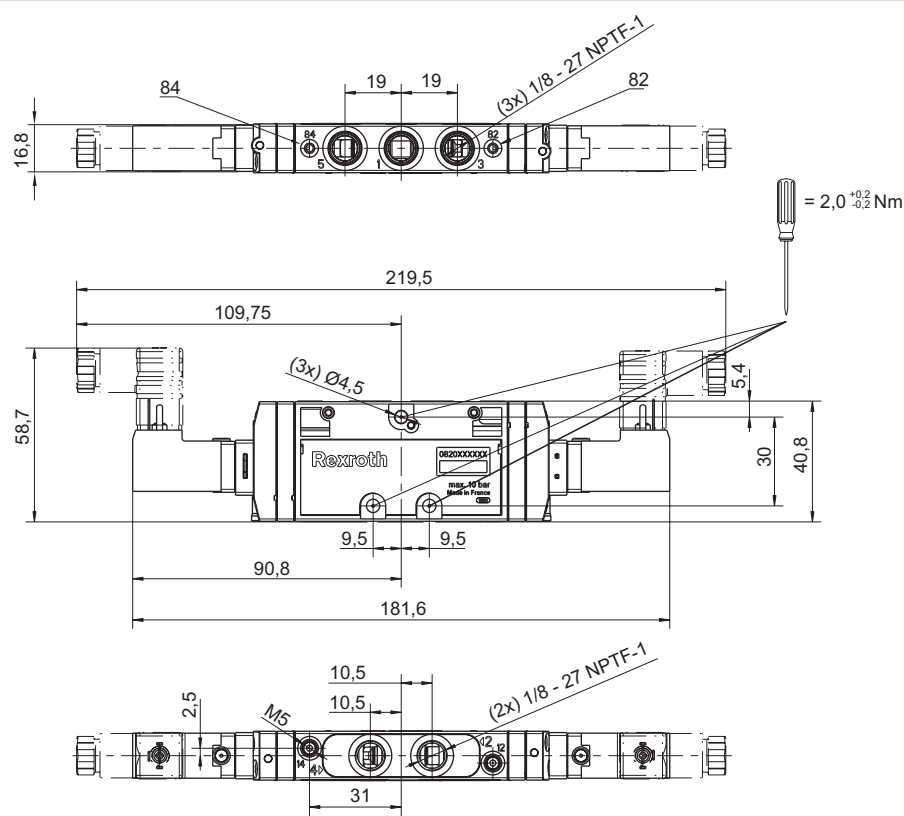
2x3/2-way valve, Series TC08

► Qn = 600 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

Part No.	Flow conductance	Flow rate value	Working pressure min./max.	Weight	Note
	C	Qn			
	[l/(s*bar)]	[l/min]	[bar]	[kg]	
R422102116	2.8	600	-0.9 / 10	0.181	2)
R422102117					
R422102118					
R422102119					
R422102120	2.8	600	-0.9 / 10	0.181	2)
R422102121					
R422102122					
R422102123					

MO = Manual override
 1) Pilot: internal
 2) Pilot: external
 Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions in mm



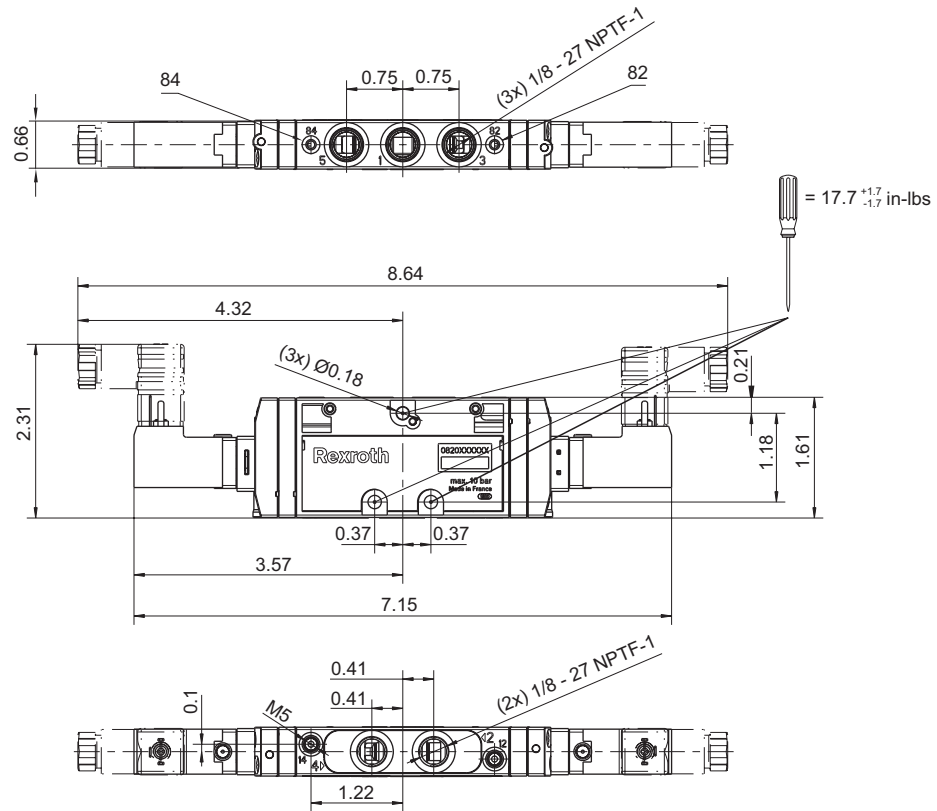
00136327

Directional valves → Electrically operated

2x3/2-way valve, Series TC08

► $Q_n = 600 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

Dimensions in inches



00135751

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid



00120258

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

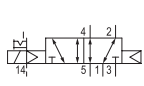
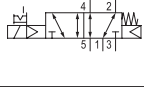
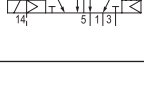
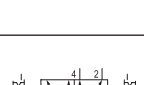
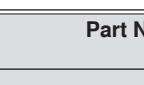
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V	-	-	0.36	3.5	800	R422101200
					24 V	-	-				R422101201
					-	110 V	110 V				R422101202
					-	230 V	230 V				R422101203

Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V - -	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	R422101204 R422101205 R422101206 R422101207
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V - -	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	R422101208 R422101209 R422101210 R422101211
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V - -	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	R422101212 R422101213 R422101214 R422101215
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V - -	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	R422101216 R422101217 R422101218 R422101219
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V - -	- - 110 V 230 V	- - 110 V 230 V	0.36	3.5	800	R422101220 R422101221 R422101222 R422101223
Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note					
	[bar]	[bar]	[ms]	[ms]	[kg]						
R422101200 R422101201 R422101202 R422101203	2.5 / 10	2.5 / 10	17	22	0.14	1)					
R422101204 R422101205 R422101206 R422101207	-0.9 / 10	2.5 / 10	17	22	0.14	2)					
R422101208 R422101209 R422101210 R422101211	3 / 10	3 / 10	12	16	0.14	1)					
R422101212 R422101213 R422101214 R422101215	-0.9 / 10	3 / 10	12	16	0.14	2)					
R422101216 R422101217 R422101218 R422101219	2 / 10	2 / 10	9	9	0.14	1)					

MO = Manual override

1) Pilot: internal

2) Pilot: external

Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

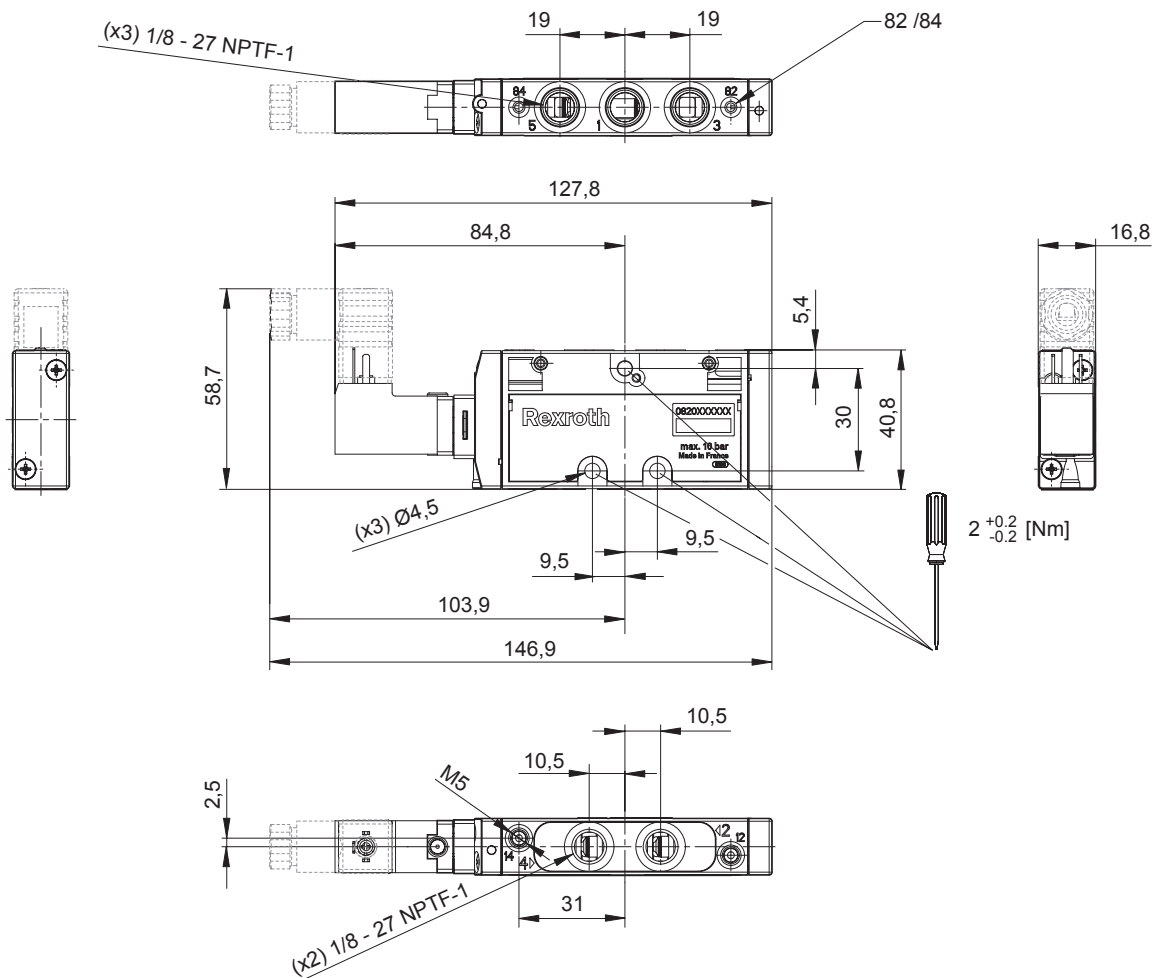
5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	[bar]	[bar]	[ms]	[ms]	[kg]	
R422101220 R422101221 R422101222 R422101223	-0.9 / 10	2 / 10	9	9	0.172	2)

MO = Manual override
 1) Pilot: internal
 2) Pilot: external
 Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions in mm, single solenoid



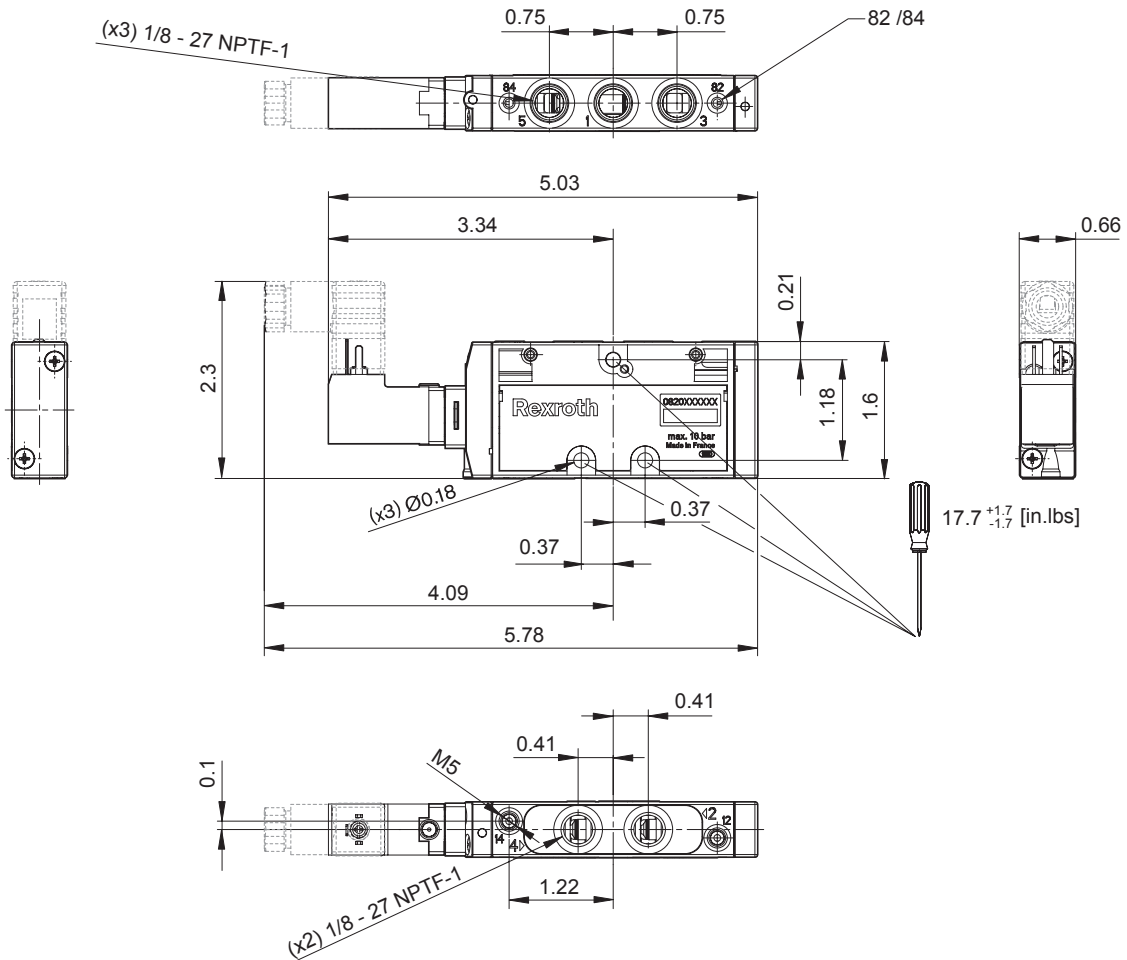
00127577

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Dimensions in inches , single solenoid



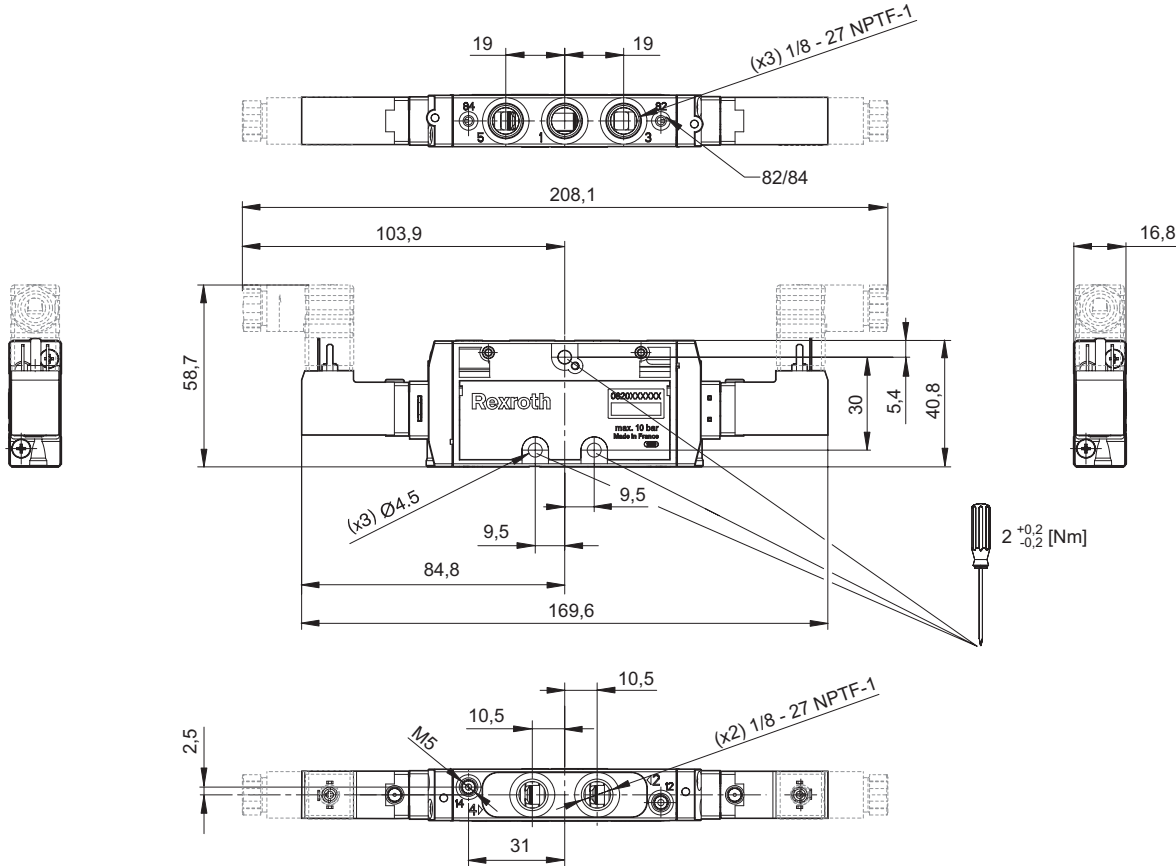
00127577_a

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Dimensions in mm, double solenoid



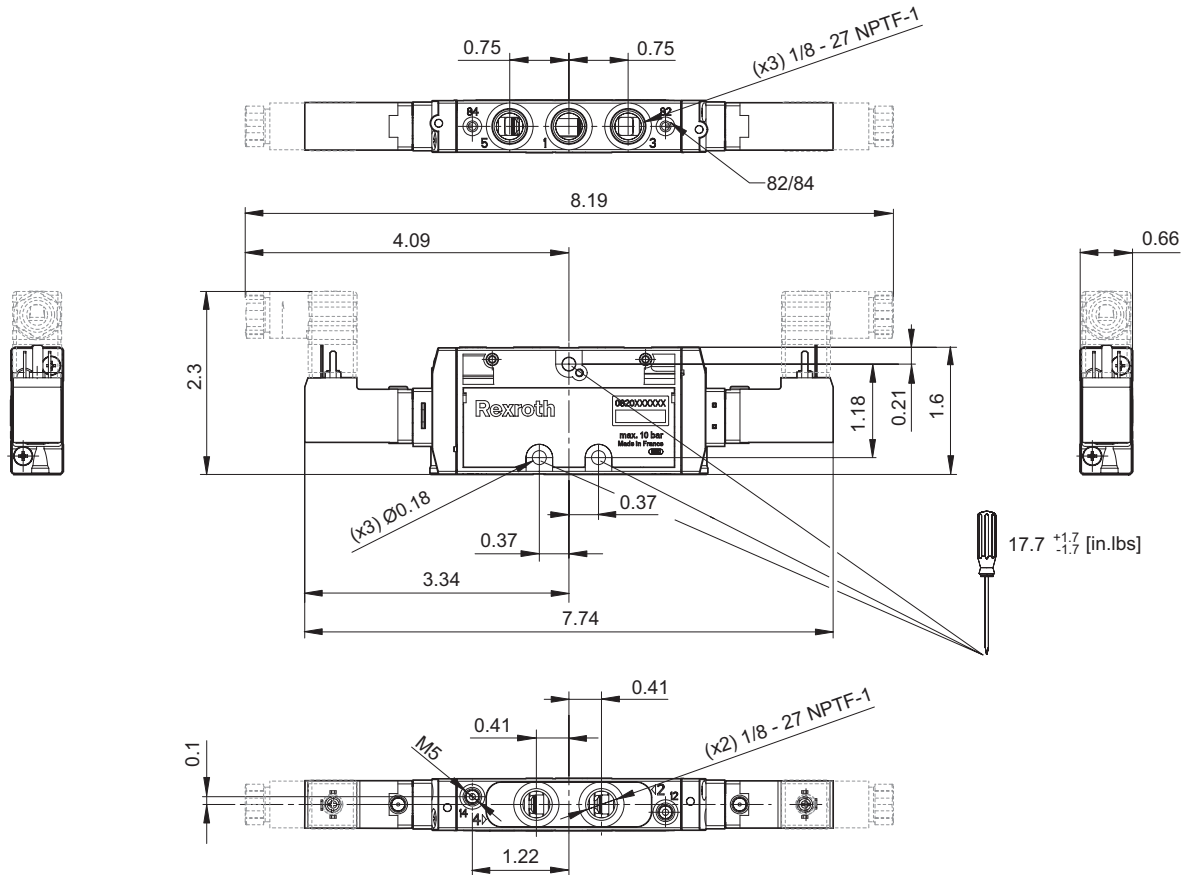
00127578

Directional valves → Electrically operated

5/2-way valve, Series TC08

► $Q_n = 800 \text{ l/min}$ ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Dimensions in inches , double solenoid



00127578_a

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent



00120256

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Compressed air connection	according to ANSI B1.20.3
Connector standard	ISO 15217:2000
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	11 ms
Switch-off time	11 ms
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

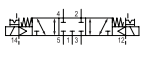
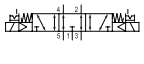
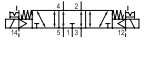
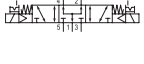
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	1.9	-	-	-	-
24 V	-	-	-10% / +10%	-	-	1.9	-	-	-	-
-	110 V	-	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V	-	-	0.34	3	700	R422101224
					24 V	-	-				R422101225
					-	110 V	-				R422101226
					-	230 V	230 V				R422101227

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V -	- - 110 V 230 V	- - - 230 V	0.34	3	700	R422101228 R422101229 R422101230 R422101231
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V -	- - 110 V 230 V	- - - 230 V	0.34	3	700	R422101232 R422101233 R422101234 R422101235
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V -	- - 110 V 230 V	- - - 230 V	0.34	3	700	R422101236 R422101237 R422101238 R422101239
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V -	- - 110 V 230 V	- - - 230 V	0.34	3	700	R422101240 R422101241 R422101242 R422101243
		NPTF 1/8-27	NPTF 1/8-27	NPTF 1/8-27	12 V 24 V -	- - 110 V 230 V	- - - 230 V	0.34	3	700	R422101244 R422101245 R422101246 R422101247
Part No.	Working pressure min./max.			Weight				Note			
	[bar]			[kg]							
R422101224 R422101225 R422101226 R422101227	3 / 10			0.18				1)			
R422101228 R422101229 R422101230 R422101231	-0.9 / 10			0.18				2)			
R422101232 R422101233 R422101234 R422101235	3 / 10			0.18				1)			
R422101236 R422101237 R422101238 R422101239	-0.9 / 10			0.18				2)			
R422101240 R422101241 R422101242 R422101243	3 / 10			0.18				1)			

MO = Manual override

1) Pilot: internal

2) Pilot: external

Nominal flow Qn at 6 bar and Δp = 1 bar

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

Part No.	Working pressure min./max.	Weight	Note
	[bar]	[kg]	
R422101244	-0.9 / 10	0.18	2)
R422101245			
R422101246			
R422101247			

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

[illegible]

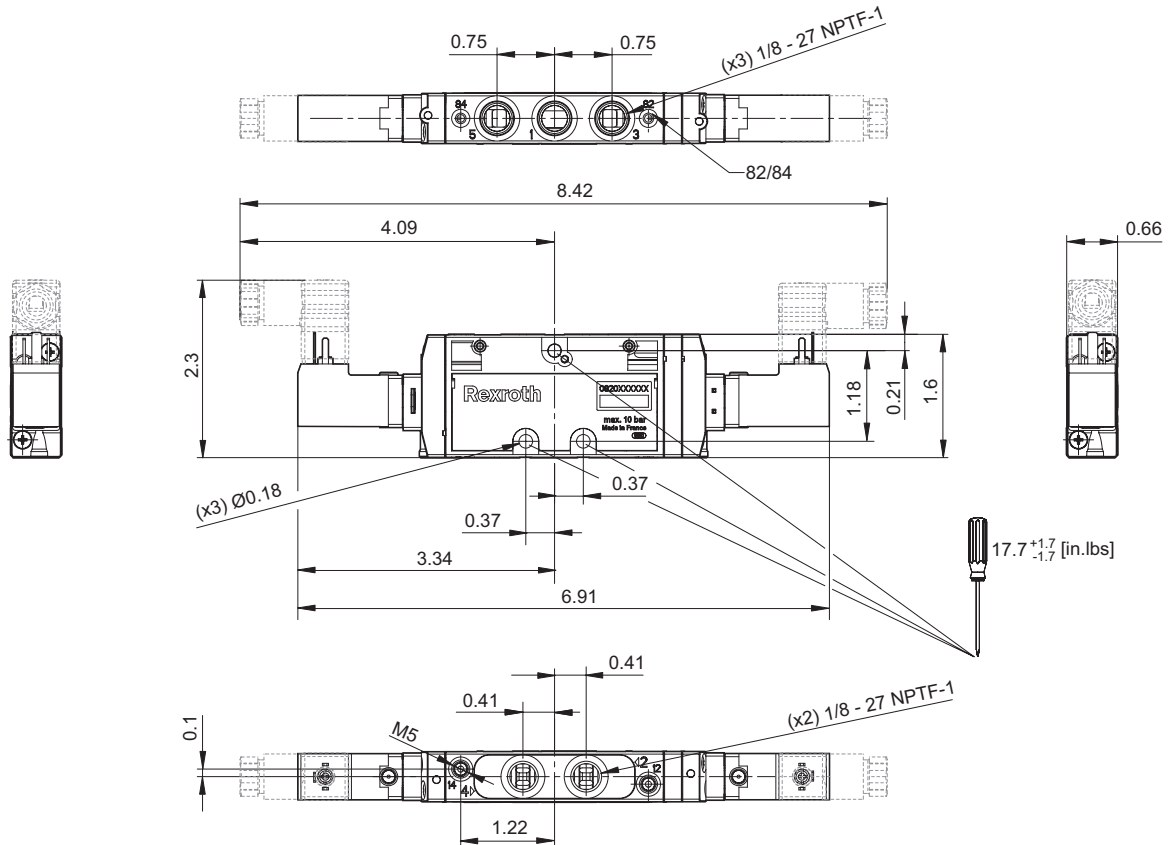
00127579

Directional valves → Electrically operated

5/3-way valve, Series TC08

► Qn = 700 l/min ► pipe connection ► compressed air connection output: NPTF 1/8-27 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent

Dimensions in inches



00127579_a

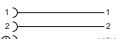
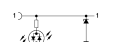
Directional valves → Electrically operated

Series TC08
Accessories
Electrical connectors, Series CN1
► ISO 15217:2000 ► Electrical connector, form C ► with cable


P894_018

Ambient temperature min./max.
 Protection class according to EN 60529
 Cable exit
 Tightening torque for mounting screws

-20 °C / +80 °C
 IP 67
 angled 90°
 0.4 Nm

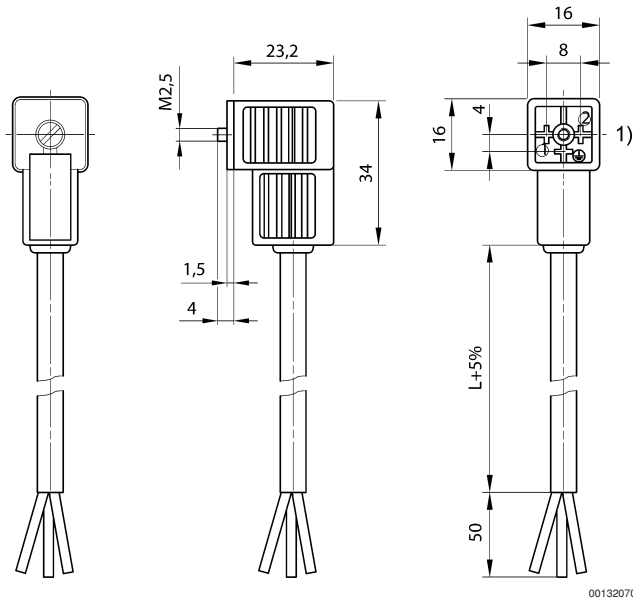
	Electrical interface	Number of plug options	Operating voltage		Max. current	Protective circuit	Contact as- signment	Part No.
	[Port 1]	[for port 1]	[V DC]	[V AC]	[A]			
	Electrical con- nector, form C	1 position	-	-	6	-	2+E	1834484212 1834484213 1834484214 1834484215
	Electrical con- nector, form C	1 position	24	24	6	Z-diode	2+E	1834484204 1834484205 1834484206 1834484207 1834484236
	Electrical con- nector, form C	1 position	-	230	6	Varistor	2+E	1834484208 1834484209 1834484210 1834484211

Part No.	LED status display	Housing color	Number of wires	Cable length	Weight	Note
				[m]	[kg]	
1834484212 1834484213 1834484214 1834484215	-	Black	-	3 3 5 5	0.183 0.183 0.308 0.308	Fig. 1 Fig. 2 Fig. 1 Fig. 2
1834484204 1834484205 1834484206 1834484207 1834484236	Yellow	Black	2 2 2 - -	3 3 5 5 10	0.185 0.185 0.292 0.298 0.571	Fig. 3 Fig. 4 Fig. 3 Fig. 4 Fig. 4
1834484208 1834484209 1834484210 1834484211	Red	Black	-	3 3 5 5	0.171 0.194 0.297 0.285	Fig. 3 Fig. 4 Fig. 3 Fig. 4

Directional valves → Electrically operated

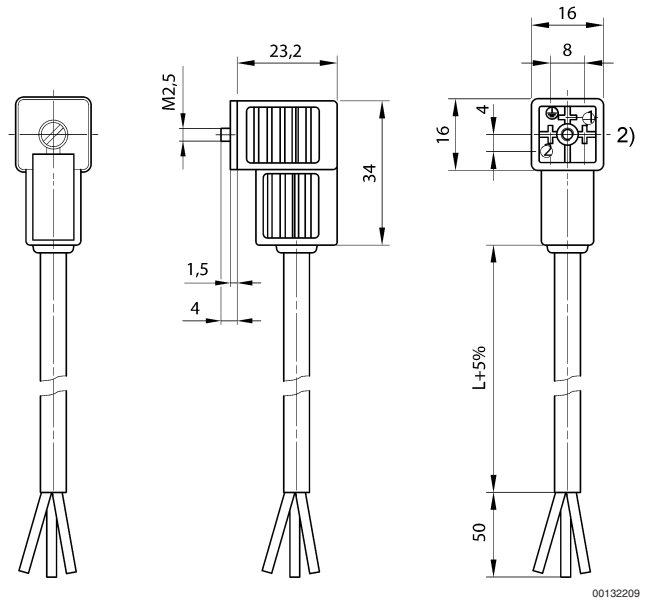
Series TC08
Accessories

Fig. 1



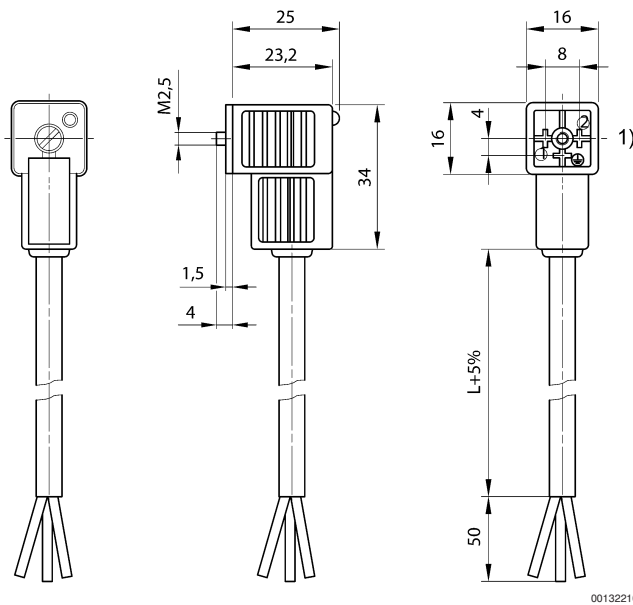
1) 0° female insert

Fig. 2



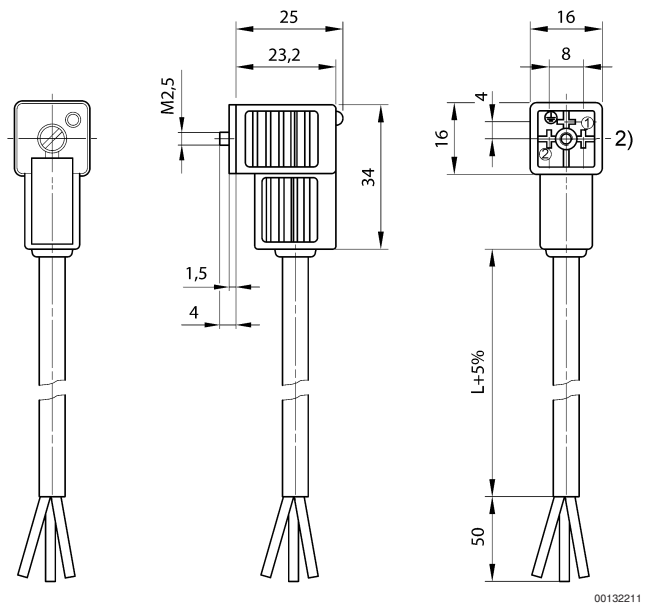
2) 180° female insert

Fig. 3



1) 0° female insert

Fig. 4



2) 180° female insert

Directional valves → Electrically operated

Series TC08
Accessories

Coils, Series CO1
► Coil width 16 mm ► Form C, coil kit



Connector standard
electrical connections
Ambient temperature min./max.
Protection class according to EN 60529:2000, with electrical connector
Duty cycle ED
Compatibility index CI

ISO 15217, form C
Plug
-- / +50 °C
IP 65
100 %
23

Materials:
Housing

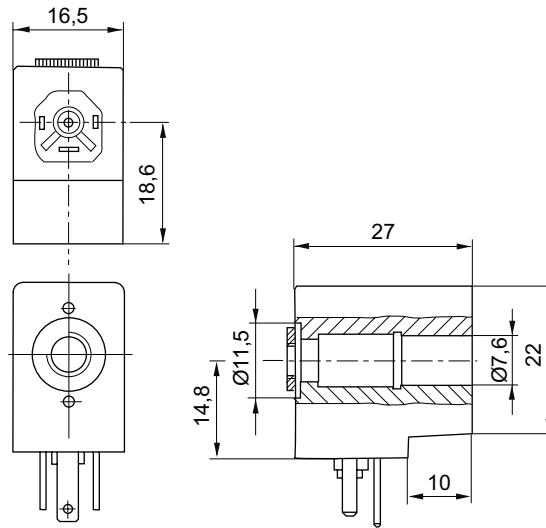
Thermoplastic elastomer

Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	-	-	-	-
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	3	2.4	4	3.8
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	3	2.4	4	3.8

	Operating voltage			Weight	Part No.
	DC	AC 50 Hz	AC 60 Hz		
				[kg]	
	-	110 V	110 V	0.03	R422000134
	-	230 V	230 V		R422000135
	24 V	-	-		R422000136
	-	24 V	24 V		R422000137

The coil kit consists of 1x solenoid coil, 1x mounting nut and 1x spring washer

Directional valves → Electrically operated

Series TC08
Accessories
Dimensions


00135724

Connecting cable, Series CN1
► Socket, M8, 3-pin ► without wire end ferrule, tin-plated, 3-pin


00107009

 Ambient temperature min./max.
 Protection class according to EN 60529

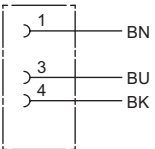
 -40 °C / +85 °C
 IP 65

 Materials:
 Cable sheath

Polyurethane

Technical Remarks

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

	Electrical interface		Number of plug options	Max. current	Number of wires	Cable length	Part No.
	[Port 1]	[Port 2]	[for port 1]	[A]		[m]	
	Socket, M8, 3-pin	without wire end ferrule, tin-plated, 3-pin	1 position	4	3	3	1834484166
						5	1834484168
						10	1834484247
						3	1834484167
						5	1834484169
						10	1834484248
						15	1834484249
Part No.	Cable exit		Weight		Note		
			[kg]				
1834484166	straight 180°		0.091		Fig. 1		
1834484168	straight 180°		0.145		Fig. 1		
1834484247	straight 180°		0.33		Fig. 1		
1834484167	angled 90°		0.092		Fig. 2		

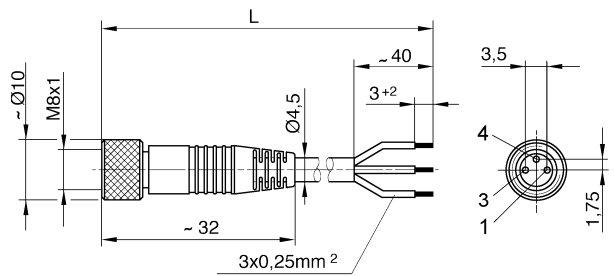
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information
 Pneumatics catalog, online PDF, as of 2010-02-05, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

Series TC08
Accessories

Part No.	Cable exit	Weight	Note
		[kg]	
1834484169	angled 90°	0.141	Fig. 2
1834484248	angled 90°	0.276	Fig. 2
1834484249	angled 90°	0.431	Fig. 2

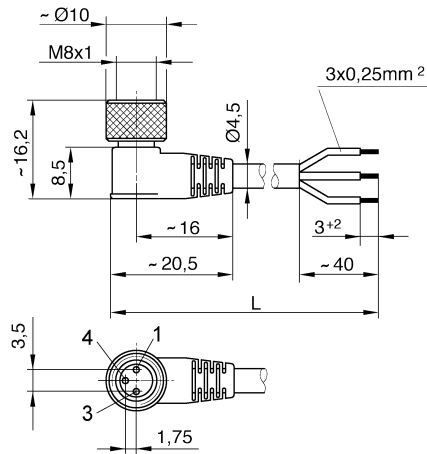
Fig. 1



00105612_a

(1) BN=brown (3) BU=blue (4) BK=black
L = length

Fig. 2



00105612_b

(1) BN=brown (3) BU=blue (4) BK=black
L = length

Directional valves → Electrically operated

Series TC08

Accessories

Connecting cable, Series CN1

► Socket, M8, 4-pin ► without wire end ferrule, tin-plated, 4-pin



00107009_a

Ambient temperature min./max.
Protection class according to EN 60529

-40°C / +85°C
IP 65

Materials:
Cable sheath

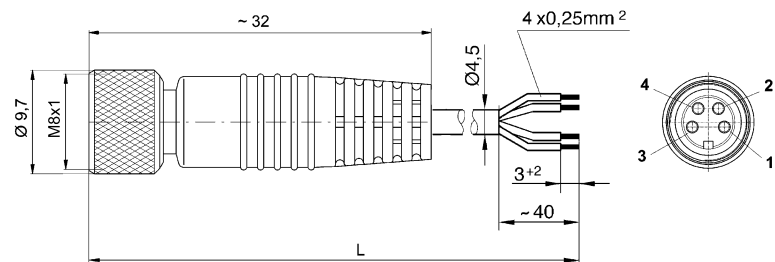
Polyurethane

Technical Remarks

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

	Electrical interface		Number of plug options	Operating voltage	Number of wires	Cable length	Cable exit	Part No.
	[Port 1]	[Port 2]	[for port 1]	[V DC]		[m]		
1) 2) 3) 4) — BN — WH — BU — BK Socket, M8, 4-pin without wire end ferrule, tin-plated, 4-pin 1 position 24 4 3 5 3 5 straight 180° straight 180° angled 90° angled 90° 1834484144 1834484146 1834484145 1834484147								
Part No.	Note							
1834484144	Fig. 1							
1834484146	Fig. 1							
1834484145	Fig. 2							
1834484147	Fig. 2							

Fig. 1



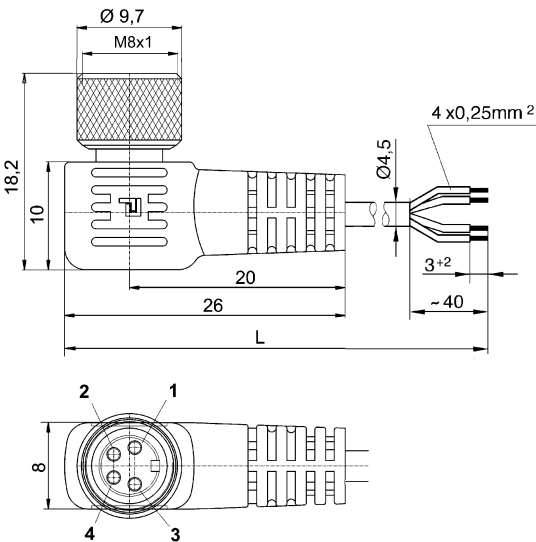
00127634_1

(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black
L = length

Directional valves → Electrically operated

Series TC08
Accessories

Fig. 2



00127634_2

(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black
L = length

M8x1 socket (female)

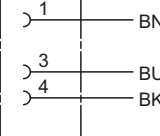
► Socket, M8x1, 3-pin



00136663

Ambient temperature min./max. -40 °C / +85 °C
Protection class according to EN 60529: IP 65
Materials:
Housing Polyamide

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

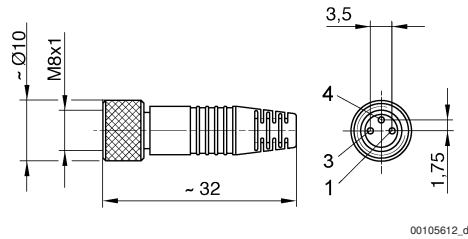
	Operating voltage		Max. current	Contact assignment	Cable exit	suitable cable-Ø min./max	Part No.
	DC	AC					
	[V]	[V]	[A]			[mm]	
	75	60	4	3	straight 180°	-- / 4.5	1834484173
					angled 90°		1834484174
Part No.	number of plug options 1			Housing color		Weight	Note
						[kg]	
1834484173 1834484174	1 position			Black		0.008	Fig. 1 Fig. 2

Directional valves → Electrically operated

Series TC08

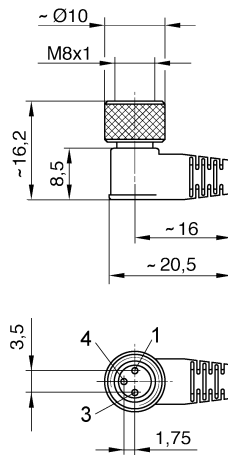
Accessories

Fig. 1



00105612_d

Fig. 2



00105612_c

Manifold strip, Series TC08



00108958

Ambient temperature min./max.
Medium

-10 °C / +50 °C
Compressed air

Materials:
Subbase
Seals

Aluminum
Acrylonitrile Butadiene Rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Directional valves → Electrically operated

Series TC08

Accessories

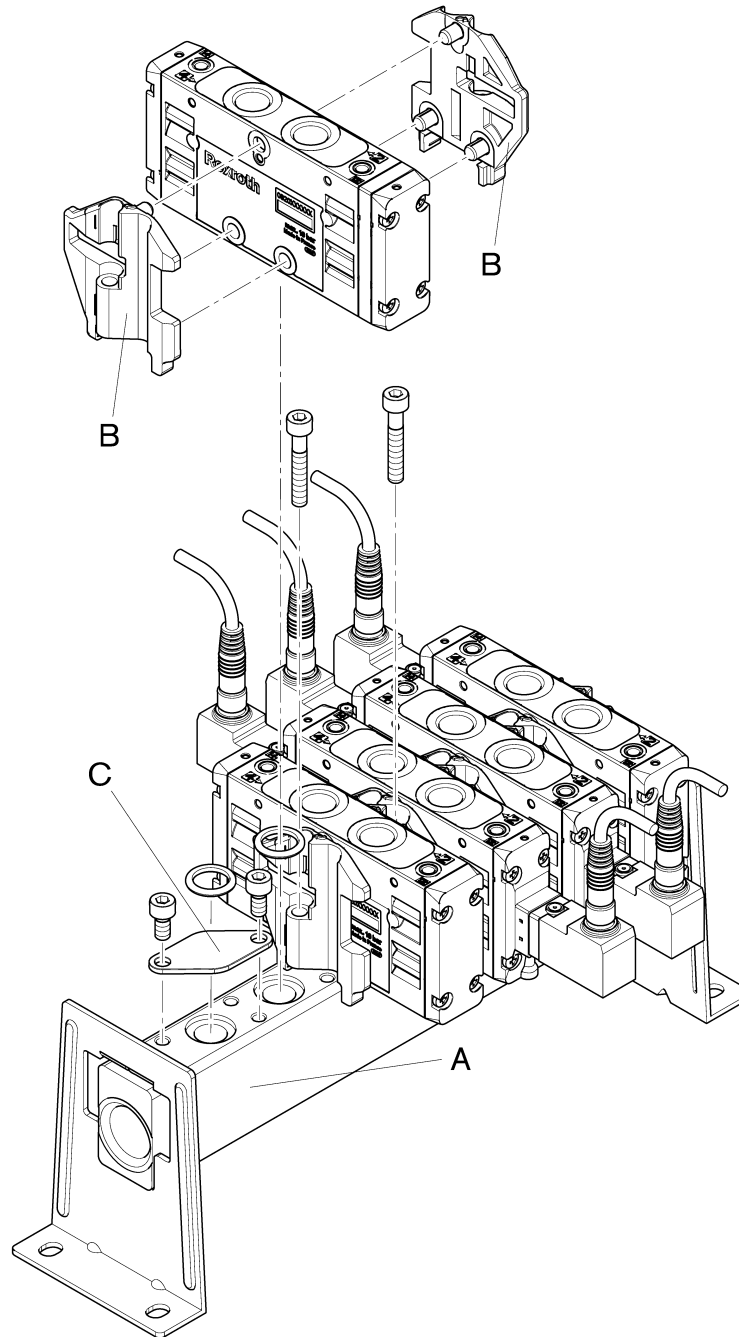
Qn	Number of valve positions	Weight	Note	Part No.
[l/min]		[kg]		
800	2	0.115	-	R422000931
	3	0.148	-	R422000932
	4	0.182	-	R422000933
	5	0.218	-	R422000934
	6	0.247	-	R422000935
	8	0.313	-	R412012677
	10	0.38	-	R412012678
	12	0.448	-	R412012679
	-	0.13	1)	R422000937
	-	0.049	2)	R422000939

1) mounting kit for 6 valves, delivery incl. seals and mounting screws

2) Blanking plates, 5 pcs., delivery incl. seals and mounting screws

Directional valves → Electrically operated

Series TC08
 Accessories

Dimensions


The following must be ordered to mount the valves: manifold strip A and mounting kit B
 C = Blanking plate

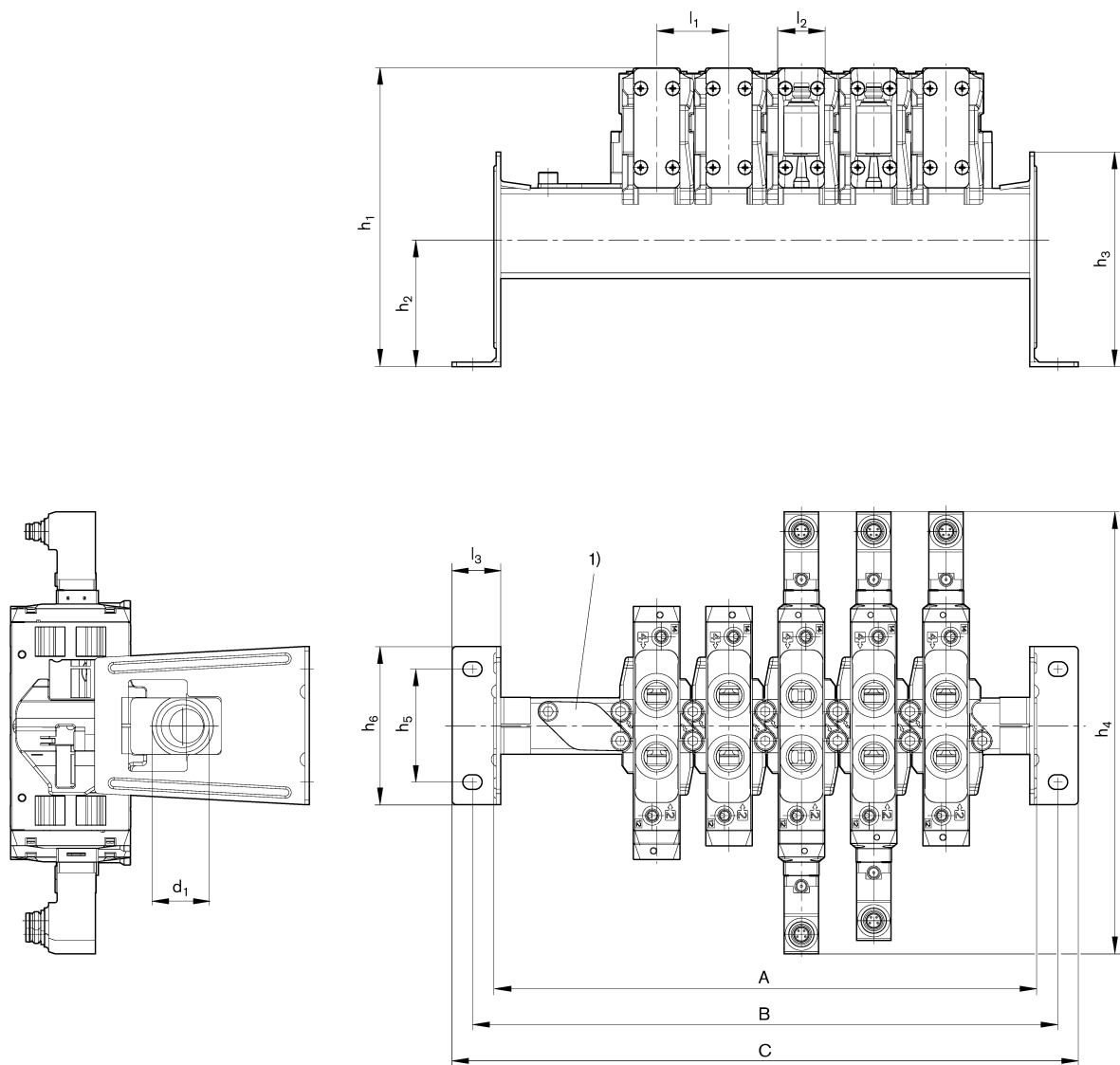
00129785

Part No.												
R422000937	B											
R422000939	C											

Directional valves → Electrically operated

Series TC08
Accessories

Dimensions, P-strip with mounting bracket



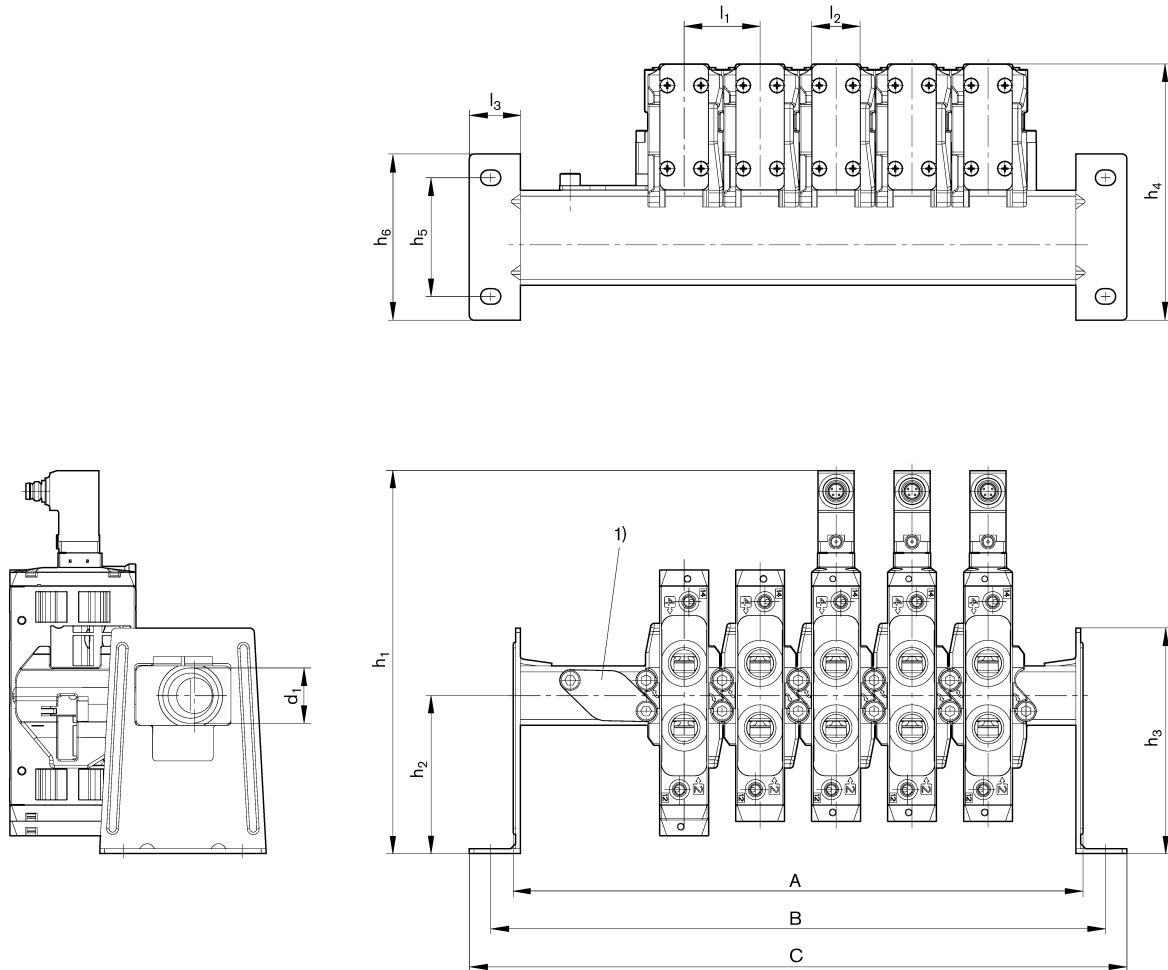
00128601

1) Blanking plate

Part No.	n	A	B	C	d1	h1	h2	h3	h4	h5	h6	l1	l2	l3
R422000931	2	90.4	108.4	123,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R422000932	3	116.4	134.4	149,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R422000933	4	142.4	160.4	175,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R422000934	5	168.4	186.4	201,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R422000935	6	194.4	212.4	227,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R412012677	8	246.4	264.4	279,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R412012678	10	298.4	316.4	331,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5
R412012679	12	350.4	368.4	383,4	G 3/8	102,8	45,5	80	175,6	44	60	26	16,8	19,5

n = number of valve positions

Directional valves → Electrically operated

Series TC08
Accessories
Dimensions, P-strip with mounting bracket


1) Blanking plate

00128602

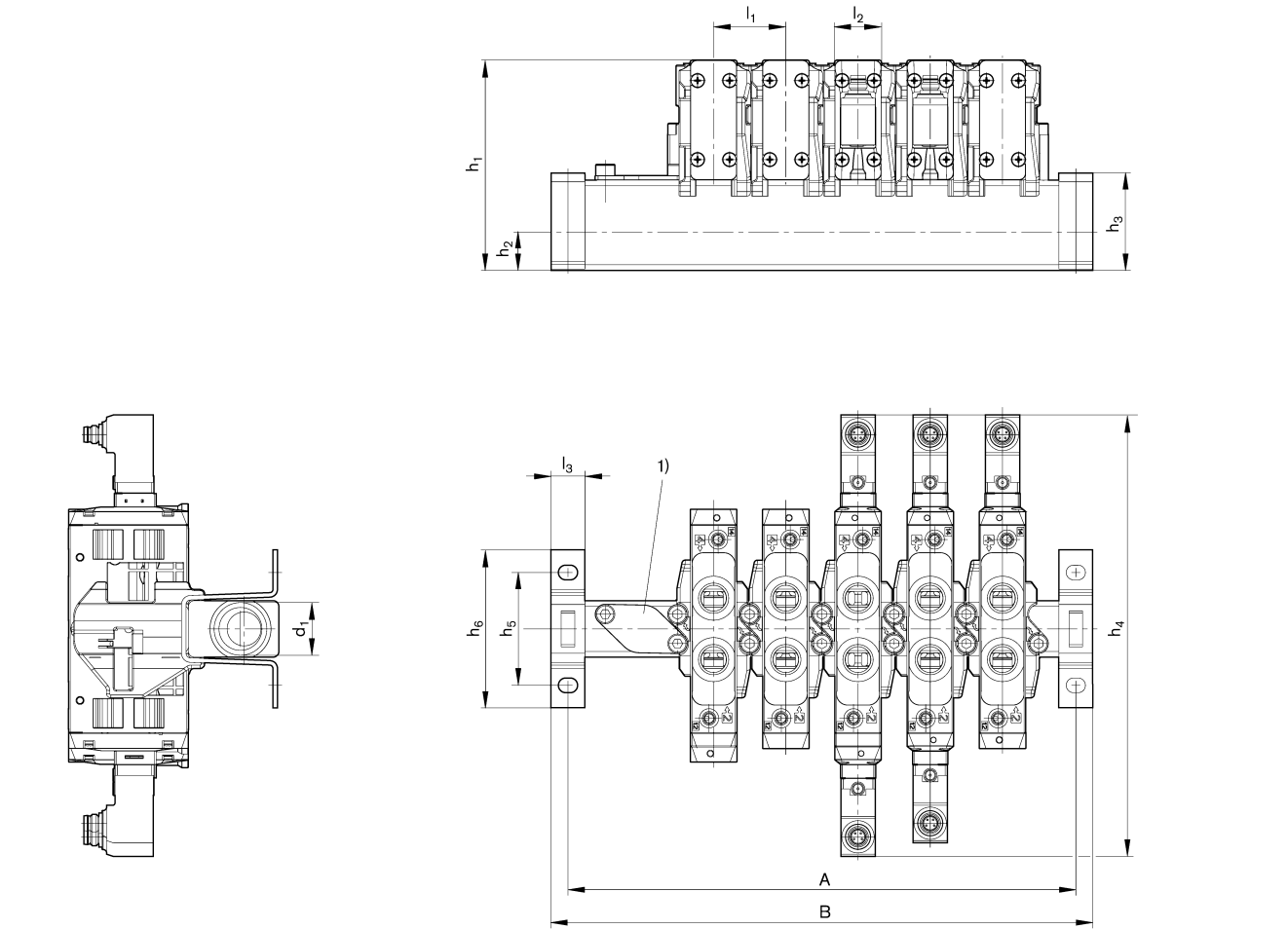
Part No.	n	A	B	C	d1	h1	h2	h3	h4	h5	h6	l1	l2	l3
R422000931	2	90,4	108,4	123,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R422000932	3	116,4	134,4	149,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R422000933	4	142,4	160,4	175,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R422000934	5	168,4	186,4	201,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R422000935	6	194,4	212,4	227,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R412012677	8	246,4	264,4	279,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R412012678	10	298,4	316,4	331,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5
R412012679	12	350,4	368,4	383,4	G 3/8	127,8	51,5	80	86,4	44	60	26	16,8	19,5

n = number of valve positions

Directional valves → Electrically operated

Series TC08
 Accessories

Dimensions, p-strip with support bracket



1) Blanking plate

00128603

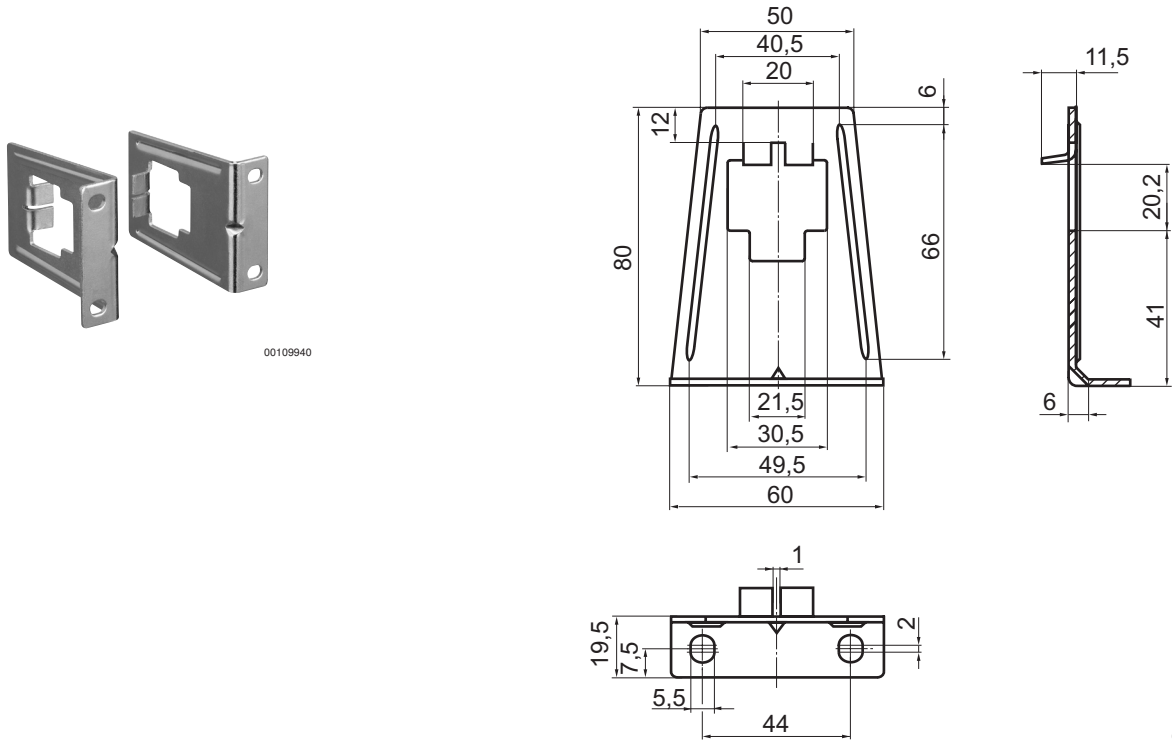
Part No.	n	A	B	d1	h1	h2	h3	h4	h5	h6	I1	I2	I3		
R422000931	2	76.4	90.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R422000932	3	102.4	116.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R422000933	4	128.4	142.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R422000934	5	154.4	168.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R422000935	6	180.4	194.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R412012677	8	232.4	246.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R412012678	10	284.4	298.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		
R412012679	12	336.4	350.4	G 3/8	70,8	13,5	33,5	175,6	44	58	26	16,8	14		

n = number of valve positions

Directional valves → Electrically operated

Series TC08 Accessories

Mounting bracket

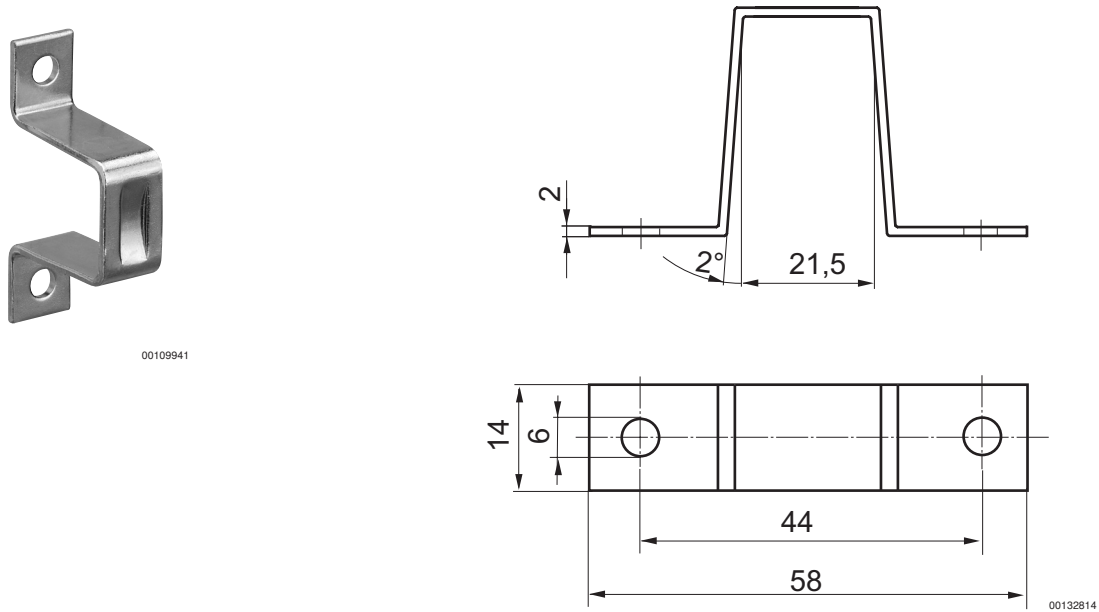


Part No.	Type	Weight [kg]	Delivery quantity [Piece]						
1821332048	Mounting bracket	0.075	2						

Directional valves → Electrically operated

Series TC08
Accessories

Mounting clip



Part No.	Type	Weight [kg]	Delivery quantity [Piece]						
1821332049	Mounting clip	0.024	2						

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