

STAINLESS STEEL

NAMUR solenoid operated valves Series AX1N



Find out our
key products



Solution for most applications



Easy and intuitive choice



Excellent value for money



Wide availability



Fast delivery



Main features and certifications

Series of stainless steel spool valves, with Namur interface. Available in size 1/4", solenoid operated also with external air pilot, Ø 9 mm or Ø 13 mm plunger, in functions: 3/2 solenoid/spring normally closed, 3/2 solenoid/solenoid, 5/2 solenoid/spring and 5/2 solenoid/solenoid.

Supplied as standard with HNBR seals for low temperature (down to -25°), in compliance to Reach and RoHS directives, SIL certified, and with valve body conforming to 2014/34/EU ATEX Directive, in classification Ex h..

Coils and connectors to be ordered separately. For solenoid operated valves with ATEX coil and connector, in different classification, see from page 5.150.1.



Series AX1N 1/4" 3/2 Solenoid/Spring

from page 5.122.10



Series of stainless steel spool valves, with Namur interface, size 1/4", in function 3/2 solenoid/spring normally closed.

Valve body conforming to 2014/34/UE ATEX Directive in classification:

II 2G Ex h IIC T5 Gb

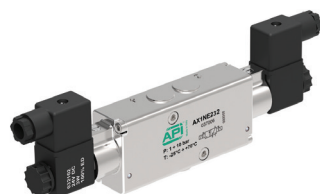
II 2D Ex h IIIC T100°C Db

Coils and connectors to be ordered separately.



Series AX1N 1/4" 3/2 Solenoid/Solenoid

from page 5.122.20



Series of stainless steel spool valves, with Namur interface, size 1/4", in function 3/2 solenoid/solenoid.

Valve body conforming to 2014/34/UE ATEX Directive in classification:

II 2G Ex h IIC T5 Gb

II 2D Ex h IIIC T100°C Db

Coils and connectors to be ordered separately.



Series AX1N 1/4" 5/2 Solenoid/Spring

from page 5.122.40



Series of stainless steel spool valves, with Namur interface, size 1/4", in function 5/2 solenoid/spring.

Valve body conforming to 2014/34/UE ATEX Directive in classification:

II 2G Ex h IIC T5 Gb

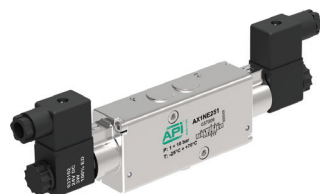
II 2D Ex h IIIC T100°C Db

Coils and connectors to be ordered separately.



Series AX1N 1/4" 5/2 Solenoid/Solenoid

from page 5.122.50



Series of stainless steel spool valves, with Namur interface, size 1/4", in function 5/2 solenoid/solenoid.

Valve body conforming to 2014/34/UE ATEX Directive in classification:


II 2G Ex h IIC T5 Gb

II 2D Ex h IIIC T100°C Db

Coils and connectors to be ordered separately.



Options

Description	Symbol	Suffix
FKM seals -10°C ÷ +150°C		V
Special versions on request		/S

The options, when this is possible, can be combined with each other. For standard options matching see the table below. For code key see from page 5.120.4

Options matching

Series	Size	Function	ATEX	Standard options matching
				V
AX1NE	1/4"	3/2 - 5/2	Standard	●

Key

● allowed matching; - not allowed matching.

Code key

Series	Actuation		Size	Function	Options
AX1N	E		2	50	
AX1N	E = Electric	= Ø 9 mm plunger G ⁽¹⁾ = Ø 13 mm plunger	2 = 1/4" Gas 2N = 1/4" NPT	30 = 3/2 Normally closed 32 = 3/2 Solenoid/Solenoid 50 = 5/2 Solenoid/Spring 51 = 5/2 Solenoid/Solenoid	V = FKM seals

ATEX note



Valves bodies of series AX1N are supplied as standard according to 214/34/EU ATEX Directive, in classification:

CE Ex II 2G Ex h IIC T5 Gb
II 2D Ex h IIC T100°C Db

WARNING: by combining an ATEX valve body with a standard coil and/or connector, the resulting solenoid valves will not comply with 2014/34/EU ATEX Directive, in any classification.

For ATEX coils and connectors, see page 5.150.1

For further information on the ATEX 2014/34/EU Directive, on classifications and protections, see from page III.1

How to order

Series	Actuation	Size	Function
AX1N	E	2	50

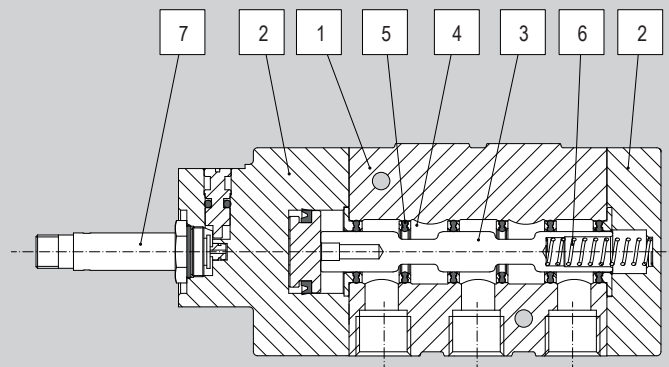
Notes

For standard materials, see page 5.120.5

(1) The actuations with Ø 13 mm plunger (EG) are compatible only with ASA34 coils (with increased voltage) for applications with high working pressures (up to 12 bar).

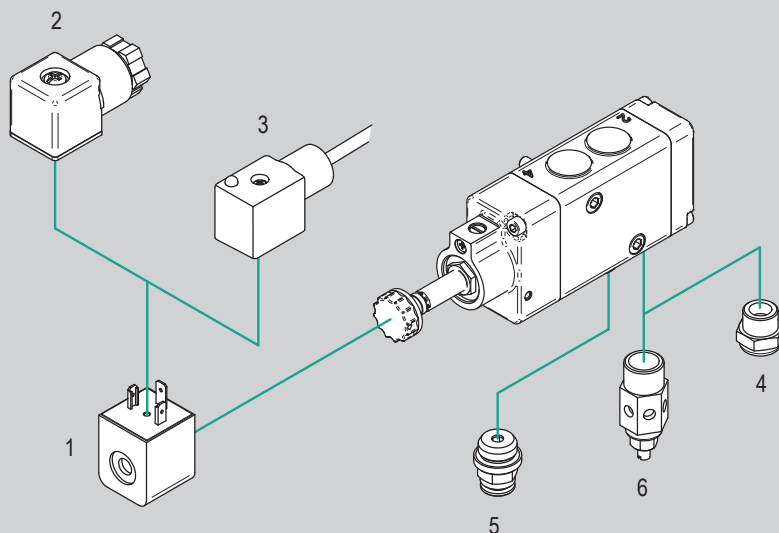
Coils and connectors to be ordered separately, see page 5.124.1

Standard materials



Position	Description	Material	
		1/4"	
		AX1E..	AX1K..
1	Body	Stainless Steel AISI 316L	
2	Covers	Stainless Steel AISI 316L	
3	Spool	Hard anodized aluminium	
4	Distancers	Technopolymer	
5	Seals	HNBR	
6	Spring	Stainless Steel	
7	Plunger	Stainless Steel	

Accessories



N.	Item	Description	Compliance	Matching		Code key page	Data sheet page
				1/4"			
				AX1NE..	AX1NEG..		
1	ASA12..	Coil	EN60204 VDE0580	●	-	5.124.1	2.315.10
	ASA2..		EN60204.1 VDE0580	●	-		2.315.11
	ASA34..		EN175301-803-A	-	●	2.315.14	
	ASA12../ATEXII3	ATEX coil	2014/34/EU	●	-	5.155.2	
	ASA2../ATEXII2			●	-	5.156.2	
	ASA4../ATEXII2			●	-	5.157.2	
2	A12209..	Connector	VDE 0110-1/89	●	-	5.124.1	2.318.12
	A18209..			●	●		2.318.14
	A122../ATEX	ATEX connector	2014/34/EU	●	-	5.155.3	
3	A12209..K	Cabled connector	VDE 0110-1/89	●	-	5.124.1	2.318.12
	A18209..K			●	●		2.318.14
4	AFEX.. AEX.. AEPX.. AERX	Stainless Steel silencers	-	●	●	5.390.1	
5	RX..	Stainless Steel push-in fittings	UNI ISO 228/1 UNI ISO7/1 ISO R/232	●	●	5.302.1	
5	AVRX..	Stainless Steel silenced regulators	-	●	●	5.375.1	

Key

● matching accessory; - not matching accessory

Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 3/2 solenoid/spring



Main features

Version	Actuation	Code	Item	Symbol
3/2 Normally closed	Electric Ø9	037029X	AX1NE230	
	Electric Ø13	*	AX1NEG230	



Technical data

Version	3/2 Normally closed	
Code	037029X	*
Item	AX1NE230	AX1NEG230
Size	1/4"	
Fluid	Compressed air with or without lubrication. Lubrication, if started, must be continued.	
Pressure range	1,5 ÷ 10 bar	1,5 ÷ 12 bar
Temperature range	-25°C ÷ +70°C (standard)	-10°C ÷ +150°C (V)
Plunger Ø	9 mm	13 mm
Orifice Ø	8 mm	
Flow at 6 bar with ΔP 1 bar	1.100 Nl/min.	
ATEX compliance	II 2G Ex h IIC T5 Gb II 2D Ex h IIIC T100°C Db	
Mounting	In every position	
Manual override	Bistable	

Notes

Coils and connectors to be ordered separately.

For matching between valve body and coils, see page 5.120.6

For coils ASA12, ASA2 and ASA34 (with increased voltage, only for actuation EG) and for connectors A122 and A182 see page 5.124.1

For ATEX coils and connectors see from page 5.150.1

WARNING: by combining the ATEX valve body with a standard coil and/or connector, result in the assembly not to comply with 2014/34/EU ATEX Directive, in any classification

* For code, please contact the sales department

For code and availability of NPT threads, please contact the sales department

Stainless Steel NAMUR solenoid operated valves series AX1N

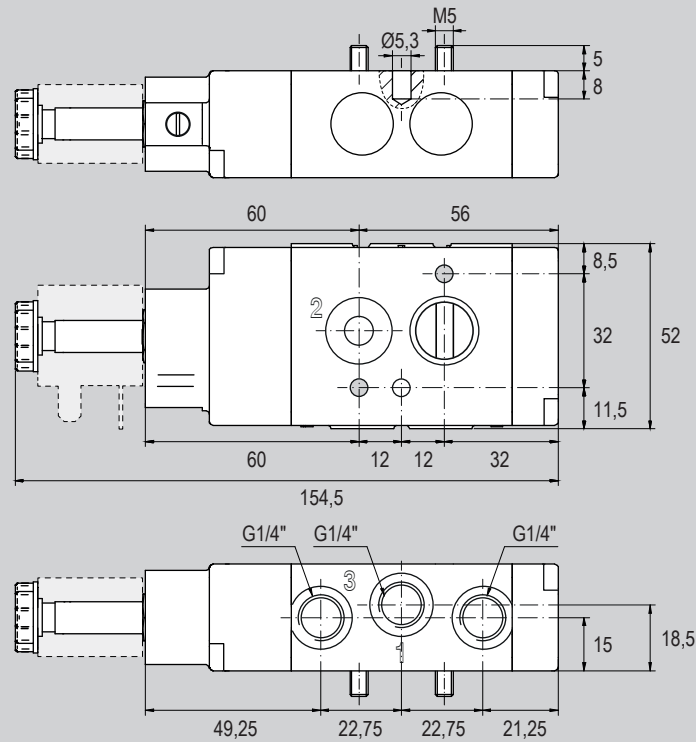
1/4", 3/2 solenoid/spring



Standard dimensions

CE ϵ_x II 2G Ex h IIC T5 Gb
II 2D Ex h IIC T100°C Db

Type: 3/2 N.C.



Version	Actuation	Symbol	Code	Item
1/4" 3/2 Normally closed	Electric Ø 9		037029X	AX1NE230
	Electric Ø 13		*	AX1NEG230

*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1NE2N.. and AX1NEG2N..), please contact the sales department.

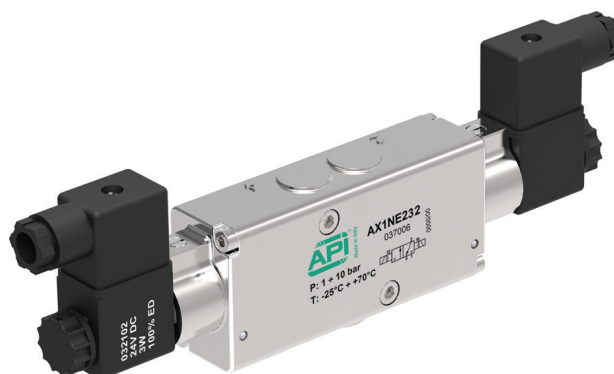
Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 3/2 solenoid/solenoid



Main features

Version	Actuation	Code	Item	Symbol
3/2 solenoid/solenoid	Electric Ø9	037030X	AX1NE232	
	Electric Ø13	*	AX1NEG232	



Technical data

Version	3/2 solenoid/solenoid	
Code	037030X	*
Item	AX1NE232	AX1NEG232
Size	1/4"	
Fluid	Compressed air with or without lubrication. Lubrication, if started, must be continued.	
Pressure range	1 ÷ 10 bar	1 ÷ 12 bar
Temperature range	-25°C ÷ +70°C (standard)	-10°C ÷ +150°C (V)
Plunger Ø	9 mm	13 mm
Orifice Ø	8 mm	
Flow at 6 bar with ΔP 1 bar	1.100 Nl/min.	
ATEX compliance	II 2G Ex h IIC T5 Gb II 2D Ex h IIIC T100°C Db	
Mounting	In every position (vertical not recommended when in presence of vibrations)	
Manual override	Bistable	

Notes

Coils and connectors to be ordered separately.

For matching between valve body and coils, see page 5.120.6

For coils ASA12, ASA2 and ASA34 (with increased voltage, only for actuation EG) and for connectors A122 and A182 see page 5.124.1

For ATEX coils and connectors see from page 5.150.1

WARNING: by combining the ATEX valve body with a standard coil and/or connector, result in the assembly not to comply with 2014/34/EU ATEX Directive, in any classification

* For code, please contact the sales department

For code and availability of NPT threads, please contact the sales department

Stainless Steel NAMUR solenoid operated valves series AX1N

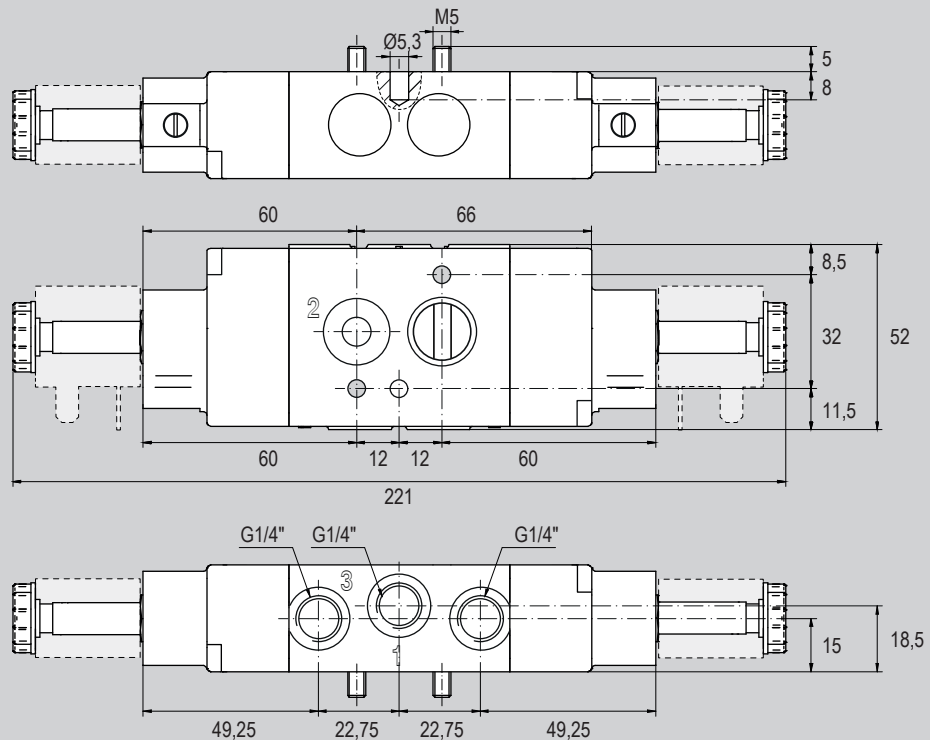
1/4", 3/2 solenoid/solenoid



Standard dimensions

Type: 3/2 solenoid/solenoid

CE II 2G Ex h IIC T5 Gb
II 2D Ex h IIC T100°C Db



Version	Actuation	Symbol	Code	Item
1/4" 3/2 solenoid/solenoid	Electric Ø 9		037030X	AX1NE232
	Electric Ø 13		*	AX1NEG232

*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1NE2N.. and AX1NEG2N..), please contact the sales department.

Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 5/2 solenoid/spring



Main features

Version	Actuation	Code	Item	Symbol
5/2 solenoid/spring	Electric Ø9	037008X	AX1NE250	
	Electric Ø13	*	AX1NEG250	



Technical data

Version	5/2 solenoid/spring	
Code	037008X	*
Item	AX1NE250	AX1NEG250
Size	1/4"	
Fluid	Compressed air with or without lubrication. Lubrication, if started, must be continued.	
Pressure range	1,5 ÷ 10 bar	1,5 ÷ 12 bar
Temperature range	-25°C ÷ +70°C (standard)	-10°C ÷ +150°C (V)
Plunger Ø	9 mm	13 mm
Orifice Ø	8 mm	
Flow at 6 bar with ΔP 1 bar	1.100 Nl/min.	
ATEX compliance	II 2G Ex h IIC T5 Gb II 2D Ex h IIIC T100°C Db	
Mounting	In every position	
Manual override	Bistable	

Notes

Coils and connectors to be ordered separately.

For matching between valve body and coils, see page 5.120.6

For coils ASA12, ASA2 and ASA34 (with increased voltage, only for actuation EG) and for connectors A122 and A182 see page 5.124.1

For ATEX coils and connectors see from page 5.150.1

WARNING: by combining the ATEX valve body with a standard coil and/or connector, result in the assembly not to comply with 2014/34/EU ATEX Directive, in any classification

* For code, please contact the sales department

For code and availability of NPT threads, please contact the sales department

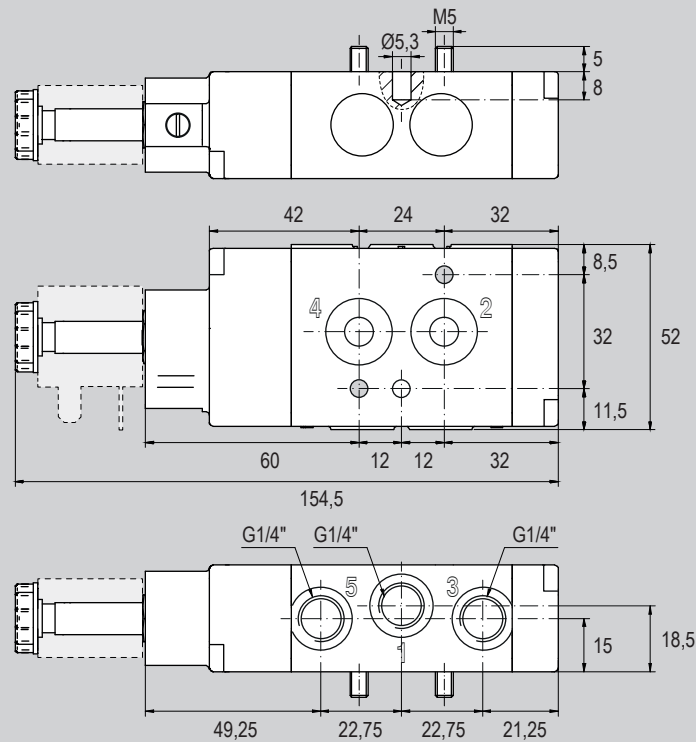
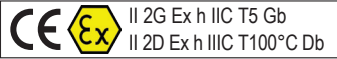
Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 5/2 solenoid/spring



Standard dimensions

Type: 5/2 solenoid/spring



Version	Actuation	Symbol	Code	Item
1/4" 5/2 solenoid/spring	Electric Ø 9		037008X	AX1NE250
	Electric Ø 13		*	AX1NEG250

*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1NE2N.. and AX1NEG2N..), please contact the sales department.

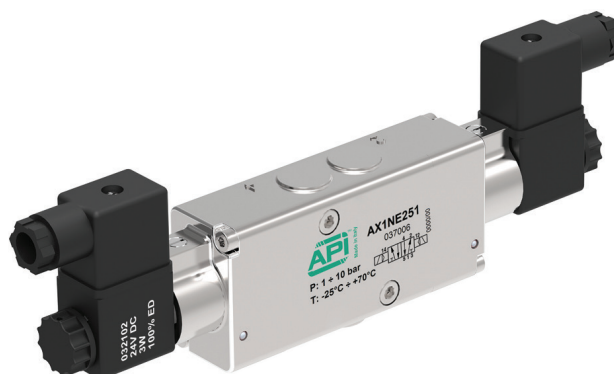
Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 5/2 solenoid/solenoid



Main features

Version	Actuation	Code	Item	Symbol
5/2 solenoid/solenoid	Electric Ø9	037031X	AX1NE251	
	Electric Ø13	*	AX1NEG251	



Technical data

Version	5/2 solenoid/solenoid	
Code	037031X	*
Item	AX1NE251	AX1NEG251
Size	1/4"	
Fluid	Compressed air with or without lubrication. Lubrication, if started, must be continued.	
Pressure range	1 ÷ 10 bar	1 ÷ 12 bar
Temperature range	-25°C ÷ +70°C (standard)	-10°C ÷ +150°C (V)
Plunger Ø	9 mm	13 mm
Orifice Ø	8 mm	
Flow at 6 bar with ΔP 1 bar	1.100 Nl/min.	
ATEX compliance	II 2G Ex h IIC T5 Gb II 2D Ex h IIIC T100°C Db	
Mounting	In every position (vertical not recommended when in presence of vibrations)	
Manual override	Bistable	

Notes

Coils and connectors to be ordered separately.

For matching between valve body and coils, see page 5.120.6

For coils ASA12, ASA2 and ASA34 (with increased voltage, only for actuation EG) and for connectors A122 and A182 see page 5.124.1

For ATEX coils and connectors see from page 5.150.1

WARNING: by combining the ATEX valve body with a standard coil and/or connector, result in the assembly not to comply with 2014/34/EU ATEX Directive, in any classification

* For code, please contact the sales department

For code and availability of NPT threads, please contact the sales department

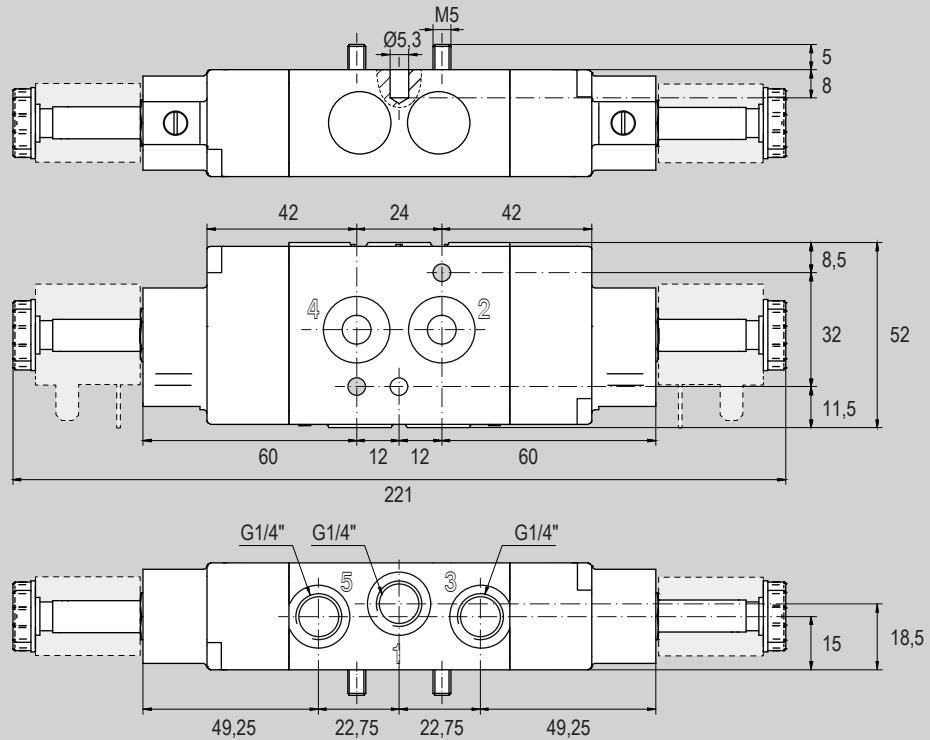
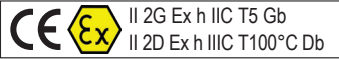
Stainless Steel NAMUR solenoid operated valves series AX1N

1/4", 5/2 solenoid/solenoid



Standard dimensions

Type: 5/2 solenoid/solenoid




Version	Actuation	Symbol	Code	Item
1/4" 5/2 solenoid/solenoid	Electric Ø 9		037031X	AX1NE251
	Electric Ø 13		*	AX1NEG251


*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1NE2N.. and AX1NEG2N..), please contact the sales department.


Coils ASA12..

	Voltage	Code	Item	Matching
	12V DC	032100	ASA1201200	AX1NE
	12V AC	032101	ASA1201250	
	24V DC	032102	ASA1202400	
	24V AC	032103	ASA1202450	
	48V AC	032104	ASA1204850	
	110V AC	032105	ASA1211050	
	230V AC	032106	ASA1223050	


Coils ASA2..

	Voltage	Code	Item	Matching
	12V DC	032109	ASA201200	AX1NE
	12V AC	032110	ASA201250	
	24V DC	032111	ASA202400	
	24V AC	032112	ASA202450	
	48V AC	032113	ASA204850	
	110V AC	032114	ASA211050	
	230V AC	032115	ASA223050	

Coils ASA34..


	Voltage	Code	Item	Matching
	24V DC	034341	ASA3402400	AX1NEG
	24V AC	034340	ASA3402450	
	110V AC	034342	ASA3411050	
	240V AC	034343	ASA3424050	

Connectors A122..⁽¹⁾

	Code	Item	Version
	032118	A12209N	Black standard
	033521	A12209NK	Black standard cabled
	032204	A12209T1	LED+VDR transparent 24VAC-DC
	032205	A12209T2	LED+VDR transparent 115VAC-DC
	032206	A12209T3	LED+VDR transparent 230VAC-DC
	033522	A12209N1K	LED+VDR black cabled 24VAC-DC
	033523	A12209N2K	LED+VDR black cabled 115VAC-DC
	033524	A12209N3K	LED+VDR black cabled 230VAC-DC

(1) For coils type ASA12

Connectors A182..⁽²⁾

	Code	Item	Version
	032119	A18209N	Black standard
	033531	A18209NK	Black standard cabled
	032207	A18209T1	LED+VDR transparent 24VAC-DC
	032208	A18209T2	LED+VDR transparent 115VAC-DC
	032209	A18209T3	LED+VDR transparent 230VAC-DC
	033532	A18209N1K	LED+VDR black cabled 24VAC-DC
	033533	A18209N2K	LED+VDR black cabled 115VAC-DC
	033534	A18209N3K	LED+VDR black cabled 230VAC-DC

(2) For coils type ASA2 e ASA34