







Solenoid valve for pneumatics, 3/2-, 5/2- or 5/3-way pilot-operated

- High flow-rate capacity
- Reduced power consumption
- Single or manifold mounting
- Standard, Ex mb, Ex eb mb and Ex ia variants
- G 1/4" socket, 1/4" NPT and NAMUR flange

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with



Type 2507
Cable plug,
form B according to
industry standard



Type 2516
Cable plug,
form C according to
DIN EN 175301-803



Type 2518
Cable plug,
form A according to
DIN EN 175301-803



Type 2030
2/2-way diaphragm valve
with pneumatic plastic
actuator



Type 1087
Timer,
form A according to
DIN EN 175301-803

Type description

Type 6518 is a pilot-operated 3/2-way valve and Type 6519 is a 3/2, 5/2 or 5/3-way valve. Together they form a series. The valves can be used individually or on blocks. They operate without continuous air consumption and are used to control single- or double-acting actuators. The use of high-quality materials allows the valves to be used even in outdoor and chemically aggressive environments. The series includes devices with Ex approval and NAMUR flange design. With the monostable valve circuit functions C, D, and H, a safety level of SIL2 can be achieved in accordance with IEC 61508, depending on the architecture of the safety system.

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FLUID CONTROL SYSTEMS

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "6. Dimensions" on page 19.
Material	
Seal	NBR and PUR (5/2-way), NBR (5/3-way)
Body	Pilot valve: Polyamide, reinforced glass-fibre Main valve: Polyamide (5/2-way), aluminium (5/3-way)
Threaded bushing	Brass (stainless steel on request)
Orifice	DN 8...DN 9
Circuit function	C, H, L, N, W and Z Further information can be found in chapter "3. Circuit functions" on page 17.
Thermal insulation class of solenoid coil	Polyamide coil class B Epoxy coil class H
Performance data	
Compressed air quality	ISO 8573-1:2010, class 7.4.4 [1.)]
Duty cycle	100 % continuous operation
Switching time [2.)]	
Opening	Pressure build-up 0...10 %
Closing	Pressure reduction 100...90 %
Medium data	
Operating medium	Neutral medium (e.g. lubricated or oil-free compressed dry air)
Product connections	
Electrical connection	• Plug contacts according to DIN EN 175301-803 form A for cable plug **Type 2518** ▸ Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59. • Plug contacts according to DIN EN 175301-803 form B for cable plug **Type 2507** ▸ Further information can be found in chapter "Cable plug Type 2507, form B according to industry standard" on page 60. • Plug contacts according to DIN EN 175301-803 form C for cable plug **Type 2516** ▸ Further information can be found in chapter "Cable plug Type 2516, form C according to DIN EN 175301-803" on page 60. • Plug contacts according to DIN EN 175301-803 form A for cable plug **Type 2513** ▸ Further information can be found in chapter "Cable plug Type 2513, form A according to DIN EN 175301-803" on page 59.
Pneumatic connection	
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼, flange-mountable
Working port 2, 4	Threaded G ¼, NPT ¼
Auxiliary pilot air port	M5
Approvals and conformities	
Degree of protection	IP65 with cable plug
Explosion protection	Further information can be found in chapter "4.4. Explosion protection" on page 18.
North America (USA/Canada)	Further information can be found in chapter "4.5. North America (USA/Canada)" on page 18.
Environment and installation	
Installation position	As required, preferably with actuator upright

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.
2.) Measurement at + 20 °C, 6 bar at valve outlet

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2. Product variants

2.1. Standard variant





Note:
For general technical data, see "1. General technical data" on page 4.

Type 6519 is a servo-assisted 5/2 or 5/3-way valve. The valve width of 32 mm allows high flow rates. The valves can be used separately or on blocks.

Product properties	Coil size 24.5 mm	Coil size 32 mm
Weight	322 g (5/2-way)	478 g (5/2-way) 720 g (5/3-way)
Switching time		
Opening	20 ms	20 ms
Closing	40 ms	40 ms
Electrical data		
Operating voltage	24 V DC	24 V DC 24/110/230 V 50/60 Hz
Power consumption		
Inrush	–	AC: 11 VA AC: 6/2 VA/W
Hold (warm coil)	DC: 1.7 W	DC: 2 W
Medium data		
Medium temperature	-10 °C...+55 °C	-10 °C...+55 °C
Product connections		
Electrical connection	• Plug contacts according to DIN EN 175301-803 form B for cable plug **Type 2507** ▶ Further information can be found in chapter "Cable plug Type 2507, form B according to industry standard" on page 60. • Plug contacts according to DIN EN 175301-803 form C for cable plug **Type 2516** ▶ Further information can be found in chapter "Cable plug Type 2516, form C according to DIN EN 175301-803" on page 60.	• Plug contacts according to DIN EN 175301-803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59.
Environment and installation		
Ambient temperature	-25 °C...+55 °C	-25 °C...+55 °C

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2.2. Ex mb and Ex eb mb variant





Note:

- Ex mb (with moulded cable) or Ex eb mb (with terminal box)
- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

Ex mb approval is achieved by fitting the valve with a corresponding push-over coil. The cable connection and the cable are permanently moulded to the coil. The valves can be used individually or on blocks.

Product properties		
Weight	700 g (5/2-way) 1100 g (5/3-way)	
Switching time		
Opening	20 ms	
Closing	50 ms	
Electrical data		
Operating voltage	24/110/230 V 50/60 Hz	
Power consumption		
Hold (warm coil)	DC: 3 W	
Medium data		
Medium temperature	- 10 °C...+ 55 °C	
Product connections		
Electrical connection	3 m cable, moulded Terminal box (without fuse)	
Approvals and conformities		
Explosion protection	**ATEX**	**IECEx**
Coil with cable	EPS 18 ATEX 1 232 X II 2G Ex mb IIC T* Gb II 2D Ex mb IIIC T*** °C Db	IECEx EPS 18.0110X Ex mb IIC T* Gb Ex mb IIIC T*** °C Db
Coil with terminal box	EPS 18 ATEX 1 232 X II 2G Ex eb mb IIC T* Gb II 2D Ex mb tb IIIC T*** °C Db	IECEx EPS 18.0110X Ex eb mb IIC T* Gb Ex mb tb IIIC T*** °C Db
Environment and installation		
Ambient temperature	- 25 °C...+ 55 °C	

T* = temperature classes T4, T5 or T6

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2.3. Ex ia variant



Note:

- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.
- The units may only be used in potentially explosive atmospheres in the manner approved by the admission board, i.e. the permissible maximum electrical values must be observed.
- The valves is intended for operation at 24 V DC outputs via the intermediate switching of a corresponding intrinsically safe operating resource (isolating module or barrier).

The intrinsically-safe Type 6519 Ex ia valve consist of an intrinsically-safe pilot control and a pneumatic amplifier. The diaphragm-controlled valve seats work with very low friction, ensuring reliable switching of the valve, even after long shut-down periods.

Product properties		
Weight	670 g (5/2-way)	
Switching time		
Opening	75 ms	
Closing	115 ms	
Electrical data		
Function values for switching function valve	**At + 20 °C**	**At + 55 °C**
Minimum switching current	29 mA	29 mA
Nominal resistance coil	310 Ω	360 Ω
Minimum terminal voltage	9.0 V	10.4 V
Conformity specifications		
Ui	35 V	
Ii	0.9 A	
Pi	1.1 W	
Medium data		
Medium temperature	- 10 °C...+ 55 °C	
Product connections		
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.	
Approvals and conformities		
Explosion protection	**ATEX** EPS 18 ATEX 1 088 X II 2G Ex ia IIC T6/T4 Gb II 2D Ex ia IIIC T135 °C Db	**IECEx** IECEx EPS 18.0038X Ex ia IIC T6/T4 Gb Ex ia IIIC T135 °C Db
Ambient temperature	- 25 °C...+ 55 °C	

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2.4. NAMUR standard variant





Note:
For general technical data, see "1. General technical data" on page 4.

The valve, made of high-quality polyamide, can be operated as a 5/2 or 3/2-way valve by varying the mounting position of the side changeover plate. The NAMUR flange pattern enables simple field mounting directly on the pneumatic actuator.

Product properties	Coil size 24.5 mm	Coil size 32 mm
Weight	320 g	476 g
Orifice	DN 6	DN 6
Switching time		
Opening	20 ms	20 ms
Closing	40 ms	40 ms
Electrical data		
Operating voltage	24 V DC	24 V DC 24/110/230 V 50/60 Hz
Power consumption		
Inrush	–	AC: 11 VA AC: 6/2 VA/W
Hold (warm coil)	DC: 1.7 W	DC: 2 W
Medium data		
Medium temperature	-10 °C...+ 55 °C	-10 °C...+ 55 °C
Product connections		
Electrical connection	• Plug contacts according to DIN EN 175301-803 form B for cable plug **Type 2507** ▶ Further information can be found in chapter "Cable plug Type 2507, form B according to industry standard" on page 60. • Plug contacts according to DIN EN 175301-803 form C for cable plug **Type 2516** ▶ Further information can be found in chapter "Cable plug Type 2516, form C according to DIN EN 175301-803" on page 60.	• Plug contacts according to DIN EN 175301-803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59.
Pneumatic connection		
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼	Threaded G ¼, NPT ¼
Working port 2, 4	NAMUR flange	NAMUR flange
Environment and installation		
Ambient temperature	-25 °C...+ 55 °C	-25 °C...+ 55 °C

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2.5. NAMUR Ex mb and Ex eb mb variant





Note:

- Ex mb (with moulded cable) or Ex eb mb (with terminal box)
- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

The valve bodies are identical to those of the standard variants Type 6519 NAMUR. The difference between the types is in the coils, which are designed and approved differently. By changing the coil on the valve housing, conversion from non-Ex operation to Ex operation (or vice versa) is very easy. Coil variants with moulded cable are plugged over and can be locked in 4 × 90° offset positions and positioned as required in between.

Product properties		
Weight	690 g	
Orifice	DN 6	
Switching time		
Opening	20 ms	
Closing	50 ms	
Electrical data		
Operating voltage	24/110/230 V 50/60 Hz	
Power consumption		
Hold (warm coil)	DC: 3 W	
Medium data		
Medium temperature	- 10 °C...+ 55 °C	
Approvals and conformities		
Explosion protection	**ATEX**	**IECEx**
Coil with cable	EPS 18 ATEX 1 232 X II 2G Ex mb IIC T* Gb II 2D Ex mb IIIC T*** °C Db	IECEx EPS 18.0110X Ex mb IIC T* Gb Ex mb IIIC T*** °C Db
Coil with terminal box	EPS 18 ATEX 1 232 X II 2G Ex eb mb IIC T* Gb II 2D Ex mb tb IIIC T*** °C Db	IECEx EPS 18.0110X Ex eb mb IIC T* Gb Ex mb tb IIIC T*** °C Db
Environment and installation		
Ambient temperature	- 25 °C...+ 55 °C	

T* = temperature classes T4, T5 or T6

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2.6. NAMUR Ex ia variant



Note:

- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.
- The units may only be used in potentially explosive atmospheres in the manner approved by the admission board, i.e. the permissible maximum electrical values must be observed.
- The valves is intended for operation at 24 V DC outputs via the intermediate switching of a corresponding intrinsically safe operating resource (isolating module or barrier).

The intrinsically-safe Type 6519 Ex ia valve consist of an intrinsically-safe pilot control and a pneumatic amplifier. The diaphragm-controlled valve seats work with very low friction, ensuring reliable switching of the valve, even after long shut-down periods.

Type 6519 NAMUR Ex ia is used for pneumatic control of double- or single-acting actuators with NAMUR flange. The operating principle can be changed by simply turning the changeover plate. In the 3/2-way function, exhaust air is returned to the spring chamber of the valve actuator. The diaphragm-controlled valve seats operate with extremely low friction and switch reliably even after long downtimes and at ambient temperatures below zero degrees Celsius. The valve operates without constant air consumption.

Product properties		
Weight	670 g	
Orifice	DN 6	
Switching time		
Opening	75 ms	
Closing	115 ms	
Electrical data		
Function values for switching function valve	**At + 20 °C**	**At + 55 °C**
Minimum switching current	29 mA	29 mA
Nominal resistance coil	310 Ω	360 Ω
Minimum terminal voltage	9.0 V	10.4 V
Safety related highest values		
Ui	35 V	
Ii	0.9 A	
Pi	1.1 W	
Medium data		
Medium temperature	- 10 °C...+ 55 °C	
Product connections		
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.	
Approvals and conformities		
Explosion protection	**ATEX** EPS 18 ATEX 1 088 X II 2G Ex ia IIC T6/T4 Gb II 2D Ex ia IIIC T135 °C Db	**IECEx** IECEx EPS 18.0038X Ex ia IIC T6/T4 Gb Ex ia IIIC T135 °C Db
Ambient temperature	- 25 °C...+ 55 °C	

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2.7. Standard variant for extended temperature range





Product properties	Aluminium			Stainless steel		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1)]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 9			DN 9		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Operating voltages	24 V DC 24/110/230 V 50/60 Hz					
Power consumption	2 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	Threaded G ¼, NPT ¼					
Approvals and conformities						
Degree of protection	IP65 with cable plug					
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 80 °C			- 30 °C...+ 80 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.

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2.8. Ex mb and Ex eb mb variant for extended temperature range





Note:
The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

Product properties	**Aluminium**			**Stainless steel**		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1)]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 9			DN 9		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Operating voltages	24 V DC 24/110/230 V 50/60 Hz					
Power consumption	3 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	3 m cable, moulded junction box (without fuse) on request					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	Threaded G ¼, NPT ¼					
Approvals and conformities						
Degree of protection	IP65					
Explosion protection	**ATEX**			**IECEx**		
Coil with cable	EPS 18 ATEX 1 232 X II 2G Ex mb IIC T* Gb II 2D Ex mb IIIC T*** °C Db			IECEx EPS 18.0110X Ex mb IIC T* Gb Ex mb IIIC T*** °C Db		
Coil with terminal box	EPS 18 ATEX 1 232 X II 2G Ex eb mb IIC T* Gb II 2D Ex mb tb IIIC T*** °C Db			IECEx EPS 18.0110X Ex eb mb IIC T* Gb Ex mb tb IIIC T*** °C Db		
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 60 °C			- 30 °C...+ 60 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.
T* = temperature classes T4, T5 or T6

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2.9. Ex ia variant for extended temperature range





Note:
The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

Product properties	Aluminium			Stainless steel		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1.)]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 9			DN 9		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Function values for switching function valve	**At + 20 °C**			**At + 55 °C**		
Minimum switching current	29 mA			29 mA		
Nominal resistance coil	310 Ω			360 Ω		
Minimum terminal voltage	9.0 V			10.4 V		
Conformity specifications						
Ui	35 V					
Ii	0.9 A					
Pi	1.1 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	Threaded G ¼, NPT ¼					
Approvals and conformities						
Degree of protection	IP65 with cable plug					
Explosion protection	**ATEX**			**IECEx**		
	EPS 18 ATEX 1 088 X II 2G Ex ia IIC T6/T4 Gb II 2D Ex ia IIIC T135 °C Db			IECEx EPS 18.0038X Ex ia IIC T6/T4 Gb Ex ia IIIC T135 °C Db		
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 75 °C			- 30 °C...+ 75 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.

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2.10. NAMUR variant for extended temperature range





Product properties	Aluminium			Stainless steel		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 6			DN 6		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Operating voltages	24 V DC 24/110/230 V 50/60 Hz					
Power consumption	2 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	NAMUR flange					
Approvals and conformities						
Degree of protection	IP65 with cable plug					
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 80 °C			- 30 °C...+ 80 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.

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2.11. NAMUR Ex mb and Ex eb mb variant for extended temperature range





Note:
The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

Product properties	**Aluminium**			**Stainless steel**		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1.)]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 6			DN 6		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Operating voltages	24 V DC 24/110/230 V 50/60 Hz					
Power consumption	3 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	3 m cable, moulded junction box (without fuse) on request					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	NAMUR flange					
Approvals and conformities						
Degree of protection	IP65					
Explosion protection	**ATEX**			**IECEx**		
Coil with cable	EPS 18 ATEX 1 232 X II 2G Ex mb IIC T* Gb II 2D Ex mb IIIC T*** °C Db			IECEx EPS 18.0110X Ex mb IIC T* Gb Ex mb IIIC T*** °C Db		
Coil with terminal box	EPS 18 ATEX 1 232 X II 2G Ex eb mb IIC T* Gb II 2D Ex mb tb IIIC T*** °C Db			IECEx EPS 18.0110X Ex eb mb IIC T* Gb Ex mb tb IIIC T*** °C Db		
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 60 °C			- 30 °C...+ 60 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.
T* = temperature classes T4, T5 or T6

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2.12. NAMUR Ex ia variant for extended temperature range





Note:
The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C, T5: + 100 °C, T6: + 85 °C) minus 5 K.

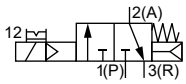
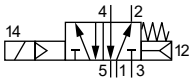
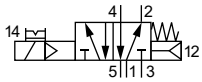
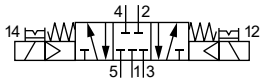
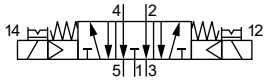
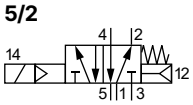
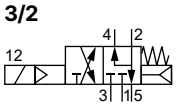
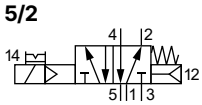
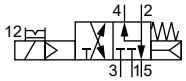
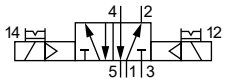
Product properties	**Aluminium**			**Stainless steel**		
Compressed air quality	ISO 8573-1:2010, Class 7.2.4 [1.)]					
Body material						
Seal	FKM, NBR			PU, NBR, FKM		
Threaded socket	Aluminium			Stainless steel		
Main valve	Aluminium ematalised			Stainless steel 1.4571		
Pilot valve	Stainless steel			Stainless steel		
Orifice	DN 6			DN 6		
Switching time	**5/2**	**5/2-bi**	**5/3**	**3/2**	**5/2**	**5/2-bi**
Opening [ms]	16	18	16	13	12	14
Closing [ms]	27	18	22	47	74	14
Electrical data						
Function values for switching function valve	**At + 20 °C**			**At + 55 °C**		
Minimum switching current	29 mA			29 mA		
Nominal resistance coil	310 Ω			360 Ω		
Minimum terminal voltage	9.0 V			10.4 V		
Conformity specifications						
Ui	35 V					
Ii	0.9 A					
Pi	1.1 W					
Voltage tolerance	± 10 %					
Medium data						
Medium temperature	- 30 °C...+ 80 °C			- 30 °C...+ 80 °C		
Product connections						
Electrical connection	Plug contacts according to DIN EN 175301 - 803 form A for cable plug **Type 2518** ▶ Further information can be found in chapter **"Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59**.					
Pneumatic connection						
Supply connection 1, 3, 5	Threaded G ¼, NPT ¼					
Working port 2, 4	NAMUR flange					
Approvals and conformities						
Degree of protection	IP65 with cable plug					
Explosion protection	**ATEX**			**IECEx**		
	EPS 18 ATEX 1 088 X II 2G Ex ia IIC T6/T4 Gb II 2D Ex ia IIIC T135 °C Db			IECEx EPS 18.0038X Ex ia IIC T6/T4 Gb Ex ia IIIC T135 °C Db		
Environment and installation						
Installation	As required, preferably with actuator upright					
Ambient temperature	- 40 °C...+ 75 °C			- 30 °C...+ 75 °C		

1.) To prevent freezing of the expanded compressed air, the pressure dew point must be at least 10 K lower than the temperature of the medium.

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3. Circuit functions

Symbol	Description
	**Circuit function C (CF C)** 3/2-way solenoid valve Servo-controlled, with manual override Normally closed
	**Circuit function H (CF H)** 5/2-way solenoid valve Servo-controlled Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.
	**Circuit function H (CF H)** 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.
	**Circuit function L (CF L)** 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked
	**Circuit function N (CF N)** 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted
5/2  **3/2** 	**Circuit function W (CF W)** 5/2- or 3/2-way solenoid valve With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure 3/2-way: Pressurisation via port (1), normally closed
5/2  **3/2** 	**Circuit function W (CF W)** 5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure. 3/2-way: Pressurisation via port (1), normally closed
	**Circuit function Z (CF Z)** 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.

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4. Approvals and conformities

4.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

4.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

4.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

4.4. Explosion protection

Approval	Description
	**Optional: Explosion protection** Refer to the corresponding sub-chapter in chapter "2. Product variants" on page 5 for more information.

4.5. North America (USA/Canada)

Approval	Description
	**Optional: UL Listed for the USA and Canada** The products are UL Listed for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139 - 19
	**Optional (valid for coils): UL Hazardous Locations – Explosion Protection** UL Listed for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 2, Group A, B, C and D Class II + III, Division 2, Group F and G
	**Optional: UL Recognized for the USA and Canada** The products are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139 - 19
	**Optional (valid for coils): FM (Factory Mutual) – Explosion Protection** FM for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 1, Groups A, B, C and D Class II + III, Division 1, Groups E, F and G

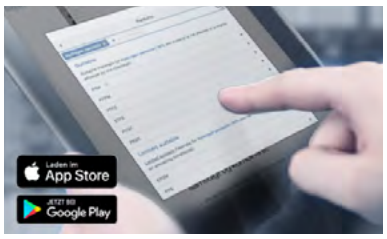
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5. Materials

5.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

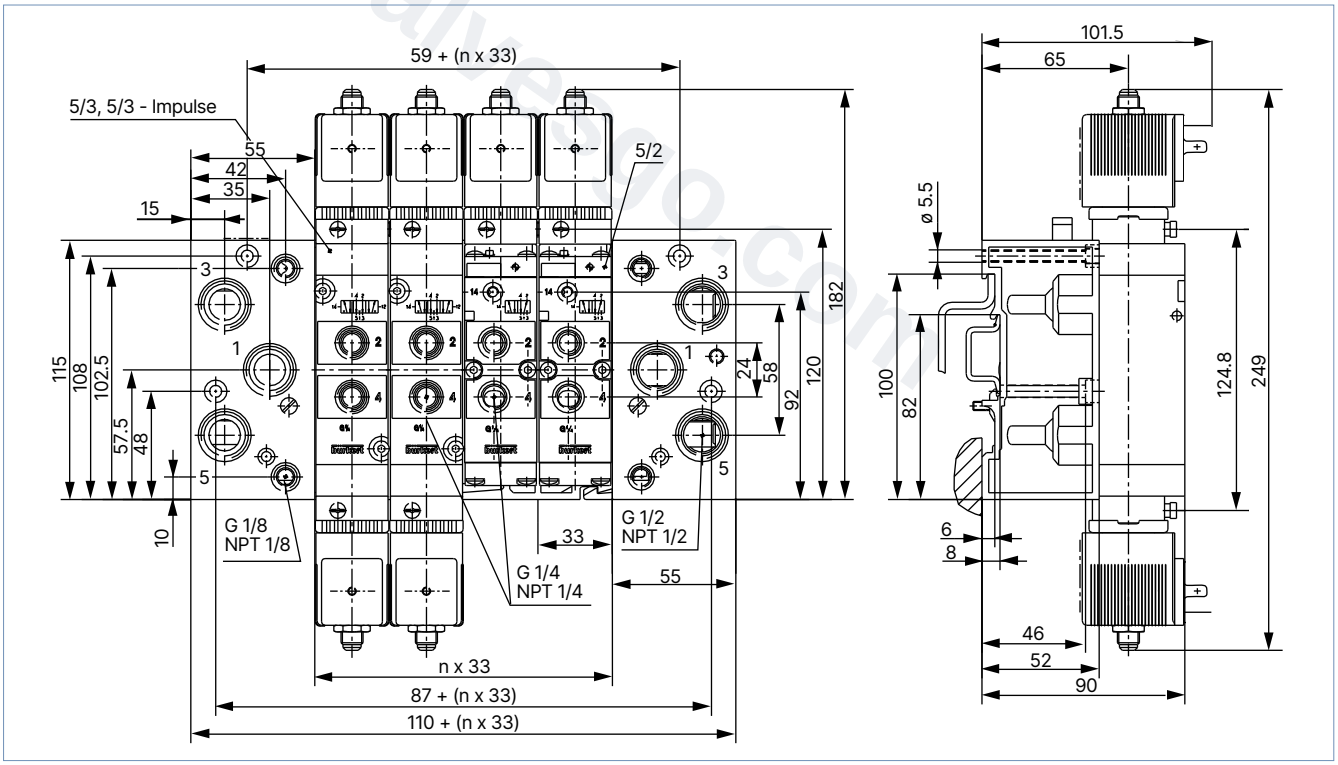
Start chemical resistance check

6. Dimensions

6.1. Pneumatic module Type MP07

Note:

- Dimensions in mm
- n = no. of valves, maximum 12
- Block mounting on wall or with DIN rail 50022 or 50023
- Valve mounting on the pneumatic modules Type MP07 by means of included M4 screws



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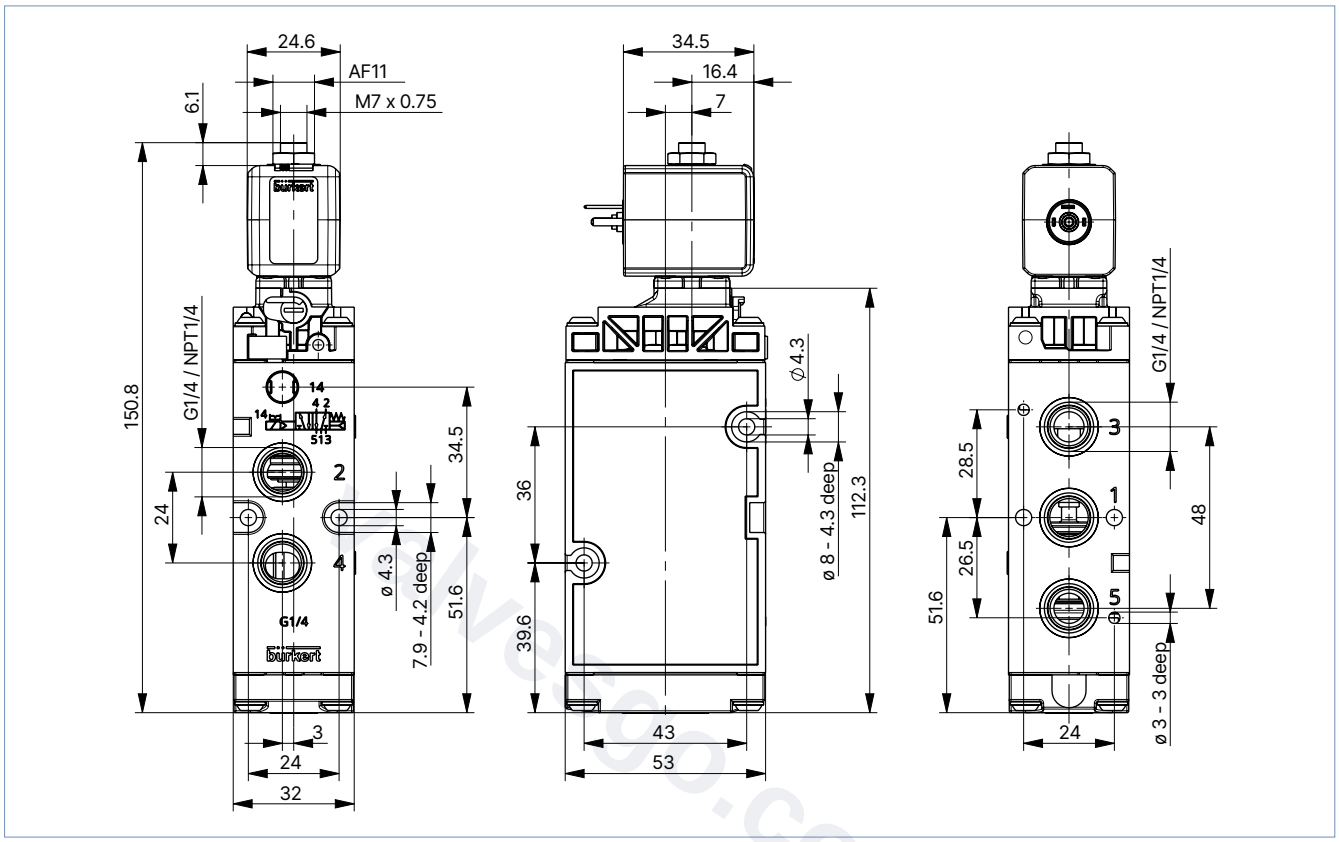
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6.2. Standard variant 5/2-way valve, circuit function H

With plug form B or C

Note:
Dimensions in mm

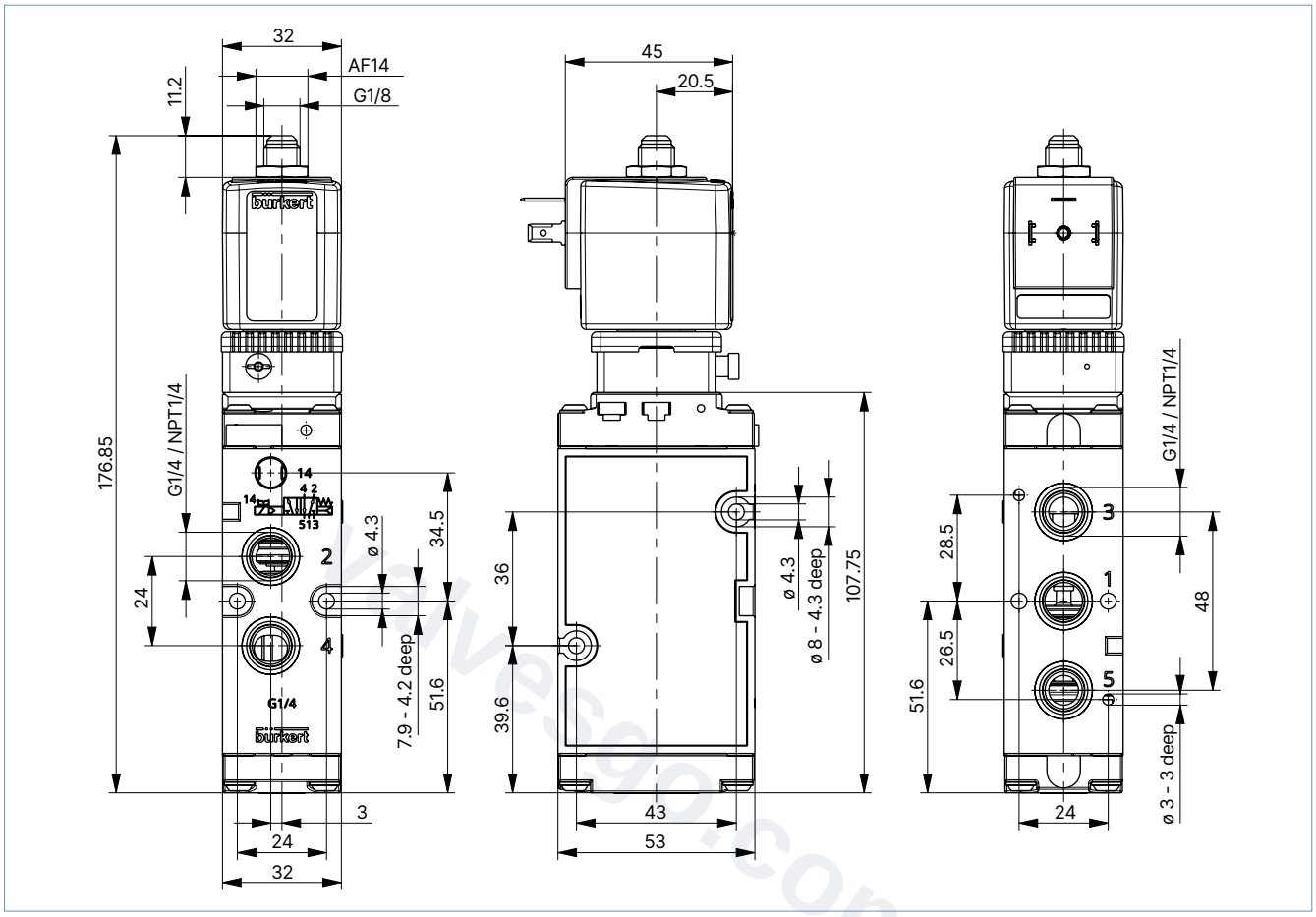


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With plug form A

Note:
Dimensions in mm



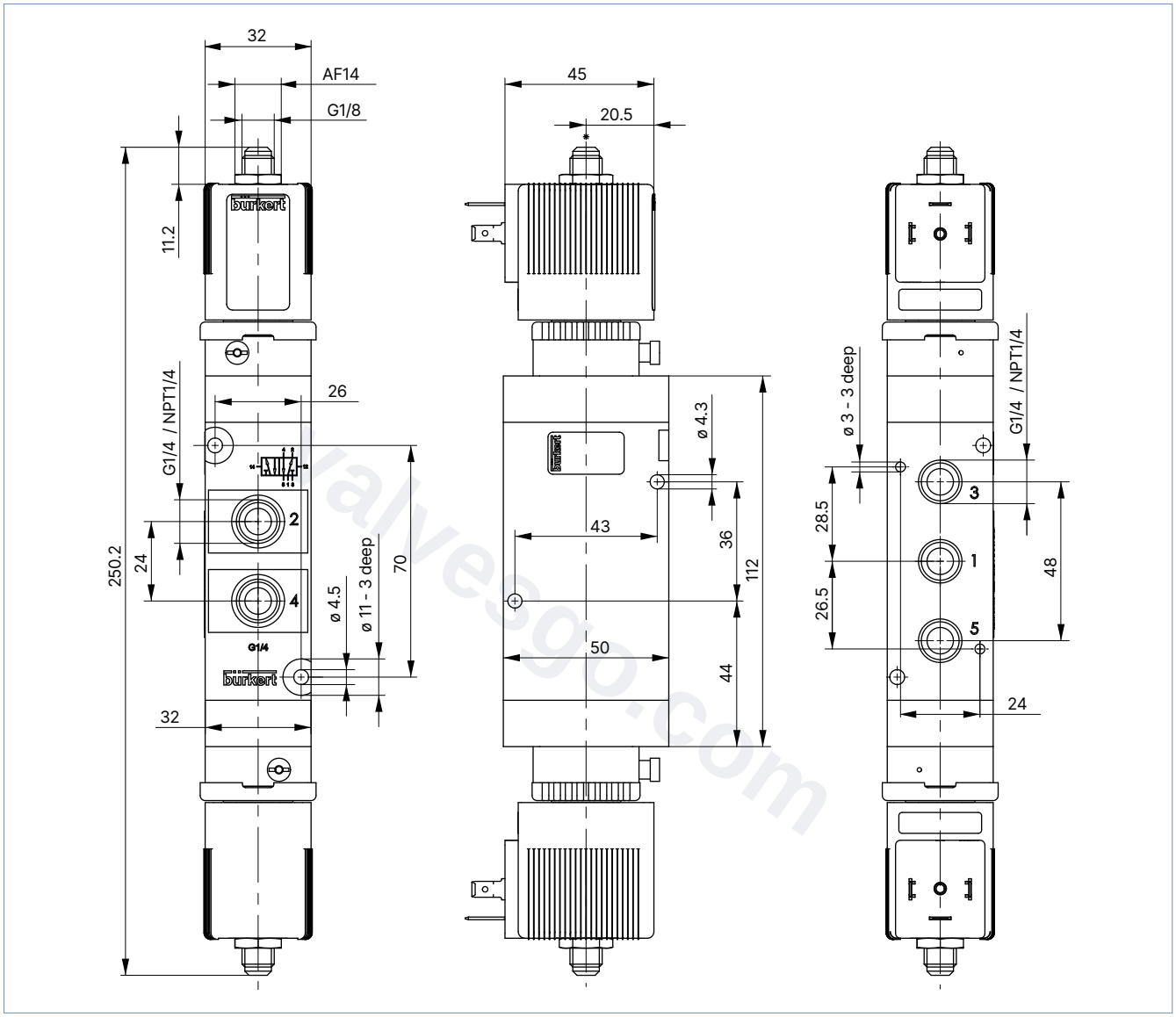
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6.3. Standard variant 5/2-way valve, circuit function L and N

Note:

- Dimensions in mm
- Installation length with 2 solenoids 249 mm



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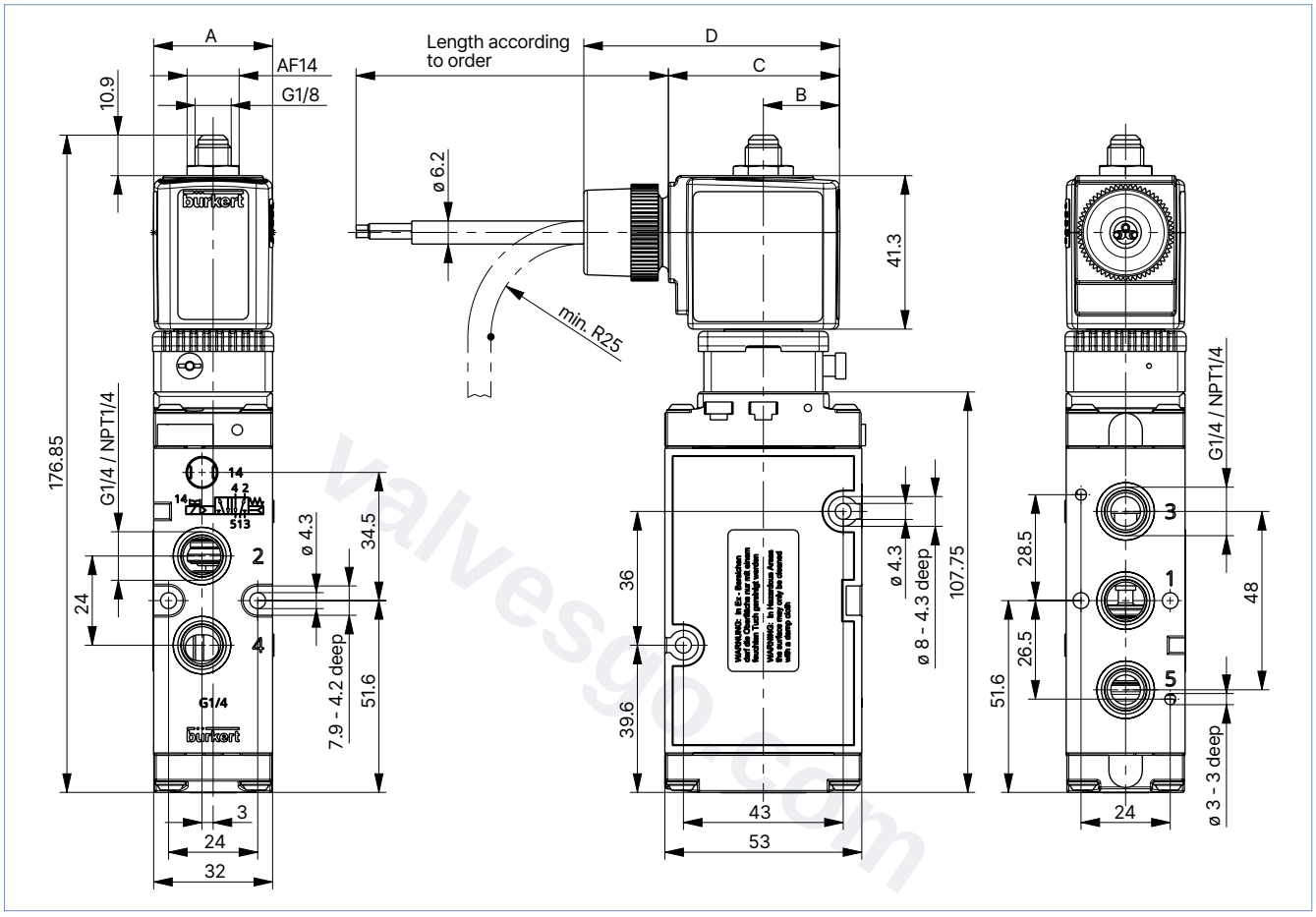
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6.4. Ex mb/eb mb variant 5/2-way valve, circuit function H

With moulded cable (3 m long) (Ex mb)

Note:

- Dimensions in mm
- For the coil dimensions, see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.



With terminal box (Ex eb mb)

Note:

- The dimensions of the housing are identical to the variant with molded cable.
- Coil dimensions, see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.

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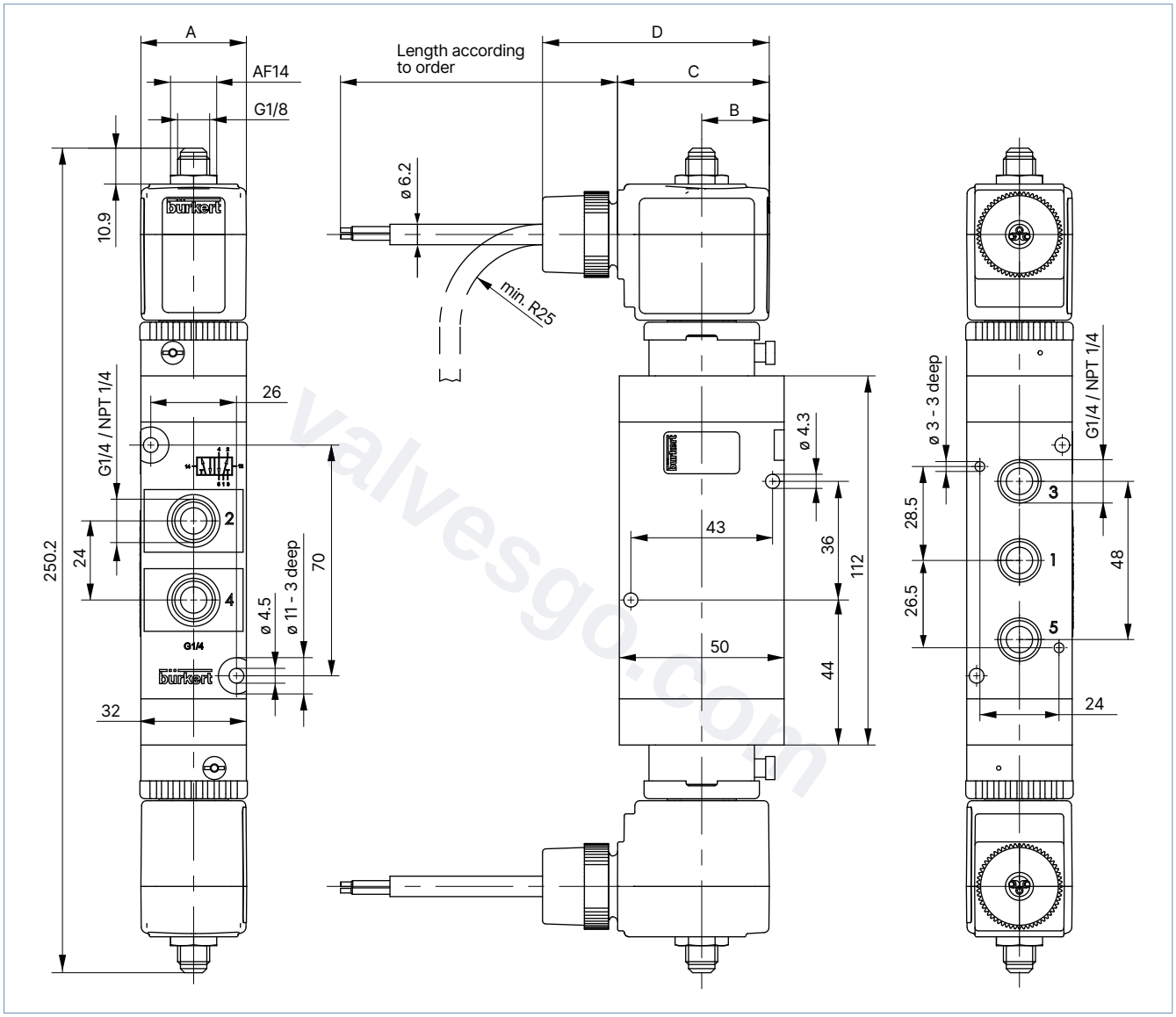
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6.5. Ex mb/eb mb variant 5/2-way valve, circuit function L and N

With moulded cable (3 m long) (Ex mb)

Note:

- Dimensions in mm
- For the coil dimensions, see chapter"6.12. ATEX variant cable coil and terminal box" on page 32.



With terminal box (Ex eb mb)

Note:

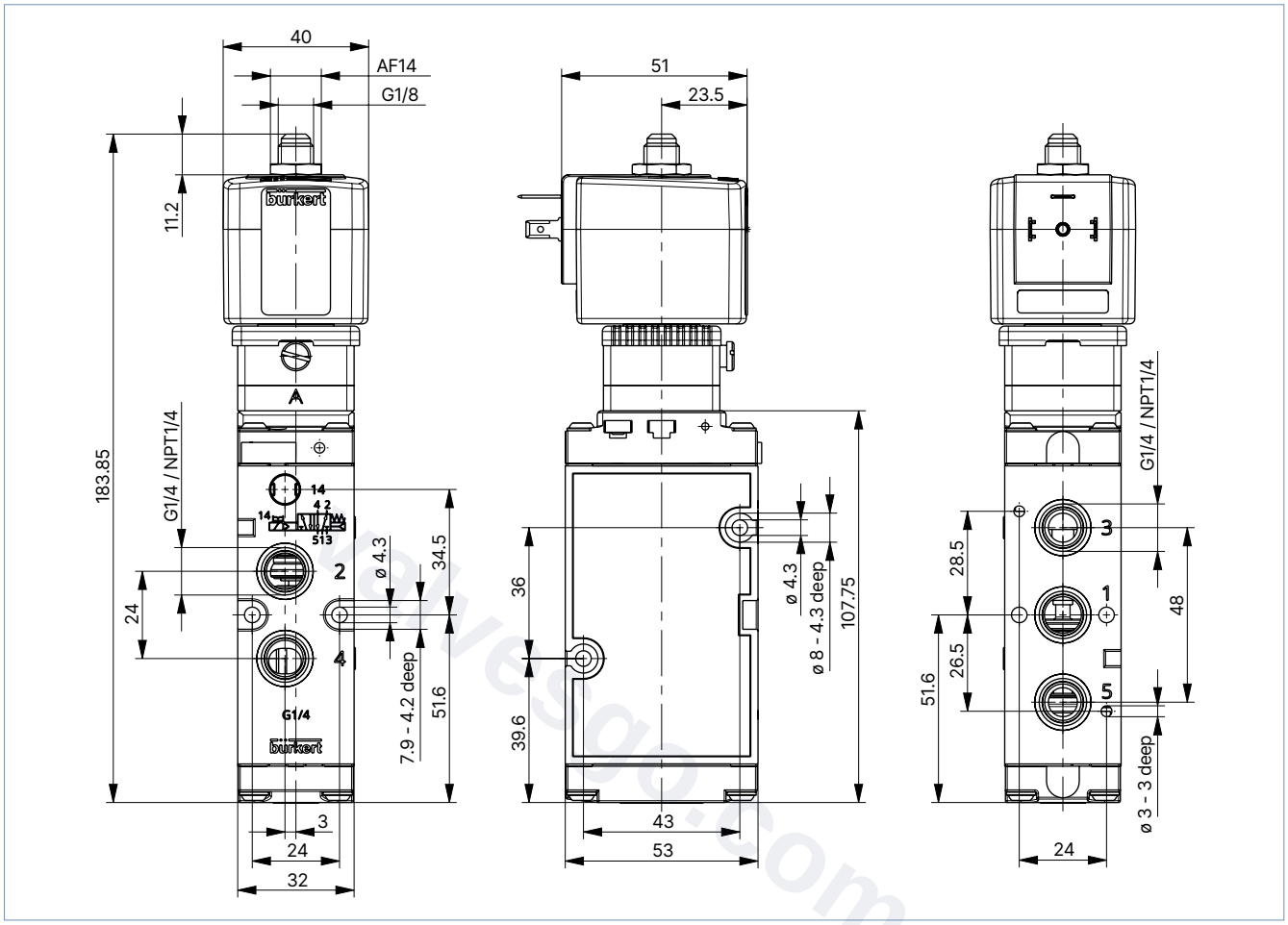
- The dimensions of the housing are identical to the variant with molded cable.
- For the coil dimensions, see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.

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6.6. Ex ia variant 5/2-way valve, circuit function H

Note:
Dimensions in mm



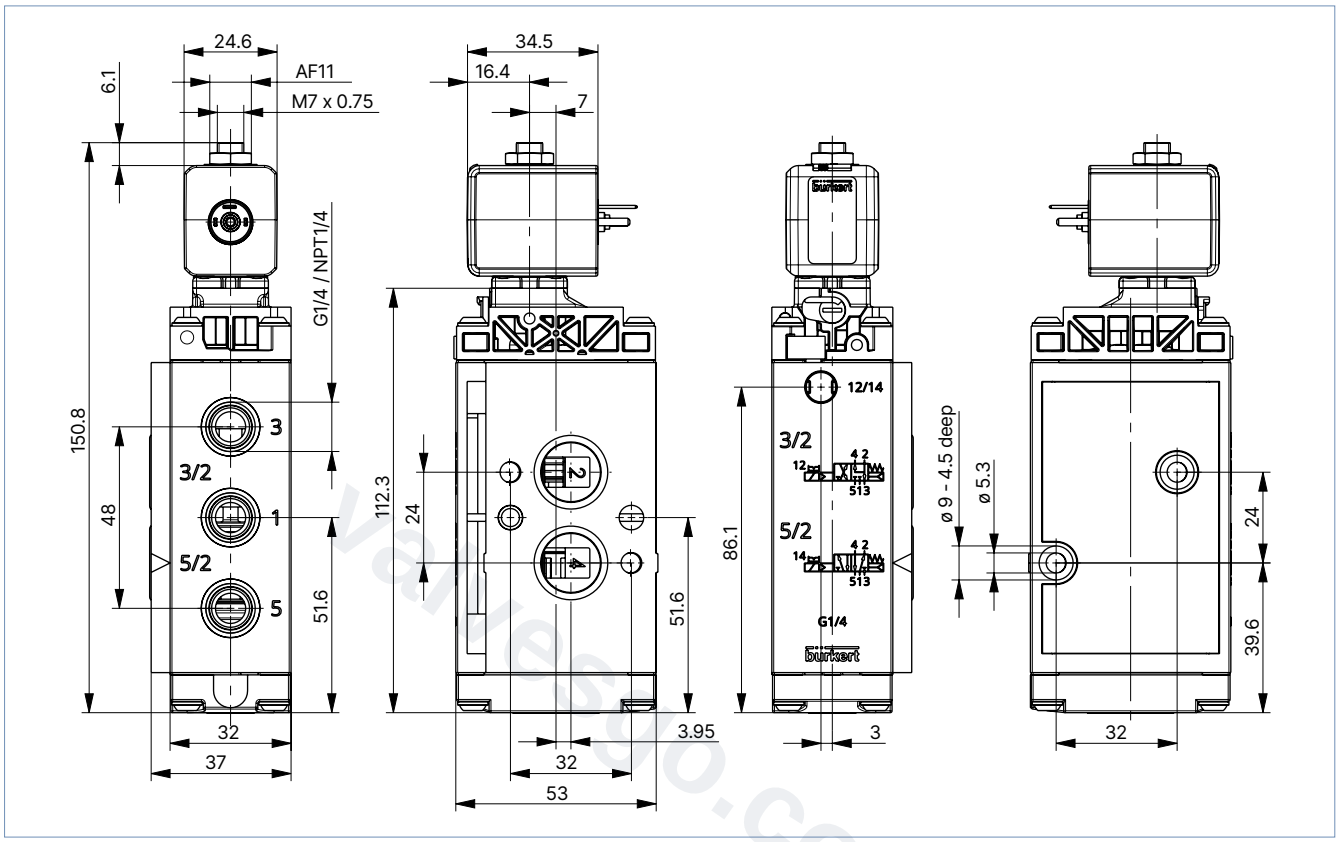
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6.7. NAMUR standard variant 3/2-way valve, circuit function C or 5/2-way valve, circuit function H

With plug form B or C

Note:
Dimensions in mm

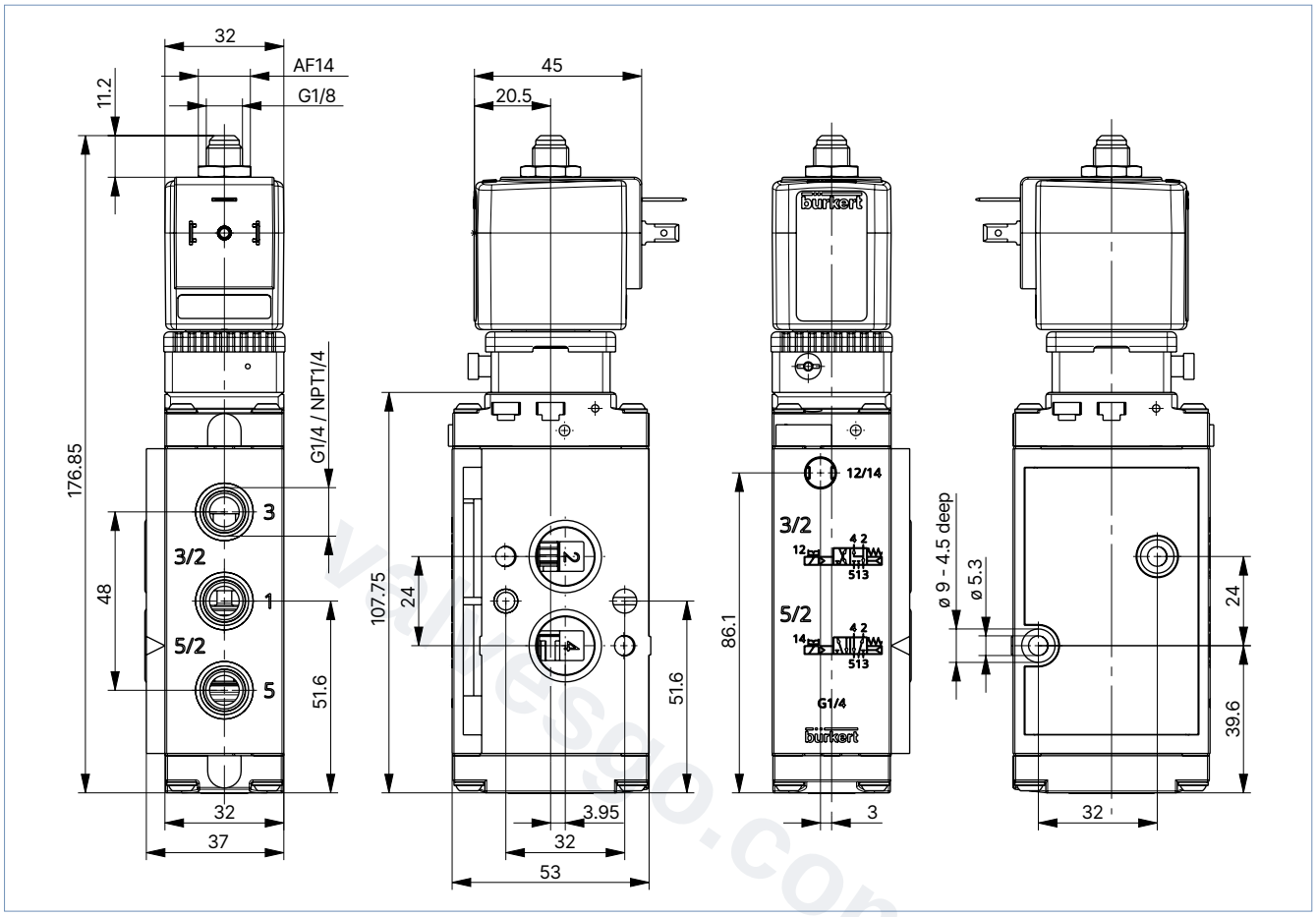


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With plug form A

Note:
Dimensions in mm



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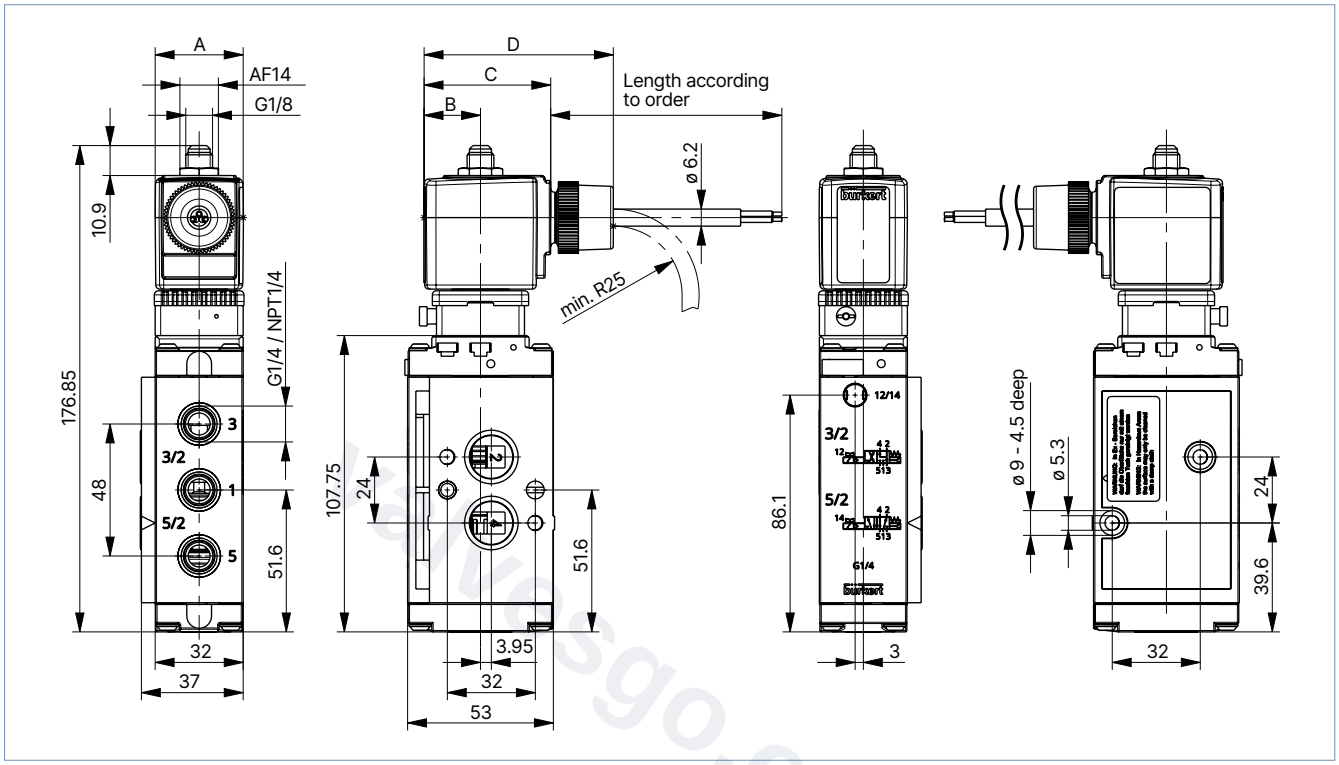
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6.8. NAMUR Ex mb/eb mb variant 3/2-way valve, circuit function C or 5/2-way valve, circuit function H

With moulded cable (3 m long) (Ex mb)

Note:

- Dimensions in mm
- For the coil dimensions, see chapter"6.12. ATEX variant cable coil and terminal box" on page 32.



With terminal box (Ex eb mb)

Note:

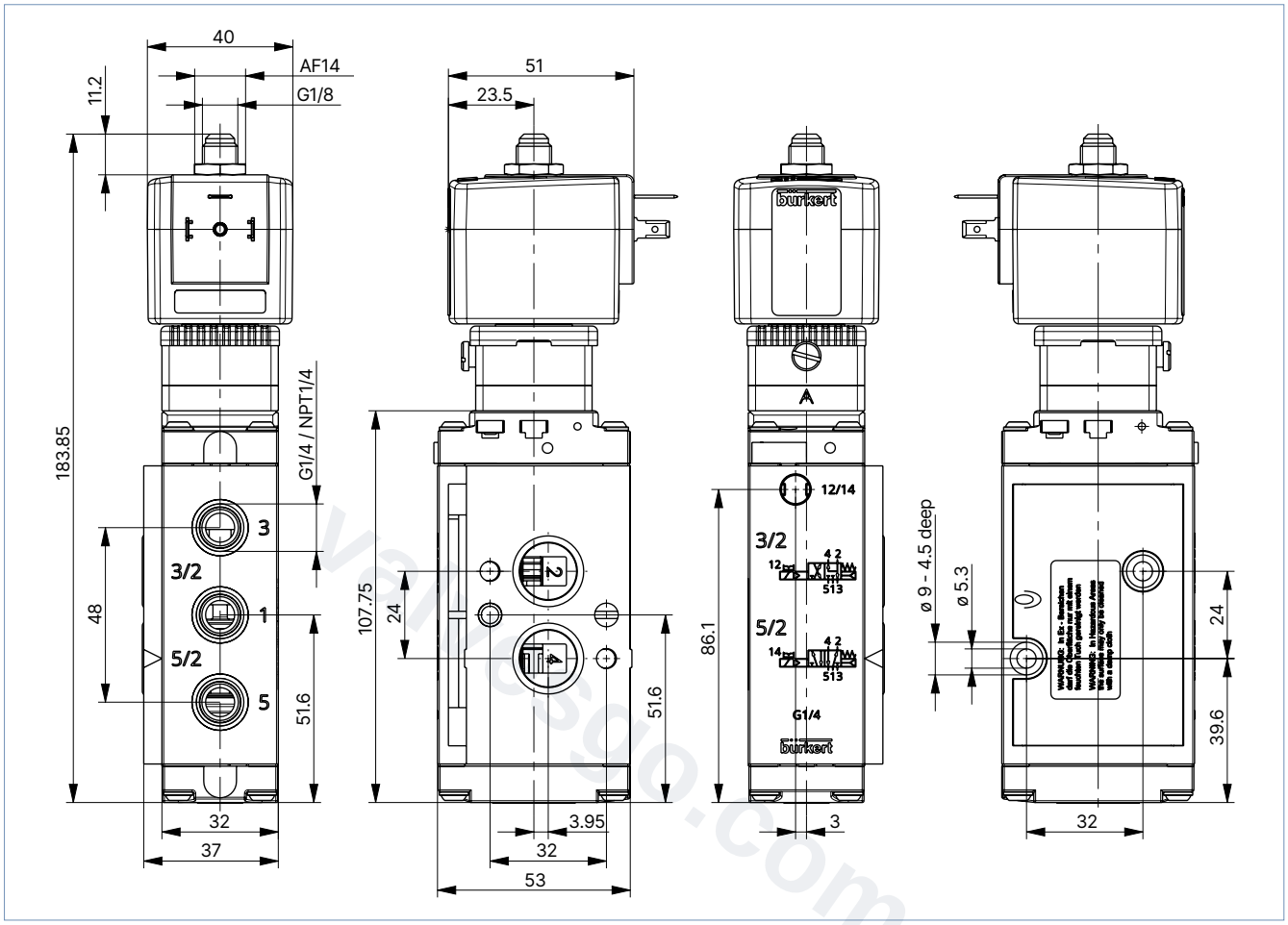
- The dimensions of the housing are identical to the variant with molded cable.
- For the coil dimensions, see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.

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6.9. NAMUR Ex ia variant 3/2-way valve, circuit function C or 5/2-way valve, circuit function H

Note:
Dimensions in mm



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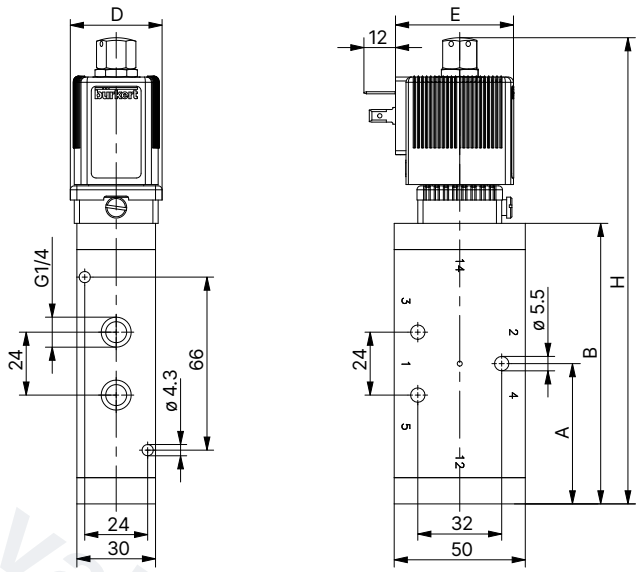
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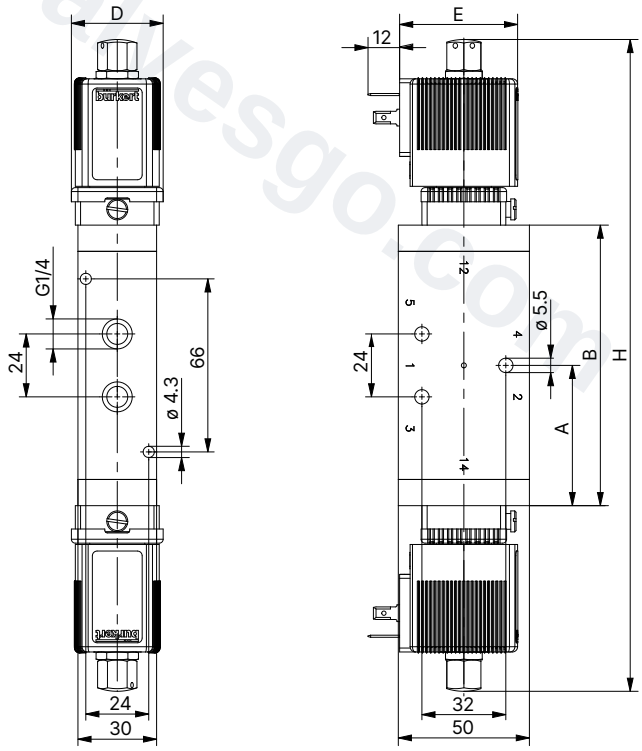
6.10. Standard, Ex mb, Ex eb mb and Ex ia variant or extended temperature range, circuit function H, L, N, Z (impulse)

Note:
Dimensions in mm

Circuit function H



Circuit function Z (impulse), circuit function L, circuit function N



Variant	Variant	A	B	D		E		H	
				Standard, Ex mb, Ex eb mb [1.)]	Ex ia	Standard, Ex mb, Ex eb mb [1.)]	Ex ia	Standard, Ex mb, Ex eb mb [1.)]	Ex ia
H	Stainless steel	53.5	107	35	40.7	45	51	177.8	186.6
H	Aluminium	43.5	97	35	40.7	45	51	167.8	176.6
Z (impulse), L, N	Stainless steel	53.5	107	35	40.7	45	51	248.6	266.2
Z (impulse), L, N	Aluminium	53.5	107	35	40.7	45	51	148.6	266.2

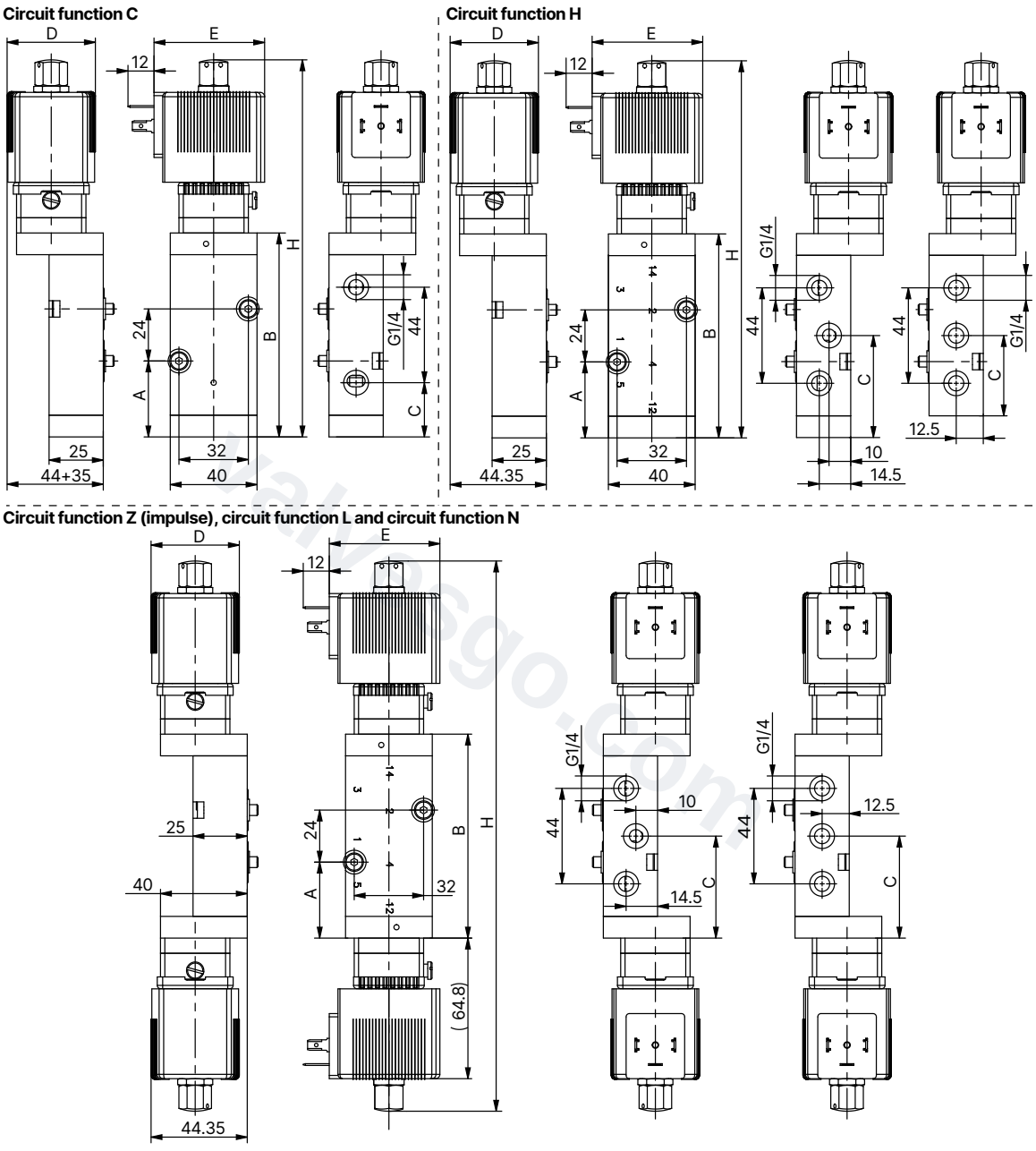
1.) For Ex eb mb coil dimensions see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.

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6.11. NAMUR Standard, Ex mb, Ex ebmb and -Ex ia variant for extended temperature range, circuit function C, H, L, N, Z (impulse)

Note:
Dimensions in mm



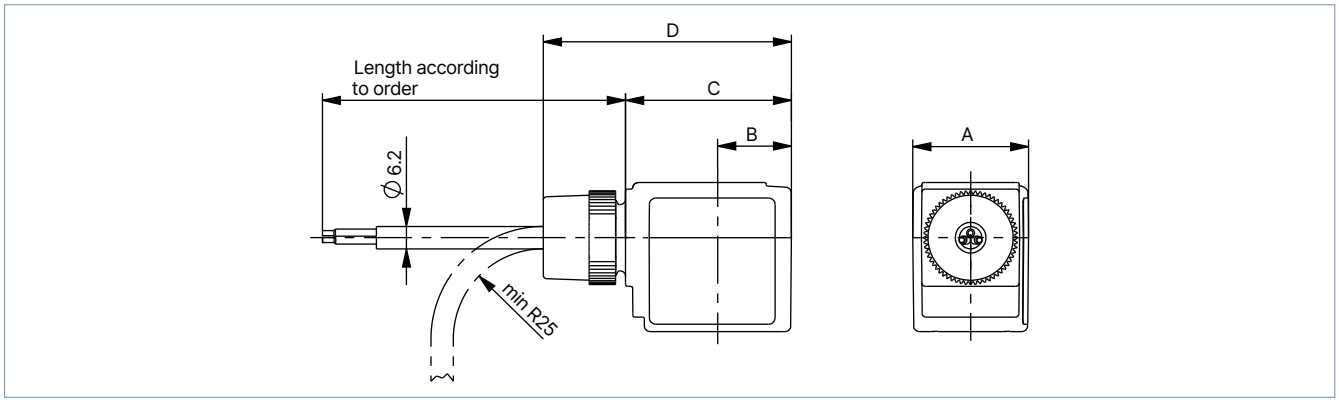
Variant	Variant	A	B	C	D		E		H	
					Standard, Ex mb, Ex eb mb[1.]	Ex ia	Standard, Ex mb, Ex eb mb[1.]	Ex ia	Standard, Ex mb, Ex eb mb[1.]	Ex ia
C	Stainless steel	35	94	25	35	40.7	45	51	165	173.8
C	Aluminium	25	84	15	35	40.7	45	51	155	163.8
H	Stainless steel	35	94	47	35	40.7	45	51	165	173.8
H	Aluminium	25	84	37	35	40.7	45	51	155	163.8
Z (impulse), L, N	Stainless steel	35	94	47	35	40.7	45	51	236	253.6
Z (impulse), L, N	Aluminium	35	94	47	35	40.7	45	51	236	253.6

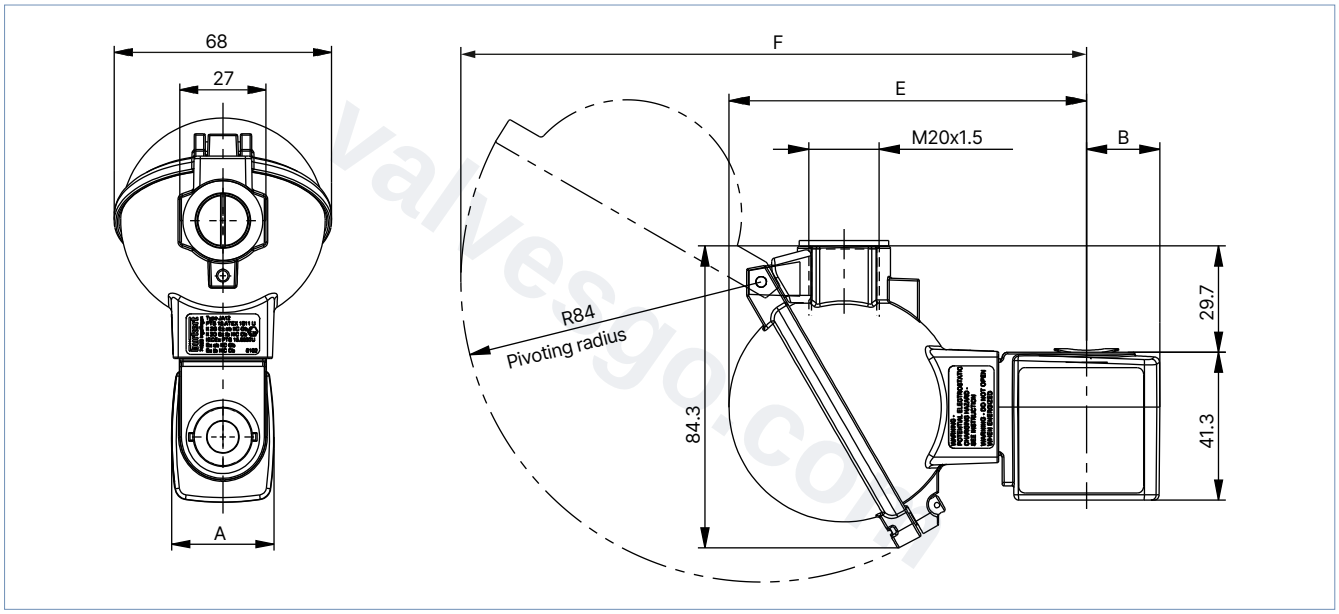
1.) For Ex eb mb coil dimensions see chapter "6.12. ATEX variant cable coil and terminal box" on page 32.

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6.12. ATEX variant cable coil and terminal box

Note:
Dimensions in mm





Coil size	A	B	C	D	E	F
5	32	20.5	46	66.8	99.8	174.7
6	40	23.5	52	74.8	102.8	177.7

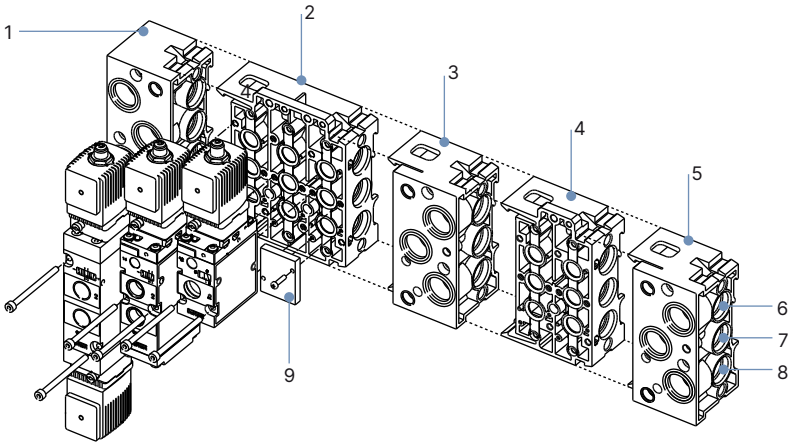
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7. Product design and assembly

7.1. Block assembly

Note:
Single modules or pre-assembled blocks can be ordered.



No.	Element
1	Connection module left
2	Base module 3-fold
3	Intermediate module: supply connections pierced for additional pressure supply or Connection module right: supply connections closed, thus enabling multiple operating pressures in a single block
4	Base module 2-fold
5	Connection module right
6	Supply connection: 3(R)
7	Supply connection: 1(P)
8	Supply connection: 5(S)
9	Cover plate for 3/2-way valve (to cover unused connections)

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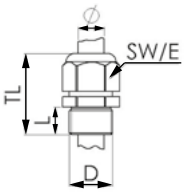
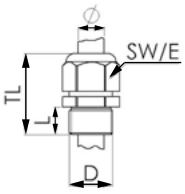
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8. Product accessories

8.1. Cable glands for ATEX/IECEx terminal box

Note:
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see "Cable glands for ATEX/IECEX terminal box" on page 61.

Description	Ex approval		Dimensions	
	Certification	Identification		
Ex cable gland, nickel-plated brass, 6...13 mm 	PTB 04 ATEX 1112 X, IECEx PTB 13.0027X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68		TL 29...37 mm L 6 mm D 20 mm SW 24 mm E 27 mm
Ex cable gland, polyamide, 7...13 mm 	PTB 13 ATEX 1015 X, IECEx PTB 13.0034X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68		TL 36...45 mm L 10 mm D 20 mm SW 24 mm E 28 mm

8.2. Special tool to turn the terminal box

Note:
This special tool is not included in the scope of delivery of the valve, see "Cable glands for ATEX/IECEX terminal box" on page 61.

Description	Components of the set
Set SC02-AC10 	• Special tool • Service manual

9. Ordering information

9.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

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9.2. Bürkert configurator



Bürkert configurator – Configuring products easily

You want to put together a product that is precisely tailored to your needs in just a few guided steps? Configure selected Bürkert products with our online configurator.

Configure product

9.3. Bürkert product filter



Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

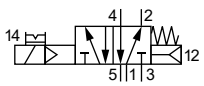
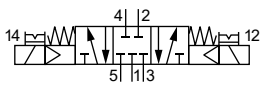
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9.4. Ordering chart standard variant

With plug form A

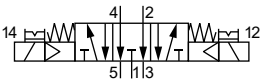
Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59 or separate data sheet for **Type 2518** ▶.
- Other variants without manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]			G ¼	NPT
Brass threaded bushing, socket 1, 3 and 5 can also be flanged; without cable plug									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	8.0	1300	24 DC	2	2...10	NBR and PUR (Polyamide)	Form A	132465	o. r.
			24 / 50/60					132466	o. r.
			110 / 50/60					132467	o. r.
			230 / 50/60					132468	o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked 	9.0	1300	24 DC	2	3...10	NBR (Aluminium)	Form A	132469	o. r.
			24 / 50/60					132470	o. r.
			110 / 50/60					132471	o. r.
			230 / 50/60					132472	o. r.

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Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]			G ¼	NPT
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	9.0	1300	24 DC	2	3...10	NBR (Alumin-ium)	Form A	132473	o. r.
			24 / 50/60					132474	o. r.
			110 / 50/60					132475	o. r.
			230 / 50/60					132476	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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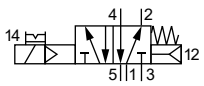
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With plug form B

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2507, form B according to industry standard" on page 60 or separate data sheet for **Type 2507** ▶.
- Other variants without manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]			G ¼	NPT
Brass threaded bushing, socket 1, 3 and 5 can also be flanged; without cable plug									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	8.0	1300	24 DC	1.7	2...10	NBR and PUR (Poly-amide)	Form B	20064574	20064575
			24/50					o. r.	o. r.
			24/60					o. r.	o. r.
			110/50					o. r.	o. r.
			120/60					o. r.	o. r.
			230/50					o. r.	o. r.
			240/60					o. r.	o. r.

o. r. = on request

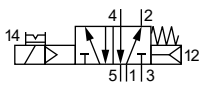
1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

With plug form C

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2516, form C according to DIN EN 175301-803" on page 60 or separate data sheet for **Type 2516** ▶.
- Other variants without manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]			G ¼	NPT
Brass threaded bushing, socket 1, 3 and 5 can also be flanged; without cable plug									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	8.0	1300	24 DC	1.7	2...10	NBR and PUR (Poly-amide)	Form C	20064570	20064571
			24/50					o. r.	o. r.
			24/60					o. r.	o. r.
			110/50					o. r.	o. r.
			120/60					o. r.	o. r.
			230/50					o. r.	o. r.
			240/60					o. r.	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

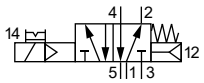
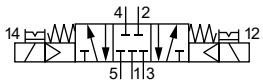
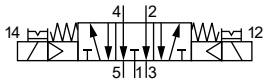
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9.5. Ordering chart Ex mb variant (with moulded cable)

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Other variants without manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]		G ¼	NPT
Brass threaded bushing, socket 1, 3 and 5 can also be flanged; with moulded cable, 3 m long[3.]								
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	8.0	1300	24 UC	3	2...10	NBR and PUR (Polyamide)	350457	o. r.
			110 UC				350460	o. r.
			230 UC				350461	o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked 	9.0	1300	24 UC	3	3...10	NBR (Aluminium)	350470	o. r.
			110 UC				o. r.	o. r.
			230 UC				o. r.	o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted 	9.0	1300	24 UC	3	3...10	NBR (Aluminium)	350471	o. r.
			110 UC				o. r.	o. r.
			230 UC				o. r.	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) Circuit function H (5/2-way) is available as an impulse variant on request.

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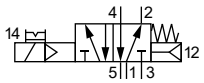
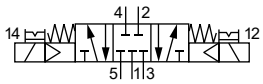
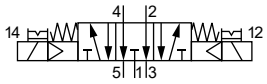
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9.6. Ordering chart Ex eb mb variant (with terminal box)

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Other variants without manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]		G ¼	NPT
Brass threaded bushing, socket 1, 3 and 5 can also be flanged; with terminal box without fuse								
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	8.0	1300	24 UC	3	2...10	NBR and PUR (Polyamide)	350458	o. r.
			110 UC				370160	o. r.
			230 UC				350462	o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	9.0	1300	24 UC	3	3...10	NBR (Aluminium)	o. r.	o. r.
			110 UC				o. r.	o. r.
			230 UC				o. r.	o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	9.0	1300	24 UC	3	3...10	NBR (Aluminium)	o. r.	o. r.
			110 UC				o. r.	o. r.
			230 UC				o. r.	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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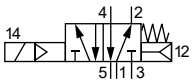
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9.7. Ordering chart Ex ia variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59 or separate data sheet for **Type 2518** ▶.
- Other variants with manual override are available on request.

Circuit function	Orifice	Q_{Nn} value air[1.]	Pressure range[2.]	Body material pilot valve	Seal material body	Material threaded bushing	Electrical connection	Article no.	
	[mm]	[l/min]	[bar]					G ¼	NPT
Socket 1 and 3 can also be flanged; without cable plug									
CF H 5/2-way solenoid valve Servo-controlled Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	8.0	1300	2...10	Stainless steel 1.4305	NBR and PUR (Polyamide)	Stainless steel	Form A	20000912	20005551
						Brass nickel plated		20000925	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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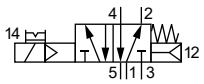
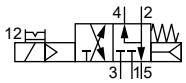
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9.8. Ordering chart NAMUR standard variant

With plug form A

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.

Circuit function	Orifice	Q_{Nn} value air 1.)	Voltage/ Frequency	Nominal power	Pressure range 2.)	Seal material body	Material connection sockets 3.)	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]				G ¼	NPT
Socket 1, 3 and 5 can also be flanged; without cable plug										
CF W 5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	6.0	900	24 DC	2	2...10	NBR and PUR	Stainless steel	Form A	131425	o. r.
			24 / 50/60						131426	o. r.
			110 / 50/60						131427	o. r.
			230 / 50/60						131428	o. r.
	6.0	900	24 DC	2	2...10	NBR and PUR	Brass nickel plated	Form A	131421	o. r.
			24 / 50/60						131422	o. r.
			110 / 50/60						131423	o. r.
			230 / 50/60						131424	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) When the connecting sockets are made of stainless steel, then the mounting screws are also made of stainless steel.

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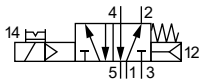
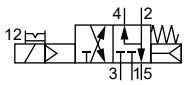
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With plug form B

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2507, form B according to industry standard" on page 60 or separate data sheet for **Type 2507** ▶.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.

Circuit function	Orifice	Q_{Nn} value air [1.)]	Voltage/ Frequency	Nominal power	Pressure range [2.)]	Seal material body	Material connection sockets [3.)]	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]				G ¼	NPT
Socket 1, 3 and 5 can also be flanged; without cable plug										
CF W 5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	6.0	900	24 DC	1.7	2...10	NBR and PUR	Stainless steel	Form B	o. r.	o. r.
			24 / 50						o. r.	o. r.
			24 / 60						o. r.	o. r.
			110 / 50						o. r.	o. r.
			120 / 60						o. r.	o. r.
			230 / 50						o. r.	o. r.
			240 / 60						o. r.	o. r.
	6.0	900	24 DC	1.7	2...10	NBR and PUR	Brass nickel plated	Form B	20048921	o. r.
			24 / 50						o. r.	o. r.
			24 / 60						o. r.	o. r.
			110 / 50						o. r.	o. r.
			120 / 60						o. r.	20048924
			230 / 50						o. r.	o. r.
			240 / 60						o. r.	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) When the connecting sockets are made of stainless steel, then the mounting screws are also made of stainless steel.

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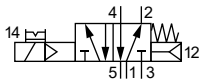
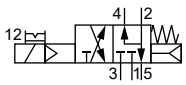
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With plug form C

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2516, form C according to DIN EN 175301-803" on page 60 or separate data sheet for **Type 2516** ▶.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.

Circuit function	Orifice	Q_{Nn} value air [1.)]	Voltage/ Frequency	Nominal power	Pressure range [2.)]	Seal material body	Material connection sockets [3.)]	Electrical connection	Article no.	
	[mm]	[l/min]	[V/Hz]	[W]	[bar]				G ¼	NPT
Socket 1, 3 and 5 can also be flanged; without cable plug										
CF W 5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	6.0	900	24 DC	1.7	2...10	NBR and PUR	Stainless steel	Form C	o. r.	o. r.
			24 / 50						o. r.	o. r.
			24 / 60						o. r.	o. r.
			110 / 50						o. r.	o. r.
			120 / 60						o. r.	o. r.
			230 / 50						o. r.	o. r.
			240 / 60						o. r.	o. r.
	6.0	900	24 DC	1.7	2...10	NBR and PUR	Brass nickel plated	Form C	20048920	o. r.
			24 / 50						o. r.	o. r.
			24 / 60						o. r.	o. r.
			110 / 50						o. r.	o. r.
			120 / 60						o. r.	20064576
			230 / 50						o. r.	o. r.
			240 / 60						o. r.	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) When the connecting sockets are made of stainless steel, then the mounting screws are also made of stainless steel.

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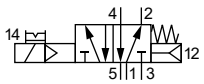
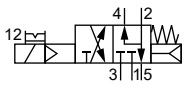
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9.9. Ordering chart NAMUR Ex mb variant (with moulded cable)

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air [1.]	Voltage/ Frequency	Nominal power	Pressure range [2.]	Seal material body	Material connection bushing [3.]	Weight	Article no.	
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]			[g]	G ¼	NPT
CF W	**Variant Ex mb, with moulded 3 m cable**										
5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	G ¼	6.0	900	24 UC	3	2...10	NBR and PUR	Stainless steel	650	350476	o. r.
				110 UC						350483	o. r.
				230 UC						350486	o. r.
	G ¼		900	24 UC	3	2...10		Brass nickel plated	650	350474	o. r.
				110 UC						350484	o. r.
				230 UC						350487	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) When the connecting sockets are made of stainless steel, then the mounting screws are also made of stainless steel.

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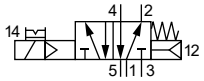
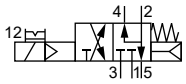
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9.10. Ordering chart NAMUR Ex eb mb variant (with terminal box)

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air [1.]	Voltage/ Frequency	Nominal power	Pressure range [2.]	Seal material body	Material connection bushing [3.]	Weight	Article no.	
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]			[g]	G ¼	NPT
CF W	**Variant Ex eb mb, with terminal box without fuse**										
5/2- or 3/2-way solenoid valve With manual override With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	G ¼	6.0	900	24 UC	3	2...10	NBR and PUR	Stainless steel	690	350478	o. r.
				110 UC						o. r.	o. r.
				230 UC						350489	o. r.
	G ¼		900	24 UC	3	2...10		Brass nickel plated	690	350477	o. r.
				110 UC						350485	o. r.
				230 UC						350488	o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

3.) When the connecting sockets are made of stainless steel, then the mounting screws are also made of stainless steel.

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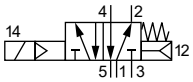
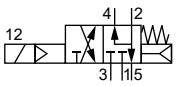
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9.11. Ordering chart NAMUR Ex ia variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- Other variants with manual override are available on request.
- All valves listed in the table should be used in both circuit function C and circuit function H. A removable plate that enables use in both circuit functions comes with the devices.
- All valves possess a removable plate and plug contacts according to DIN EN 175301 - 803 shape A (previously DIN 43650), without cable plug.

Circuit function	Orifice	Q_{Nn} value air 1.)	Pressure range 2.)	Body material pilot valve	Seal material body	Material threaded bushing	Weight	Article no.	
	[mm]	[l/min]	[bar]				[g]	G ¼	NPT
CF W 5/2- or 3/2-way solenoid valve With changeover plate 5/2-way: Pressurisation via port (1). Therefore one of the two ports (2) or (4) is under pressure.  3/2-way: Pressurisation via port (1), normally closed  	6.0	900	2...10	Stainless steel 1.4305	NBR and PUR (Polyamide)	Stainless steel	670	20000899	o. r.
						Brass nickel plated		20000907	20000932

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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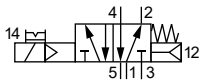
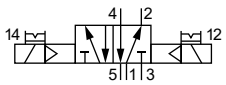
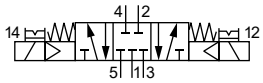
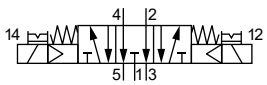
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9.12. Ordering chart for extended temperature range

Standard, ematalised aluminium variant

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in aluminium with manual override									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1800	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	2.5...10	FKM, NBR	680	231386 231387 231388 231389
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	2100	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	2.5...10	FKM, NBR	990	231390 231391 231392 231393
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	G ¼	9.0	1500	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	2.5...10	FKM, NBR	1060	231394 231395 231396 231397
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	G ¼	9.0	1500	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	2.5...10	FKM, NBR	1060	231399 231400 231401 231402

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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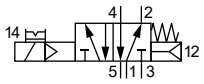
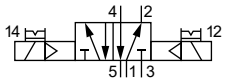
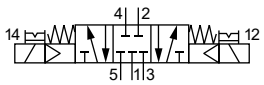
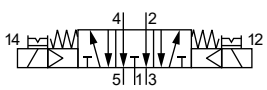
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Standard, stainless steel variant

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in stainless steel with manual override									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1980	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...10	PU, NBR	1370	231403 231404 231405 231406
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1920	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...10	PU, NBR	1680	231407 231408 231409 231410
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	G ¼	9.0	1770	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...10	PU, NBR	1680	231411 231412 231413 231414
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	G ¼	9.0	1770	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...10	PU, NBR	1680	231415 231416 231417 231418

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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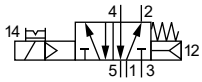
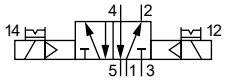
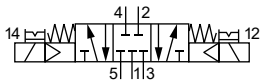
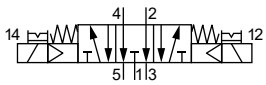
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9.13. Ordering chart Ex mb variant for extended temperature range

Ematalised aluminium variant

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "9.19. Ordering chart accessories" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in aluminium with manual override, with moulded 3 m cable[1.]									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	9.0	1800	24 UC 110 UC 230 UC	2	2.5...10	FKM, NBR	680	350466 o. r. 350468
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	9.0	2100	24 DC 24 / 50/60 110 / 50/60	2	2.5...10	FKM, NBR	990	350500 o. r. o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked 	G ¼	9.0	1500	24 DC 24 / 50/60 110 / 50/60	2	2.5...10	FKM, NBR	1060	o. r. o. r. o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted 	G ¼	9.0	1500	24 DC 24 / 50/60 110 / 50/60	2	2.5...10	FKM, NBR	1060	350472 o. r. o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

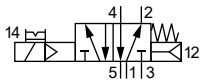
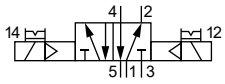
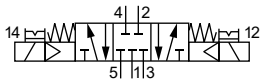
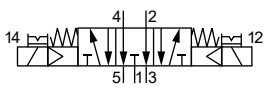
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Stainless steel variant

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in stainless steel with manual override, with moulded 3 m cable[1.]									
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1980	24 UC 110 UC 230 UC	3	2.5...10	PU, NBR	1370	o. r. o. r. 350467
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1920	24 UC 110 UC 230 UC	3	2.5...10	PU, NBR	1680	350499 o. r. o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	G ¼	9.0	1170	24 UC 110 UC 230 UC	3	2.5...10	PU, NBR	1680	o. r. o. r. o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	G ¼	9.0	1770	24 UC 110 UC 230 UC	3	2.5...10	PU, NBR	1680	o. r. o. r. o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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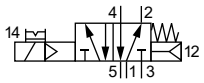
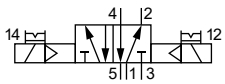
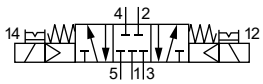
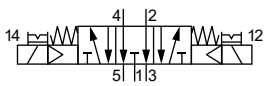
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9.14. Ordering chart Ex ia variant for extended temperature range

Ematalised aluminium variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Nominal resistance coil	Minimum terminal voltage	Minimum switching current	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[Ohm]	[V]	[mA]	[bar]		[g]	
Valves in aluminium with manual override										
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1800	310	9	29	2.5...10	FKM, NBR	825	20000894
				481	11	23				20000884
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	2100	310	9	29	2.5...10	FKM, NBR	1280	20000883
				481	11	23				20000891
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	G ¼	9.0	1500	310	9	29	2.5...10	FKM, NBR	1350	o. r.
				481	11	23				o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	G ¼	9.0	1500	310	9	29	2.5...10	FKM, NBR	1350	o. r.
				481	11	23				o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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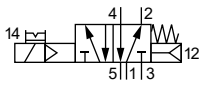
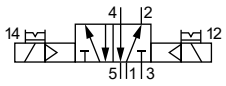
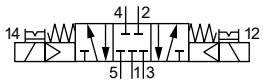
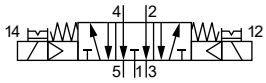
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Stainless steel variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Nominal resistance coil	Minimum terminal voltage	Minimum switching current	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[Ohm]	[V]	[mA]	[bar]		[g]	
Valves in stainless steel with manual override										
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1980	310 481	9 11	29 23	3...10	PU, NBR	1520	20000888 o. r.
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	9.0	1920	310 481	9 11	29 23	3...10	PU, NBR	1970	20000889 o. r.
CF L 5/3-way solenoid valve Servo-controlled, with manual override In middle position all ports locked  	G ¼	9.0	1770	310 481	9 11	29 23	3...10	PU, NBR	1970	o. r. o. r.
CF N 5/3-way solenoid valve Servo-controlled, with manual override In middle position ports 2 and 4 exhausted  	G ¼	9.0	1770	310 481	9 11	29 23	3...10	PU, NBR	1970	o. r. o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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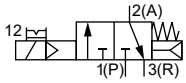
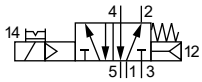
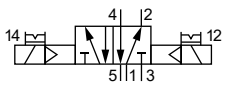
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9.15. Ordering chart NAMUR standard variant for extended temperature range

Ematalised aluminium variant

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in aluminium with manual override									
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ¼	6.0	780	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...8	FKM, NBR	540	231469 231470 231471 231472
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	800	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...8	FKM, NBR	540	231473 231474 231475 231476
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	900	24 DC 24 / 50/60 110 / 50/60 230 / 50/60	2	3...8	FKM, NBR	540	231477 231478 231479 231480

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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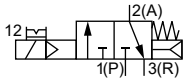
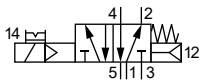
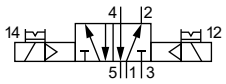
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Stainless steel variant

Note:

- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in stainless steel with manual override									
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ¼	6.0	1280	24 DC	2	3...10	PU, NBR	540	231481
				24 / 50/60					231482
				110 / 50/60					231483
				230 / 50/60					231484
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	1060	24 DC	2	3...10	PU, NBR	540	231485
				24 / 50/60					231486
				110 / 50/60					231487
				230 / 50/60					231488
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	1050	24 DC	2	3...10	PU, NBR	540	231489
				24 / 50/60					231490
				110 / 50/60					231491
				230 / 50/60					231492

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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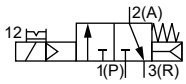
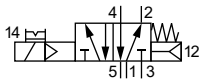
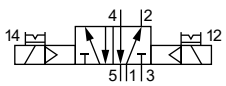
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9.16. Ordering chart NAMUR Ex mb variant for extended temperature range

Ematalised aluminium variant

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in aluminium with manual override									
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ¼	6.0	780	24 UC	3	3...8	FKM, NBR	540	o. r.
				110 UC					o. r.
				230 UC					o. r.
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	800	24 UC	3	3...8	FKM, NBR	540	350455
				110 UC					o. r.
				230 UC					o. r.
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	900	24 UC	3	3...8	FKM, NBR	540	350497
				110 UC					o. r.
				230 UC					o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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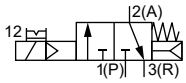
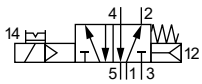
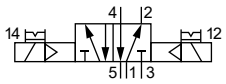
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Stainless steel variant

Note:

- The article numbers listed are designed for temperature class T5. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "9.19. Ordering chart accessories" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Voltage/ Frequency	Nominal power	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[V/Hz]	[W]	[bar]		[g]	
Valves in stainless steel with manual override									
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ¼	6.0	1280	24 UC	3	3...10	PU, NBR	960	o. r.
				110 UC					o. r.
				230 UC					o. r.
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	1060	24 UC	3	3...10	PU, NBR	960	o. r.
				110 UC					o. r.
				230 UC					o. r.
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	1050	24 UC	3	3...10	PU, NBR	1260	o. r.
				110 UC					o. r.
				230 UC					o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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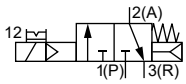
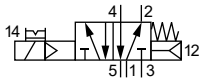
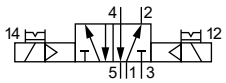
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9.17. Ordering chart NAMUR Ex ia variant for extended temperature range

Ematalised aluminium variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Nominal resistance coil	Minimum terminal voltage	Minimum switching current	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[Ohm]	[V]	[mA]	[bar]		[g]	
Valves in aluminium with manual override										
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	G ¼	6.0	780	310	9	29	3...8	FKM, NBR	690	20000896 🛒
				481	11	23				20000890 🛒
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	800	310	9	29	3...8	FKM, NBR	690	20000882 🛒
				481	11	23				o. r.
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	G ¼	6.0	900	310	9	29	3...8	FKM, NBR	1140	20000895 🛒
				481	11	23				20000886 🛒

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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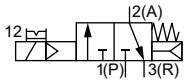
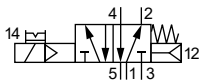
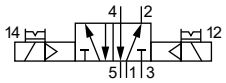
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Stainless steel variant

Note:

- The article numbers listed are designed for temperature class T6. Other temperature classes are available on request.
- Please note that the cable plug must be ordered separately, see "Cable plug Type 2518, form A according to DIN EN 175301-803" on page 59 or separate data sheet for **Type 2518** ▶.
- All units are supplied with a stainless steel dome nut as standard. This dome nut protects the exhaust air channel from penetrating humidity.

Circuit function	Threaded port connection	Orifice	Q_{Nn} value air[1.]	Nominal resistance coil	Minimum terminal voltage	Minimum switching current	Pressure range[2.]	Seal material body	Weight	Article no.
	[inch]	[mm]	[l/min]	[Ohm]	[V]	[mA]	[bar]		[g]	
Valves in stainless steel with manual override										
CF C 3/2-way solenoid valve Servo-controlled, with manual override Normally closed  	G ¼	6.0	1280	310	9	29	3...10	PU, NBR	1100	o. r.
				481	11	23				o. r.
CF H 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	6.0	1060	310	9	29	3...10	PU, NBR	1100	o. r.
				481	11	23				o. r.
CF Z 5/2-way solenoid valve Servo-controlled, impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.  	G ¼	6.0	1050	310	9	29	3...10	PU, NBR	1550	o. r.
				481	11	23				o. r.

o. r. = on request

1.) Measurement at + 20 °C, 6 bar at valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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9.18. Ordering chart pneumatic module Type MP07

Note:
Valves with NAMUR flange, with Ex ia coil or Ex variants with terminal boxes are not suitable for the block assembly.

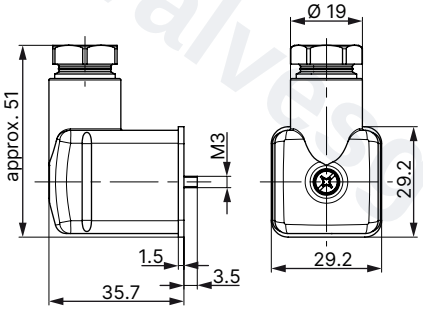
Variant	Article no.
Connection module right, G ½	635331
Connection module left, G ½	635324
Intermediate module	637505
Base module 2-fold universal (for 3/2-, 5/2- and 5/3-way)	635319
Base module 3-fold universal (for 3/2-, 5/2- and 5/3-way)	635343
Cover plate for 5/2-way and 5/3-way (to cover unused valve positions)	635335
Cover plate for 3/2-way (to cover unused connections)	635337

9.19. Ordering chart accessories

Cable plug Type 2518, form A according to DIN EN 175301 - 803

Note:

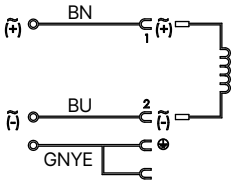
- Dimensions in mm
- For further variants see data sheet **Type 2518** ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (AC/DC)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		With rectifier, LED and varistor	12...24 V AC/DC	314816
		Without wiring (AC/DC) with silicone seal for higher ambient temperature, e.g. steam variant (NA07)	0...250 V AC/DC	361687

Cable plug Type 2513, form A according to DIN EN 175301 - 803

Note:

- The cable plug Type 2513 meets the requirements of ATEX Cat. 3 GD in assembly with a Bürkert solenoid valve.
- Refer to data sheet **Type 2513** ▶ for more information about the cable plug.

Cable plug	Circuit diagram	Cable length [mm]	Article no.
		12000	260893
		5000	260892
		3000	260891
		300	260890

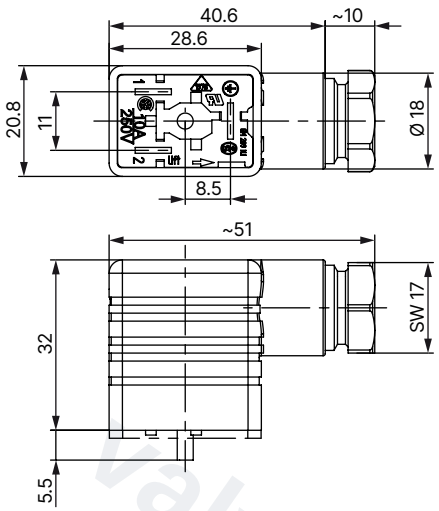
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Cable plug Type 2507, form B according to industry standard

Note:

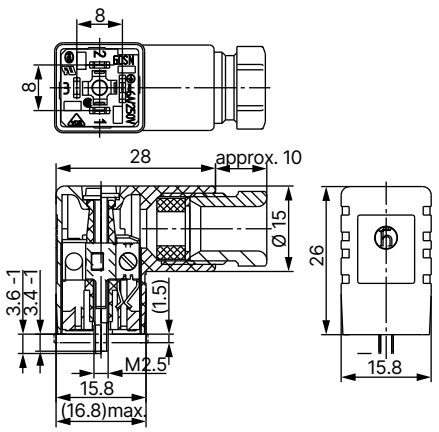
- Dimensions in mm
- The delivery of cable plug includes a flat seal and a fastening screw.
- Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring (standard)	2...250 V AC/DC	423845
		With LED	24 V AC/DC	423849
		With LED and free-wheeling diode	12...24 V AC/DC	423851
		With rectifier, LED and varistor	12...24 V AC/DC	423853
			2...250 V AC/DC	423854

Cable plug Type 2516, form C according to DIN EN 175301-803

Note:

- Dimensions in mm
- The delivery of cable plug includes a flat seal and a fastening screw.
- For further variants see data sheet **Type 2516** ▶.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without wiring	0...250 V AC/DC	303141
		With LED	12...24 V AC/DC	303145
		With LED and varistor	12...24 V AC/DC	303148
		With rectifier, LED and varistor	12...24 V AC/DC	303142

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Cable glands for ATEX/IECEX terminal box

Note:

- A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge.
- Refer to "8.1. Cable glands for ATEX/IECEx terminal box" on page 34 for more information about Ex cable glands.
- Refer to "8.2. Special tool to turn the terminal box" on page 34 for more information about special tool.

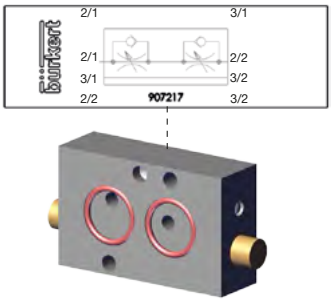
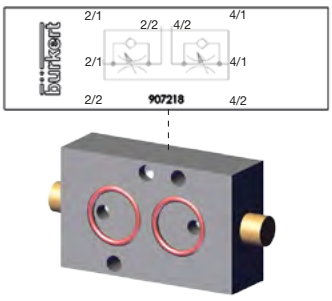
Description	Article no.
Ex cable gland, nickel-plated brass, 6...13 mm [1.]	773278
Ex cable gland, polyamide, 7...13 mm [1.]	773277
Set SC02-AC10: special tool [2.] incl. service manual	293488

1.) Cable diameter
2.) Not included in the scope of delivery of the valve

Throttle plate for NAMUR variant

With Type 6519, it is possible to throttle the exhaust air at the exhaust connections R or S. This functionality reduces the travel speed of the connected actuators (process valves, cylinders, etc.). The throttling function can be achieved either by using the accessories available from Bürkert or by using commercially available throttles suitable for the process environment. In this case, the throttle is mounted on the threaded connection of the housing (connection 3; 5).

Note:
The throttle plate is installed between the actuator and the NAMUR valve.

Accessories	Description	Variant	Article no.
	For regulating the supply air or exhaust air from **single-acting** pneumatic actuators	Throttle plate for 3/2-way NAMUR valves Anodised aluminium, NBR seal	907217
	For regulating the supply air or exhaust air from **double-acting** pneumatic actuators.	Throttle plate for 5/2-way NAMUR valves Anodised aluminium, NBR seal	907218

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Converting plate for NAMUR variant

The converting plate with silencer is suitable for use with 5/2- and 5/3-way NAMUR valves as a 3/2-; 3/3-way valve. The function NC can be changed to NO by turning the converting plate by 180°. If a throttling is required, a standard throttle must be installed at threaded connection R/5 or S/3.

Note:
The converting plate is installed between the actuator and the NAMUR valve.

Accessories	Description	Variant	Article no.
	Converting plate NAMUR	Converting plate for 3/2-way NAMUR valves Anodised aluminium, NBR seal	907216

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