

# STAINLESS STEEL

## solenoid operated valves Series AX1



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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 in-line connections. Available in size 1/4", solenoid operated also with external air pilot, Ø 9 mm or Ø 13 mm plunger, with functions: 3/2 solenoid/spring normally closed, 3/2 solenoid/spring normally open, 3/2 solenoid/solenoid, 5/2 solenoid/spring, 5/2 solenoid/solenoid and solenoid/solenoid differential, 5/3 open centres, closed centres and pressurized centres. 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 AX1 1/4" 3/2 Solenoid/Spring

from page 5.105.10



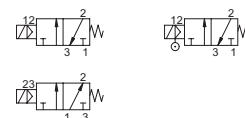
Series of stainless steel spool valves, with in-line connections, size 1/4", in function 3/2 solenoid/spring normally closed, also with external air pilot, and 3/2 solenoid/spring normally open.

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

II 2G Ex h IIC T5 Gb

II 2D Ex h IIC T100°C Db

Coils and connectors to be ordered separately.



## Series AX1 1/4" 3/2 Solenoid/Solenoid

from page 5.105.20



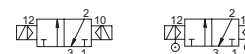
Series of stainless steel spool valves, with in-line connections, size 1/4", in function 3/2 solenoid/solenoid, also with external air pilot.

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

II 2G Ex h IIC T5 Gb

II 2D Ex h IIC T100°C Db

Coils and connectors to be ordered separately.



## Series AX1 1/4" 5/2 Solenoid/Spring

from page 5.105.40



Series of stainless steel spool valves, with in-line connections, size 1/4", in function 5/2 solenoid/spring, also with external air pilot.

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

II 2G Ex h IIC T5 Gb

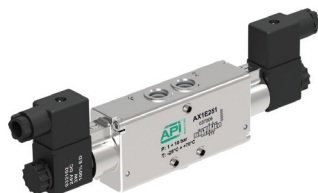
II 2D Ex h IIC T100°C Db

Coils and connectors to be ordered separately.



## Series AX1 1/4" 5/2 Solenoid/Solenoid

from page 5.105.50



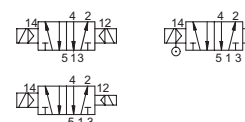
Series of stainless steel spool valves, with in-line connections, size 1/4", in function 5/2 solenoid/solenoid, also with external air pilot, and 5/2 solenoid/solenoid differential.

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

II 2G Ex h IIC T5 Gb

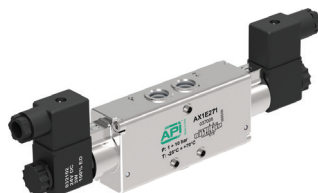
II 2D Ex h IIC T100°C Db

Coils and connectors to be ordered separately.



## Series AX1 1/4" 5/3

from page 5.105.70



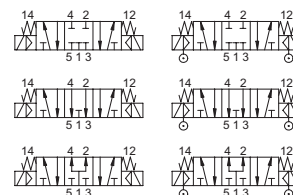
Series of stainless steel spool valves, with in-line connections, size 1/4", in function 5/3 closed centres, 5/3 open centres and 5/3 pressurized centres, also with external air pilot.

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

II 2G Ex h IIC T5 Gb

II 2D Ex h IIC T100°C Db

Coils and connectors to be ordered separately.



### Options

| Description                 | Symbol                                                                              | Suffix    |
|-----------------------------|-------------------------------------------------------------------------------------|-----------|
| FKM seals<br>-10°C ÷ +150°C |  | <b>V</b>  |
| Special versions on request |                                                                                     | <b>/S</b> |

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 5.102.6

### Options matching

| Series | Size | Function        | ATEX     | Standard options matching |
|--------|------|-----------------|----------|---------------------------|
|        |      |                 |          | <b>V</b>                  |
| AX1E   | 1/4" | 3/2 - 5/2 - 5/3 | Standard | ●                         |
| AX1K   | 1/4" | 3/2 - 5/2 - 5/3 | Standard | ●                         |

Key

● allowed matching; - not allowed matching.

Code key

| Series     | Actuation                                                           |                                                        | Size                          | Function                                                                                                                                                                                                                                                                  | Options       |
|------------|---------------------------------------------------------------------|--------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>AX1</b> | <b>E</b>                                                            |                                                        | <b>2</b>                      | <b>50</b>                                                                                                                                                                                                                                                                 |               |
| AX1        | E = Electric<br>K <sup>(1)</sup> = Electric with external air pilot | = Ø 9 mm plunger<br>G <sup>(2)</sup> = Ø 13 mm plunger | 2 = 1/4" Gas<br>2N = 1/4" NPT | 30 = 3/2 Normally closed<br>31 = 3/2 Normally open<br>32 = 3/2 Solenoid/Solenoid<br>50 = 5/2 Solenoid/Spring<br>51 = 5/2 Solenoid/Solenoid<br>52 = 5/2 Solenoid/Solenoid differential<br>70 = 5/3 Closed Centres<br>71 = 5/3 Open Centres<br>72 = 5/3 Pressurized Centres | V = FKM seals |

ATEX note



Valves bodies of series AX1 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 |
|--------|-----------|------|----------|
| AX1    | E         | 2    | 50       |

Notes

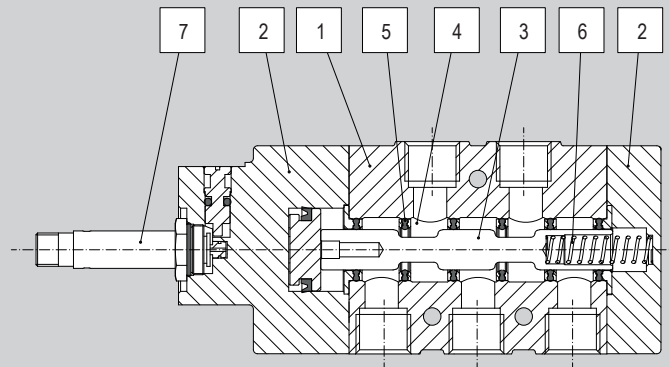
For standard materials, see page 5.102.5

(1) The actuation with external air pilot (K) is available only for functions 3/2 N.C. (30), 3/2 solenoid/solenoid (32), 5/2 solenoid/spring (50), 5/2 solenoid/solenoid (51) and for functions 5/3 (70, 71, 72).

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

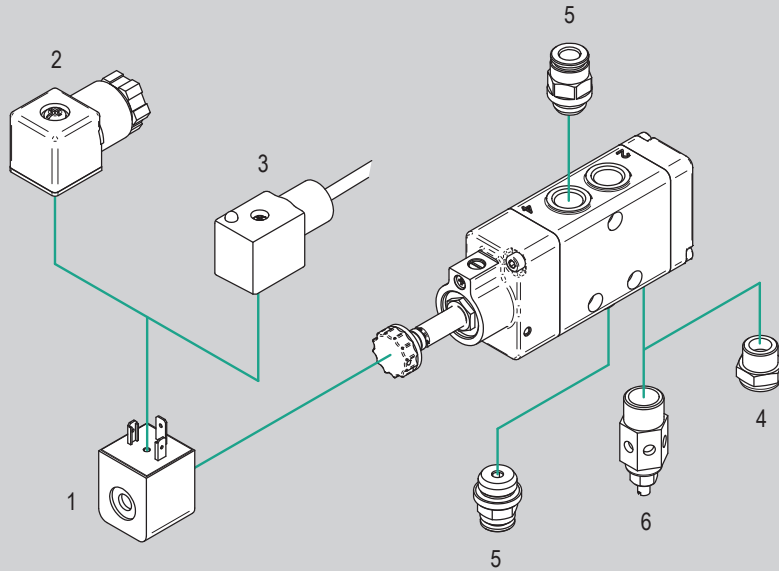
Coils and connectors to be ordered separately, see page 5.109.1

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"     |         |        |         |               |                 |
|    |                                   |                                     |                                          | AX1E..   | AX1EG.. | AX1K.. | AX1KG.. |               |                 |
| 1  | ASA12..                           | Coil                                | EN60204 VDE0580                          | ●        | -       | ●      | -       | 5.109.1       | 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                            | ●        | -       | ●      | -       | 5.109.1       | 2.318.12        |
|    | A18209..                          |                                     |                                          | ●        | ●       | ●      | ●       |               | 2.318.14        |
|    | A122../ATEX                       | ATEX connector                      | 2014/34/EU                               | ●        | -       | ●      | -       | 5.155.3       |                 |
| 3  | A12209..                          | Cabled connector                    | VDE 0110-1/89                            | ●        | -       | ●      | -       | 5.109.1       | 2.318.12        |
|    | A18209..                          |                                     |                                          | ●        | ●       | ●      | ●       |               | 2.318.14        |
| 4  | AFEX..<br>AEX..<br>AEPX..<br>AERX | Stainless Steel silencers           | -                                        | ●        | ●       | ●      | ●       | 5.390.1       |                 |
| 5  | RX..                              | Stainless Steel push-in fittings    | UNI ISO 228/1<br>UNI ISO7/1<br>ISO R/232 | ●        | ●       | ●      | ●       | 5.302.1       |                 |
| 6  | AVRX..                            | Stainless Steel silenced regulators | -                                        | ●        | ●       | ●      | ●       | 5.375.1       |                 |

Key

● matching accessory; - not matching accessory

# Stainless Steel solenoid operated valves series AX1

1/4", 3/2 solenoid/spring



## Main features

| Version             | Actuation          | Code    | Item     | Symbol |
|---------------------|--------------------|---------|----------|--------|
| 3/2 Normally closed | Electric Ø9        | 037004X | AX1E230  |        |
|                     | Electric Ø13       | *       | AX1EG230 |        |
|                     | Ext. air pilot Ø9  | 037011X | AX1K230  |        |
|                     | Ext. air pilot Ø13 | *       | AX1KG230 |        |
| 3/2 Normally open   | Electric Ø9        | 037009X | AX1E231  |        |
|                     | Electric Ø13       | *       | AX1EG231 |        |



## Technical data

| Version                       | 3/2 Normally closed                                                                     |              | 3/2 Normally closed with external air pilot |              | 3/2 Normally open |              |
|-------------------------------|-----------------------------------------------------------------------------------------|--------------|---------------------------------------------|--------------|-------------------|--------------|
| Code                          | 037004X                                                                                 | *            | 037011X                                     | *            | 037009X           | *            |
| Item                          | AX1E230                                                                                 | AX1EG230     | AX1K230                                     | AX1KG230     | AX1E231           | AX1EG231     |
| 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 | 1,5 ÷ 10 bar                                | 1,5 ÷ 12 bar | 1,5 ÷ 10 bar      | 1,5 ÷ 12 bar |
| Minimum external air pressure | -                                                                                       |              | 1,5 bar                                     |              | -                 |              |
| Temperature range             | -25°C ÷ +70°C (standard)                                                                |              | -10°C ÷ +150°C (V)                          |              |                   |              |
| Plunger Ø                     | 9 mm                                                                                    | 13 mm        | 9 mm                                        | 13 mm        | 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<br>II 2D Ex h IIC 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 5.102.6

For coils type ASA12, ASA2 and ASA34 (with increased voltage, only for actuations EG and KG) and for connectors A122 and A182, see page 5.109.1

For ATEX coils and connectors see from page 5.150.1

**WARNING:** 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 solenoid operated valves series AX1

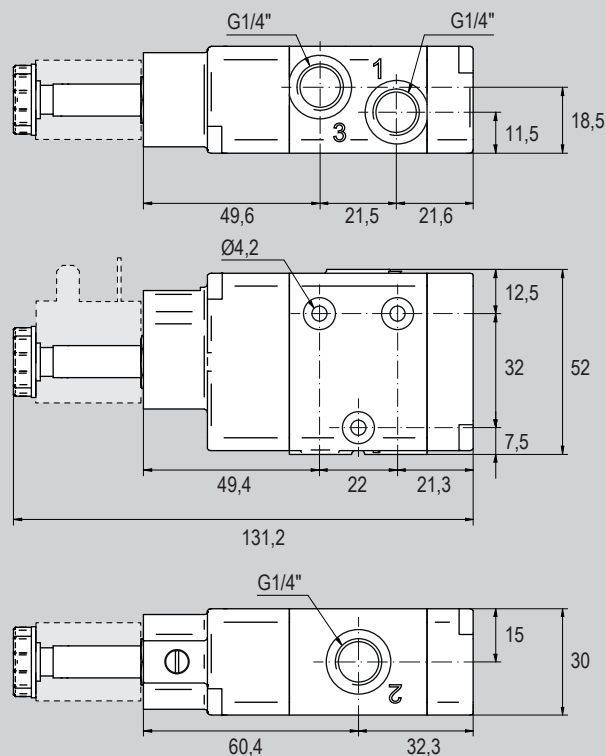
1/4", 3/2 solenoid/spring



## Standard dimensions

CE  $\epsilon_x$  II 2G Ex h IIC T5 Gb  
II 2D Ex h IIIIC T100°C Db

Type: 3/2 N.C.  
3/2 N.O.



| Version                  | Actuation     | Symbol | Code    | Item     |
|--------------------------|---------------|--------|---------|----------|
| 1/4" 3/2 Normally closed | Electric Ø 9  |        | 037004X | AX1E230  |
|                          | Electric Ø 13 |        | *       | AX1EG230 |
| 1/4" 3/2 Normally open   | Electric Ø 9  |        | 037009X | AX1E231  |
|                          | Electric Ø 13 |        | *       | AX1EG231 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1E2N.. and AX1EG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

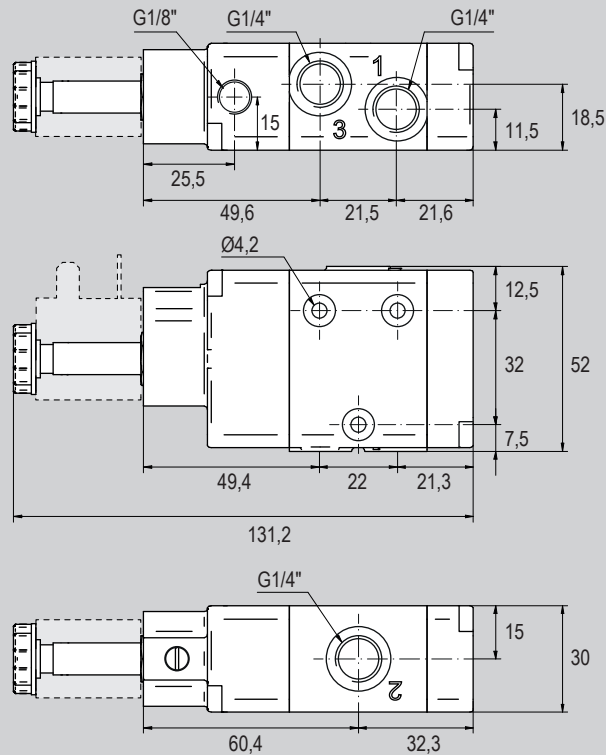
1/4", 3/2 solenoid/spring



## Standard dimensions

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

Type: 3/2 N.C. with external air pilot



| Version                  | Actuation                    | Symbol | Code    | Item     |
|--------------------------|------------------------------|--------|---------|----------|
| 1/4" 3/2 Normally closed | With external air pilot Ø 9  |        | 037011X | AX1K230  |
|                          | With external air pilot Ø 13 |        | *       | AX1KG230 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1K2N.. and AX1KG2N..), please contact the sales department.

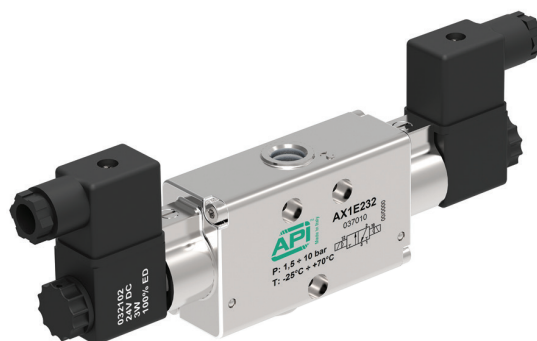
## Stainless Steel solenoid operated valves series AX1

1/4", 3/2 solenoid/solenoid



## Main features

| Version               | Actuation          | Code    | Item     | Symbol |
|-----------------------|--------------------|---------|----------|--------|
| 3/2 solenoid/solenoid | Electric Ø9        | 037010X | AX1E232  |        |
|                       | Electric Ø13       | *       | AX1EG232 |        |
|                       | Ext. air pilot Ø9  | 037012X | AX1K232  |        |
|                       | Ext. air pilot Ø13 | *       | AX1KG232 |        |



## Technical data

| Version                       | 3/2 solenoid/solenoid                                                                   |            | 3/2 solenoid/solenoid with external air pilot |            |
|-------------------------------|-----------------------------------------------------------------------------------------|------------|-----------------------------------------------|------------|
| Code                          | 037010X                                                                                 | *          | 037012X                                       | *          |
| Item                          | AX1E232                                                                                 | AX1EG232   | AX1K232                                       | AX1KG232   |
| Size                          | 1/4"                                                                                    |            |                                               |            |
| Fluid                         | Compressed air with or without lubrication. Lubrication, if started, must be continued. |            |                                               |            |
| Pressure range                | 1 ÷ 10 bar                                                                              | 1 ÷ 12 bar | 1 ÷ 10 bar                                    | 1 ÷ 12 bar |
| Minimum external air pressure | -                                                                                       |            | 1,5 bar                                       |            |
| Temperature range             | -25°C ÷ +70°C (standard)                                                                |            | -10°C ÷ +150°C (V)                            |            |
| Plunger Ø                     | 9 mm                                                                                    | 13 mm      | 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<br>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 5.102.6

For coils type ASA12, ASA2 and ASA34 (with increased voltage, only for actuations EG and KG) and for connectors A122 and A182, see page 5.109.1

For ATEX coils and connectors see from page 5.150.1

**WARNING:** 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

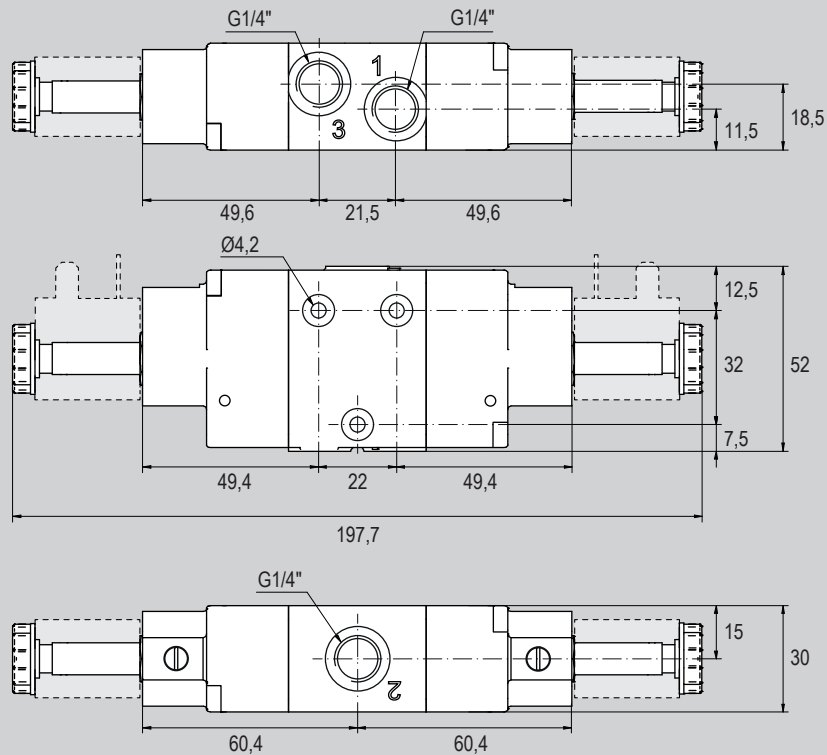
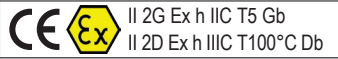
# Stainless Steel solenoid operated valves series AX1

1/4", 3/2 solenoid/solenoid



## Standard dimensions

Type: 3/2 solenoid/solenoid



| Version                    | Actuation     | Symbol | Code    | Item     |
|----------------------------|---------------|--------|---------|----------|
| 1/4" 3/2 solenoid/solenoid | Electric Ø 9  |        | 037010X | AX1E232  |
|                            | Electric Ø 13 |        | *       | AX1EG232 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1E2N.. and AX1EG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

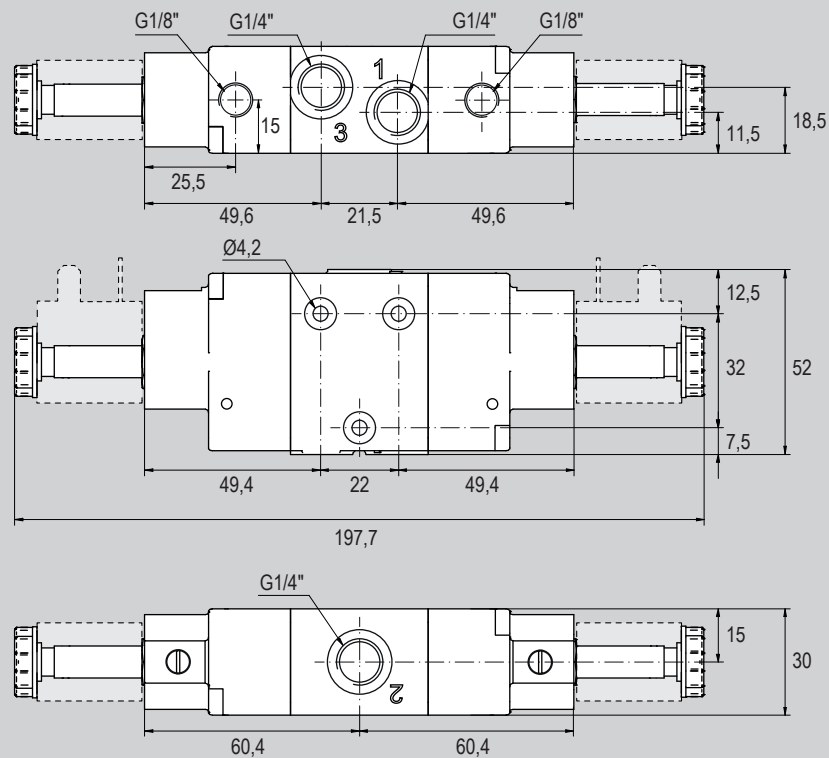
1/4", 3/2 solenoid/solenoid



## Standard dimensions

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

Type: 3/2 solenoid/solenoid with external air pilot



| Version                    | Actuation                    | Symbol | Code    | Item     |
|----------------------------|------------------------------|--------|---------|----------|
| 1/4" 3/2 solenoid/solenoid | With external air pilot Ø 9  |        | 037012X | AX1K232  |
|                            | With external air pilot Ø 13 |        | *       | AX1KG232 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1K2N.. and AX1KG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

1/4", 5/2 solenoid/spring



## Main features

| Version             | Actuation          | Code    | Item     | Symbol |
|---------------------|--------------------|---------|----------|--------|
| 5/2 solenoid/spring | Electric Ø9        | 037003X | AX1E250  |        |
|                     | Electric Ø13       | *       | AX1EG250 |        |
|                     | Ext. air pilot Ø9  | 037017X | AX1K250  |        |
|                     | Ext. air pilot Ø13 | *       | AX1KG250 |        |



## Technical data

| Version                       | 5/2 solenoid/spring                                                                     |              | 5/2 solenoid/spring with external air pilot |              |
|-------------------------------|-----------------------------------------------------------------------------------------|--------------|---------------------------------------------|--------------|
| Code                          | 037003X                                                                                 | *            | 037017X                                     | *            |
| Item                          | AX1E250                                                                                 | AX1EG250     | AX1K250                                     | AX1KG250     |
| 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 | 1,5 ÷ 10 bar                                | 1,5 ÷ 12 bar |
| Minimum external air pressure | -                                                                                       |              | 1,5 bar                                     |              |
| Temperature range             | -25°C ÷ +70°C (standard)                                                                |              | -10°C ÷ +150°C (V)                          |              |
| Plunger Ø                     | 9 mm                                                                                    | 13 mm        | 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<br>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 5.102.6

For coils type ASA12, ASA2 and ASA34 (with increased voltage, only for actuations EG and KG) and for connectors A122 and A182, see page 5.109.1

For ATEX coils and connectors see from page 5.150.1

**WARNING:** 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 solenoid operated valves series AX1

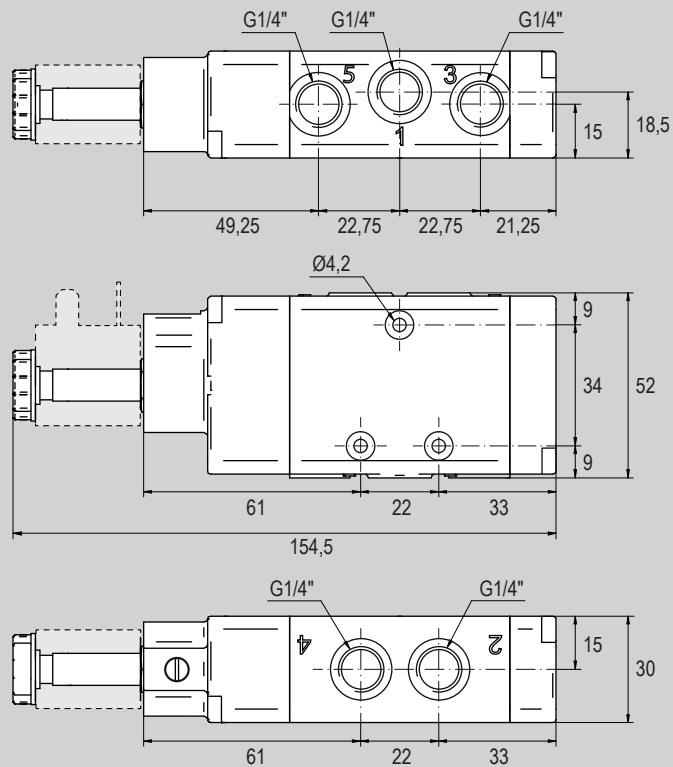
1/4", 5/2 solenoid/spring



## Standard dimensions

Type: 5/2 solenoid/spring

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



| Version                  | Actuation     | Symbol | Code    | Item     |
|--------------------------|---------------|--------|---------|----------|
| 1/4" 5/2 solenoid/spring | Electric Ø 9  |        | 037003X | AX1E250  |
|                          | Electric Ø 13 |        | *       | AX1EG250 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1E2N.. and AX1EG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

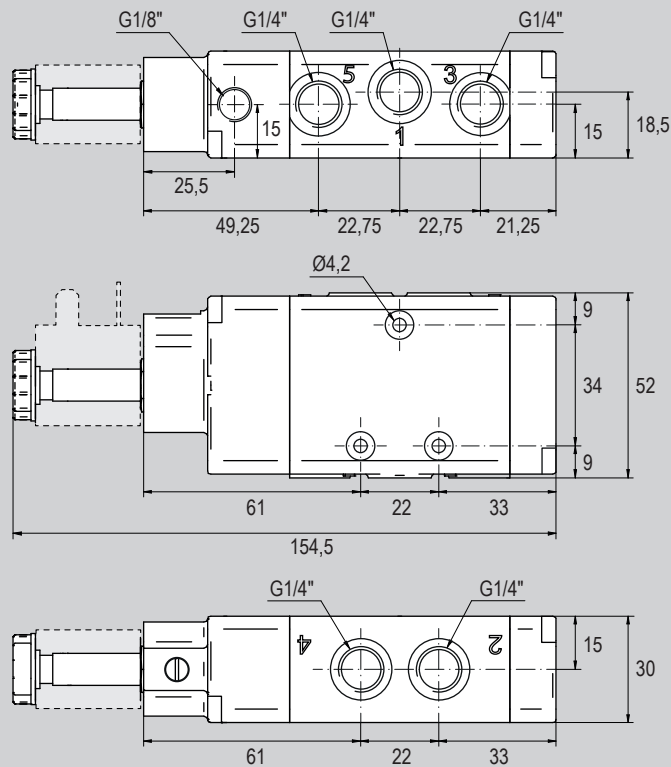
1/4", 5/2 solenoid/spring



## Standard dimensions

CE  $\epsilon_x$  II 2G Ex h IIC T5 Gb  
II 2D Ex h IIIC T100°C Db

Type: 5/2 solenoid/spring with external air pilot



| Version                  | Actuation                    | Symbol | Code    | Item     |
|--------------------------|------------------------------|--------|---------|----------|
| 1/4" 5/2 solenoid/spring | With external air pilot Ø 9  |        | 037017X | AX1K250  |
|                          | With external air pilot Ø 13 |        | *       | AX1KG250 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1K2N.. and AX1KG2N..), please contact the sales department.

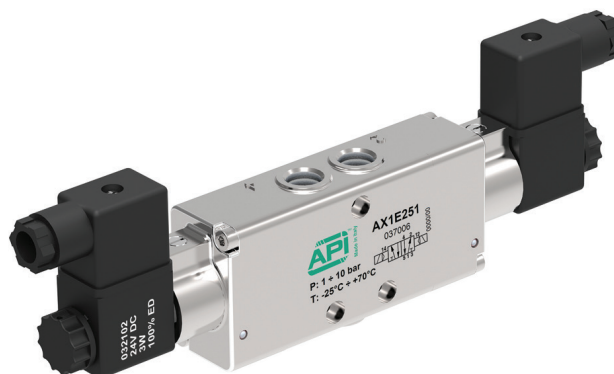
# Stainless Steel solenoid operated valves series AX1

1/4", 5/2 solenoid/solenoid



## Main features

| Version                            | Actuation          | Code    | Item     | Symbol |
|------------------------------------|--------------------|---------|----------|--------|
| 5/2 solenoid/solenoid              | Electric Ø9        | 037006X | AX1E251  |        |
|                                    | Electric Ø13       | *       | AX1EG251 |        |
|                                    | Ext. air pilot Ø9  | 037018X | AX1K251  |        |
|                                    | Ext. air pilot Ø13 | *       | AX1KG251 |        |
| 5/2 solenoid/solenoid differential | Electric Ø9        | 037013X | AX1E252  |        |
|                                    | Electric Ø13       | *       | AX1EG252 |        |



## Technical data

| Version                       | 5/2 solenoid/solenoid                                                                   |            | 5/2 solenoid/solenoid with external air pilot |            | 5/2 solenoid/solenoid differential |            |
|-------------------------------|-----------------------------------------------------------------------------------------|------------|-----------------------------------------------|------------|------------------------------------|------------|
| Code                          | 037006X                                                                                 | *          | 037018X                                       | *          | 037013X                            | *          |
| Item                          | AX1E251                                                                                 | AX1EG251   | AX1K251                                       | AX1KG251   | AX1E252                            | AX1EG252   |
| Size                          | 1/4"                                                                                    |            |                                               |            |                                    |            |
| Fluid                         | Compressed air with or without lubrication. Lubrication, if started, must be continued. |            |                                               |            |                                    |            |
| Pressure range                | 1 ÷ 10 bar                                                                              | 1 ÷ 12 bar | 1 ÷ 10 bar                                    | 1 ÷ 12 bar | 1 ÷ 10 bar                         | 1 ÷ 12 bar |
| Minimum external air pressure | -                                                                                       |            | 1,5 bar                                       |            | -                                  |            |
| Temperature range             | -25°C ÷ +70°C (standard)                                                                |            | -10°C ÷ +150°C (V)                            |            |                                    |            |
| Plunger Ø                     | 9 mm                                                                                    | 13 mm      | 9 mm                                          | 13 mm      | 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<br>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 5.102.6  
For coils type ASA12, ASA2 and ASA34 (with increased voltage, only for actuations EG and KG) and for connectors A122 and A182, see page 5.109.1  
For ATEX coils and connectors see from page 5.150.1

**WARNING:** 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 solenoid operated valves series AX1

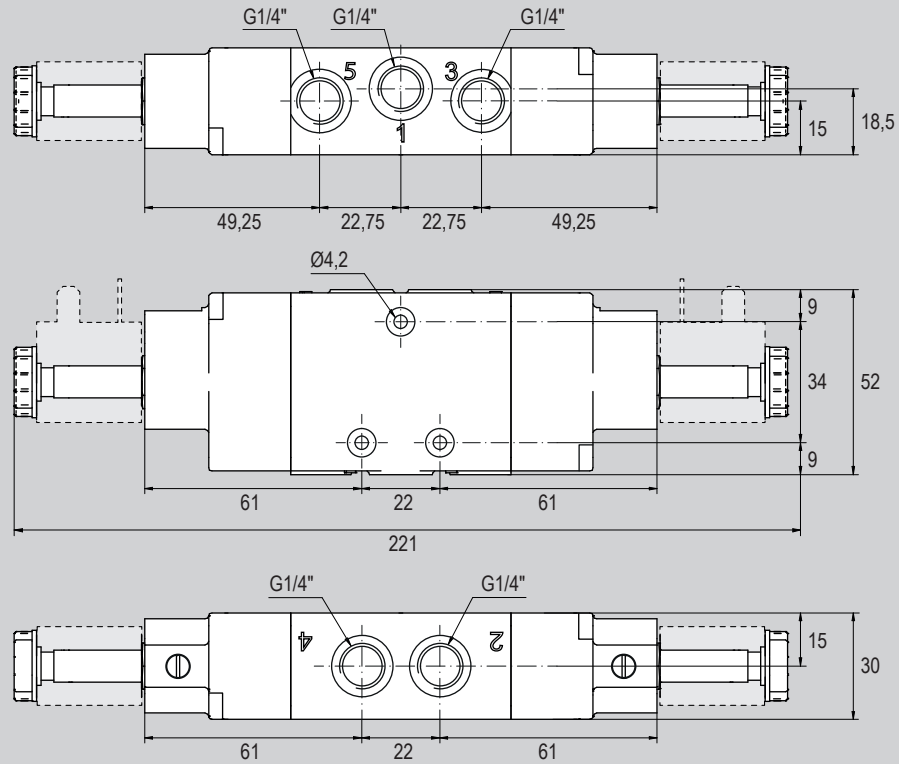
1/4", 5/2 solenoid/solenoid



## Standard dimensions

CE  $\epsilon_x$  II 2G Ex h IIC T5 Gb  
II 2D Ex h IIIIC T100°C Db

Type: **5/2 solenoid/solenoid**  
**5/2 solenoid/solenoid differential**



| Version                                 | Actuation     | Symbol | Code    | Item     |
|-----------------------------------------|---------------|--------|---------|----------|
| 1/4" 5/2 solenoid/solenoid              | Electric Ø 9  |        | 037006X | AX1E251  |
|                                         | Electric Ø 13 |        | *       | AX1EG251 |
| 1/4" 5/2 solenoid/solenoid differential | Electric Ø 9  |        | 037013X | AX1E252  |
|                                         | Electric Ø 13 |        | *       | AX1EG252 |

\*For code, please contact the sales department.  
For availability and code of versions with NPT threads (AX1E2N.. and AX1EG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

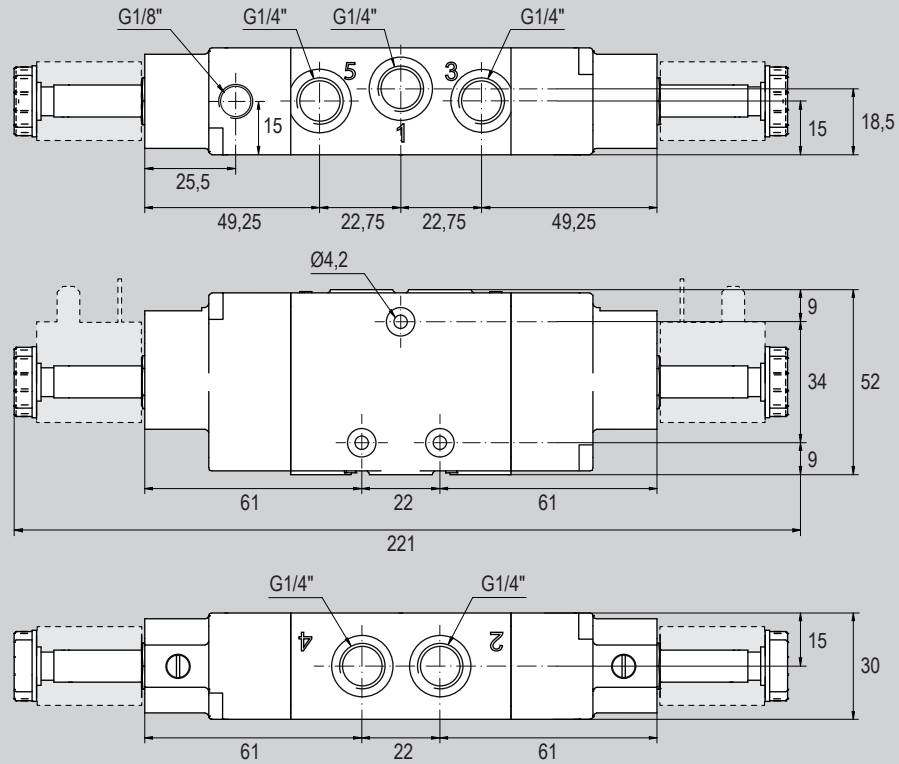
1/4", 5/2 solenoid/solenoid



## Standard dimensions

CE  $\epsilon_x$  II 2G Ex h IIC T5 Gb  
II 2D Ex h IIIC T100°C Db

Type: 5/2 solenoid/solenoid with external air pilot



| Version                    | Actuation                    | Symbol | Code    | Item     |
|----------------------------|------------------------------|--------|---------|----------|
| 1/4" 5/2 solenoid/solenoid | With external air pilot Ø 9  |        | 037018X | AX1K251  |
|                            | With external air pilot Ø 13 |        | *       | AX1KG251 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1K2N.. and AX1KG2N..), please contact the sales department.

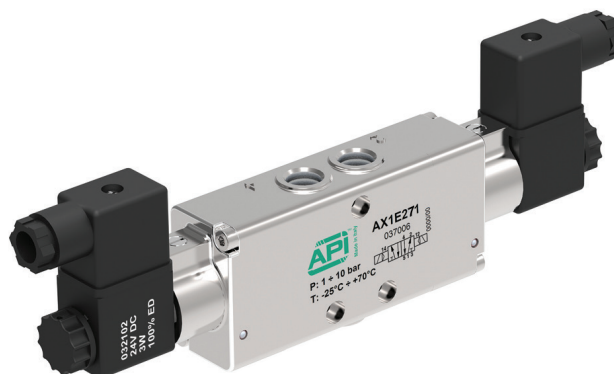
# Stainless Steel solenoid operated valves series AX1

1/4", 5/3



## Main features

| Version                 | Actuation          | Code    | Item     | Symbol |
|-------------------------|--------------------|---------|----------|--------|
| 5/3 Closed Centres      | Electric Ø9        | 037014X | AX1E270  |        |
|                         | Electric Ø13       | *       | AX1EG270 |        |
|                         | Ext. air pilot Ø9  | 037019X | AX1K270  |        |
|                         | Ext. air pilot Ø13 | *       | AX1KG270 |        |
| 5/3 Open Centres        | Electric Ø9        | 037015X | AX1E271  |        |
|                         | Electric Ø13       | *       | AX1EG271 |        |
|                         | Ext. air pilot Ø9  | 037020X | AX1K271  |        |
|                         | Ext. air pilot Ø13 | *       | AX1KG271 |        |
| 5/3 Pressurized Centres | Electric Ø9        | 037016X | AX1E272  |        |
|                         | Electric Ø13       | *       | AX1EG272 |        |
|                         | Ext. air pilot Ø9  | 037021X | AX1K272  |        |
|                         | Ext. air pilot Ø13 | *       | AX1KG272 |        |



## Technical data

| Version                       | 5/3 Closed Centres                                                                      |            | 5/3 Closed Centres<br>with external air pilot |            | 5/3 Open Centres |            | 5/3 Open Centres<br>with external air pilot |            | 5/3 Pressurized Centres |            | 5/3 Pressurized Centres<br>with external air pilot |            |
|-------------------------------|-----------------------------------------------------------------------------------------|------------|-----------------------------------------------|------------|------------------|------------|---------------------------------------------|------------|-------------------------|------------|----------------------------------------------------|------------|
| Code                          | 037014X                                                                                 | *          | 037019X                                       | *          | 037015X          | *          | 037020X                                     | *          | 037016X                 | *          | 037021X                                            | *          |
| Item                          | AX1E270                                                                                 | AX1EG270   | AX1K270                                       | AX1KG270   | AX1E271          | AX1EG271   | AX1K271                                     | AX1KG271   | AX1E272                 | AX1EG272   | AX1K272                                            | AX1KG272   |
| Size                          | 1/4"                                                                                    |            |                                               |            |                  |            |                                             |            |                         |            |                                                    |            |
| Fluid                         | Compressed air with or without lubrication. Lubrication, if started, must be continued. |            |                                               |            |                  |            |                                             |            |                         |            |                                                    |            |
| Pressure range                | 2,5÷10 bar                                                                              | 2,5÷12 bar | 2,5÷10 bar                                    | 2,5÷12 bar | 2,5÷10 bar       | 2,5÷12 bar | 2,5÷10 bar                                  | 2,5÷12 bar | 2,5÷10 bar              | 2,5÷12 bar | 2,5÷10 bar                                         | 2,5÷12 bar |
| Minimum external air pressure | -                                                                                       |            | 1,5 bar                                       |            | -                |            | 1,5 bar                                     |            | -                       |            | 1,5 bar                                            |            |
| Temperature range             | -25°C ÷ +70°C (standard)                                                                |            |                                               |            |                  |            | -10°C ÷ +150°C (V)                          |            |                         |            |                                                    |            |
| Plunger Ø                     | 9 mm                                                                                    | 13 mm      | 9 mm                                          | 13 mm      | 9 mm             | 13 mm      | 9 mm                                        | 13 mm      | 9 mm                    | 13 mm      | 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<br>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 5.102.6  
For coils type ASA12, ASA2 and ASA34 (with increased voltage, only for actuations EG and KG) and for connectors A122 and A182, see page 5.109.1  
For ATEX coils and connectors see from page 5.150.1

**WARNING:** 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 solenoid operated valves series AX1

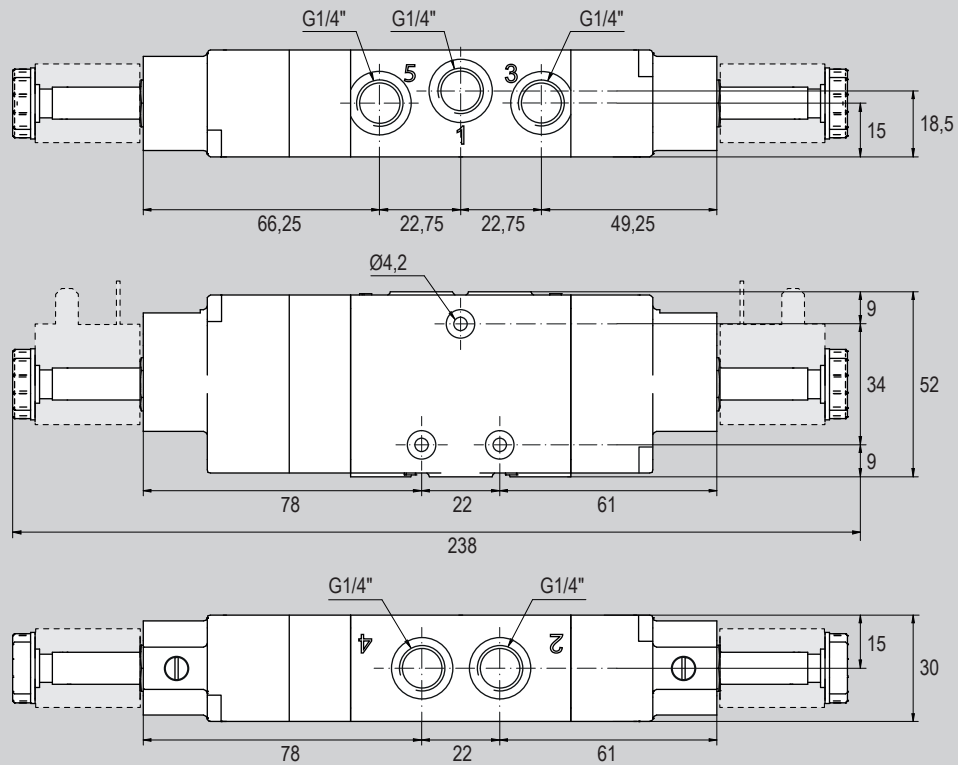
1/4", 5/3



## Standard dimensions

CE  $\epsilon_x$  II 2G Ex h IIC T5 Gb  
II 2D Ex h IIIC T100°C Db

Type: 5/3 C.C.  
5/3 O.C.  
5/3 P.C.



| Version                      | Actuation     | Symbol | Code    | Item     |
|------------------------------|---------------|--------|---------|----------|
| 1/4" 5/3 Closed Centres      | Electric Ø 9  |        | 037014X | AX1E270  |
|                              | Electric Ø 13 |        | *       | AX1EG270 |
| 1/4" 5/3 Open Centres        | Electric Ø 9  |        | 037015X | AX1E271  |
|                              | Electric Ø 13 |        | *       | AX1EG271 |
| 1/4" 5/3 Pressurized Centres | Electric Ø 9  |        | 037016X | AX1E272  |
|                              | Electric Ø 13 |        | *       | AX1EG272 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1E2N.. and AX1EG2N..), please contact the sales department.

# Stainless Steel solenoid operated valves series AX1

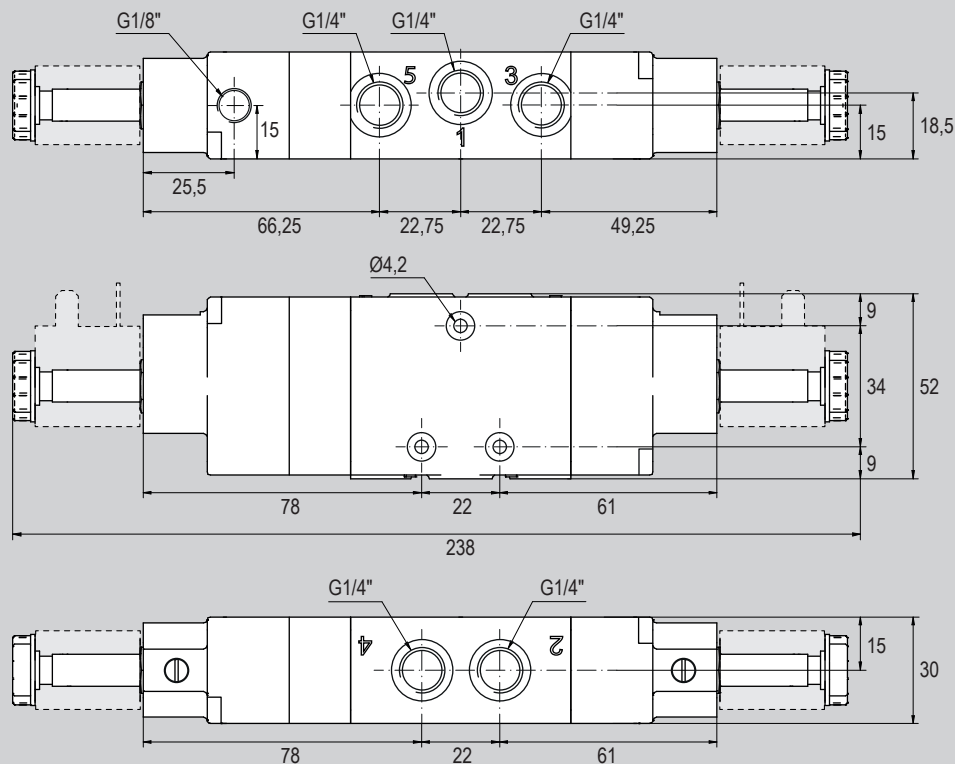
1/4", 5/3



## Standard dimensions

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

Type: 5/3 C.C. with external air pilot  
5/3 O.C. with external air pilot  
5/3 P.C. with external air pilot



| Version                      | Actuation                    | Symbol | Code    | Item     |
|------------------------------|------------------------------|--------|---------|----------|
| 1/4" 5/3 Closed Centres      | With external air pilot Ø 9  |        | 037019X | AX1K270  |
|                              | With external air pilot Ø 13 |        | *       | AX1KG270 |
| 1/4" 5/3 Open Centres        | With external air pilot Ø 9  |        | 037020X | AX1K271  |
|                              | With external air pilot Ø 13 |        | *       | AX1KG271 |
| 1/4" 5/3 Pressurized Centres | With external air pilot Ø 9  |        | 037021X | AX1K272  |
|                              | With external air pilot Ø 13 |        | *       | AX1KG272 |

\*For code, please contact the sales department.

For availability and code of versions with NPT threads (AX1K2N.. and AX1KG2N..), please contact the sales department.

Coils ASA12..

|                                                                                   | Voltage | Code   | Item       | Matching     |
|-----------------------------------------------------------------------------------|---------|--------|------------|--------------|
|  | 12V DC  | 032100 | ASA1201200 | AX1E<br>AX1K |
|                                                                                   | 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 | AX1E<br>AX1K |
|                                                                                   | 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 | AX1EG<br>AX1KG |
|                                                                                   | 24V AC  | 034340 | ASA3402450 |                |
|                                                                                   | 110V AC | 034342 | ASA3411050 |                |
|                                                                                   | 240V AC | 034343 | ASA3424050 |                |

Connectors A122..<sup>(1)</sup>

|                                                                                     | 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..<sup>(2)</sup>

|                                                                                     | 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 and ASA34